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Report On
Analysis of Drill Core Rejects
Hyman Township
For
Skead Holdings Ltd.
By
R.A. MacGregor, P. Eng.
December 05, 2019

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Summary

Rejects from previous drilling were recovered where possible from drill holes which had been drilled in 2007-2008 and transported to Sault Ste. Marie. Rejects which had not been contaminated by broken bags were recovered, processed and analysed by ICP-MS for 45 elements. The remaining rejects were placed in new marked plastic bags and archived for future reference.

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 20km 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 uranium boom and considerable drilling 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 six compartment shaft to a depth of 950 metres as well as a decline to the 580 metre level. There 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

Rejects from previous drilling in Hyman Township during 2007-2008 were located stored on private property at a site near Nairn Centre, Ontario. The rejects had been piled on wooden pallets and covered with plastic tarpaulins. Both the tarpaulins and plastic bags containing the rejects had deteriorated and broken in the outside layers over time. Rejects in plastic bags which appeared to have not been broken were recovered and transported to Sault Ste. Marie. Bags which had been broken open and old plastic was transported to a local dump.

Reject bags which were uncontaminated were cleaned, removed from their existing plastic bags and placed in aluminium pans along with identification tags. After drying a 300-400 gram portion of the reject was placed in marked heavy paper envelopes and sent for sample preparation to Swastika Labs. The remaining reject material was placed in new plastic bags with sample tags and retained for future reference.

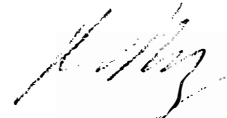
Pulps were recovered from Swastika Labs and a 20-30 gram portion placed in marked envelopes. These were sent to Bureau Veritas Labs in Vancouver for analysis of 45 elements by ICP-MS after a 4-acid dissolution. Pulps not sent for analysis have been archived in 40 dram plastic vials and stored in wooden boxes holding 91 vials each.

Subsequent sorting and racking of core has allowed for identification of drill hole numbers and correlation of most sample intervals using the original sample numbers. It is intended to complete sampling of drill hole sections using available core.

Results and Conclusions

Analysis shows significant values for some samples in both uranium and the only two rare earths, Ce and La included in the analytical package. The sampling was essentially blind with sample locations only becoming available after sorting and racking of reclaimed core. It has given a good indication of where to concentrate further sampling both for fill in and rare earth sampling. Thorium values are much higher than from similar core from Elliot Lake. The significance of this if any is yet to be determined.

Respectfully submitted



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December 05,2019

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	IMA2487	9392	IMA2363
16.0 – 16.55	175002	IMA2488	9391	IMA2362
16.55 – 17.55	175003	IMA2489	9393	IMA2364
17.55 – 18.0	175004	IMA2490	9390	IMA2361
18.0 – 19.0	175005	IMA2491	9394	IMA2365
19.0 – 20.0	175006	IMA2492	9395	IMA2366
20.0 – 21.0	175007	IMA2493	9396	IMA2367
21.0 – 22.0	175008	IMA2586	9397	IMA2368
22.0 – 23.0	175009	IMA2494	9398	IMA2369
23.0 – 24.0	175010		9399	IMA2370
24.0 – 25.0	175011	IMA2495	9400	IMA2371
25.0 – 26.0	175012	IMA2571	49201	IMA2351
26.0 – 27.0	175013	IMA2578	49202	IMA2352
27.0 – 28.0	175014	IMA2575	49203	IMA2393
28.0 – 29.0	175015	IMA2496	49204	IMA2394
29.0 – 30.0	175016	IMA2497	49205	IMA2395
30.0 – 31.0	175017	IMA2466	49206	IMA2396
31.0 – 32.0	175018	IMA2583	49207	IMA2397
32.0 – 33.0	175019	IMA2498	49208	IMA2398
33.0 – 34.0	175021	IMA2499	49209	IMA2399
34.0 – 35.0	175022	IMA2584	49210	IMA2400
35.0 – 36.0	175023	IMA2587	49211	IMA2323
36.0 – 37.0	175024	IMA2657	49212	IMA2324
37.0 – 38.0	175025	IMA2570	49213	IMA2325
38.0 – 39.0	175026	IMA2500	49214	IMA2326

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
39.0 – 40.0	175027	IMA2572	49217	IMA2327
40.0 – 41.0	175028	IMA2569	49216	IMA2328
41.0 – 42.0	175029	IMA2652	49217	IMA2329
42.0 – 42.55	175031	IMA2579	49218	IMA2330
42.55 – 43.20	175032	IMA2689	49231	IMA2426
43.20 – 44.0	175033	IMA2662	49219	IMA2331
44.0 – 45.0	175034	IMA2573	49220	IMA2332
45.0 – 46.0	175035	IMA2581	49221	IMA2333
46.0 – 47.0	175036	IMA2501	49222	IMA2334
47.0 – 48.0	175037	IMA2502	49223	IMA2335
48.0 – 49.0	175038	IMA2503	49224	IMA2419
49.0 – 50.0	175039	IMA2504	49225	IMA2420
50.0 – 51.0	175041	IMA2505	49226	IMA2421
51.0 – 51.75	175042	IMA2506	49227	IMA2422
51.75 – 52.35	175043	IMA2507	49228	IMA2423
52.35 – 53.0	175044	IMA2550	49229	IMA2424
53.0 – 54.0	175045	IMA2551	49230	IMA2425
54.0 – 55.0	175046	IMA2582	49232	IMA2427
55.0 – 56.0	175047	IMA2577	49233	IMA2428
56.0 – 57.0	175048		49234	IMA2429
57.0 – 58.0	175049	IMA2552	49235	IMA2430
58.0 – 58.85	175050	IMA2553	49239	IMA2434
58.85 – 59.55	175051	IMA2554	49241	IMA2436
59.55 – 60.10	175052		49242	IMA2437
60.10 – 60.85	175053	IMA2555	49240	IMA2435

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		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	IMA2556	49245	IMA2372
63.55 – 64.55	175057	IMA2560	49246	IMA2373
64.55 – 65.55	175058	IMA2580	49247	IMA2374
65.55 – 66.50	175059	IMA2585	49248	IMA2375
66.50 – 67.50	175062	IMA2690	49249	IMA2376
67.50 – 68.50	175063	IMA2658	49250	IMA2377
68.50 – 69.50	175064	IMA2669	49437	IMA2388
69.50 – 70.50	175065	IMA2660	49438	IMA2389
70.50 – 71.50	175066	IMA2557	49439	IMA2390
71.50 – 72.50	175067	IMA2558	49440	IMA2391
72.50 – 73.50	175068	IMA2559	49441	IMA2392
73.50 – 74.50	175069		49442	IMA2378
74.50 – 75.0	175070		49443	IMA2379
75.0 – 76.0	175071	IMA2562	49238	IMA2433
76.0 – 77.0	175072	IMA2576	49237	IMA2432
77.0 – 78.0	175073	IMA2574	49236	IMA2431
79.88 – 80.88	175074		49444	IMA2380
80.88 – 81.88	175075	IMA2561	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)	Reject		$\frac{1}{2}$ core	
	Sample No.	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

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		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	IMA1911,2692	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	IMA2596	71093	IMA2062
93.00 – 94.00	175265		71092	IMA2079
94.00 – 95.00	175266	IMA2608	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	IMA2610	71100	IMA2069
105.00 – 106.00	175277	IMA1913	9374	IMA2452
106.00 – 107.00	175278	IMA1903	9375	IMA2453
107.00 – 108.00	175279	IMA2607	9381	IMA2459
110.00 – 111.00	175281	IMA2600	9373	IMA2451
111.00 – 112.00	175282	IMA1914	9382	IMA2353
112.00 – 113.00	175283	IMA2460	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	IMA2601	9376	IMA2454
116.00 – 117.00	175287	IMA2602	9377	IMA2455
117.00 – 118.00	175288	IMA2605	9378	IMA2456
118.00 – 119.00	175289	IMA2609	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	IMA2613	9386	IMA2357
142.30 – 143.20	175296	IMA2606	9387	IMA2358
143.20 – 144.20	175297	IMA2593	9388	IMA2359
144.20 – 145.20	175298	IMA2611	9389	IMA2360
Blank	175290	IMA2615		

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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	IMA2462	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	IMA2686	71080	IMA2180
38.20 – 38.80	175309		71081	IMA2181
38.80 – 39.76	175310		71082	IMA2182
39.76 – 40.60	175311	IMA2680	71083	IMA2070
40.60 – 41.30	175312	IMA2681	71084	IMA2071
41.30 – 42.00	175313	IMA2687	71085	IMA2072
42.00 – 43.00	175314	IMA2688	71086	IMA2073
68.20 – 68.60	175315		62944	IMA2442
68.60 – 69.60	175316	IMA2665	62943	IMA2441
69.60 – 70.60	175317	IMA2737	62942	IMA2418
70.60 – 71.60	175318	IMA2684	62941	IMA2417
71.60 – 72.65	175319	IMA2673	85935	IMA2281
72.65 – 73.65	175321		85934	IMA2280
723.65 – 74.40	175322		85933	IMA2279
90.90 – 91.80	175323	IMA2731	85932	IMA2278
91.80 – 92.50	175324	IMA2801	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	IMA2667	62950	IMA2447
94.00 – 95.00	175327		62921	IMA2266
95.00 – 96.00	175328		62902	IMA2247
96.00 – 97.00	175329	IMA2664	62901	IMA2246
97.00 – 98.00	175331	IMA2461	62920	IMA2265
98.00 – 99.00	175332	IMA2663	62913	IMA2258
99.00 – 100.00	175333	IMA2624	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	IMA2464,2516	62949	IMA2440
106.00 – 107.00	175341	IMA2672	62935	IMA2411
107.00 – 108.00	175342		62934	IMA2410
108.00 – 109.00	175343		62933	IMA2409
109.00 – 110.00	175344	IMA2682	62932	IMA2408
110.00 – 111.00	175345		62931	IMA2407
111.00 – 112.00	175346	IMA2679	62922	IMA2348
112.00 – 113.00	175347		62923	IMA2349
113.00 – 114.00	175348	IMA2738	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

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
119.00 -120.00	175354	IMA2656	62909	IMA2254
120.00 – 121.00	175355	IMA2654	62908	IMA2253
121.00 – 122.00	175356	IMA2617	62907	IMA2252
122.00 – 123.00	175357	IMA2732	62906	IMA2251
123.00 – 124.00	175358	IMA2625	62903	IMA2248
124.00 – 125.00	175359		62904	IMA2249
125.00 – 126.00	175362	IMA2735	62905	IMA2250
126.00 – 127.00	175363	IMA2733	62925	IMA2401
127.00 – 128.00	175364		62926	IMA2402
128.00 – 129.00	175365	IMA2623	62927	IMA2403
129.00 – 130.00	175366	IMA2674	62928	IMA2404
130.00 – 131.00	175367	IMA2685	62929	IMA2405
131.00 – 132.00	175368		62930	IMA2406
132.00 – 133.00	175369	IMA2619	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	IMA2739	85938	IMA2284
150.00 – 151.00	175379		85939	IMA2285

NA07-04

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Analysis No.
18.89 – 19.89	175142	IMA1987		
19.89 – 21.00	175143			
21.00 – 22.00	175144	IMA1990	85605	IMA2080
22.00 – 23.00	175145	IMA1989	85606	IMA2081
23.00 – 24.00	175146	IMA1988	85607	IMA2082
24.00 – 25.00	175147		85608	IMA2083
25.00 – 25.92	175148	IMA2023	85609	IMA2084
25.92 – 26.42	175149		85610	IMA2085
26.42 – 27.42	175150		85611	IMA2223
27.42 – 28.42	175151	IMA2508,2612	85612	IMA2224
28.42 – 29.42	175152	IMA2509,2675	85613	IMA2183
29.42 – 30.00	175153	IMA2510,2614	85614	IMA2184
30.00 – 30.64	175154	IMA1986	85615	IMA2185
30.64 – 31.27	175155	IMA2024	85616	IMA2186
31.27 – 32.27	175156		85617	IMA2187
32.27 – 32.80	175157		85618	IMA2188
32.80 – 33.82	175158		85619	IMA2189
33.82 – 34.18	175159		85620	IMA2190
34.18 – 35.18	175162	IMA2018	85621	IMA2191
40.39 – 40.74	175163		85630	IMA2200
40.74 – 41.58	175164	IMA2511	85622	
41.58 – 42.44	175165	IMA1991	85623	IMA2193
42.44 – 43.00	175166		85624	IMA2194
43.00 – 43.90	175167	IMA2512	85625	IMA2195
43.90 – 44.90	175168	IMA1992	85626	IMA2196

Sample Interval (m)	Sample No.	Reject	½ core	½ core
		Analysis No.	Sample No.	Sample No.
44.90 – 45.60	175169	IMA2513,2616	85627	IMA2197
45.60 – 46.60	175170		85628	IMA2198
54.91 – 55.91	175171		85629	IMA2199
55.91 – 56.82	175172	IMA1900	85631	IMA2201
56.82 – 57.82	175173		85632	IMA2202
59.82 – 60.82	175174	IMA1899	85633	IMA2203
60.82 – 61.35	175175		85634	IMA2162
61.35 – 62.00	175176		85635	IMA2163
62.00 – 63.00	175177	IMA2022	85636	IMA2164
63.00 – 64.00	175178	IMA2021	85637	IMA2165
64.00 – 65.00	175179	IMA2020	85638	IMA2166
65.00 – 66.00	175181	IMA1996	85639	IMA2167
66.00 – 67.00	175182	IMA1997	85640	IMA2168
67.00 – 68.00	175183	IMA1998	85641	IMA2169
68.00 – 69.00	175184		85642	IMA2170
60.99 – 70.00	175185	IMA2000	85643	IMA2171
70.00 – 71.00	175186	IMA2514	85644	IMA2172
71.00 – 72.00	175187	IMA1999	85645	IMA2173
72.00 – 73.00	175188	IMA2002	85646	IMA2174
73.00 – 74.00	175189	IMA2001	85647	IMA2175
74.00 – 75.00	175191	IMA2004	85648	IMA2176
75.00 – 76.00	175192	IMA1901	85649	IMA2177
76.00 – 77.00	175193	IMA2003	85650	IMA2086
77.00 – 78.00	175194	IMA2006	9161	IMA2225
78.00 – 79.00	175195	IMA1902	9162	IMA2226
79.99 – 80.00	175196		9163	IMA2227

Sample Interval (m)	Sample No.	Reject Analysis No.	½ core Sample No.	½ core Analysis No.
80.00 – 81.00	175197	IMA1993	9164	IMA2228
81.00 – 82.00	175198		9165	IMA2229
82.00 – 83.00	175199	IMA2005	9166	IMA2230
83.00 – 84.00	175201	IMA2011	9167	IMA2231
84.00 – 85.00	175202	IMA2014	9168	IMA2232
85.00 – 85.50	175203	IMA2012	9169	IMA2233
85.50 – 86.14	175204	IMA2007	9170	IMA2234
86.14 – 87.14	175205		9171	IMA2235
87.14 – 87.75			9172	IMA2236
102.55 – 103.30	175206		9173	IMA2237
103.30 – 104.16	175207	IMA2009	9174	IMA2238
104.16 – 105.16	175208	IMA2008	9175	IMA2239
105.16 – 106.00	175209	IMA2017	9176	IMA2240
106.00 – 107.00	175210	IMA1994	9177	IMA2241
107.00 – 108.00	175211		9178	IMA2242
108.00 – 109.00	175212		9179	IMA2243
109.00 – 109.53	175213		9180	IMA2244
109.53 – 110.20	175214		9181	IMA2245
110.20 – 110.64	175215		9182	IMA2204
110.64 – 111.55	175216		9183	IMA2205
111.55 – 112.30	175217		9184	IMA2206
1112.30 – 113.30	175218	IMA1995	9185	IMA2207
113.30 – 114.00	175219	IMA2010	9186	IMA2208
114.00 – 115.00	175221	IMA1949	9187	IMA2209
115.00 – 116.00	175222	IMA2016	9188	IMA2210
116.00- 116.63	175223	IMA2013	9189	IMA2211

		Reject	½ core	1/ core
Sample Interval (m)	Sample No.	Analysis No.	Sample No.	Analysis No.
119.30 – 120.00	175224	IMA2013	9190	IMA2212
120.00 – 121.00	175225		9191	IMA2213
121.00 – 122.00	175226	IMA2676	9192	IMA2214
122.00 – 122.44	175227	IMA2515	9193	IMA2215
127.00 – 128.00	175228	IMA2015	9194	IMA2216

NA07-09

Sample No.	Interval	IMA No.	REE No.
176808	45.0-45.2	2659	
176812	47.0-47.8	2621,2884	
176816	57.12-57.58	2588	
176818	58.58-59.7	2637	
176819	59.7-60.55	2643	
176823	66.0-66.5	2589	
176824	66.5-67.5	2604	
176825	67.5-68.0	2518	
176828	74.0-75.0	2903	
176835	80.0-81.0	2902	
176836	81.0-82.0	2598	
176837	82.0-83.0	2648	
176838	136.5-137.0	2519	
176839	137.0-138.0	2644	
176844	139.5-140.0	2668	
176845	140.0-140.5	2666	
176846	140.5-141.5	2620,2896	
176847	141.5-142.0	2599	
176848	142.0-143.0	2591	
176862	221.0-222.0	2638	
176906	268.5-269.0	2636	
176914	277.0-278.0	2882	
176915	278.0-279.0	2883	
176816	279.0-280.0	2645	

NA07-14

Sample No.	Interval	IMA No.	REE No.
158091			
158092			
158093			
158094	245.0-246.0	2783	
158095			
158096			
158097	248.0-249.0	2784	
158098			
158099			
158101	251.0-252.0	2772	
158102	252.0-253.0	2769	
158103			
158104	254.0-255.0	2770	
158105			
158106			
158107			
158108			
158109			
158111	260.0-261.0	2787	
158112	261.0-262.0	2785	
158113	262.0-263.0	2786	
158114	263.0-264.0	2788	
158115			
158116			

NA07-14

Sample No.	Interval	IMA No.	REE No.
158117	266.0-267.0	2791	
158118			
158119	268.0-269.0	2790	
158121	269.0-270.0	2789	
158122	270.0-271.0	2798 4	
158123	271.0-272.0	2793	
158124			
158125	358.0-359.0	2792	
158126			
158127			
158128	361.0-362.0	2795	
158129	362.0-363.0	2796	
158131	363.0-364.0	2797	
158132			
158133			
158134	366.0-367.0	2798	
158135	367.0-368.0	2799	
158136	368.0-369.0	2778	
158137	369.0-370.0	2800	
158138	378.0-379.0	2895	
158139	379.0-380.0	2894	
158141			

NA07-16

Sample No.	Interval	IMA No.
158191	113.0-114.0	2893
158193	115.0-116.0	2892
158194	116.0-117.0	2891
158201	122.0-123.0	2923
158204	125.0-126.0	2941
158205	126.0-127.0	2942
158206	127.0-128.0	2943
158208	129.0-130.0	2944
158209	130.0-131.0	2945
158212	132.0-133.0	2777
158214	134.0-135.0	2946
158215	135.0-136.0	2947
158217	137.0-138.0	2948
158219	139.0-140.0	2930
158222	141.0-142.0	2926
158223	142.0-143.0	2928
158228	147.0-148.0	2925
158231	149.0-150.0	2780
158233	151.0-152.0	2949
158237	155.0-156.0	2950
158238	156.0-157.0	2952
158245	162.0-163.0	2951
158246	163.0-164.0	2752
158254	170.0-171.0	2953

NA07-16

Sample No.	Interval	IMA No.
158258	174.0-175.0	2954
158262	177.0-178.0	2773
158263	178.0-179.0	2955
158268	183.0-184.0	2956
158271	185.0-186.0	2924
158273	187.0-188.0	2957
158274	188.0-189.0	2776
158275	189.0-190.0	2781
158276	190.0-191.0	2922
158284	197.0-198.0	2929
158285	198.0-199.0	2782
158286	199.0-200.0	2779
158287	200.0-201.7	2921

NA08-20

Sample No.	Interval	IMA No.	REE No.
242033			
242034	72.0-73.0	2756	
242035	73.0-74.0	2728	
242036			
242037	75.0-76.0	2726	
242038	76.0-77.0	2524	
242039	77.0-78.0	2525	
242040			
242041	79.0-80.0	2723	
242046	220.0-221.0	2527	
242047			
242048			
242049	223.0-224.0	2719	
242050	224.0-225.0	2729	
242051			
242052			
242053	227.0-228.0	2722	
242054	228.0-229.0	2528	
242042	282.0-283.0	2707	
242043	283.0-284.0	2721	
24244			
242045	285.0-286.0	2526	
242055	329.0-330.0	2469	
242056			

NA08-20

Sample No.	Interval	IMA No.	REE No.
242057			
242058			
242059	333.0-334.0	2693	
242060	334.0-335.0	2647	
242061			
242062			
242063			
242064			
242065	339.0-340.0	2727	
242066			
242067			
242068	342.0-343.0	2470	

NA08-21

Sample No.	Interval	IMA No.	REE No.
176732	108.0-109.0	2762	
176734	110.0-111.0	2897	
176735	111.0-112.0	2764	
176736	112.0-113.0	2763	
176740	116.0-117.0	2749	
176745	121.0-122.0	2761	
242453	127.0-128.0	2768	
242454	128.0-129.0	2691	
242455	129.0-130.0	2759	
242456	130.0-131.0	2967	
242457	131.0-132.0	2474	
242458	132.0-133.0	2475	
242459	133.0-134.0	2476	
242460	134.0-135.0	2477	
242461	135.0-136.0	2478	
242462	136.0-137.0	2479	
242463	137.0-138.0	2480	
242464	138.0-139.0	2708	
242465	139.0-140.0	2481	

NA08-24

Sample No.	Interval	IMA No.	REE No.
242479	50.0-51.0	2696	
242480	51.0-52.0	2709	
242481	52.0-53.0	2939	
242482	53.0-54.0	2700	
242483	54.0-55.0	2710	
242484	55.0-56.0	2937	
242485	56.0-57.0	2938	
242486	57.0-58.0	2760	
242487	58.0-59.0	2720	
242488			
242489			
242490	61.0-62.0	2934	
242491	62.0-63.0	2725	
242492			
242493	64.0-65.0	2935	
242494	65.0-66.0	2932	
242495	66.0-67.0	2931	
242496	125.0-126.0	2933	
242497			
242498			
242499			

Appendix I

Maps



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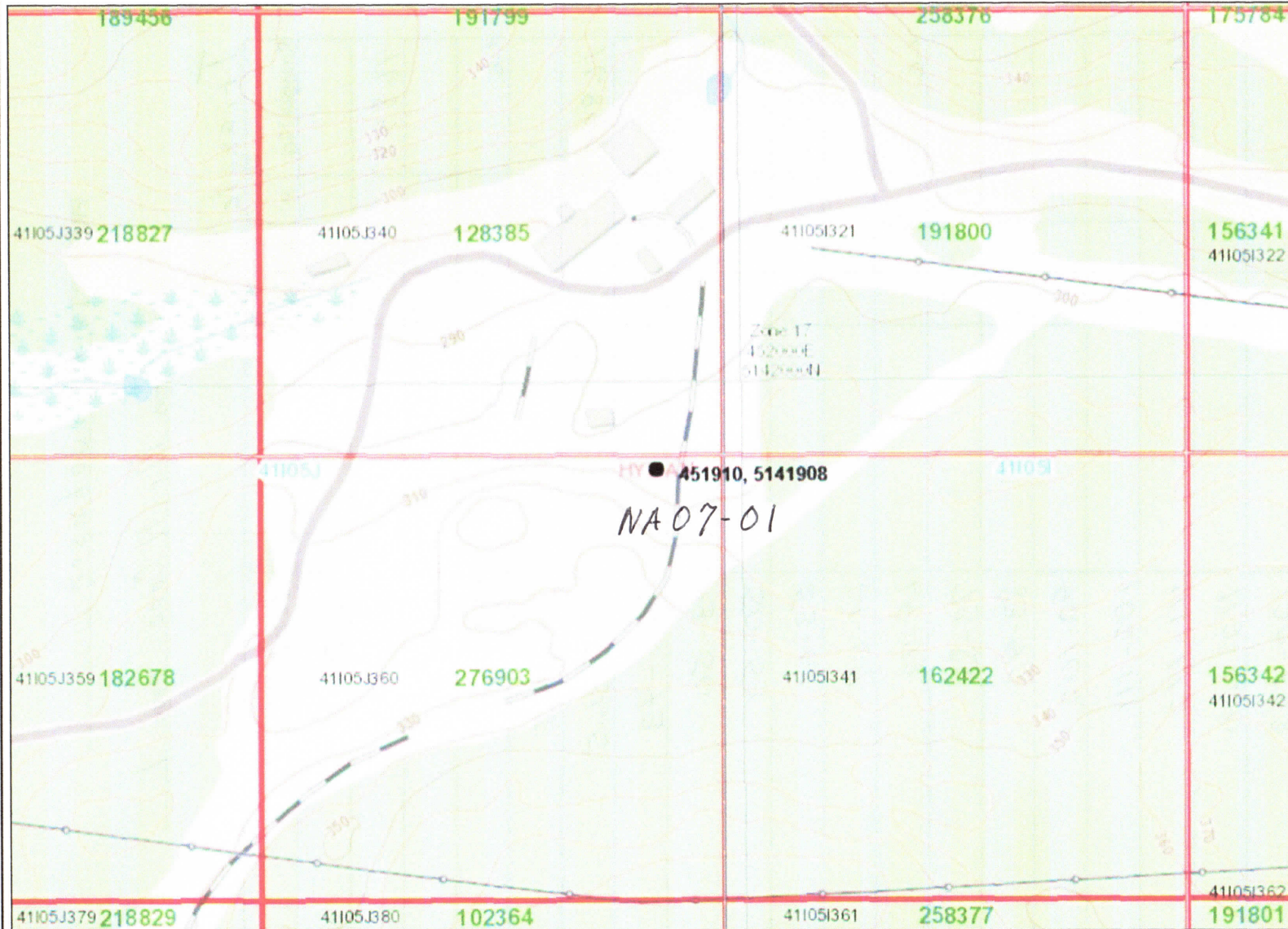
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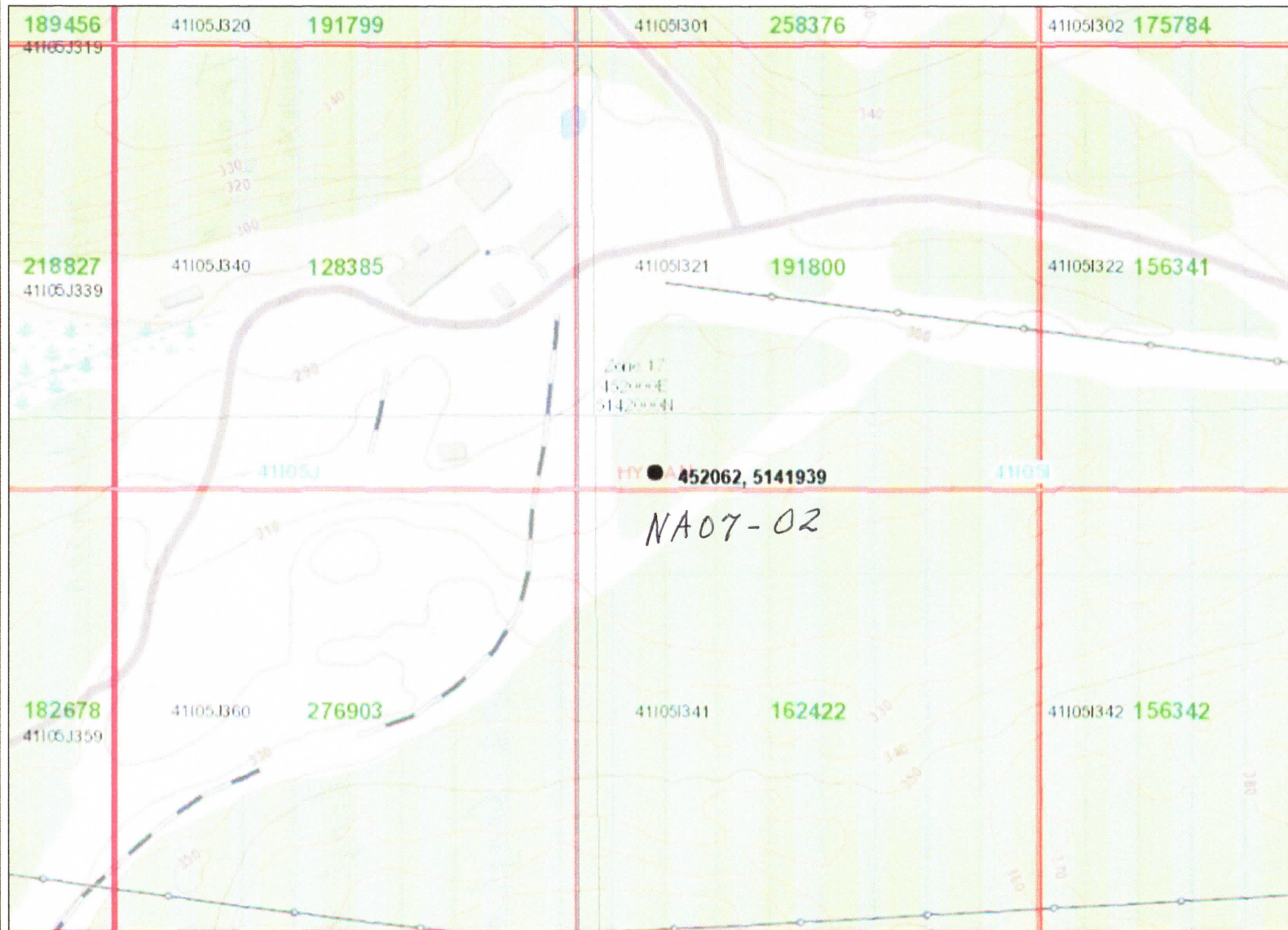
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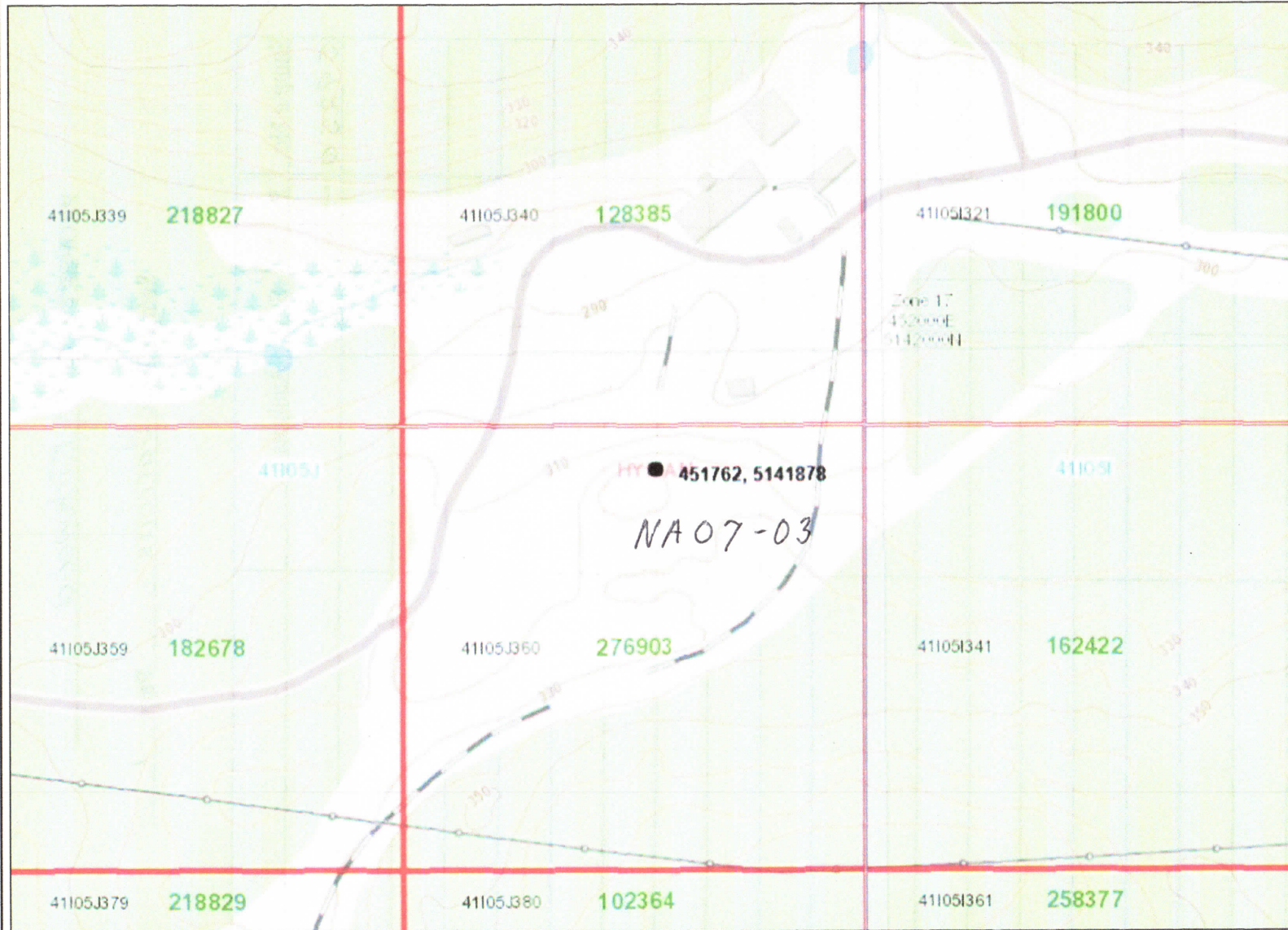
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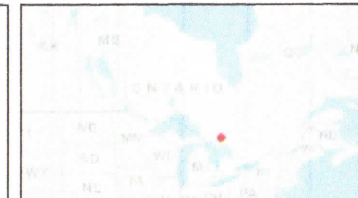


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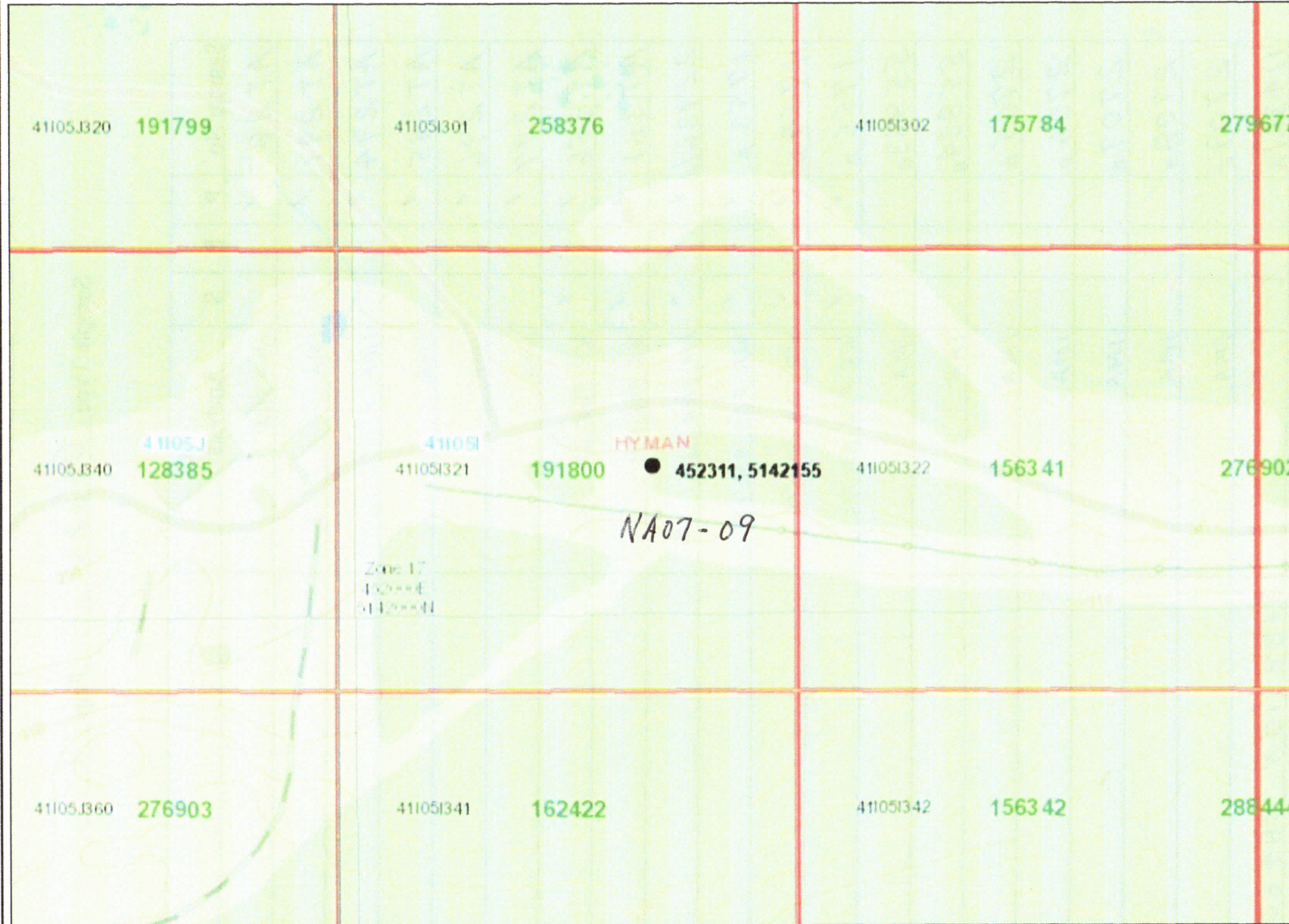
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 - Mineral Occurrences
- MLAS Mining History**
 - Withdrawal - History
 - Notice - History
 - Mining Claim - History
 - Mining Land Tenure - History
 - Legacy Claim
- Provincial Grid**
 - Provincial Grid 250K
 - Provincial Grid 50K
 - Provincial Grid Group
- Land Tenure**
 - Surface Rights
 - Mining Rights
 - Mining and Surface Rights
 - Order-in-Council



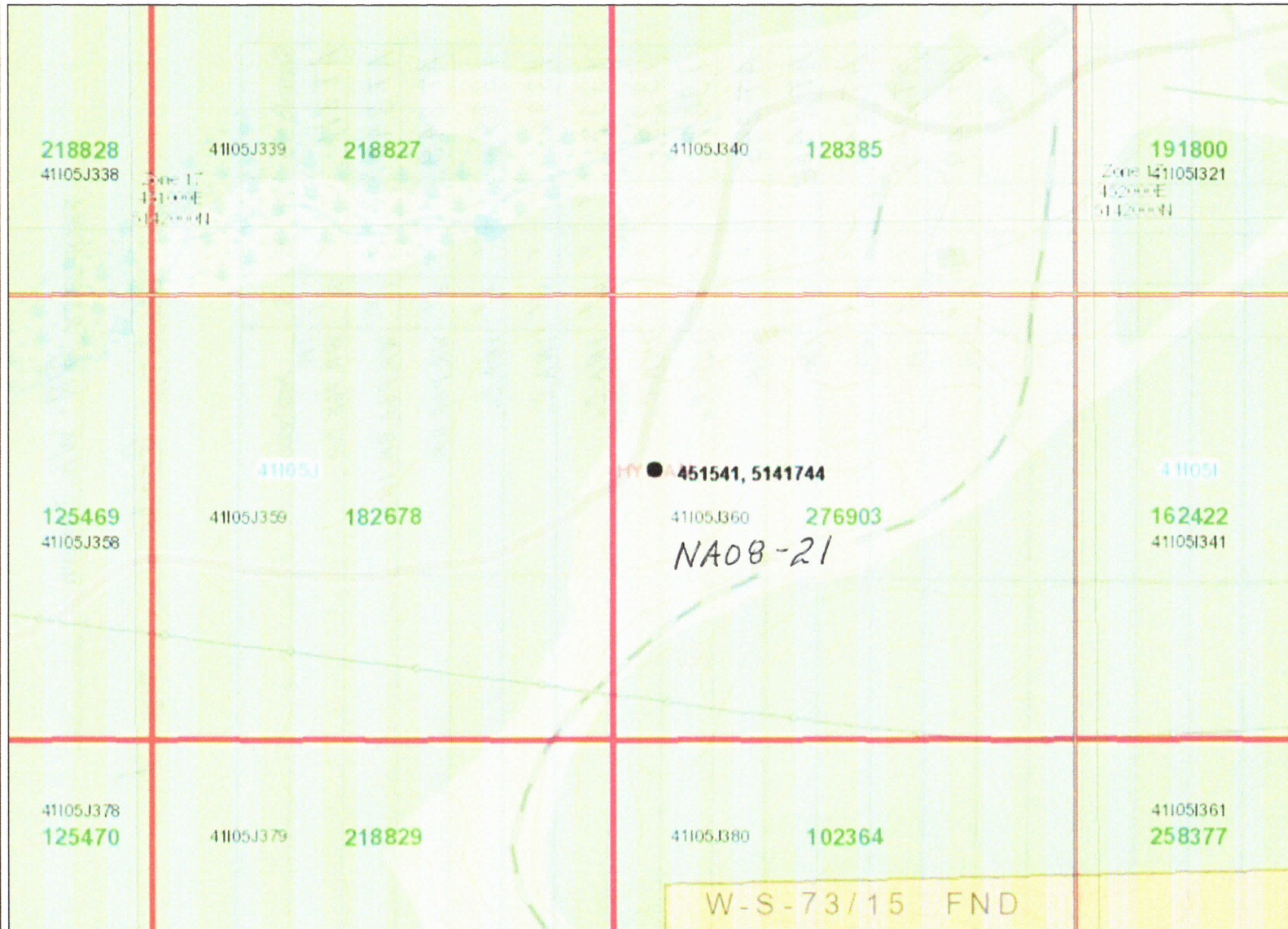
Projection: Web Mercator



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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
 - CLUPA Protected Area - Far North
 - Resident Geologist District
 - Federal Land Other
 - Native Reserves
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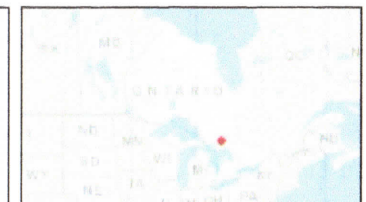


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Appendix II

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: 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

PHONE (604) 253-3158

Client: MacGregor, R.A.
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	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	
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



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: 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.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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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: 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
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	
			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	
			0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	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
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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	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	0.1	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

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
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CERTIFICATE OF ANALYSIS

VAN18000488.1

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	
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



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Project: None Given
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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	
	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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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	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	
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	TI	
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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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



Bureau Veritas Commodities Canada Ltd.

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

Project: None Given
Report Date: March 12, 2018

Page: 5 of 5

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	
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	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	0.1	0.1	0.1	0.1	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	<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	0.3	<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



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	
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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Client: **MacGregor, R.A.**
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Project: None Given
Report Date: March 12, 2018

Page: 1 of 1

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
Canada

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

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: July 11, 2018
Report Date: July 30, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN18001676.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 120

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	120	Sorting, labeling and boxing samples received as pulps			VAN
MA200	120	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:


KERRY JAY
Geochem Project Specialist

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.

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Client: MacGregor, R.A.
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Project: None Given
Report Date: July 30, 2018

Page: 2 of 5

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18001676.1

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	0.1	0.1	0.1	1	0.01	0.001	0.1	
IMA2569	Rock Pulp	1.0	132.7	49.5	192	0.3	61.7	29.6	736	10.92	12	13.8	30.7	13	0.3	0.2	0.5	195	0.13	0.050	40.2
IMA2570	Rock Pulp	2.2	113.8	8.7	52	0.4	100.8	31.6	300	4.99	31	5.6	11.7	15	<0.1	0.5	0.7	182	0.08	0.048	24.6
IMA2571	Rock Pulp	2.1	59.3	293.9	567	0.7	58.1	19.1	382	4.34	8	3.0	7.5	83	2.6	0.3	0.7	85	0.18	0.043	19.0
IMA2572	Rock Pulp	1.6	220.8	18.7	101	0.4	78.6	34.9	605	9.08	14	6.0	13.7	14	<0.1	0.2	0.3	202	0.13	0.053	16.8
IMA2573	Rock Pulp	3.2	80.7	206.4	454	0.4	53.6	32.4	726	9.86	5	19.6	57.8	15	1.7	0.2	0.2	201	0.13	0.052	58.4
IMA2574	Rock Pulp	1.6	86.9	97.3	353	0.2	46.9	15.5	251	3.97	13	6.3	20.4	75	1.4	<0.1	0.1	102	0.15	0.025	40.2
IMA2575	Rock Pulp	2.2	44.3	673.8	1268	0.7	86.1	27.0	377	4.28	16	4.0	9.9	57	5.8	0.3	0.3	145	0.17	0.040	30.2
IMA2576	Rock Pulp	2.3	195.8	24.5	141	0.2	45.4	18.4	199	4.03	15	7.1	25.5	72	0.3	0.1	0.2	104	0.11	0.031	44.4
IMA2577	Rock Pulp	2.1	32.8	394.8	448	0.4	16.3	18.1	190	2.61	13	63.2	148.9	65	2.2	0.1	0.4	46	0.13	0.036	151.4
IMA2578	Rock Pulp	1.7	44.9	262.0	794	0.3	76.1	26.7	419	4.45	17	3.7	9.2	76	4.8	0.2	0.3	123	0.21	0.045	28.9
IMA2579	Rock Pulp	1.1	77.4	134.9	614	0.3	63.8	45.2	745	10.11	27	7.3	15.1	32	1.9	0.2	0.3	218	0.20	0.073	19.2
IMA2580	Rock Pulp	2.5	30.5	41.2	89	0.1	51.2	22.9	216	4.37	19	12.8	27.8	31	<0.1	0.2	0.1	131	0.12	0.043	58.7
IMA2581	Rock Pulp	0.5	175.4	34.9	160	0.2	45.5	29.0	715	9.38	6	15.6	28.4	28	<0.1	<0.1	0.2	205	0.17	0.054	28.8
IMA2582	Rock Pulp	2.1	36.8	278.7	286	0.3	20.9	19.5	202	3.01	10	54.6	136.0	65	1.3	0.2	0.4	51	0.13	0.047	157.8
IMA2583	Rock Pulp	1.7	52.5	245.6	465	0.3	72.8	18.3	258	3.95	16	4.1	10.4	69	1.7	0.2	0.5	115	0.16	0.039	31.5
IMA2584	Rock Pulp	1.7	51.4	55.1	84	0.2	92.4	42.9	264	4.19	61	4.5	9.4	18	0.1	0.3	0.4	182	0.08	0.041	21.8
IMA2585	Rock Pulp	1.1	14.7	16.9	13	<0.1	11.0	4.7	58	1.22	3	10.0	52.0	38	<0.1	<0.1	0.4	25	0.05	0.011	56.9
IMA2586	Rock Pulp	2.0	44.6	153.9	324	0.4	67.3	16.4	322	4.10	7	3.5	9.5	71	1.0	0.1	0.5	95	0.13	0.036	21.4
IMA2587	Rock Pulp	1.5	58.0	15.6	50	0.1	53.1	18.0	269	4.11	45	5.0	11.2	16	<0.1	0.3	0.4	183	0.09	0.041	24.7
IMA2588	Rock Pulp	1.8	25.3	45.8	43	<0.1	5.2	1.6	74	0.56	2	6.8	33.2	19	0.2	<0.1	0.2	6	0.19	0.003	10.1
IMA2589	Rock Pulp	2.9	6732.6	95.9	50	3.0	10.7	17.6	45	2.67	9	25.4	112.7	18	0.4	1.2	2.2	10	0.07	0.015	148.7
IMA2590	Rock Pulp	5.1	7.1	27.7	8	<0.1	6.2	8.4	38	0.66	14	31.1	166.6	18	<0.1	<0.1	0.3	13	0.02	0.025	215.3
IMA2591	Rock Pulp	5.9	33.7	141.1	78	<0.1	7.9	8.7	56	0.85	5	100.4	425.4	16	<0.1	<0.1	0.2	14	0.10	0.051	454.8
IMA2592	Rock Pulp	5.4	144.1	107.7	468	0.5	10.7	14.0	100	1.01	7	370.3	1236.6	14	3.1	0.3	0.4	17	0.59	0.126	1236.9
IMA2593	Rock Pulp	1.6	36.3	10.6	19	<0.1	21.0	7.4	162	1.71	1	2.9	8.7	37	<0.1	<0.1	<0.1	28	0.32	0.007	16.1
IMA2594	Rock Pulp	4.2	19.1	197.2	17	0.2	10.0	20.0	38	0.84	32	179.5	893.8	21	<0.1	0.2	1.1	13	0.02	0.082	949.3
IMA2595	Rock Pulp	10.4	564.6	397.2	1240	1.1	16.4	30.9	109	1.61	16	599.2	1761.0	19	9.5	0.6	2.2	18	0.67	0.160	1833.4
IMA2596	Rock Pulp	4.0	27.7	38.2	5	0.1	6.8	10.0	37	0.59	12	128.8	656.8	24	<0.1	0.2	0.4	11	0.11	0.076	746.7
IMA2597	Rock Pulp	4.4	15.9	63.7	35	<0.1	12.5	3.4	74	1.04	<1	166.4	725.6	27	0.2	0.2	<0.1	13	0.16	0.057	553.5
IMA2598	Rock Pulp	16.9	255.2	1163.7	1308	1.2	11.5	17.6	96	1.54	4	360.2	1502.8	27	9.0	0.4	0.8	18	0.19	0.153	1673.6



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2569	Rock Pulp	132	3.08	190	0.401	7.52	0.208	1.53	1.0	142.8	82	1.4	14.4	7.6	0.7	<1	21	46.0	<0.1	100.3	3.7
IMA2570	Rock Pulp	207	1.05	669	0.535	9.74	0.059	5.85	3.2	160.2	58	3.3	9.6	13.4	1.1	2	22	35.4	0.5	295.9	4.3
IMA2571	Rock Pulp	164	1.50	134	0.108	6.47	3.306	0.81	0.6	127.4	42	1.0	6.2	2.6	0.2	<1	10	27.2	0.2	44.7	3.8
IMA2572	Rock Pulp	154	2.31	316	0.439	7.61	0.228	2.83	1.6	151.3	40	2.0	9.1	8.0	0.7	<1	21	41.5	0.4	91.0	4.1
IMA2573	Rock Pulp	157	2.92	150	0.493	7.18	0.379	1.18	1.1	157.7	112	1.4	16.3	10.2	1.0	1	21	39.3	0.1	79.4	4.3
IMA2574	Rock Pulp	147	0.99	688	0.344	7.80	3.016	3.12	0.7	259.7	79	2.0	8.2	8.5	0.8	2	11	21.2	<0.1	138.0	7.1
IMA2575	Rock Pulp	192	1.76	539	0.248	9.00	1.818	3.54	1.7	155.2	62	2.4	10.1	4.9	0.4	3	17	36.1	0.1	179.7	4.3
IMA2576	Rock Pulp	130	1.03	702	0.347	7.86	2.676	3.28	0.7	308.9	87	2.3	8.9	9.3	0.8	2	12	21.6	<0.1	154.6	8.6
IMA2577	Rock Pulp	133	0.60	666	0.242	6.03	1.697	3.76	0.5	189.8	283	1.4	24.3	15.1	1.8	<1	5	15.6	0.1	154.9	5.6
IMA2578	Rock Pulp	172	1.77	392	0.190	8.71	2.632	2.41	1.2	136.8	60	2.1	10.2	4.2	0.3	2	15	32.2	0.1	132.6	3.9
IMA2579	Rock Pulp	146	2.92	192	0.467	7.82	0.769	1.59	1.3	142.2	46	1.8	10.5	7.4	0.6	2	21	40.8	0.1	53.7	3.9
IMA2580	Rock Pulp	139	1.23	1034	0.458	8.99	0.649	6.05	1.1	350.7	121	3.1	10.2	12.2	1.1	4	15	38.8	0.1	348.5	9.9
IMA2581	Rock Pulp	71	2.97	43	0.447	6.50	1.420	0.37	0.4	149.9	62	0.6	10.7	6.6	0.6	<1	21	41.6	<0.1	10.1	4.1
IMA2582	Rock Pulp	145	0.65	635	0.310	6.25	1.748	3.85	0.6	201.6	295	1.5	24.9	16.8	1.9	1	5	15.4	0.2	163.5	5.3
IMA2583	Rock Pulp	226	1.47	439	0.293	7.84	2.337	2.42	1.3	174.8	65	2.2	8.5	7.2	0.6	1	15	26.2	0.1	141.5	4.5
IMA2584	Rock Pulp	177	1.19	714	0.453	11.06	0.112	6.65	3.4	158.4	51	3.0	9.5	11.2	0.9	3	22	35.5	0.2	330.4	4.4
IMA2585	Rock Pulp	99	0.36	1240	0.147	6.35	0.062	6.19	0.7	184.4	105	1.8	9.4	11.6	1.2	2	4	15.3	<0.1	213.7	5.0
IMA2586	Rock Pulp	205	1.40	192	0.151	7.06	2.574	1.38	0.8	140.7	46	1.2	6.6	3.2	0.3	3	12	25.3	0.1	79.0	3.8
IMA2587	Rock Pulp	193	1.07	651	0.499	10.64	0.069	6.69	3.4	156.7	58	3.1	9.5	12.3	1.1	4	22	32.5	0.2	329.6	4.1
IMA2588	Rock Pulp	174	0.13	548	0.030	2.51	0.223	2.92	0.2	67.7	18	0.4	3.3	2.8	0.2	<1	<1	2.6	<0.1	92.6	1.7
IMA2589	Rock Pulp	159	0.27	48	0.082	2.41	0.047	2.86	0.6	86.6	277	1.8	12.5	8.0	0.7	<1	1	6.1	1.9	113.8	2.3
IMA2590	Rock Pulp	182	0.15	523	0.187	5.09	0.053	4.23	0.3	154.8	390	3.6	18.2	14.5	1.5	3	3	4.8	<0.1	186.3	4.3
IMA2591	Rock Pulp	163	0.24	420	0.245	4.27	0.038	3.35	0.9	210.7	814	2.7	42.7	21.9	2.4	2	3	7.8	0.1	202.3	5.8
IMA2592	Rock Pulp	116	0.34	388	0.338	3.86	0.029	2.50	0.7	225.7	>2000	3.4	145.3	33.6	4.2	4	4	17.0	0.2	182.3	6.5
IMA2593	Rock Pulp	187	0.57	31	0.023	3.04	1.603	0.29	0.5	54.7	32	0.5	2.4	0.8	<0.1	<1	4	9.1	<0.1	16.1	1.5
IMA2594	Rock Pulp	160	0.14	443	0.222	4.52	0.049	3.57	0.6	158.7	1683	3.1	69.1	21.8	2.7	2	3	6.1	0.2	178.9	4.3
IMA2595	Rock Pulp	197	0.39	366	0.305	4.19	0.031	2.52	0.7	210.2	>2000	3.9	210.2	37.2	4.5	4	4	19.9	0.8	189.9	5.7
IMA2596	Rock Pulp	79	0.12	850	0.187	4.75	0.058	5.19	1.0	161.3	1329	2.3	55.3	19.6	2.2	1	2	4.1	0.2	231.7	4.4
IMA2597	Rock Pulp	226	1.37	23	0.188	2.07	0.788	0.18	0.5	9.2	979	0.6	42.6	8.5	<0.1	<1	2	12.7	<0.1	6.1	<0.1
IMA2598	Rock Pulp	152	0.50	505	0.286	3.94	0.057	3.32	0.7	179.9	>2000	2.8	147.9	32.9	4.1	2	4	15.8	0.5	174.1	5.1



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2569	Rock Pulp	0.11	<0.005	<1	<0.5	<0.5
IMA2570	Rock Pulp	0.11	0.012	<1	<0.5	2.1
IMA2571	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2572	Rock Pulp	0.13	0.011	<1	<0.5	1.0
IMA2573	Rock Pulp	0.08	0.019	1	<0.5	<0.5
IMA2574	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2575	Rock Pulp	0.08	<0.005	1	<0.5	0.8
IMA2576	Rock Pulp	0.06	<0.005	<1	<0.5	0.7
IMA2577	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2578	Rock Pulp	0.08	<0.005	<1	<0.5	0.6
IMA2579	Rock Pulp	0.10	0.012	1	<0.5	<0.5
IMA2580	Rock Pulp	<0.05	<0.005	<1	<0.5	1.8
IMA2581	Rock Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA2582	Rock Pulp	<0.05	<0.005	1	<0.5	1.0
IMA2583	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2584	Rock Pulp	0.06	0.007	<1	<0.5	1.9
IMA2585	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2586	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2587	Rock Pulp	0.09	<0.005	<1	<0.5	1.8
IMA2588	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2589	Rock Pulp	0.35	<0.005	7	<0.5	1.0
IMA2590	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2591	Rock Pulp	<0.05	<0.005	3	<0.5	1.0
IMA2592	Rock Pulp	0.24	<0.005	4	<0.5	0.9
IMA2593	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2594	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2595	Rock Pulp	0.67	<0.005	5	<0.5	0.7
IMA2596	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2597	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2598	Rock Pulp	0.13	<0.005	4	<0.5	1.0



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CERTIFICATE OF ANALYSIS

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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	
IMA2599	Rock Pulp	5.7	1663.9	403.9	81	0.9	12.4	24.5	49	1.70	7	303.6	1078.5	17	0.6	0.2	2.3	15	0.05	0.097	1021.3
IMA2600	Rock Pulp	2.6	7.1	22.5	4	<0.1	6.6	2.0	27	0.36	2	17.0	92.3	22	<0.1	<0.1	<0.1	8	0.02	0.012	127.7
IMA2601	Rock Pulp	4.9	11.1	67.8	4	<0.1	11.1	8.8	35	0.73	3	87.6	447.3	14	<0.1	0.2	0.5	10	0.02	0.040	425.7
IMA2602	Rock Pulp	2.5	11.9	78.7	8	<0.1	7.3	7.0	21	0.54	3	88.2	349.7	15	<0.1	0.1	0.4	10	0.02	0.035	362.1
IMA2603	Rock Pulp	3.1	811.4	267.8	485	0.6	8.3	9.0	86	0.97	4	94.3	286.8	12	3.2	0.2	1.2	7	0.37	0.034	326.2
IMA2604	Rock Pulp	4.3	731.9	267.1	448	1.0	10.5	20.7	95	1.94	24	254.6	1046.3	40	4.2	0.5	1.2	11	0.04	0.096	1149.0
IMA2605	Rock Pulp	4.1	9.8	95.4	7	<0.1	5.8	3.3	19	0.41	2	50.1	264.6	14	<0.1	<0.1	0.2	9	0.03	0.030	285.4
IMA2606	Rock Pulp	0.7	50.4	3.9	6	<0.1	16.6	5.0	84	0.82	<1	2.1	6.7	25	<0.1	<0.1	<0.1	9	0.20	0.007	12.5
IMA2607	Rock Pulp	6.5	13.3	90.1	3	0.2	10.2	9.3	21	0.71	5	231.2	1386.7	26	<0.1	0.2	0.8	15	0.04	0.154	1576.3
IMA2608	Rock Pulp	3.2	21.0	92.8	5	0.1	6.0	4.1	46	0.50	3	107.2	579.8	23	<0.1	0.2	1.2	11	0.10	0.062	678.4
IMA2609	Rock Pulp	2.7	6.3	31.3	4	<0.1	7.3	2.3	30	0.49	<1	15.9	64.5	14	<0.1	<0.1	0.2	8	0.02	0.011	78.5
IMA2610	Rock Pulp	3.4	10.3	39.9	4	<0.1	8.1	3.8	23	0.45	2	76.4	382.6	19	<0.1	0.2	0.2	13	0.04	0.049	439.5
IMA2611	Rock Pulp	1.0	26.7	5.5	6	<0.1	14.6	4.5	127	0.88	2	3.1	9.6	43	<0.1	<0.1	<0.1	12	0.39	0.007	16.3
IMA2612	Rock Pulp	2.2	120.0	14.8	12	0.1	20.4	23.5	405	2.14	26	40.4	122.2	39	<0.1	0.2	0.6	80	0.76	0.038	136.0
IMA2613	Rock Pulp	1.7	29.1	8.0	25	<0.1	30.0	12.2	106	2.27	<1	5.9	17.4	84	<0.1	<0.1	<0.1	51	0.16	0.019	29.1
IMA2614	Rock Pulp	2.4	33.7	8.4	4	<0.1	15.8	10.4	53	0.82	9	2.0	6.0	19	<0.1	<0.1	0.3	16	0.04	0.002	9.1
IMA2615	Rock Pulp	1.3	5.1	2.2	2	<0.1	11.4	1.1	25	0.31	<1	2.1	5.6	39	<0.1	<0.1	<0.1	2	<0.01	0.004	12.1
IMA2616	Rock Pulp	2.4	5.3	11.3	5	<0.1	12.6	6.7	55	0.94	10	11.0	53.5	39	<0.1	0.1	0.1	16	0.16	0.008	76.9
IMA2617	Rock Pulp	5.6	54.4	86.0	101	2.2	12.9	17.3	19	0.48	11	297.1	1330.6	29	0.4	0.2	1.0	14	0.05	0.133	1427.7
IMA2618	Rock Pulp	1.9	18.7	23.6	20	0.4	13.8	9.9	118	1.90	13	25.0	80.6	27	<0.1	<0.1	0.3	22	0.11	0.016	110.5
IMA2619	Rock Pulp	4.6	2.7	23.5	5	0.3	8.1	16.4	22	0.82	16	67.7	370.7	19	<0.1	0.1	0.3	10	0.02	0.042	412.1
IMA2620	Rock Pulp	9.3	64.5	1056.0	1364	0.6	13.8	38.9	38	1.03	29	323.4	980.5	19	7.2	0.3	0.8	15	0.06	0.108	1056.8
IMA2621	Rock Pulp	1.1	455.4	25.4	45	0.1	11.9	5.7	95	1.54	6	2.1	6.7	10	0.2	0.2	0.1	22	0.04	0.005	20.8
IMA2622	Rock Pulp	0.7	42.5	75.6	186	0.1	50.0	32.8	773	6.66	2	15.8	116.2	216	0.4	<0.1	<0.1	158	2.74	0.168	33.0
IMA2623	Rock Pulp	2.7	4.0	21.3	12	0.2	9.6	21.5	30	0.46	26	85.7	260.0	19	<0.1	0.2	0.4	9	0.04	0.036	312.9
IMA2624	Rock Pulp	2.9	99.7	30.1	5	0.2	9.2	9.2	81	0.68	15	86.1	640.0	25	<0.1	0.2	0.2	15	0.14	0.069	757.0
IMA2625	Rock Pulp	2.7	5.5	9.5	2	0.2	6.7	6.9	27	0.39	12	11.9	65.4	15	<0.1	<0.1	0.1	8	0.02	0.009	72.1
IMA2626	Rock Pulp	1.2	5.1	2.1	2	<0.1	11.9	1.5	33	0.47	2	0.8	4.0	41	<0.1	<0.1	<0.1	9	<0.01	0.005	11.5
IMA2627	Rock Pulp	2.4	17.2	47.2	27	0.1	7.1	3.3	73	1.32	<1	6.5	35.4	51	<0.1	<0.1	<0.1	15	0.06	0.004	44.2
IMA2628	Rock Pulp	1.2	14.8	4.5	2	<0.1	6.3	1.6	49	0.39	1	2.8	9.2	19	<0.1	<0.1	<0.1	5	0.08	0.007	12.6



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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	0.1	0.1	0.1	0.1	0.1	0.1
IMA2599	Rock Pulp	295	0.19	342	0.245	3.69	0.037	2.65	0.8	171.0	1864	2.8	94.9	27.2	3.3	2	4	7.7	0.7	158.1	4.8
IMA2600	Rock Pulp	113	0.04	657	0.083	4.18	0.154	4.87	0.3	98.1	230	0.9	7.4	6.1	0.6	<1	1	1.5	<0.1	174.1	2.7
IMA2601	Rock Pulp	193	0.06	381	0.150	4.17	0.055	3.38	0.4	98.2	758	1.5	36.1	16.9	2.1	2	2	2.3	0.2	149.5	2.6
IMA2602	Rock Pulp	79	0.07	431	0.139	4.72	0.062	3.73	0.3	100.8	653	1.5	31.0	14.5	1.6	2	2	2.9	0.2	166.7	3.0
IMA2603	Rock Pulp	214	0.17	156	0.097	1.33	0.143	0.87	0.2	61.7	570	0.8	32.2	13.9	0.4	1	1	5.5	0.3	51.2	1.7
IMA2604	Rock Pulp	185	0.79	523	0.153	2.68	0.033	2.58	0.6	115.3	>2000	1.3	86.9	16.3	0.8	<1	2	17.9	0.3	105.1	2.6
IMA2605	Rock Pulp	72	0.06	403	0.133	4.43	0.060	3.63	0.3	102.4	511	1.4	22.4	12.3	1.4	2	2	2.6	<0.1	148.6	2.9
IMA2606	Rock Pulp	106	0.23	11	0.016	1.73	1.160	0.10	0.1	52.3	23	0.2	1.9	0.6	<0.1	<1	1	2.9	0.1	5.1	1.4
IMA2607	Rock Pulp	160	0.06	527	0.446	4.33	0.047	4.02	0.9	309.4	>2000	2.3	104.3	48.2	5.5	2	3	6.6	0.3	184.4	8.4
IMA2608	Rock Pulp	113	0.11	790	0.190	4.37	0.059	4.86	0.9	180.4	1193	1.8	46.4	20.1	2.3	1	3	2.8	<0.1	202.7	5.1
IMA2609	Rock Pulp	159	0.06	461	0.088	4.53	0.120	3.63	0.2	91.2	139	1.5	7.2	6.1	0.7	2	2	2.0	<0.1	150.7	2.5
IMA2610	Rock Pulp	78	0.08	578	0.264	5.24	0.054	4.56	0.6	227.0	783	2.0	36.5	21.1	2.4	2	3	3.3	<0.1	204.3	6.4
IMA2611	Rock Pulp	118	0.32	12	0.021	2.64	1.918	0.11	0.3	56.3	33	0.1	2.6	0.8	<0.1	<1	2	3.4	<0.1	4.5	1.5
IMA2612	Rock Pulp	155	0.67	676	0.185	7.26	0.993	3.93	0.9	164.7	253	2.5	22.2	11.9	1.2	3	10	21.9	<0.1	222.2	4.7
IMA2613	Rock Pulp	118	0.86	122	0.072	6.14	2.904	1.18	0.6	153.4	59	1.1	5.3	1.7	0.2	1	7	13.7	0.1	59.2	4.2
IMA2614	Rock Pulp	352	0.05	577	0.011	2.30	0.048	2.99	0.2	32.4	17	0.3	1.5	1.2	0.1	<1	<1	1.5	0.2	107.0	0.9
IMA2615	Rock Pulp	161	<0.01	20	0.008	1.09	0.158	0.24	<0.1	34.4	24	0.2	1.8	0.5	<0.1	<1	<1	1.8	<0.1	7.2	1.0
IMA2616	Rock Pulp	115	0.16	1460	0.067	5.89	0.138	6.53	1.2	107.8	137	0.9	6.6	5.2	0.5	<1	2	4.6	0.2	229.3	3.0
IMA2617	Rock Pulp	90	0.06	568	0.313	3.61	0.048	3.91	1.0	182.6	>2000	1.9	122.6	39.4	4.5	2	3	7.1	0.1	168.7	4.9
IMA2618	Rock Pulp	260	0.40	410	0.144	2.87	0.612	2.02	0.2	123.1	202	0.8	11.9	11.5	1.4	<1	2	7.1	0.1	73.3	3.2
IMA2619	Rock Pulp	133	0.08	716	0.134	4.64	0.065	5.00	1.0	113.0	739	2.1	27.1	13.6	1.7	<1	2	5.0	0.4	212.2	3.0
IMA2620	Rock Pulp	178	0.22	344	0.270	3.84	0.036	2.85	0.7	141.7	1878	3.0	106.3	28.6	3.7	2	4	9.0	0.3	184.2	3.9
IMA2621	Rock Pulp	129	0.49	121	0.057	1.83	0.379	0.67	0.2	56.4	40	0.8	2.6	2.5	0.1	<1	3	6.9	<0.1	33.3	1.6
IMA2622	Rock Pulp	90	4.42	346	1.060	6.10	1.340	0.72	0.5	194.8	64	1.1	24.4	10.4	0.7	1	16	45.9	<0.1	28.9	4.6
IMA2623	Rock Pulp	128	0.04	697	0.107	3.61	0.057	4.50	0.7	90.4	562	1.0	23.5	10.5	1.1	<1	2	1.8	0.1	170.6	2.4
IMA2624	Rock Pulp	117	0.09	629	0.170	2.88	0.051	3.53	1.3	115.0	1345	1.0	54.2	19.0	2.1	<1	2	4.9	0.2	150.4	3.1
IMA2625	Rock Pulp	123	0.02	567	0.082	2.45	0.045	3.12	0.5	82.4	130	0.7	6.6	6.5	0.6	<1	1	0.8	<0.1	121.7	2.2
IMA2626	Rock Pulp	187	0.05	91	0.022	2.08	0.247	0.73	0.1	41.0	23	0.5	1.6	0.9	<0.1	<1	<1	3.0	<0.1	28.4	1.1
IMA2627	Rock Pulp	95	0.24	1443	0.134	5.87	0.439	6.38	0.4	89.0	82	1.1	4.8	9.9	1.0	<1	2	6.6	<0.1	176.9	2.4
IMA2628	Rock Pulp	142	0.04	395	0.018	1.67	0.035	2.17	0.2	41.9	23	0.2	1.6	1.3	0.1	<1	<1	0.3	<0.1	72.1	1.1



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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2599	Rock Pulp	0.18	<0.005	2	<0.5	0.7
IMA2600	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2601	Rock Pulp	<0.05	<0.005	2	<0.5	<0.5
IMA2602	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2603	Rock Pulp	0.16	<0.005	<1	<0.5	<0.5
IMA2604	Rock Pulp	0.27	<0.005	2	<0.5	0.7
IMA2605	Rock Pulp	<0.05	<0.005	2	<0.5	0.5
IMA2606	Rock Pulp	<0.05	<0.005	2	<0.5	<0.5
IMA2607	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2608	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2609	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2610	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2611	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2612	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2613	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2614	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2615	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2616	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2617	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2618	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2619	Rock Pulp	<0.05	<0.005	2	<0.5	0.8
IMA2620	Rock Pulp	0.09	<0.005	2	<0.5	0.9
IMA2621	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2622	Rock Pulp	0.05	<0.005	<1	0.8	<0.5
IMA2623	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2624	Rock Pulp	<0.05	<0.005	1	<0.5	0.6
IMA2625	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2626	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2627	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2628	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5



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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	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	
IMA2629	Rock Pulp	2.1	13.3	29.3	4	0.2	5.6	6.7	25	0.52	8	111.8	378.3	26	<0.1	0.2	0.5	11	0.02	0.044	487.0
IMA2630	Rock Pulp	3.5	3.0	13.0	<1	0.1	6.8	10.1	22	0.43	13	23.3	109.6	20	<0.1	0.2	0.2	11	0.02	0.012	112.1
IMA2631	Rock Pulp	1.1	7.0	23.9	3	0.1	6.4	7.5	26	0.61	4	58.7	327.0	21	<0.1	0.1	0.3	13	0.06	0.039	434.2
IMA2632	Rock Pulp	2.0	71.4	5.4	37	<0.1	68.9	25.4	247	4.36	50	4.1	9.8	15	<0.1	0.4	0.3	182	0.08	0.044	26.3
IMA2633	Rock Pulp	0.5	2.4	2.8	2	<0.1	3.5	0.4	13	0.15	<1	2.2	6.4	44	<0.1	<0.1	<0.1	6	<0.01	0.004	16.7
IMA2634	Rock Pulp	8.7	126.7	161.0	94	0.2	9.0	12.9	209	1.63	8	62.8	368.3	31	0.2	0.1	1.2	15	0.24	0.044	392.6
IMA2635	Rock Pulp	0.9	33.8	120.8	261	0.1	22.4	9.5	86	1.56	5	3.1	9.0	42	1.4	<0.1	0.1	24	0.13	0.010	16.4
IMA2636	Rock Pulp	9.3	165.5	1227.7	1514	0.5	10.7	13.8	68	1.08	5	507.2	1433.8	48	9.5	0.2	0.5	17	0.36	0.198	>2000
IMA2637	Rock Pulp	0.8	149.6	8.2	6	<0.1	2.8	1.1	43	0.44	<1	2.4	9.4	10	<0.1	<0.1	<0.1	4	0.04	0.001	7.3
IMA2638	Rock Pulp	3.5	5621.6	18.8	103	2.4	23.1	9.8	105	3.23	<1	13.4	41.0	10	1.2	<0.1	0.9	65	0.09	0.020	62.1
IMA2639	Rock Pulp	1.1	36.6	213.5	338	0.2	26.0	8.8	145	1.59	3	3.1	8.0	40	1.5	<0.1	0.3	22	0.15	0.010	20.3
IMA2640	Rock Pulp	1.0	56.8	22.4	89	<0.1	50.0	33.2	951	6.82	26	7.9	10.7	71	<0.1	0.2	<0.1	222	3.03	0.070	26.1
IMA2641	Rock Pulp	4.2	674.6	156.8	318	0.4	10.7	6.9	129	0.86	3	147.1	648.3	18	2.3	0.2	0.8	6	0.87	0.059	387.9
IMA2642	Rock Pulp	2.2	47.7	405.9	682	0.2	60.6	23.2	231	3.86	26	8.4	19.5	33	2.9	0.1	0.2	116	0.13	0.045	41.2
IMA2643	Rock Pulp	1.0	60.5	53.0	69	<0.1	3.7	2.9	43	0.60	3	28.1	149.8	17	0.3	<0.1	0.2	7	0.05	0.016	200.4
IMA2644	Rock Pulp	4.9	18.6	367.2	260	0.3	5.2	7.9	30	0.79	2	195.9	785.0	19	1.7	0.1	0.6	15	0.04	0.075	804.8
IMA2645	Rock Pulp	5.8	59.9	247.8	621	0.2	7.7	9.4	58	1.16	3	85.7	473.5	30	4.2	0.2	0.2	11	0.13	0.049	516.7
IMA2646	Rock Pulp	2.6	22.7	11.7	5	<0.1	3.9	3.1	39	0.29	5	12.2	70.2	13	<0.1	<0.1	0.7	7	0.07	0.008	108.8
IMA2647	Rock Pulp	2.9	6.3	87.9	20	<0.1	5.8	6.8	99	0.83	3	84.6	338.1	30	<0.1	0.2	0.4	12	0.23	0.043	403.9
IMA2648	Rock Pulp	10.7	76.8	1101.7	1063	0.8	9.7	22.9	149	1.63	10	568.4	1599.3	24	7.0	0.4	1.7	16	0.23	0.150	1547.2
IMA2649	Rock Pulp	4.7	58.8	23.4	90	<0.1	23.9	29.6	205	5.01	16	25.4	102.8	88	0.2	<0.1	<0.1	151	0.30	0.062	125.0
IMA2650	Rock Pulp	11.8	107.1	377.5	1213	0.4	7.4	16.6	65	0.93	9	369.7	878.1	24	9.4	0.3	0.8	13	0.30	0.102	968.9
IMA2651	Rock Pulp	2.0	43.2	196.0	166	0.2	6.6	9.5	78	0.54	3	238.8	510.8	13	0.8	<0.1	0.7	10	0.15	0.039	445.9
IMA2652	Rock Pulp	1.7	126.1	82.8	147	0.3	108.9	32.3	410	6.17	15	4.5	10.7	14	0.4	0.3	0.2	192	0.10	0.052	18.1
IMA2653	Rock Pulp	4.4	23.0	50.0	11	<0.1	7.2	9.0	182	0.93	7	53.0	368.3	28	<0.1	<0.1	0.4	20	0.32	0.053	506.9
IMA2654	Rock Pulp	1.1	13.9	37.8	3	0.1	7.9	6.2	23	0.48	4	140.3	866.0	27	<0.1	<0.1	0.4	15	0.05	0.078	816.0
IMA2655	Rock Pulp	7.0	76.3	172.9	29	0.6	8.7	5.2	330	1.01	3	82.3	605.6	28	<0.1	<0.1	2.3	15	0.56	0.067	682.3
IMA2656	Rock Pulp	1.7	10.4	22.4	1	<0.1	7.0	4.5	28	0.51	2	66.3	368.6	23	<0.1	<0.1	0.4	14	0.04	0.044	441.6
IMA2657	Rock Pulp	2.0	88.5	8.3	36	<0.1	113.6	32.6	293	4.52	27	5.4	13.0	18	<0.1	0.3	0.5	179	0.09	0.048	29.9
IMA2658	Rock Pulp	3.1	9.5	12.1	8	<0.1	12.6	6.0	46	1.24	1	11.9	63.8	45	<0.1	0.3	0.1	18	0.02	0.008	70.0



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Project: None Given
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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	
	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	
IMA2629	Rock Pulp	79	0.10	861	0.139	4.79	0.066	5.19	0.7	120.6	843	2.3	39.1	13.6	2.0	1	2	5.9	0.2	227.7	3.7
IMA2630	Rock Pulp	121	0.02	646	0.103	3.01	0.057	3.91	0.4	132.9	192	0.8	10.2	7.7	0.9	<1	1	1.0	0.1	154.2	3.9
IMA2631	Rock Pulp	74	0.18	780	0.178	4.82	0.056	4.76	0.7	147.1	752	2.6	35.6	14.0	1.5	2	3	8.3	<0.1	210.9	4.4
IMA2632	Rock Pulp	168	1.07	552	0.447	10.85	0.056	6.35	3.0	137.6	58	2.7	8.1	10.3	0.9	3	21	27.3	0.2	314.7	4.1
IMA2633	Rock Pulp	56	<0.01	32	0.010	1.40	0.161	0.39	0.1	42.5	29	0.2	1.6	0.4	<0.1	<1	<1	0.8	<0.1	11.4	1.4
IMA2634	Rock Pulp	167	0.59	732	0.189	2.71	0.415	2.24	0.4	82.9	685	1.3	30.7	29.7	2.0	<1	2	10.7	0.3	103.7	2.4
IMA2635	Rock Pulp	119	0.51	8	0.041	3.65	2.579	0.07	0.2	58.7	31	0.2	2.3	1.3	<0.1	<1	3	9.3	0.2	2.9	1.8
IMA2636	Rock Pulp	153	0.28	539	0.342	3.39	0.419	2.80	1.0	197.2	>2000	2.8	137.4	40.8	4.3	1	4	12.7	0.2	127.4	5.8
IMA2637	Rock Pulp	66	0.10	203	0.011	1.22	0.158	1.07	0.1	29.6	13	0.3	1.2	1.1	<0.1	<1	<1	2.7	<0.1	41.8	0.9
IMA2638	Rock Pulp	225	0.83	358	0.207	4.18	0.260	2.29	0.7	79.7	106	4.8	8.6	16.2	0.6	1	8	21.5	0.6	166.8	2.2
IMA2639	Rock Pulp	108	0.58	26	0.031	3.23	1.802	0.30	0.2	60.8	39	0.3	3.2	0.8	<0.1	<1	3	8.5	0.1	13.8	1.7
IMA2640	Rock Pulp	100	2.45	147	0.179	7.34	1.634	1.49	0.4	156.4	53	1.2	8.6	2.2	0.2	1	23	36.0	0.2	80.7	4.3
IMA2641	Rock Pulp	174	0.19	198	0.140	1.22	0.148	1.08	0.3	24.0	650	0.7	70.3	8.1	0.1	<1	1	5.3	0.2	42.0	0.2
IMA2642	Rock Pulp	142	1.58	342	0.144	8.43	1.014	3.83	1.0	166.5	81	2.2	8.3	4.4	0.2	2	15	21.1	0.2	174.3	5.0
IMA2643	Rock Pulp	84	0.17	336	0.059	1.87	0.222	1.97	0.2	71.7	356	0.5	16.3	4.9	0.5	<1	<1	3.1	<0.1	61.9	2.1
IMA2644	Rock Pulp	62	0.26	434	0.257	4.87	0.042	3.66	0.6	201.0	1431	3.3	80.4	22.1	2.7	2	4	8.6	0.2	190.9	5.9
IMA2645	Rock Pulp	132	0.36	696	0.166	3.78	0.515	3.48	0.3	136.0	914	1.7	44.1	14.8	1.6	1	2	10.1	0.2	142.4	4.0
IMA2646	Rock Pulp	63	0.04	338	0.042	1.56	0.029	1.98	0.3	41.5	173	0.3	6.8	4.3	0.4	<1	<1	0.8	<0.1	69.8	1.2
IMA2647	Rock Pulp	108	0.21	921	0.240	3.34	0.052	4.04	0.8	110.9	733	1.4	36.9	24.6	3.0	1	2	5.2	0.1	191.0	3.1
IMA2648	Rock Pulp	66	0.56	480	0.226	3.88	0.062	3.10	0.6	134.0	>2000	3.0	163.9	26.9	3.7	3	3	16.2	0.7	168.8	3.9
IMA2649	Rock Pulp	124	1.65	357	0.609	7.29	3.662	2.88	0.4	175.6	227	2.0	16.5	25.4	1.6	2	14	18.5	<0.1	285.1	4.7
IMA2650	Rock Pulp	88	0.33	685	0.267	3.41	0.169	2.97	0.7	223.4	1728	2.8	104.8	25.6	2.9	2	3	12.7	0.2	146.1	6.3
IMA2651	Rock Pulp	91	0.07	311	0.064	1.66	0.120	1.76	1.2	55.9	815	0.7	51.5	25.6	0.9	<1	2	2.1	0.2	66.4	1.5
IMA2652	Rock Pulp	229	1.54	539	0.473	9.75	0.051	5.26	3.1	152.6	42	5.0	9.8	11.4	0.9	3	24	33.6	0.5	254.0	4.2
IMA2653	Rock Pulp	118	0.15	701	0.218	3.54	0.061	4.04	3.5	141.5	909	1.9	32.4	23.1	2.5	<1	3	4.0	0.2	153.0	4.0
IMA2654	Rock Pulp	80	0.12	757	0.289	5.25	0.055	4.51	0.7	255.8	1449	2.8	77.9	24.1	2.9	2	3	6.6	<0.1	216.2	6.9
IMA2655	Rock Pulp	208	0.24	457	0.263	2.45	0.044	2.67	1.2	110.6	1226	1.5	48.5	22.7	0.8	<1	2	3.7	0.1	104.9	3.2
IMA2656	Rock Pulp	139	0.09	669	0.237	4.73	0.051	4.44	0.4	178.8	731	2.3	36.4	19.1	2.1	1	3	3.8	<0.1	196.4	4.9
IMA2657	Rock Pulp	167	1.02	687	0.508	11.17	0.063	6.44	3.4	145.6	65	3.4	10.4	12.2	1.1	4	24	30.4	0.4	328.1	4.1
IMA2658	Rock Pulp	180	0.29	1123	0.179	5.64	0.064	5.72	0.5	132.2	125	1.6	9.4	11.6	1.1	1	3	12.0	0.1	184.1	3.3



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Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2629	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2630	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2631	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2632	Rock Pulp	0.11	<0.005	<1	<0.5	1.7
IMA2633	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2634	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2635	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2636	Rock Pulp	0.18	<0.005	1	<0.5	0.8
IMA2637	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2638	Rock Pulp	0.31	<0.005	2	<0.5	1.2
IMA2639	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2640	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2641	Rock Pulp	0.29	<0.005	2	<0.5	<0.5
IMA2642	Rock Pulp	0.08	<0.005	<1	<0.5	1.1
IMA2643	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2644	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2645	Rock Pulp	0.17	<0.005	<1	<0.5	0.9
IMA2646	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2647	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2648	Rock Pulp	0.07	<0.005	2	<0.5	1.2
IMA2649	Rock Pulp	<0.05	<0.005	<1	<0.5	2.8
IMA2650	Rock Pulp	0.25	<0.005	1	<0.5	0.8
IMA2651	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2652	Rock Pulp	0.12	0.009	2	<0.5	1.6
IMA2653	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2654	Rock Pulp	<0.05	<0.005	1	<0.5	1.0
IMA2655	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2656	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2657	Rock Pulp	0.09	0.008	1	<0.5	1.7
IMA2658	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9



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Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2659	Rock Pulp	1.3	1418.4	49.9	23	0.4	10.2	2.6	94	0.77	<1	1.6	4.4	3	0.2	0.1	0.2	3	0.08	<0.001	4.8
IMA2660	Rock Pulp	2.6	10.4	13.7	21	0.1	12.9	9.8	52	1.44	2	18.7	92.7	51	<0.1	<0.1	0.2	16	0.07	0.013	122.2
IMA2661	Rock Pulp	8.4	57.1	1087.1	1127	1.0	12.1	36.5	78	1.31	19	472.6	1189.8	25	7.3	0.3	4.5	15	0.32	0.118	1194.3
IMA2662	Rock Pulp	1.2	104.5	90.3	129	0.5	28.5	27.8	473	5.89	19	26.3	70.4	36	<0.1	<0.1	0.7	109	0.17	0.037	68.3
IMA2663	Rock Pulp	1.5	26.6	20.3	4	0.1	8.7	12.5	45	0.62	11	65.6	475.5	19	<0.1	0.1	0.3	14	0.07	0.055	548.4
IMA2664	Rock Pulp	0.6	7.3	8.0	3	<0.1	3.8	3.4	40	0.31	3	10.8	64.8	10	<0.1	<0.1	0.2	7	0.09	0.008	89.7
IMA2665	Rock Pulp	5.9	50.8	144.6	13	0.6	17.5	14.8	244	2.02	8	58.7	241.8	39	<0.1	0.2	2.3	17	0.19	0.033	279.8
IMA2666	Rock Pulp	14.8	91.2	1052.1	1356	0.9	19.0	54.7	36	2.05	7	526.4	1921.1	19	6.4	0.3	2.3	14	0.09	0.186	>2000
IMA2667	Rock Pulp	1.7	24.1	8.0	2	<0.1	7.4	5.3	55	0.51	8	11.9	78.7	15	<0.1	0.1	0.3	9	0.07	0.008	100.9
IMA2668	Rock Pulp	15.3	52.2	558.5	415	0.4	11.7	25.6	88	1.44	2	406.6	1630.8	22	1.9	0.2	1.1	17	0.18	0.156	1695.2
IMA2669	Rock Pulp	1.6	6.9	11.1	11	<0.1	8.7	4.7	44	1.14	3	11.9	69.3	44	<0.1	0.1	0.1	18	0.02	0.010	91.4
IMA2670	Rock Pulp	0.6	1.8	2.9	1	<0.1	4.9	0.5	16	0.18	1	0.9	4.0	30	<0.1	<0.1	<0.1	3	<0.01	0.002	9.6
IMA2671	Rock Pulp	2.5	15.6	8.4	32	<0.1	10.3	7.5	93	0.80	6	48.3	275.6	24	<0.1	0.1	0.1	15	0.22	0.036	311.3
IMA2672	Rock Pulp	3.0	34.1	31.6	5	0.2	10.8	14.2	48	0.79	12	137.2	851.1	22	<0.1	0.1	0.3	11	0.09	0.086	1014.8
IMA2673	Rock Pulp	2.4	22.6	35.7	21	<0.1	7.2	4.5	109	1.38	2	18.1	69.5	45	<0.1	0.1	<0.1	16	0.10	0.008	84.4
IMA2674	Rock Pulp	3.6	2.3	15.4	3	<0.1	4.5	9.5	17	0.24	10	33.9	175.9	18	<0.1	<0.1	0.2	7	0.05	0.021	191.5
IMA2675	Rock Pulp	1.8	157.6	16.1	8	<0.1	13.9	12.5	139	1.24	9	2.9	8.3	15	<0.1	0.1	1.2	18	0.21	0.004	11.0
IMA2676	Rock Pulp	1.3	27.2	91.6	216	0.1	27.4	11.0	132	2.14	3	5.3	11.2	45	0.7	<0.1	0.2	22	0.07	0.009	19.5
IMA2677	Rock Pulp	0.3	122.4	5.7	77	<0.1	70.9	47.9	1315	8.53	5	0.8	2.8	122	<0.1	0.4	<0.1	248	4.16	0.036	10.7
IMA2678	Rock Pulp	1.6	28.4	106.1	78	0.1	9.7	7.5	119	1.07	10	7.3	34.5	33	0.4	<0.1	0.2	13	0.18	0.006	45.7
IMA2679	Rock Pulp	7.9	194.3	540.1	4	1.5	12.6	29.7	27	1.55	12	2179.5	1272.0	25	<0.1	1.1	4.3	10	0.03	0.102	1157.3
IMA2680	Rock Pulp	1.2	21.5	63.5	63	0.1	7.2	5.6	81	0.96	3	6.6	41.4	42	0.3	<0.1	0.5	7	0.08	0.008	82.7
IMA2681	Rock Pulp	2.3	20.5	71.6	75	0.1	9.3	7.0	116	1.26	5	10.4	68.7	57	0.3	0.1	0.2	13	0.10	0.008	76.3
IMA2682	Rock Pulp	1.8	13.2	20.3	2	0.1	5.3	5.4	21	0.48	5	48.7	327.1	22	<0.1	0.1	0.3	9	0.04	0.046	397.1
IMA2683	Rock Pulp	1.8	15.2	5.8	1	<0.1	8.0	2.9	51	0.50	8	2.0	4.8	15	<0.1	<0.1	0.8	5	0.13	0.009	7.5
IMA2684	Rock Pulp	17.1	25.4	52.4	58	0.2	6.8	4.5	98	1.66	1	10.9	45.3	49	0.1	0.2	0.1	22	0.10	0.012	47.5
IMA2685	Rock Pulp	3.2	2.3	17.8	3	<0.1	4.6	5.2	17	0.36	4	47.7	124.8	16	<0.1	0.1	0.2	9	0.03	0.014	128.4
IMA2686	Rock Pulp	1.6	5.1	34.2	21	<0.1	6.8	2.2	114	1.17	1	6.1	33.7	49	<0.1	0.1	0.2	18	0.06	0.008	38.1
IMA2687	Rock Pulp	5.1	12.4	45.5	54	<0.1	6.5	2.7	104	1.13	1	8.2	52.2	50	0.3	<0.1	<0.1	9	0.04	0.007	94.8
IMA2688	Rock Pulp	4.6	12.6	58.8	33	0.1	12.2	7.0	230	2.20	6	25.2	159.4	56	0.1	0.2	<0.1	40	0.10	0.016	146.7



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Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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
IMA2659	Rock Pulp	284	0.10	25	0.005	0.30	0.024	0.16	0.4	2.5	8	0.6	0.8	0.7	<0.1	<1	<1	0.8	0.2	8.4	<0.1
IMA2660	Rock Pulp	161	0.35	1326	0.204	5.46	0.075	6.76	0.4	114.0	205	1.2	12.3	15.8	1.6	<1	2	11.7	<0.1	177.8	3.1
IMA2661	Rock Pulp	140	0.38	573	0.299	3.70	0.036	2.82	0.8	213.2	>2000	4.1	133.4	32.1	4.5	3	3	17.3	0.5	164.5	6.1
IMA2662	Rock Pulp	117	1.70	76	0.302	5.37	1.728	0.55	0.4	129.7	124	0.7	16.0	9.6	1.0	<1	13	24.2	<0.1	30.5	3.6
IMA2663	Rock Pulp	129	0.09	625	0.153	3.17	0.048	3.77	1.2	113.6	959	1.3	43.4	14.7	1.6	<1	2	6.3	0.1	148.6	3.3
IMA2664	Rock Pulp	66	0.05	293	0.033	1.44	0.023	1.66	0.4	40.6	153	0.4	6.5	3.2	0.3	<1	<1	0.8	<0.1	66.3	1.1
IMA2665	Rock Pulp	182	0.31	911	0.269	3.99	0.285	4.46	0.7	200.4	511	1.1	25.0	24.5	2.6	<1	1	9.8	0.3	149.1	5.4
IMA2666	Rock Pulp	109	0.21	270	0.303	2.86	0.029	2.47	1.0	171.4	>2000	2.7	175.0	49.2	6.9	2	4	9.8	1.0	152.6	4.8
IMA2667	Rock Pulp	146	0.06	387	0.047	1.89	0.034	2.34	0.9	48.6	192	0.6	8.1	5.2	0.7	<1	<1	1.6	0.1	95.8	1.3
IMA2668	Rock Pulp	144	0.28	280	0.332	3.26	0.028	2.72	0.8	234.3	>2000	3.1	149.5	37.0	4.3	3	5	11.2	0.6	167.5	6.8
IMA2669	Rock Pulp	123	0.31	1061	0.199	5.43	0.064	5.41	0.5	104.6	171	1.6	9.9	13.9	1.4	1	3	13.8	<0.1	185.0	2.8
IMA2670	Rock Pulp	79	<0.01	18	0.006	1.27	0.225	0.29	<0.1	34.0	19	0.2	1.1	0.3	<0.1	<1	<1	0.6	<0.1	7.5	0.9
IMA2671	Rock Pulp	74	0.22	883	0.247	3.61	0.827	3.88	0.4	134.8	556	0.9	28.7	24.9	2.3	<1	2	2.7	<0.1	76.2	3.8
IMA2672	Rock Pulp	141	0.12	655	0.166	2.81	0.051	3.23	1.0	131.5	1853	1.4	71.6	19.3	2.6	<1	2	5.8	0.3	146.4	3.8
IMA2673	Rock Pulp	58	0.25	1131	0.136	4.69	0.366	5.68	0.4	99.4	162	0.9	8.8	10.7	1.1	<1	2	6.2	0.1	161.4	2.7
IMA2674	Rock Pulp	45	0.05	691	0.069	3.62	0.073	4.34	0.5	83.7	352	0.8	13.2	5.4	0.6	<1	2	2.0	<0.1	169.6	2.3
IMA2675	Rock Pulp	207	0.24	498	0.027	3.13	0.036	3.04	0.4	34.4	20	0.7	2.4	1.7	0.2	<1	1	9.3	0.2	112.2	0.9
IMA2676	Rock Pulp	178	0.76	17	0.029	3.72	2.174	0.20	0.2	85.2	39	0.2	3.1	0.8	<0.1	<1	3	12.4	0.2	8.6	2.4
IMA2677	Rock Pulp	24	3.72	369	0.392	7.21	1.643	1.55	0.2	35.1	22	0.6	13.6	3.3	0.3	1	33	35.0	0.1	47.5	0.9
IMA2678	Rock Pulp	137	0.25	721	0.099	3.50	0.261	3.92	0.3	89.7	84	0.5	4.9	7.8	0.7	<1	2	4.9	<0.1	100.0	2.4
IMA2679	Rock Pulp	152	0.09	222	0.230	3.71	0.043	3.56	1.6	125.9	>2000	3.2	218.1	39.3	6.7	2	2	16.6	1.1	163.6	3.7
IMA2680	Rock Pulp	55	0.16	902	0.059	3.49	0.082	3.91	0.2	71.7	154	0.5	6.6	6.1	0.6	<1	1	5.5	0.1	131.4	2.0
IMA2681	Rock Pulp	66	0.23	1228	0.118	5.06	0.140	4.89	0.3	97.4	140	0.8	8.2	12.0	1.2	<1	2	6.1	0.1	168.8	2.8
IMA2682	Rock Pulp	102	0.07	742	0.185	3.75	0.052	4.56	0.4	133.5	732	1.6	28.9	17.1	1.9	1	2	3.5	0.1	184.7	3.6
IMA2683	Rock Pulp	119	0.04	343	0.007	1.48	0.030	2.13	0.2	28.3	14	0.2	1.3	0.6	<0.1	<1	<1	0.4	0.2	68.1	0.9
IMA2684	Rock Pulp	59	0.39	1255	0.135	7.20	0.800	5.34	0.8	113.1	91	2.8	6.5	10.4	0.9	2	3	15.0	<0.1	192.0	3.2
IMA2685	Rock Pulp	73	0.07	694	0.090	4.15	0.058	4.06	0.6	92.7	235	1.4	14.0	7.1	0.8	<1	2	3.2	<0.1	168.3	2.6
IMA2686	Rock Pulp	102	0.29	1228	0.119	6.43	0.152	5.15	0.4	108.8	73	1.9	5.7	9.7	0.8	2	3	10.8	<0.1	168.9	3.0
IMA2687	Rock Pulp	63	0.21	1065	0.113	4.44	0.090	4.62	0.2	80.6	175	0.8	7.5	9.4	0.9	<1	1	6.8	<0.1	154.6	2.6
IMA2688	Rock Pulp	86	0.52	1425	0.315	8.24	0.321	6.99	0.8	252.3	277	3.8	20.4	26.0	2.6	3	6	21.5	<0.1	280.9	7.0



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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

Project: None Given
Report Date: July 30, 2018

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CERTIFICATE OF ANALYSIS

VAN18001676.1

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	
IMA2659	Rock Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA2660	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2661	Rock Pulp	0.07	<0.005	2	<0.5	1.2
IMA2662	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2663	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2664	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2665	Rock Pulp	0.05	<0.005	<1	<0.5	0.8
IMA2666	Rock Pulp	0.07	<0.005	3	<0.5	0.9
IMA2667	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2668	Rock Pulp	<0.05	<0.005	2	<0.5	0.9
IMA2669	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2670	Rock Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA2671	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2672	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2673	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2674	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2675	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2676	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2677	Rock Pulp	0.09	<0.005	<1	0.8	<0.5
IMA2678	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2679	Rock Pulp	<0.05	<0.005	4	<0.5	0.8
IMA2680	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2681	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2682	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2683	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2684	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2685	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2686	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2687	Rock Pulp	<0.05	<0.005	1	<0.5	1.0
IMA2688	Rock Pulp	<0.05	<0.005	<1	<0.5	1.5



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Project: None Given
Report Date: July 30, 2018

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QUALITY CONTROL REPORT

VAN18001676.1

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																					
IMA2569	Rock Pulp	1.0	132.7	49.5	192	0.3	61.7	29.6	736	10.92	12	13.8	30.7	13	0.3	0.2	0.5	195	0.13	0.050	40.2
REP IMA2569	QC	1.1	128.5	47.2	185	0.3	59.6	31.5	745	10.82	16	12.8	27.5	12	<0.1	0.2	0.4	193	0.13	0.055	40.8
IMA2578	Rock Pulp	1.7	44.9	262.0	794	0.3	76.1	26.7	419	4.45	17	3.7	9.2	76	4.8	0.2	0.3	123	0.21	0.045	28.9
REP IMA2578	QC	2.0	45.4	254.2	797	0.3	78.2	27.7	410	4.39	18	3.5	8.7	76	4.2	0.2	0.3	124	0.20	0.043	26.6
IMA2613	Rock Pulp	1.7	29.1	8.0	25	<0.1	30.0	12.2	106	2.27	<1	5.9	17.4	84	<0.1	<0.1	<0.1	51	0.16	0.019	29.1
REP IMA2613	QC	1.9	30.5	8.3	25	<0.1	31.4	12.5	113	2.28	2	6.9	20.1	85	<0.1	<0.1	<0.1	51	0.17	0.018	29.7
IMA2649	Rock Pulp	4.7	58.8	23.4	90	<0.1	23.9	29.6	205	5.01	16	25.4	102.8	88	0.2	<0.1	<0.1	151	0.30	0.062	125.0
REP IMA2649	QC	4.2	63.0	22.5	87	<0.1	26.2	28.7	216	5.08	16	28.0	109.1	89	0.1	<0.1	<0.1	152	0.35	0.059	126.0
IMA2678	Rock Pulp	1.6	28.4	106.1	78	0.1	9.7	7.5	119	1.07	10	7.3	34.5	33	0.4	<0.1	0.2	13	0.18	0.006	45.7
REP IMA2678	QC	1.6	27.7	100.6	76	<0.1	8.8	6.8	110	1.04	10	6.6	32.9	32	0.4	<0.1	0.3	13	0.17	0.006	42.7
Reference Materials																					
STD OREAS25A-4A	Standard	2.5	33.9	23.4	41	<0.1	45.3	7.6	482	6.70	10	2.6	14.5	43	<0.1	0.5	0.3	154	0.29	0.048	19.9
STD OREAS25A-4A	Standard	2.6	32.8	25.8	42	<0.1	50.0	7.9	530	6.91	10	3.0	16.8	51	<0.1	0.5	0.4	162	0.32	0.052	23.9
STD OREAS25A-4A	Standard	2.4	35.1	23.7	41	<0.1	46.7	8.1	507	6.69	9	2.8	15.4	47	<0.1	0.5	0.4	165	0.29	0.051	22.2
STD OREAS25A-4A	Standard	2.0	33.5	24.7	44	<0.1	45.8	7.9	525	6.76	9	2.8	14.9	47	<0.1	0.7	0.3	167	0.31	0.049	20.2
STD OREAS45E	Standard	2.0	743.0	16.6	43	0.3	460.4	58.6	538	22.71	16	2.2	11.6	14	<0.1	1.0	0.3	311	0.05	0.030	9.8
STD OREAS45E	Standard	2.3	776.4	19.3	48	0.3	485.0	57.8	579	26.11	18	2.7	15.1	17	<0.1	0.9	0.3	341	0.07	0.035	12.5
STD OREAS45E	Standard	2.5	787.7	18.7	49	0.3	483.9	61.6	591	26.01	17	2.6	13.7	17	<0.1	1.1	0.3	339	0.08	0.032	11.8
STD OREAS45E	Standard	2.8	816.4	20.0	57	0.3	439.3	54.2	521	25.26	18	2.6	14.1	17	<0.1	0.9	0.3	360	0.07	0.034	12.3
STD OREAS45E	Standard	2.2	800.9	18.6	48	0.3	481.9	59.8	602	25.62	19	2.5	13.3	17	<0.1	0.9	0.3	343	0.07	0.031	10.8
STD OREAS25A-4A Expected		2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309	0.048	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	0.1	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	0.2	
BLK	Blank	<0.1	<0.1	0.2	<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	0.2	
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	



QUALITY CONTROL REPORT

VAN18001676.1

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																					
IMA2569	Rock Pulp	132	3.08	190	0.401	7.52	0.208	1.53	1.0	142.8	82	1.4	14.4	7.6	0.7	<1	21	46.0	<0.1	100.3	3.7
REP IMA2569	QC	129	3.09	188	0.442	7.49	0.207	1.53	1.1	142.0	82	1.2	14.2	8.2	0.8	2	21	48.6	<0.1	99.3	4.0
IMA2578	Rock Pulp	172	1.77	392	0.190	8.71	2.632	2.41	1.2	136.8	60	2.1	10.2	4.2	0.3	2	15	32.2	0.1	132.6	3.9
REP IMA2578	QC	174	1.75	376	0.186	8.48	2.636	2.41	1.2	132.2	56	2.0	9.5	3.9	0.3	2	14	29.5	0.1	126.1	3.6
IMA2613	Rock Pulp	118	0.86	122	0.072	6.14	2.904	1.18	0.6	153.4	59	1.1	5.3	1.7	0.2	1	7	13.7	0.1	59.2	4.2
REP IMA2613	QC	125	0.87	128	0.070	6.09	2.923	1.22	0.6	163.0	60	1.1	5.7	1.6	0.2	2	7	12.7	0.1	60.9	4.6
IMA2649	Rock Pulp	124	1.65	357	0.609	7.29	3.662	2.88	0.4	175.6	227	2.0	16.5	25.4	1.6	2	14	18.5	<0.1	285.1	4.7
REP IMA2649	QC	121	1.66	364	0.620	7.27	3.757	2.89	0.4	163.9	218	2.3	16.1	26.8	1.7	2	14	18.2	<0.1	280.2	4.7
IMA2678	Rock Pulp	137	0.25	721	0.099	3.50	0.261	3.92	0.3	89.7	84	0.5	4.9	7.8	0.7	<1	2	4.9	<0.1	100.0	2.4
REP IMA2678	QC	128	0.25	706	0.092	3.36	0.252	4.06	0.2	89.9	79	0.6	4.7	7.5	0.6	<1	2	5.2	<0.1	98.0	2.4
Reference Materials																					
STD OREAS25A-4A	Standard	105	0.31	135	0.872	8.69	0.131	0.48	1.7	143.3	43	3.6	9.6	18.4	1.3	2	12	38.7	<0.1	55.1	3.9
STD OREAS25A-4A	Standard	120	0.36	149	0.923	9.58	0.143	0.49	1.9	152.4	51	4.2	11.1	20.3	1.5	<1	14	38.4	<0.1	63.1	4.4
STD OREAS25A-4A	Standard	116	0.34	149	0.908	9.47	0.140	0.51	1.9	156.4	48	3.7	10.4	19.5	1.4	<1	12	36.2	<0.1	61.1	4.2
STD OREAS25A-4A	Standard	113	0.34	151	0.927	8.89	0.117	0.53	1.8	156.7	47	3.9	10.1	19.8	1.3	<1	13	36.1	<0.1	56.4	4.1
STD OREAS45E	Standard	961	0.14	229	0.522	6.93	0.051	0.33	0.8	87.5	22	1.2	6.9	5.5	0.5	<1	88	6.7	<0.1	19.0	2.7
STD OREAS45E	Standard	969	0.18	263	0.548	7.11	0.056	0.35	1.0	97.9	25	1.4	8.4	6.5	0.5	<1	94	6.9	<0.1	22.1	2.8
STD OREAS45E	Standard	1057	0.15	260	0.531	7.14	0.062	0.34	1.1	95.1	25	1.4	7.7	6.3	0.5	<1	91	7.0	<0.1	22.3	3.0
STD OREAS45E	Standard	1098	0.16	276	0.565	7.26	0.059	0.34	1.2	104.7	26	1.3	8.3	6.7	0.6	<1	95	7.4	<0.1	23.1	3.2
STD OREAS45E	Standard	1063	0.17	263	0.554	7.08	0.056	0.35	0.9	102.4	25	1.3	8.6	6.5	0.6	<1	98	8.3	<0.1	21.9	3.3
STD OREAS25A-4A Expected		115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	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	0.002	<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	<0.1	<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



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: July 30, 2018

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QUALITY CONTROL REPORT

VAN18001676.1

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						
IMA2569	Rock Pulp	0.11	<0.005	<1	<0.5	<0.5
REP IMA2569	QC	0.15	0.009	<1	<0.5	<0.5
IMA2578	Rock Pulp	0.08	<0.005	<1	<0.5	0.6
REP IMA2578	QC	0.12	<0.005	1	<0.5	0.6
IMA2613	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
REP IMA2613	QC	<0.05	<0.005	<1	<0.5	<0.5
IMA2649	Rock Pulp	<0.05	<0.005	<1	<0.5	2.8
REP IMA2649	QC	0.05	<0.005	<1	<0.5	2.9
IMA2678	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
REP IMA2678	QC	<0.05	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.08	<0.005	2	<0.5	<0.5
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	0.10	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.16	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.13	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	0.13	<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	0.15
BLK	Blank	<0.05	<0.005	2	<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: October 15, 2018
Report Date: October 27, 2018
Page: 1 of 8

CERTIFICATE OF ANALYSIS

VAN18002871.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 191

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	191	Sorting, labeling and boxing samples received as pulps			VAN
MA200	191	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:


KERRY JAY
Geochem Project Specialist

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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Project: None Given
Report Date: October 27, 2018

Page: 2 of 8

Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2689	Rock Pulp	0.5	21.3	110.8	375	<0.1	66.9	40.0	1105	15.02	12	6.5	17.9	11	0.8	0.2	0.1	286	0.21	0.085	28.5
IMA2690	Rock Pulp	1.5	6.3	13.2	8	<0.1	6.7	3.3	34	0.89	3	7.1	30.6	50	<0.1	0.1	0.1	15	0.02	0.007	42.3
IMA2691	Rock Pulp	1.7	7.9	236.0	105	<0.1	4.2	7.0	23	0.42	6	66.7	326.8	20	0.6	0.1	0.3	6	0.03	0.035	348.7
IMA2692	Rock Pulp	1.1	53.9	94.4	92	0.1	10.3	5.3	133	0.88	7	2.3	10.1	59	0.3	0.1	0.1	12	0.15	0.004	13.6
IMA2693	Rock Pulp	4.8	9.6	196.0	240	<0.1	6.8	26.0	88	0.56	36	25.2	172.0	29	1.0	0.2	0.3	14	0.19	0.028	229.1
IMA2694	Rock Pulp	1.0	9.0	51.5	199	<0.1	3.6	4.7	37	0.47	5	16.1	97.8	16	1.1	<0.1	<0.1	8	0.06	0.016	113.5
IMA2695	Rock Pulp	2.2	13.6	24.4	14	0.1	6.3	8.1	56	0.45	10	30.7	172.3	21	<0.1	0.2	0.3	10	0.18	0.026	243.0
IMA2696	Rock Pulp	4.9	325.4	138.5	200	0.4	38.9	56.2	184	3.23	65	12.6	57.1	18	1.7	0.2	4.5	97	0.25	0.039	84.4
IMA2697	Rock Pulp	2.0	24.2	89.5	5	<0.1	6.9	5.4	101	0.94	4	84.6	436.6	28	<0.1	<0.1	0.1	10	0.09	0.048	503.2
IMA2698	Rock Pulp	1.2	23.6	96.9	384	<0.1	4.3	3.9	55	0.71	3	55.8	237.9	23	2.3	<0.1	0.2	10	0.07	0.030	309.8
IMA2699	Rock Pulp	2.4	17.8	86.9	3	<0.1	5.7	6.1	141	0.80	4	83.4	469.9	30	<0.1	<0.1	0.1	12	0.19	0.051	533.9
IMA2700	Rock Pulp	1.3	9.4	11.7	54	<0.1	6.0	2.9	74	0.42	6	2.6	13.5	13	0.3	<0.1	<0.1	6	0.15	0.004	42.4
IMA2701	Rock Pulp	2.9	8.4	47.1	20	<0.1	6.5	3.6	107	0.67	7	21.5	133.7	21	<0.1	0.2	0.4	11	0.20	0.022	258.1
IMA2702	Rock Pulp	2.3	20.6	136.8	196	0.2	8.5	4.8	138	0.70	1	29.4	182.8	27	1.3	<0.1	0.8	12	0.22	0.029	264.7
IMA2703	Rock Pulp	0.5	2.5	1.4	<1	<0.1	4.9	0.5	18	0.21	2	0.6	2.5	29	<0.1	<0.1	<0.1	4	<0.01	0.002	7.9
IMA2704	Rock Pulp	3.1	29.3	185.9	3	<0.1	5.4	6.6	137	0.90	<1	212.5	932.5	32	<0.1	<0.1	0.5	12	0.17	0.092	1013.5
IMA2705	Rock Pulp	1.6	12.1	40.9	3	<0.1	4.5	4.7	46	0.47	3	31.6	173.2	28	<0.1	<0.1	0.1	6	0.06	0.024	192.9
IMA2706	Rock Pulp	7.6	35.0	164.8	23	0.1	5.5	13.3	40	0.74	7	175.1	844.8	30	<0.1	0.2	0.6	13	0.09	0.108	954.3
IMA2707	Rock Pulp	2.5	20.7	60.7	27	<0.1	6.0	5.4	89	0.60	3	49.6	276.8	23	<0.1	<0.1	0.2	9	0.14	0.035	350.7
IMA2708	Rock Pulp	2.7	14.0	73.5	61	<0.1	3.7	17.9	34	0.53	21	33.9	168.3	26	0.3	<0.1	0.2	10	0.07	0.021	230.5
IMA2709	Rock Pulp	2.4	16.2	68.8	99	0.1	9.7	9.7	51	0.62	14	37.0	214.5	18	0.5	0.1	0.2	9	0.09	0.025	202.0
IMA2710	Rock Pulp	2.8	13.6	22.6	46	<0.1	6.2	4.6	39	0.51	9	7.8	46.1	16	0.4	0.2	0.2	7	0.04	0.009	95.2
IMA2711	Rock Pulp	1.0	76.1	16.1	3	<0.1	5.2	2.9	127	0.53	3	8.6	48.8	15	<0.1	<0.1	0.2	11	0.24	0.008	68.9
IMA2712	Rock Pulp	2.4	48.2	22.4	4	<0.1	2.6	1.6	29	0.52	2	39.9	245.5	22	<0.1	<0.1	0.1	14	0.06	0.030	237.4
IMA2713	Rock Pulp	1.9	7.7	110.2	126	<0.1	4.6	7.8	23	0.41	8	19.9	136.0	14	0.7	0.1	0.3	8	0.04	0.021	171.5
IMA2714	Rock Pulp	1.9	3.7	44.1	30	<0.1	3.9	3.8	20	0.38	3	6.4	34.0	14	<0.1	<0.1	0.1	7	0.03	0.008	51.0
IMA2715	Rock Pulp	3.3	37.6	46.4	247	0.2	8.1	21.3	27	0.56	25	95.5	622.4	26	1.5	0.2	1.1	9	0.08	0.072	704.9
IMA2716	Rock Pulp	2.2	8.2	16.4	32	0.2	26.7	59.0	41	3.12	129	36.7	171.4	17	<0.1	0.5	0.3	7	0.03	0.020	207.6
IMA2717	Rock Pulp	2.0	17.7	13.1	11	<0.1	5.5	7.7	17	0.37	13	30.5	175.7	21	<0.1	0.1	0.3	6	0.04	0.025	228.0
IMA2718	Rock Pulp	1.9	12.3	77.5	87	<0.1	8.1	5.8	129	0.60	7	25.3	135.4	20	0.4	<0.1	0.2	8	0.24	0.016	145.7



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

Project: None Given
Report Date: October 27, 2018

Page: 2 of 8

Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
				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	
IMA2689	Rock Pulp			105	4.14	76	0.737	7.96	0.155	0.63	0.6	163.3	60	0.7	14.2	6.1	0.5	1	30	51.2	<0.1	41.7	4.3
IMA2690	Rock Pulp			74	0.27	1295	0.113	5.90	0.071	3.64	0.4	115.6	76	1.7	5.5	8.2	0.7	2	2	13.3	<0.1	121.8	3.1
IMA2691	Rock Pulp			77	0.06	683	0.101	2.82	0.045	3.09	0.4	87.8	676	1.3	28.7	11.1	1.2	1	2	3.2	0.1	112.1	2.5
IMA2692	Rock Pulp			103	0.21	679	0.057	4.42	1.499	2.53	0.3	55.2	26	0.6	2.3	2.7	0.3	<1	2	5.9	<0.1	81.1	1.5
IMA2693	Rock Pulp			95	0.14	1077	0.303	3.77	0.069	3.06	0.8	155.4	434	1.7	20.2	26.5	2.9	<1	2	4.5	<0.1	158.4	4.6
IMA2694	Rock Pulp			59	0.10	615	0.100	2.87	0.040	2.90	0.4	102.8	203	1.1	10.2	8.9	0.8	<1	1	2.5	<0.1	122.4	2.8
IMA2695	Rock Pulp			125	0.07	841	0.142	3.69	0.048	2.86	1.1	147.6	437	1.3	16.7	13.5	1.4	<1	2	2.4	<0.1	113.8	4.0
IMA2696	Rock Pulp			102	1.49	280	0.143	4.58	0.606	1.98	0.8	127.1	158	2.1	11.6	3.9	0.3	2	13	17.3	0.2	130.4	3.6
IMA2697	Rock Pulp			135	0.13	644	0.259	3.28	0.048	3.21	0.5	135.9	956	1.4	37.6	23.1	2.6	<1	2	4.3	0.1	139.7	4.1
IMA2698	Rock Pulp			81	0.13	705	0.095	3.37	0.043	3.32	0.2	106.3	531	1.0	24.7	11.2	1.2	<1	1	2.7	<0.1	133.6	2.7
IMA2699	Rock Pulp			93	0.11	705	0.218	3.53	0.098	3.19	0.9	122.8	916	1.3	37.9	23.9	2.6	<1	2	4.6	<0.1	117.3	3.2
IMA2700	Rock Pulp			48	0.14	623	0.028	2.96	0.039	3.15	0.4	51.3	74	0.4	2.6	2.0	0.2	<1	1	1.4	<0.1	114.2	1.4
IMA2701	Rock Pulp			128	0.09	664	0.153	3.12	0.044	3.66	1.7	118.6	481	1.0	15.8	14.7	1.6	1	2	2.1	0.2	126.4	3.3
IMA2702	Rock Pulp			60	0.15	829	0.194	3.43	0.056	3.44	0.9	137.7	507	1.2	19.3	21.6	2.3	<1	2	3.8	<0.1	138.7	3.9
IMA2703	Rock Pulp			111	<0.01	25	0.008	1.51	0.198	0.33	0.1	25.7	15	0.2	0.9	0.5	<0.1	<1	<1	0.4	<0.1	10.6	0.7
IMA2704	Rock Pulp			88	0.09	677	0.319	3.23	0.106	2.77	1.1	127.6	1839	1.3	69.7	33.2	4.2	2	2	4.9	<0.1	101.0	3.6
IMA2705	Rock Pulp			85	0.07	450	0.136	3.48	1.332	2.58	0.5	117.2	349	0.9	16.6	12.2	1.4	<1	1	2.5	<0.1	91.2	3.2
IMA2706	Rock Pulp			56	0.11	856	0.234	4.21	0.096	3.67	1.3	171.6	1696	2.5	66.9	26.0	3.0	2	3	5.2	0.2	161.3	5.0
IMA2707	Rock Pulp			114	0.12	924	0.142	3.43	0.052	3.02	0.8	109.9	641	1.2	27.0	15.1	1.6	2	1	4.1	<0.1	119.3	2.8
IMA2708	Rock Pulp			45	0.15	1017	0.125	4.87	0.068	3.48	1.1	123.3	400	2.1	17.0	10.6	1.1	1	2	5.9	<0.1	137.6	3.4
IMA2709	Rock Pulp			144	0.15	615	0.115	2.65	0.038	2.64	1.3	112.9	365	0.6	18.6	10.5	1.1	<1	2	1.9	0.1	98.1	3.1
IMA2710	Rock Pulp			103	0.12	632	0.073	2.81	0.037	2.66	0.6	77.8	171	0.6	5.6	6.3	0.6	<1	1	1.7	<0.1	99.6	2.1
IMA2711	Rock Pulp			142	0.15	611	0.073	2.67	0.037	3.08	0.4	74.1	126	1.1	6.0	7.2	0.7	<1	2	2.2	<0.1	120.2	1.9
IMA2712	Rock Pulp			50	0.14	870	0.176	4.43	0.072	3.05	0.7	197.5	485	3.5	22.5	13.8	1.6	1	3	5.9	<0.1	152.5	5.1
IMA2713	Rock Pulp			68	0.10	542	0.234	2.99	0.057	3.21	0.5	103.7	318	2.2	14.1	19.5	2.2	1	2	3.5	<0.1	151.7	3.0
IMA2714	Rock Pulp			85	0.10	601	0.083	3.52	0.051	3.18	0.3	82.4	89	1.9	4.5	5.4	0.6	1	2	3.5	<0.1	161.0	2.3
IMA2715	Rock Pulp			70	0.07	756	0.200	3.40	0.045	2.83	0.8	184.1	1356	1.2	47.3	21.3	2.4	1	2	3.8	0.1	111.2	5.3
IMA2716	Rock Pulp			242	0.05	112	0.084	2.91	0.063	3.52	0.9	100.4	397	0.9	16.1	7.9	0.9	1	2	2.1	3.1	139.8	2.9
IMA2717	Rock Pulp			48	0.04	807	0.101	3.20	0.046	3.03	0.7	106.3	415	0.5	14.6	9.3	1.0	<1	1	1.2	0.2	116.5	3.0
IMA2718	Rock Pulp			119	0.25	787	0.112	3.60	0.046	2.93	0.6	96.2	281	1.1	14.2	10.0	1.0	1	2	3.5	<0.1	126.3	3.1



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Client: **MacGregor, R.A.**
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Project: None Given
Report Date: October 27, 2018

Page: 2 of 8

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2689	Rock Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA2690	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2691	Rock Pulp	<0.05	<0.005	1	<0.5	0.6
IMA2692	Rock Pulp	<0.05	<0.005	<1	<0.5	0.5
IMA2693	Rock Pulp	<0.05	<0.005	<1	<0.5	1.2
IMA2694	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2695	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2696	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2697	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2698	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2699	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2700	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2701	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2702	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2703	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2704	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2705	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2706	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2707	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2708	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2709	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2710	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2711	Rock Pulp	<0.05	0.007	<1	<0.5	0.7
IMA2712	Rock Pulp	0.06	0.005	1	<0.5	1.1
IMA2713	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2714	Rock Pulp	<0.05	0.005	<1	<0.5	0.9
IMA2715	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2716	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2717	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2718	Rock Pulp	<0.05	<0.005	1	<0.5	0.9



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Project: None Given
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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	0.1	1	0.01	0.001	
IMA2719	Rock Pulp	2.6	13.8	37.3	4	<0.1	4.2	4.1	122	0.73	5	16.5	85.4	20	<0.1	<0.1	0.1	8	0.06	0.010	104.9
IMA2720	Rock Pulp	4.3	108.7	105.2	80	0.2	13.5	23.9	46	0.82	16	86.0	417.2	23	0.4	0.2	0.6	14	0.09	0.052	428.6
IMA2721	Rock Pulp	3.0	16.5	57.8	10	0.1	8.4	9.0	142	0.90	7	139.6	956.8	32	<0.1	0.2	0.3	14	0.20	0.104	1239.3
IMA2722	Rock Pulp	3.3	16.9	71.5	6	<0.1	7.1	5.8	130	0.88	4	27.6	154.3	29	<0.1	<0.1	0.2	11	0.09	0.016	163.6
IMA2723	Rock Pulp	2.9	12.7	12.8	19	0.2	13.4	25.6	15	1.00	47	12.6	124.3	18	<0.1	0.2	0.2	9	0.02	0.024	227.6
IMA2724	Rock Pulp	5.7	31.6	158.3	12	<0.1	9.8	8.3	85	0.84	4	132.9	710.1	26	<0.1	0.2	0.5	14	0.16	0.081	810.0
IMA2725	Rock Pulp	3.3	13.5	36.2	2	<0.1	7.6	6.1	69	0.76	6	61.2	354.0	25	<0.1	0.1	0.3	8	0.18	0.042	420.1
IMA2726	Rock Pulp	3.0	43.7	15.6	4	<0.1	7.9	10.4	39	0.42	12	74.2	401.0	23	<0.1	0.2	0.7	15	0.12	0.061	450.0
IMA2727	Rock Pulp	1.7	4.8	34.0	38	<0.1	4.2	2.6	48	0.37	1	17.6	124.1	20	0.2	<0.1	<0.1	9	0.06	0.019	151.3
IMA2728	Rock Pulp	2.0	55.5	18.8	46	0.1	13.2	13.4	148	0.59	10	70.0	450.5	24	0.2	0.3	0.9	12	0.49	0.063	621.3
IMA2729	Rock Pulp	7.3	80.8	51.0	7	<0.1	4.6	8.3	106	0.72	8	48.9	251.7	24	<0.1	0.1	1.2	13	0.06	0.031	299.3
IMA2730	Rock Pulp	2.2	21.8	66.7	5	<0.1	5.8	4.7	105	0.91	1	51.0	278.4	29	<0.1	<0.1	0.2	12	0.11	0.039	289.0
IMA2731	Rock Pulp	2.8	48.1	61.5	35	0.1	17.9	10.5	291	2.48	2	39.5	53.2	24	<0.1	0.2	0.7	64	0.28	0.017	59.7
IMA2732	Rock Pulp	1.3	12.8	14.8	3	<0.1	6.0	4.3	24	0.37	4	29.2	161.0	18	<0.1	0.1	0.4	19	0.03	0.021	195.7
IMA2733	Rock Pulp	2.8	1.7	12.8	4	<0.1	4.6	4.3	12	0.26	8	6.1	46.9	17	<0.1	<0.1	0.1	6	<0.01	0.006	46.1
IMA2734	Rock Pulp	2.4	9.6	18.1	9	<0.1	4.5	5.2	84	0.62	5	16.5	92.4	25	<0.1	0.1	0.1	11	0.10	0.012	105.8
IMA2735	Rock Pulp	2.4	63.0	7.1	2	<0.1	4.9	2.2	26	0.31	2	3.1	9.1	20	<0.1	<0.1	0.5	13	0.06	0.017	8.5
IMA2736	Rock Pulp	3.9	2.7	10.6	3	<0.1	3.8	3.5	11	0.24	5	17.5	102.9	17	<0.1	<0.1	0.2	11	0.02	0.013	98.5
IMA2737	Rock Pulp	10.8	28.9	49.2	53	<0.1	9.2	6.1	145	1.64	<1	12.1	64.6	62	0.2	0.1	0.3	23	0.15	0.014	71.6
IMA2738	Rock Pulp	1.4	5.7	11.1	4	<0.1	5.8	2.1	40	0.52	2	16.3	106.7	15	<0.1	<0.1	0.2	11	0.02	0.015	123.1
IMA2739	Rock Pulp	0.7	11.4	13.7	18	<0.1	16.3	6.7	250	1.54	<1	1.7	4.8	81	<0.1	0.1	0.1	33	0.40	0.018	12.0
IMA2740	Rock Pulp	1.4	38.3	126.6	81	0.1	9.3	3.1	136	1.05	3	3.1	10.7	19	0.5	0.2	0.2	17	0.04	0.003	18.2
IMA2741	Rock Pulp	1.0	19.0	6.5	3	<0.1	7.1	3.7	41	0.54	7	1.9	7.2	17	<0.1	0.1	0.5	9	0.06	0.006	9.8
IMA2742	Rock Pulp	1.7	3.8	107.9	5	<0.1	5.1	2.3	26	0.38	1	66.0	246.3	18	<0.1	<0.1	0.2	14	0.02	0.028	249.2
IMA2743	Rock Pulp	3.5	12.4	125.9	15	<0.1	7.3	5.2	30	0.49	2	107.7	610.9	23	<0.1	0.1	0.5	19	0.04	0.074	659.0
IMA2744	Rock Pulp	2.3	7.1	18.8	5	<0.1	8.2	2.3	75	0.54	2	15.1	64.0	30	<0.1	<0.1	0.1	14	0.09	0.012	80.9
IMA2745	Rock Pulp	0.6	2.7	1.0	2	<0.1	4.1	0.6	18	0.15	<1	0.7	2.6	2	<0.1	<0.1	<0.1	2	0.01	0.001	4.9
IMA2746	Rock Pulp	4.9	880.5	29.4	13	0.2	12.3	7.6	57	0.92	1	44.9	248.9	22	<0.1	0.1	0.2	17	0.06	0.029	235.7
IMA2747	Rock Pulp	2.5	19.8	119.4	5	<0.1	4.4	7.7	173	0.91	<1	130.6	618.3	39	<0.1	<0.1	0.2	15	0.19	0.071	685.2
IMA2748	Rock Pulp	3.6	38.8	73.0	35	<0.1	17.4	12.5	223	1.86	<1	93.4	433.2	42	<0.1	<0.1	0.4	39	0.23	0.063	531.3



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Project: None Given
Report Date: October 27, 2018

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Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	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	
IMA2719	Rock Pulp	119	0.10	803	0.085	3.46	0.062	2.46	1.9	101.0	193	1.0	7.5	8.0	0.8	<1	2	2.2	<0.1	101.6	3.5
IMA2720	Rock Pulp	126	0.20	594	0.182	2.68	0.037	2.58	0.3	100.6	773	0.9	38.5	17.6	1.8	<1	3	4.5	0.2	100.5	3.0
IMA2721	Rock Pulp	100	0.14	781	0.238	3.12	0.044	3.36	1.4	149.8	>2000	1.7	86.9	29.3	3.5	2	3	6.5	0.3	140.4	4.1
IMA2722	Rock Pulp	165	0.14	810	0.145	3.68	0.076	4.19	0.3	134.9	278	1.1	15.8	14.4	1.5	<1	1	3.2	0.1	165.7	4.0
IMA2723	Rock Pulp	86	0.09	221	0.070	3.41	0.053	4.23	0.5	83.8	425	1.1	12.1	6.2	0.7	<1	2	3.4	0.7	168.3	2.3
IMA2724	Rock Pulp	146	0.16	731	0.398	3.51	0.060	3.33	1.6	243.3	1467	2.1	75.7	40.2	4.6	1	2	5.5	0.1	156.4	6.9
IMA2725	Rock Pulp	95	0.16	698	0.216	3.04	0.045	3.38	0.6	150.2	781	1.0	37.0	19.1	1.5	<1	2	3.8	0.1	143.7	4.2
IMA2726	Rock Pulp	108	0.05	716	0.376	3.15	0.047	3.18	1.7	248.5	822	1.3	37.4	38.1	4.4	<1	1	3.0	<0.1	142.7	7.1
IMA2727	Rock Pulp	76	0.07	774	0.181	3.03	0.043	2.82	0.5	102.2	267	1.1	12.6	15.5	1.7	<1	1	2.1	<0.1	163.1	2.8
IMA2728	Rock Pulp	174	0.16	755	0.237	3.34	0.051	2.80	1.1	163.8	1143	0.9	43.3	23.8	2.7	<1	2	2.2	<0.1	111.9	4.5
IMA2729	Rock Pulp	72	0.11	806	0.135	3.44	0.069	3.07	2.0	93.1	553	1.4	26.0	13.6	1.6	<1	2	3.8	<0.1	122.7	2.9
IMA2730	Rock Pulp	139	0.09	688	0.319	3.04	0.066	2.56	0.6	146.6	529	1.0	26.4	27.5	3.4	<1	1	3.8	0.1	132.0	3.9
IMA2731	Rock Pulp	125	0.51	675	0.146	4.45	0.339	2.82	0.9	175.9	115	2.3	10.5	6.5	0.5	1	6	15.6	0.3	188.3	5.0
IMA2732	Rock Pulp	83	0.07	608	0.153	3.88	0.165	3.13	0.6	102.2	350	1.6	17.6	12.7	1.4	1	2	3.3	<0.1	154.7	2.7
IMA2733	Rock Pulp	53	0.01	602	0.050	2.61	0.051	3.42	0.4	56.4	84	0.5	3.7	3.9	0.4	<1	<1	0.7	0.1	132.9	1.5
IMA2734	Rock Pulp	117	0.16	964	0.121	4.36	0.063	4.34	0.6	103.7	191	2.2	11.1	10.3	1.1	1	2	6.1	<0.1	173.9	2.7
IMA2735	Rock Pulp	73	0.03	414	0.018	1.68	0.030	2.33	0.4	42.7	15	0.3	1.9	1.4	0.1	<1	<1	0.6	<0.1	74.4	1.2
IMA2736	Rock Pulp	59	0.02	647	0.092	2.88	0.050	3.43	0.6	104.3	179	0.7	9.0	7.0	0.8	<1	<1	1.1	<0.1	152.4	2.9
IMA2737	Rock Pulp	67	0.30	1037	0.155	5.80	1.386	3.10	0.4	99.6	135	1.5	9.1	12.3	1.3	<1	2	9.3	<0.1	125.1	2.8
IMA2738	Rock Pulp	200	0.07	466	0.137	3.87	0.041	3.25	0.4	107.8	217	1.6	12.2	10.4	1.1	<1	1	3.1	<0.1	148.5	3.1
IMA2739	Rock Pulp	106	0.84	245	0.074	4.73	2.349	1.46	0.7	60.9	26	1.0	2.9	1.5	0.1	<1	4	10.8	<0.1	74.1	1.5
IMA2740	Rock Pulp	155	0.16	408	0.038	2.05	0.028	2.26	0.3	73.8	34	0.5	2.4	1.8	0.2	<1	2	3.9	<0.1	82.0	2.1
IMA2741	Rock Pulp	105	0.05	418	0.017	1.70	0.032	2.34	0.3	39.1	18	0.4	1.5	1.2	0.1	<1	<1	1.0	0.3	76.1	1.1
IMA2742	Rock Pulp	117	0.06	450	0.191	4.53	0.075	2.86	0.2	184.3	472	1.6	26.5	13.8	1.6	1	2	7.0	<0.1	144.0	5.2
IMA2743	Rock Pulp	131	0.06	552	0.394	4.33	0.056	3.03	0.4	227.0	1229	2.2	53.9	36.8	4.9	1	2	3.3	<0.1	152.2	6.4
IMA2744	Rock Pulp	213	0.09	367	0.115	3.98	0.525	2.45	0.3	130.1	143	1.3	7.5	7.1	0.8	<1	2	2.1	<0.1	127.8	3.5
IMA2745	Rock Pulp	98	<0.01	8	0.004	0.22	0.067	0.08	<0.1	15.2	9	<0.1	0.7	0.1	<0.1	<1	<1	0.2	<0.1	2.1	0.4
IMA2746	Rock Pulp	234	0.14	800	0.186	4.18	0.085	3.73	1.0	181.4	437	3.5	24.3	14.7	1.6	2	2	6.1	0.3	192.4	5.1
IMA2747	Rock Pulp	93	0.10	812	0.352	3.73	0.396	2.99	0.9	173.1	1240	1.2	45.4	31.2	3.8	<1	2	4.4	0.1	96.6	4.9
IMA2748	Rock Pulp	166	0.34	773	0.389	4.31	0.698	2.33	1.0	324.2	975	1.4	51.2	27.3	3.2	1	4	8.4	0.1	120.9	8.7



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2719	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2720	Rock Pulp	<0.05	<0.005	1	<0.5	0.6
IMA2721	Rock Pulp	<0.05	<0.005	3	<0.5	0.8
IMA2722	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2723	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2724	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2725	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2726	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2727	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2728	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2729	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2730	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2731	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2732	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2733	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2734	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2735	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2736	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2737	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2738	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2739	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2740	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2741	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2742	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2743	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2744	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2745	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2746	Rock Pulp	0.15	<0.005	1	<0.5	1.3
IMA2747	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2748	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	0.1	1	0.01	0.001	0.1
IMA2749	Rock Pulp	5.1	11.0	407.6	100	<0.1	8.5	10.6	71	1.14	4	341.5	1114.6	34	0.6	0.2	0.8	31	0.16	0.133	1518.9
IMA2750	Rock Pulp	6.6	71.5	389.7	12	0.1	15.4	21.0	171	1.51	9	351.2	1542.5	27	<0.1	0.2	0.8	21	0.19	0.153	1525.8
IMA2751	Rock Pulp	0.9	2.7	2.7	2	<0.1	5.9	1.1	30	0.33	<1	1.4	6.4	26	<0.1	<0.1	<0.1	5	0.01	0.001	17.7
IMA2752	Rock Pulp	1.7	2.5	11.6	3	<0.1	3.9	1.7	34	0.44	1	4.3	30.4	24	<0.1	<0.1	<0.1	12	0.04	0.007	101.3
IMA2753	Rock Pulp	4.9	18.8	94.1	51	<0.1	5.6	5.7	99	0.69	2	38.6	206.2	24	0.1	0.2	<0.1	10	0.09	0.024	242.8
IMA2754	Rock Pulp	1.4	9.2	15.9	10	<0.1	3.3	3.3	63	0.52	3	11.0	57.6	15	<0.1	<0.1	0.1	11	0.12	0.010	68.5
IMA2755	Rock Pulp	2.5	2.6	74.2	48	<0.1	3.4	1.7	51	0.78	1	64.0	353.4	11	<0.1	0.2	0.1	19	0.02	0.042	334.6
IMA2756	Rock Pulp	1.1	41.3	18.9	367	<0.1	11.5	10.3	66	0.41	10	68.0	480.7	26	2.5	0.2	0.6	10	0.18	0.069	681.6
IMA2757	Rock Pulp	0.6	2.4	1.7	<1	<0.1	5.1	0.6	20	0.24	<1	1.8	4.8	30	<0.1	<0.1	<0.1	4	<0.01	0.002	10.4
IMA2758	Rock Pulp	2.0	32.4	30.4	9	<0.1	13.6	8.5	184	1.42	2	15.8	80.2	34	<0.1	<0.1	0.2	24	0.17	0.017	116.2
IMA2759	Rock Pulp	5.7	46.2	953.5	231	0.4	17.0	45.8	68	1.10	27	1120.0	>4000	48	1.2	0.1	1.9	8	0.23	0.372	>2000
IMA2760	Rock Pulp	4.4	15.6	43.0	65	0.1	7.8	7.0	41	0.65	7	43.0	291.8	25	0.2	0.1	0.3	9	0.07	0.037	354.5
IMA2761	Rock Pulp	8.0	20.1	935.3	190	0.8	12.9	44.0	32	0.93	30	1200.6	3802.5	42	1.2	0.2	2.9	12	0.14	0.310	>2000
IMA2762	Rock Pulp	3.2	16.9	84.1	166	0.1	5.5	14.2	58	0.76	13	89.7	481.2	31	0.7	0.1	0.2	11	0.13	0.057	502.6
IMA2763	Rock Pulp	2.5	6.6	77.0	80	<0.1	6.6	2.5	38	0.44	1	20.7	154.4	24	0.3	<0.1	<0.1	8	0.05	0.023	236.3
IMA2764	Rock Pulp	2.9	26.8	266.5	443	0.1	5.0	7.9	75	0.81	3	29.7	167.7	26	2.4	<0.1	0.4	11	0.16	0.029	232.0
IMA2765	Rock Pulp	2.2	14.6	44.9	3	<0.1	6.7	4.2	99	0.81	<1	64.6	413.9	26	<0.1	<0.1	0.1	12	0.13	0.050	437.1
IMA2766	Rock Pulp	1.0	7.6	7.3	12	<0.1	4.0	4.6	31	0.31	5	8.0	44.6	15	<0.1	<0.1	<0.1	6	0.05	0.012	97.7
IMA2767	Rock Pulp	8.8	94.9	412.0	249	0.6	16.2	27.0	55	1.13	13	576.0	1145.2	20	0.9	0.1	1.9	16	0.11	0.111	1026.2
IMA2768	Rock Pulp	3.0	9.2	34.3	5	<0.1	8.2	10.8	100	0.83	9	16.2	97.4	28	<0.1	0.1	0.8	10	0.07	0.018	182.2
IMA2769	Rock Pulp	1.2	5.8	364.7	276	<0.1	3.6	8.0	18	0.34	6	53.9	300.8	23	1.4	<0.1	0.2	6	0.05	0.035	360.3
IMA2770	Rock Pulp	4.6	16.1	76.1	5	<0.1	7.5	13.8	118	0.87	11	64.6	330.4	28	<0.1	0.1	2.5	10	0.10	0.043	420.1
IMA2771	Rock Pulp	4.6	62.5	135.9	10	0.3	8.5	14.7	141	1.27	18	257.8	1416.6	32	<0.1	<0.1	3.5	19	0.29	0.160	1475.0
IMA2772	Rock Pulp	6.5	13.4	68.5	5	<0.1	6.7	12.8	115	0.88	7	49.6	318.8	31	<0.1	<0.1	1.0	10	0.11	0.049	446.7
IMA2773	Rock Pulp	2.6	3.1	14.6	3	<0.1	3.6	3.4	22	0.63	3	32.8	205.1	19	<0.1	<0.1	0.1	15	0.03	0.030	216.8
IMA2774	Rock Pulp	13.9	13.5	501.0	13	0.2	8.0	26.0	40	2.01	12	172.4	1492.6	23	<0.1	0.6	1.6	15	0.05	0.358	>2000
IMA2775	Rock Pulp	3.9	18.5	100.7	16	<0.1	6.1	3.1	99	0.66	2	98.3	607.7	26	<0.1	0.1	0.3	16	0.16	0.062	572.8
IMA2776	Rock Pulp	2.5	5.7	18.1	4	<0.1	7.0	5.6	44	0.64	3	50.7	311.5	20	<0.1	<0.1	0.2	18	0.06	0.040	277.7
IMA2777	Rock Pulp	2.5	6.3	28.1	12	<0.1	4.2	3.8	50	0.52	2	16.7	93.4	24	<0.1	<0.1	<0.1	10	0.07	0.012	119.8
IMA2778	Rock Pulp	2.3	13.4	74.4	44	<0.1	8.7	11.2	63	0.71	8	10.7	67.9	25	0.3	<0.1	0.4	9	0.11	0.014	157.3



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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		
				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		
IMA2749	Rock Pulp			106	0.31	1032	0.355	6.58	0.070	4.00	1.2	227.8	>2000	6.7	131.9	36.3	4.2	4	6	17.9	0.1	213.9	6.3
IMA2750	Rock Pulp			108	0.09	505	0.229	2.25	0.050	2.96	1.4	164.2	>2000	1.2	121.9	29.6	3.9	1	3	3.7	0.6	128.3	4.4
IMA2751	Rock Pulp			193	<0.01	20	0.010	1.33	0.233	0.29	<0.1	24.8	31	0.2	1.3	0.6	<0.1	<1	<1	0.5	<0.1	9.1	0.7
IMA2752	Rock Pulp			104	0.08	922	0.075	4.59	0.080	3.45	0.7	95.2	177	1.5	5.2	5.0	0.5	1	2	4.0	<0.1	172.8	2.8
IMA2753	Rock Pulp			102	0.09	771	0.142	3.17	0.090	3.04	0.7	83.9	437	0.8	19.3	13.0	1.5	<1	1	2.7	<0.1	142.8	2.4
IMA2754	Rock Pulp			84	0.20	690	0.110	4.17	0.051	3.30	0.5	109.5	126	4.2	7.5	7.1	0.7	2	2	6.1	<0.1	195.4	3.1
IMA2755	Rock Pulp			126	0.27	321	0.301	3.69	0.033	2.56	0.3	219.4	612	3.1	36.5	22.6	2.5	1	3	10.5	<0.1	152.5	6.3
IMA2756	Rock Pulp			104	0.06	812	0.258	3.33	0.052	2.80	1.8	170.8	1222	0.9	44.1	26.3	3.0	<1	1	2.0	<0.1	99.0	4.8
IMA2757	Rock Pulp			78	<0.01	26	0.009	1.22	0.160	0.30	<0.1	28.4	18	0.2	1.4	0.4	<0.1	<1	<1	1.6	<0.1	9.6	0.8
IMA2758	Rock Pulp			86	0.31	773	0.182	3.89	0.530	3.68	1.0	195.5	208	2.4	11.0	13.1	1.4	1	3	9.4	<0.1	176.6	5.6
IMA2759	Rock Pulp			204	0.15	552	0.201	2.87	0.037	3.00	0.8	140.2	>2000	1.2	341.2	4.6	<0.1	2	3	10.9	0.4	122.2	2.6
IMA2760	Rock Pulp			105	0.13	740	0.165	3.19	0.050	4.40	2.8	109.6	660	0.7	22.7	14.4	1.7	<1	1	2.4	0.2	154.0	3.1
IMA2761	Rock Pulp			120	0.16	732	0.413	4.01	0.048	4.13	1.0	286.5	>2000	2.4	319.7	34.9	0.4	3	5	10.9	0.4	185.1	7.2
IMA2762	Rock Pulp			87	0.18	1151	0.146	5.09	0.082	6.31	1.0	138.6	937	2.7	39.4	15.4	1.5	2	2	6.1	0.1	235.4	3.8
IMA2763	Rock Pulp			121	0.10	1120	0.190	3.93	0.082	4.39	0.8	148.1	405	1.7	17.3	17.6	1.7	1	2	4.4	<0.1	169.3	4.1
IMA2764	Rock Pulp			70	0.21	975	0.181	4.68	0.074	5.35	0.9	147.0	435	2.8	18.8	15.4	1.7	2	3	7.3	0.1	225.4	4.3
IMA2765	Rock Pulp			181	0.13	908	0.259	3.83	0.118	5.10	1.1	153.1	817	1.7	29.8	23.5	2.8	1	2	4.4	<0.1	161.5	4.2
IMA2766	Rock Pulp			54	0.07	690	0.077	3.30	0.048	4.70	0.5	89.0	175	0.7	5.8	6.1	0.6	<1	1	1.9	<0.1	158.2	2.6
IMA2767	Rock Pulp			164	0.05	422	0.208	2.09	0.037	2.68	2.5	85.9	1941	1.4	104.3	37.8	5.3	<1	2	2.8	0.7	94.5	2.3
IMA2768	Rock Pulp			224	0.10	863	0.100	3.81	0.097	4.72	0.6	112.0	334	1.3	11.4	9.5	1.0	<1	2	3.6	<0.1	210.3	3.2
IMA2769	Rock Pulp			67	0.07	740	0.168	3.22	0.053	4.15	0.6	98.4	657	1.3	25.1	16.5	1.8	1	1	2.4	<0.1	147.6	2.8
IMA2770	Rock Pulp			123	0.11	837	0.162	3.76	0.092	5.14	0.7	132.6	809	1.2	27.5	16.9	2.0	<1	2	3.8	0.1	199.9	3.9
IMA2771	Rock Pulp			77	0.16	156	0.312	3.42	0.064	4.09	1.8	167.1	>2000	2.6	108.4	42.0	4.8	1	4	5.3	0.8	170.6	4.8
IMA2772	Rock Pulp			143	0.11	836	0.190	3.70	0.092	4.10	0.6	141.1	822	1.4	27.8	18.4	2.0	<1	2	4.7	0.1	190.4	4.0
IMA2773	Rock Pulp			65	0.22	951	0.247	6.11	0.065	5.81	0.9	201.5	404	4.5	21.8	18.0	1.8	2	3	6.6	<0.1	283.2	5.2
IMA2774	Rock Pulp			102	0.23	258	0.493	2.77	0.026	2.26	0.9	267.0	>2000	3.2	126.8	67.0	8.1	1	4	10.5	1.5	143.6	7.4
IMA2775	Rock Pulp			159	0.11	859	0.333	3.57	0.078	4.55	1.6	167.0	1104	2.0	44.1	32.5	3.9	1	3	5.0	<0.1	195.5	4.9
IMA2776	Rock Pulp			164	0.14	855	0.259	4.65	0.059	5.53	1.0	183.1	538	2.7	28.6	22.7	2.5	2	3	6.2	<0.1	278.8	5.4
IMA2777	Rock Pulp			104	0.08	757	0.143	3.11	0.067	4.43	0.4	106.9	211	0.8	9.9	11.7	1.3	<1	1	2.6	<0.1	184.2	2.8
IMA2778	Rock Pulp			163	0.14	945	0.109	4.20	0.057	4.97	1.6	143.9	265	1.8	8.2	9.0	0.9	2	2	5.2	<0.1	215.0	3.9



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2749	Rock Pulp	0.07	<0.005	2	<0.5	1.3
IMA2750	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2751	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2752	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2753	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2754	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2755	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2756	Rock Pulp	0.06	<0.005	<1	<0.5	0.8
IMA2757	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2758	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2759	Rock Pulp	<0.05	<0.005	6	<0.5	0.7
IMA2760	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2761	Rock Pulp	<0.05	<0.005	7	<0.5	0.8
IMA2762	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2763	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2764	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2765	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2766	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2767	Rock Pulp	<0.05	<0.005	2	<0.5	0.7
IMA2768	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2769	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2770	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2771	Rock Pulp	0.07	<0.005	3	<0.5	0.7
IMA2772	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2773	Rock Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2774	Rock Pulp	<0.05	<0.005	4	<0.5	1.1
IMA2775	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2776	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2777	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2778	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2779	Rock Pulp	1.3	13.6	16.4	20	<0.1	4.5	6.9	33	0.40	5	21.8	94.2	14	<0.1	<0.1	0.3	9	0.04	0.012	113.4
IMA2780	Rock Pulp	19.4	132.1	798.9	219	2.1	28.9	104.2	91	2.56	62	789.4	2922.3	41	1.5	0.3	9.4	11	0.29	0.303	>2000
IMA2781	Rock Pulp	2.2	28.9	35.0	56	<0.1	6.8	9.8	56	0.63	2	79.7	533.9	21	0.2	0.1	0.7	14	0.15	0.062	569.4
IMA2782	Rock Pulp	3.3	13.1	63.2	44	<0.1	7.3	7.3	62	0.69	3	64.6	322.0	18	0.2	0.2	0.2	12	0.11	0.037	347.0
IMA2783	Rock Pulp	5.2	23.3	235.2	7	0.1	12.2	32.7	103	0.85	29	296.3	1489.5	29	<0.1	0.2	1.6	10	0.23	0.176	1682.1
IMA2784	Rock Pulp	4.5	13.2	60.2	13	<0.1	7.7	10.8	93	0.70	8	43.1	254.8	31	<0.1	0.1	0.6	9	0.13	0.034	333.5
IMA2785	Rock Pulp	9.8	23.9	141.4	43	<0.1	12.1	24.4	78	0.86	20	111.5	812.2	30	0.2	0.1	1.0	12	0.22	0.095	812.8
IMA2786	Rock Pulp	4.1	15.9	100.7	85	<0.1	7.2	11.7	61	0.63	8	35.2	227.1	27	0.4	0.1	0.3	12	0.16	0.035	325.1
IMA2787	Rock Pulp	5.5	11.5	87.3	73	<0.1	7.9	10.4	58	0.61	8	56.0	249.1	23	0.4	0.1	0.6	12	0.14	0.031	247.2
IMA2788	Rock Pulp	13.5	57.0	2394.1	1581	1.0	18.9	24.7	100	0.89	17	119.5	822.1	27	10.2	0.5	1.5	11	0.25	0.084	820.5
IMA2789	Rock Pulp	7.5	51.8	175.8	56	0.2	10.9	28.9	69	1.05	16	242.4	1098.2	21	0.2	0.1	1.0	11	0.16	0.118	1079.0
IMA2790	Rock Pulp	10.4	40.5	216.9	41	0.2	8.9	33.2	49	0.86	25	581.9	724.2	23	<0.1	<0.1	1.4	11	0.09	0.072	683.4
IMA2791	Rock Pulp	8.1	69.0	1193.9	1349	0.5	12.1	56.0	87	0.83	45	407.9	1305.4	25	8.1	0.1	0.9	8	0.21	0.134	1332.6
IMA2792	Rock Pulp	2.3	20.9	27.6	8	<0.1	8.6	17.9	91	0.95	16	33.4	275.0	23	<0.1	0.2	0.4	10	0.20	0.037	383.8
IMA2793	Rock Pulp	3.5	7.7	54.7	10	<0.1	8.1	17.1	72	0.60	21	141.7	934.0	21	<0.1	<0.1	0.3	10	0.14	0.102	942.2
IMA2794	Rock Pulp	4.8	7.2	106.1	6	0.1	6.2	13.4	52	0.63	17	140.5	656.4	15	0.1	0.1	0.5	10	0.10	0.069	714.6
IMA2795	Rock Pulp	2.2	10.4	42.7	9	<0.1	7.1	7.3	76	0.60	5	50.7	230.5	29	<0.1	<0.1	0.1	11	0.18	0.029	284.5
IMA2796	Rock Pulp	3.3	10.2	57.3	13	<0.1	8.0	11.0	74	0.51	14	93.4	519.4	27	<0.1	<0.1	0.3	8	0.17	0.063	610.8
IMA2797	Rock Pulp	2.6	23.0	157.6	26	0.1	6.3	12.7	75	0.50	12	80.1	532.9	20	0.1	0.1	1.3	9	0.19	0.067	701.1
IMA2798	Rock Pulp	2.2	39.4	182.1	111	<0.1	8.4	26.6	44	0.66	23	74.8	480.8	19	0.7	0.1	0.2	8	0.09	0.086	844.3
IMA2799	Rock Pulp	4.8	9.5	24.5	7	<0.1	7.7	10.4	44	0.61	10	35.6	242.8	19	<0.1	0.1	0.1	10	0.08	0.032	338.8
IMA2800	Rock Pulp	2.2	11.0	25.3	8	<0.1	6.4	8.9	52	0.49	7	28.8	155.3	22	<0.1	<0.1	0.4	7	0.14	0.029	238.2
IMA2801	Rock Pulp	1.8	24.2	105.8	81	<0.1	7.0	4.6	212	0.90	2	19.0	108.2	30	0.7	0.2	0.1	13	0.47	0.016	158.7
IMA2802	Rock Pulp	4.2	17.4	64.1	17	<0.1	8.6	3.5	55	0.60	2	41.7	236.8	31	<0.1	0.2	0.1	13	0.17	0.033	173.1
IMA2803	Rock Pulp	4.0	6.0	35.1	7	<0.1	6.6	4.1	36	0.56	3	83.9	474.3	22	<0.1	<0.1	0.2	16	0.07	0.062	578.0
IMA2804	Rock Pulp	5.7	8.7	41.9	9	<0.1	6.7	9.0	31	0.60	7	68.1	389.8	22	<0.1	<0.1	0.4	11	0.07	0.054	467.7
IMA2805	Rock Pulp	14.2	11.1	35.7	6	<0.1	9.1	9.4	40	0.80	8	93.1	468.0	27	<0.1	0.3	0.5	13	0.10	0.065	536.3
IMA2806	Rock Pulp	8.9	25.1	414.9	238	<0.1	15.1	16.2	48	0.74	13	110.2	582.0	24	1.4	0.2	0.5	11	0.13	0.071	582.8
IMA2807	Rock Pulp	3.0	12.9	156.2	154	<0.1	7.6	6.5	64	0.70	4	66.7	451.0	28	1.0	<0.1	0.1	15	0.18	0.058	538.7
IMA2808	Rock Pulp	4.0	5.5	71.3	20	<0.1	7.0	3.1	41	0.52	3	71.7	460.7	22	<0.1	<0.1	0.2	12	0.09	0.058	527.2



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2779	Rock Pulp	68	0.06	579	0.074	3.00	0.041	3.92	1.1	64.1	205	0.7	9.8	6.3	0.6	<1	1	1.8	0.1	157.4	1.7
IMA2780	Rock Pulp	165	0.16	83	0.487	3.04	0.047	3.29	2.5	234.1	>2000	1.9	259.0	84.2	10.1	<1	4	11.1	1.7	165.1	7.0
IMA2781	Rock Pulp	103	0.10	708	0.271	3.56	0.052	4.30	0.9	185.1	1058	1.8	40.5	25.8	2.9	1	3	5.3	0.1	196.7	5.1
IMA2782	Rock Pulp	191	0.09	625	0.193	2.92	0.055	3.94	0.9	103.1	655	1.3	31.1	20.0	1.9	<1	2	3.6	0.2	167.1	2.8
IMA2783	Rock Pulp	107	0.12	623	0.347	3.17	0.055	3.60	1.7	206.0	>2000	1.6	101.6	41.1	4.7	<1	2	6.3	0.2	168.7	5.8
IMA2784	Rock Pulp	108	0.10	830	0.137	3.72	0.114	4.79	1.0	134.9	618	1.0	20.2	13.5	1.5	<1	2	4.0	0.1	198.3	3.7
IMA2785	Rock Pulp	100	0.13	703	0.366	3.75	0.082	4.01	1.7	208.6	1493	2.5	59.9	38.8	4.3	<1	3	6.7	0.3	187.3	5.8
IMA2786	Rock Pulp	117	0.10	785	0.263	3.83	0.099	4.49	1.9	167.0	612	1.6	20.2	22.6	2.4	<1	2	4.2	0.2	181.9	4.6
IMA2787	Rock Pulp	110	0.12	778	0.273	3.47	0.058	4.28	1.3	179.8	449	1.7	23.0	24.9	2.3	1	2	6.0	0.1	200.9	5.1
IMA2788	Rock Pulp	141	0.14	727	0.317	3.60	0.067	3.73	1.9	196.3	1499	1.7	59.9	34.1	3.9	2	3	5.6	0.5	170.4	5.5
IMA2789	Rock Pulp	111	0.20	602	0.257	4.17	0.119	3.93	1.9	139.8	1978	3.6	77.7	30.4	4.1	3	3	11.3	0.4	227.3	3.8
IMA2790	Rock Pulp	126	0.10	762	0.170	3.57	0.056	3.92	1.5	105.4	1262	1.8	68.1	21.2	3.6	<1	3	7.0	0.3	198.4	3.0
IMA2791	Rock Pulp	113	0.12	419	0.183	3.59	0.056	4.54	1.9	110.9	>2000	1.4	98.8	22.8	3.0	1	2	3.8	0.5	190.9	3.0
IMA2792	Rock Pulp	111	0.14	365	0.178	3.16	0.060	3.79	8.2	120.0	713	1.1	23.6	20.0	2.6	<1	1	4.1	0.5	167.3	3.3
IMA2793	Rock Pulp	109	0.15	560	0.219	3.63	0.049	3.41	1.9	128.2	1756	2.3	66.2	25.5	3.0	2	2	7.2	<0.1	195.0	3.5
IMA2794	Rock Pulp	105	0.19	588	0.284	4.18	0.040	2.37	1.7	141.3	1332	3.4	58.4	29.3	2.4	3	2	8.7	<0.1	204.7	3.8
IMA2795	Rock Pulp	97	0.14	787	0.116	3.77	0.057	3.58	1.8	144.1	519	1.5	21.9	10.8	1.1	<1	2	5.3	<0.1	209.0	4.0
IMA2796	Rock Pulp	98	0.11	704	0.159	3.35	0.059	3.10	1.5	146.5	1125	1.1	41.2	16.2	1.6	<1	2	4.2	<0.1	174.3	3.9
IMA2797	Rock Pulp	96	0.09	634	0.149	3.07	0.043	3.01	1.4	115.4	1295	0.8	42.5	17.6	1.7	<1	2	3.4	0.1	154.0	3.0
IMA2798	Rock Pulp	117	0.08	571	0.177	2.92	0.036	2.82	2.3	142.3	1548	1.2	43.2	17.4	1.8	<1	2	4.2	0.3	168.1	3.9
IMA2799	Rock Pulp	114	0.15	661	0.133	3.73	0.058	2.94	1.6	117.9	629	1.9	22.4	11.3	1.1	<1	2	6.5	<0.1	218.3	3.2
IMA2800	Rock Pulp	87	0.10	795	0.096	3.82	0.059	3.11	1.3	114.6	433	1.2	15.3	8.5	0.9	<1	2	2.9	<0.1	187.3	3.2
IMA2801	Rock Pulp	146	0.18	358	0.053	1.94	0.027	1.90	0.4	62.4	278	0.7	12.8	4.3	0.2	<1	2	2.4	0.1	87.2	1.7
IMA2802	Rock Pulp	133	0.15	755	0.195	3.95	0.147	3.80	0.6	169.8	315	2.5	19.4	16.7	1.8	<1	3	4.7	<0.1	232.0	4.6
IMA2803	Rock Pulp	98	0.16	691	0.282	5.21	0.059	2.87	0.8	257.9	1040	3.2	50.1	21.3	2.4	2	3	6.7	<0.1	217.7	7.0
IMA2804	Rock Pulp	109	0.14	741	0.226	4.26	0.059	3.04	0.3	191.9	843	2.5	36.8	18.0	2.0	2	2	5.7	0.1	241.4	5.3
IMA2805	Rock Pulp	118	0.16	756	0.286	4.28	0.094	3.17	0.7	214.5	994	3.0	49.0	25.7	2.8	2	3	6.9	0.2	267.7	6.1
IMA2806	Rock Pulp	108	0.14	739	0.270	3.58	0.074	2.93	0.7	176.1	1064	2.1	48.7	25.9	3.2	<1	2	4.8	0.3	209.0	5.0
IMA2807	Rock Pulp	105	0.13	670	0.258	3.57	0.070	2.85	0.5	138.3	999	1.2	40.5	22.3	2.3	1	2	4.5	0.1	185.5	3.7
IMA2808	Rock Pulp	97	0.15	684	0.279	4.58	0.057	3.27	0.7	235.8	1002	2.6	46.4	22.4	2.4	2	3	4.6	<0.1	209.2	7.1



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2779	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2780	Rock Pulp	0.07	<0.005	5	<0.5	1.9
IMA2781	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2782	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2783	Rock Pulp	<0.05	0.008	3	<0.5	0.7
IMA2784	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2785	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2786	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2787	Rock Pulp	<0.05	0.006	<1	<0.5	0.8
IMA2788	Rock Pulp	0.12	<0.005	<1	<0.5	1.0
IMA2789	Rock Pulp	0.05	<0.005	1	<0.5	1.1
IMA2790	Rock Pulp	<0.05	<0.005	2	<0.5	0.9
IMA2791	Rock Pulp	0.14	<0.005	1	<0.5	0.8
IMA2792	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2793	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2794	Rock Pulp	0.08	<0.005	<1	<0.5	0.9
IMA2795	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2796	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2797	Rock Pulp	<0.05	0.005	<1	<0.5	0.7
IMA2798	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2799	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2800	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2801	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2802	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2803	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2804	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2805	Rock Pulp	<0.05	<0.005	2	<0.5	1.1
IMA2806	Rock Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2807	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2808	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9



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Project: None Given
Report Date: October 27, 2018

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2809	Rock Pulp	4.2	17.6	133.2	135	<0.1	9.0	19.4	47	0.68	17	63.8	365.8	25	0.8	0.1	0.6	11	0.13	0.050	580.7
IMA2810	Rock Pulp	3.9	5.2	33.1	10	<0.1	6.7	2.8	46	0.64	3	57.9	330.5	21	<0.1	0.2	0.2	14	0.09	0.050	418.9
IMA2811	Rock Pulp	5.4	33.7	260.1	12	<0.1	16.4	19.4	114	1.00	12	451.9	1332.7	38	<0.1	0.2	0.6	14	0.42	0.138	1250.4
IMA2812	Rock Pulp	2.0	15.4	42.7	7	0.2	8.4	12.1	64	0.60	16	34.7	165.3	33	<0.1	0.2	0.6	12	0.23	0.027	243.7
IMA2813	Rock Pulp	3.0	13.7	41.6	5	0.1	8.4	12.0	51	0.61	39	88.5	464.9	28	<0.1	0.1	2.3	12	0.17	0.061	548.1
IMA2814	Rock Pulp	5.1	8.3	44.5	3	<0.1	9.2	8.7	32	0.44	20	84.8	490.5	28	<0.1	0.1	0.7	10	0.11	0.053	587.1
IMA2815	Rock Pulp	6.4	6.3	153.4	3	<0.1	8.2	7.7	18	0.65	5	149.0	707.8	15	<0.1	0.2	0.5	13	0.03	0.091	766.0
IMA2816	Rock Pulp	1.6	3.5	46.2	3	<0.1	6.9	1.5	16	0.33	1	23.5	124.2	15	<0.1	<0.1	<0.1	7	0.03	0.019	162.6
IMA2817	Rock Pulp	3.3	3.3	43.6	3	<0.1	5.7	2.0	19	0.42	1	53.9	276.8	19	<0.1	<0.1	0.1	12	0.03	0.039	293.1
IMA2818	Rock Pulp	4.1	5.4	101.4	2	<0.1	7.7	3.9	17	0.39	2	106.4	407.0	21	<0.1	<0.1	0.7	10	0.03	0.054	454.9
IMA2819	Rock Pulp	5.1	13.7	189.2	3	0.1	12.4	11.3	21	0.52	7	199.5	953.1	23	<0.1	0.2	0.9	10	0.07	0.102	936.4
IMA2820	Rock Pulp	4.1	19.5	109.1	25	<0.1	16.6	10.4	87	0.74	4	84.3	387.0	25	<0.1	0.1	0.2	12	0.15	0.042	370.9
IMA2821	Rock Pulp	1.7	64.0	79.2	130	0.2	18.1	12.2	137	2.96	2	46.9	110.9	44	0.4	0.1	0.7	42	0.07	0.036	126.7
IMA2822	Rock Pulp	4.0	9.4	34.9	4	<0.1	6.3	6.4	43	0.42	7	50.2	292.2	26	<0.1	0.1	0.2	8	0.11	0.044	375.1
IMA2823	Rock Pulp	3.7	5.5	20.1	7	<0.1	6.6	7.6	42	0.56	10	41.5	209.6	23	<0.1	<0.1	0.2	12	0.10	0.028	225.9
IMA2824	Rock Pulp	5.9	10.9	56.5	6	<0.1	11.6	31.2	102	0.76	38	387.5	1661.7	41	<0.1	0.1	0.3	14	0.44	0.185	1789.0
IMA2825	Rock Pulp	3.5	14.9	29.3	6	<0.1	7.7	17.9	53	0.54	21	99.1	570.7	24	<0.1	0.2	0.4	9	0.15	0.067	647.1
IMA2826	Rock Pulp	4.2	24.0	28.9	7	<0.1	7.2	11.6	50	0.52	13	83.2	430.4	24	<0.1	0.1	0.6	9	0.12	0.052	477.9
IMA2827	Rock Pulp	8.2	36.8	31.0	7	<0.1	7.2	9.4	35	0.56	6	91.4	482.4	24	<0.1	0.2	0.6	8	0.09	0.065	554.5
IMA2828	Rock Pulp	1.4	43.8	34.0	8	0.1	10.8	13.6	70	0.61	13	28.2	155.1	18	<0.1	<0.1	0.6	10	0.13	0.021	170.5
IMA2829	Rock Pulp	2.1	113.8	71.5	18	0.2	19.1	37.9	141	1.33	40	50.1	391.2	28	<0.1	0.2	0.8	23	0.27	0.059	529.3
IMA2830	Rock Pulp	2.7	180.8	125.6	117	0.2	26.1	24.0	257	1.96	20	44.2	143.2	41	0.3	0.2	0.4	49	0.24	0.039	173.2
IMA2831	Rock Pulp	4.8	19.7	110.0	9	<0.1	8.0	13.7	48	0.50	16	109.8	497.7	31	<0.1	0.1	0.4	9	0.18	0.068	646.9
IMA2832	Rock Pulp	3.4	5.7	51.1	4	<0.1	6.5	3.6	28	0.44	4	45.6	219.6	20	<0.1	<0.1	0.2	12	0.05	0.035	283.7
IMA2833	Rock Pulp	2.0	30.3	37.1	42	<0.1	39.8	14.1	245	2.31	16	12.1	52.5	44	0.2	0.2	0.2	60	0.54	0.026	70.9
IMA2834	Rock Pulp	8.4	31.1	228.2	7	0.2	14.3	25.5	39	1.20	19	392.6	1220.8	20	<0.1	0.3	1.5	14	0.05	0.152	1298.7
IMA2835	Rock Pulp	4.9	11.5	107.5	6	0.1	8.4	9.7	26	0.70	8	131.5	607.6	20	<0.1	0.2	0.6	11	0.04	0.072	618.2
IMA2836	Rock Pulp	3.9	7.5	106.7	5	<0.1	7.6	6.0	24	0.56	5	113.1	390.0	19	<0.1	<0.1	0.4	10	0.04	0.050	415.8
IMA2837	Rock Pulp	5.5	4.3	50.3	10	<0.1	7.8	9.6	57	0.70	21	81.3	324.0	16	<0.1	0.1	0.4	14	0.06	0.050	393.3
IMA2838	Rock Pulp	11.4	5.9	143.5	14	0.1	9.4	20.0	36	0.73	27	130.8	583.0	16	<0.1	0.2	0.8	16	0.04	0.086	704.6



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Project: None Given
Report Date: October 27, 2018

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Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
				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	
IMA2809	Rock Pulp			90	0.13	843	0.187	4.09	0.070	3.32	1.2	190.2	1052	1.6	33.7	18.6	2.0	<1	3	4.5	0.2	214.3	5.5
IMA2810	Rock Pulp			97	0.19	664	0.250	5.31	0.113	2.95	0.5	249.3	792	3.0	37.6	18.3	1.9	3	3	8.3	<0.1	238.3	6.9
IMA2811	Rock Pulp			120	0.08	745	0.251	3.26	0.071	2.95	1.1	129.9	>2000	1.5	104.9	31.6	4.3	2	5	3.9	0.3	185.9	3.9
IMA2812	Rock Pulp			83	0.14	841	0.122	4.44	0.130	2.75	0.6	117.1	458	1.6	18.2	9.5	1.2	<1	3	3.8	0.1	180.8	3.7
IMA2813	Rock Pulp			87	0.15	840	0.204	4.38	0.090	3.10	0.8	190.4	1029	2.3	43.6	18.3	2.2	<1	3	4.8	0.1	217.5	5.3
IMA2814	Rock Pulp			101	0.09	880	0.217	4.51	0.067	3.72	0.5	183.4	1086	1.9	40.0	21.4	2.2	2	2	2.5	<0.1	216.1	5.2
IMA2815	Rock Pulp			93	0.09	402	0.417	4.32	0.046	2.68	0.5	223.5	1448	3.1	59.4	39.7	5.0	2	3	5.2	0.3	183.1	7.0
IMA2816	Rock Pulp			72	0.07	502	0.143	4.27	0.050	2.78	0.2	111.2	282	1.5	11.1	10.6	1.2	2	2	2.1	<0.1	178.7	3.1
IMA2817	Rock Pulp			67	0.09	540	0.238	5.37	0.064	3.21	0.3	223.2	541	2.0	25.1	17.9	2.0	3	3	4.7	<0.1	215.2	6.3
IMA2818	Rock Pulp			76	0.06	560	0.211	4.46	0.050	2.97	0.3	154.8	846	1.8	36.0	18.6	2.1	2	2	2.9	<0.1	194.3	4.4
IMA2819	Rock Pulp			84	0.07	561	0.293	4.31	0.068	3.36	0.4	212.7	1727	1.9	67.2	27.3	3.5	<1	2	3.8	0.2	183.0	6.7
IMA2820	Rock Pulp			93	0.12	812	0.236	3.68	0.059	3.36	0.6	157.5	649	1.5	34.1	18.8	2.4	1	2	5.1	0.1	214.2	4.7
IMA2821	Rock Pulp			119	0.53	320	0.222	5.61	1.309	2.16	1.1	163.7	230	1.4	16.9	12.9	1.5	3	4	22.4	0.3	140.9	5.0
IMA2822	Rock Pulp			84	0.09	880	0.152	4.31	0.088	3.20	1.1	157.9	678	1.7	25.3	14.1	1.5	1	2	3.0	<0.1	210.5	4.7
IMA2823	Rock Pulp			102	0.18	893	0.173	5.60	0.097	3.40	0.9	187.8	421	4.3	21.7	12.2	1.4	2	3	6.7	<0.1	213.7	5.5
IMA2824	Rock Pulp			131	0.18	735	0.426	5.05	0.074	2.85	2.0	345.9	>2000	3.2	139.0	41.9	4.9	2	4	10.2	<0.1	173.7	9.8
IMA2825	Rock Pulp			90	0.12	832	0.237	3.89	0.066	3.00	1.2	196.0	1211	1.7	49.9	22.9	2.6	1	2	5.0	<0.1	185.9	6.0
IMA2826	Rock Pulp			117	0.11	868	0.172	3.80	0.094	2.46	1.1	132.0	881	1.3	36.4	17.2	2.2	2	2	3.7	0.1	161.5	4.3
IMA2827	Rock Pulp			98	0.08	769	0.164	3.46	0.077	2.98	1.4	137.3	998	1.3	43.2	17.3	2.0	1	2	3.8	0.2	182.1	4.3
IMA2828	Rock Pulp			133	0.10	569	0.120	2.51	0.097	2.58	1.9	154.0	309	0.8	14.2	10.1	1.2	1	2	2.6	0.2	114.8	4.6
IMA2829	Rock Pulp			146	0.19	168	0.161	3.27	0.384	2.94	2.4	180.0	987	1.2	35.2	14.8	1.9	<1	4	5.9	0.6	131.2	5.2
IMA2830	Rock Pulp			127	0.37	794	0.210	5.91	1.752	3.14	0.5	321.1	297	1.6	15.1	9.2	0.9	<1	7	10.8	0.2	214.3	8.9
IMA2831	Rock Pulp			85	0.08	895	0.255	3.99	0.074	2.12	1.3	181.4	1138	1.8	47.9	28.5	3.0	<1	2	3.7	0.1	162.4	5.1
IMA2832	Rock Pulp			82	0.07	617	0.347	4.32	0.071	2.13	0.4	185.8	474	2.2	20.4	29.6	3.1	1	2	2.4	<0.1	147.5	5.1
IMA2833	Rock Pulp			121	0.83	340	0.153	6.41	1.099	2.56	0.8	150.5	126	1.5	9.2	4.5	0.4	1	9	12.9	0.1	190.9	4.0
IMA2834	Rock Pulp			127	0.11	344	0.322	3.60	0.096	2.40	0.6	146.3	>2000	2.2	104.1	42.3	5.1	2	3	5.2	0.8	163.2	4.3
IMA2835	Rock Pulp			84	0.09	453	0.220	4.41	0.076	3.12	0.5	124.9	1130	2.2	53.9	24.9	3.0	1	2	3.5	0.3	193.5	3.5
IMA2836	Rock Pulp			93	0.08	459	0.174	4.78	0.074	3.02	0.3	119.6	767	1.9	34.2	16.1	2.0	2	2	3.8	0.2	225.2	3.6
IMA2837	Rock Pulp			106	0.15	316	0.263	4.97	0.063	2.73	0.5	158.7	717	3.1	34.8	22.6	2.8	2	3	5.2	0.1	199.8	4.5
IMA2838	Rock Pulp			139	0.13	312	0.466	4.25	0.047	2.68	0.9	211.6	1274	3.9	57.4	42.6	4.9	2	4	5.5	0.2	175.3	6.1



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2809	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2810	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2811	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2812	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2813	Rock Pulp	<0.05	0.006	<1	<0.5	0.9
IMA2814	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2815	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2816	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2817	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2818	Rock Pulp	<0.05	<0.005	1	<0.5	0.7
IMA2819	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2820	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2821	Rock Pulp	<0.05	<0.005	2	<0.5	0.6
IMA2822	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2823	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2824	Rock Pulp	0.06	<0.005	1	<0.5	0.9
IMA2825	Rock Pulp	0.06	<0.005	<1	<0.5	0.8
IMA2826	Rock Pulp	<0.05	0.005	<1	<0.5	0.8
IMA2827	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2828	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2829	Rock Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2830	Rock Pulp	0.06	<0.005	<1	<0.5	0.9
IMA2831	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2832	Rock Pulp	<0.05	<0.005	1	<0.5	0.8
IMA2833	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2834	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2835	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2836	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2837	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2838	Rock Pulp	<0.05	<0.005	1	<0.5	0.9



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	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	1	0.01	0.001	0.1
IMA2839	Rock Pulp	4.3	5.3	88.2	10	<0.1	7.2	11.7	33	0.62	14	78.4	379.4	18	<0.1	<0.1	0.6	12	0.04	0.052	415.4
IMA2840	Rock Pulp	6.7	8.1	100.8	11	<0.1	6.4	8.2	41	0.61	12	108.8	457.6	16	<0.1	<0.1	0.6	14	0.04	0.064	547.5
IMA2841	Rock Pulp	4.3	21.5	96.1	35	<0.1	8.8	10.7	52	0.72	14	103.5	375.0	15	0.2	0.1	0.4	13	0.07	0.049	401.2
IMA2842	Rock Pulp	15.9	80.1	458.5	217	0.9	14.1	24.8	60	1.58	18	787.5	2519.8	24	1.2	0.3	1.7	17	0.08	0.280	>2000
IMA2843	Rock Pulp	9.7	36.9	359.0	520	0.3	9.6	11.9	58	1.02	21	257.6	1029.1	21	3.2	0.3	0.6	17	0.08	0.123	1054.8
IMA2844	Rock Pulp	6.8	26.9	110.2	93	<0.1	6.6	5.2	44	0.70	8	83.1	440.9	17	0.4	<0.1	0.2	14	0.06	0.060	486.3
IMA2845	Rock Pulp	8.0	41.8	243.1	214	0.1	9.2	9.9	50	0.81	11	114.8	562.1	19	1.1	<0.1	0.3	16	0.06	0.075	653.3
IMA2846	Rock Pulp	12.1	171.8	280.4	197	0.2	9.0	13.5	70	0.91	16	158.1	694.8	20	0.7	0.2	0.5	13	0.07	0.081	811.8
IMA2847	Rock Pulp	14.9	73.2	176.0	27	0.2	15.2	44.7	123	1.35	64	198.0	765.7	30	<0.1	0.3	1.3	17	0.15	0.101	850.8
IMA2848	Rock Pulp	2.5	9.4	28.5	9	<0.1	4.8	2.7	78	0.67	7	16.2	83.1	22	<0.1	<0.1	0.1	7	0.07	0.016	157.5
IMA2849	Rock Pulp	3.6	41.7	91.7	4	<0.1	7.3	9.3	116	0.85	3	137.9	850.5	32	<0.1	<0.1	0.4	9	0.19	0.100	1029.8
IMA2850	Rock Pulp	3.6	29.0	193.0	8	<0.1	8.2	6.9	161	1.21	3	313.2	1181.5	30	<0.1	0.2	0.3	9	0.18	0.138	1508.3
IMA2851	Rock Pulp	11.1	49.4	168.2	91	0.1	13.6	42.9	69	0.91	62	132.6	606.8	19	0.2	0.2	1.2	13	0.07	0.073	792.4
IMA2852	Rock Pulp	7.2	140.8	461.6	424	0.4	12.6	22.0	87	1.10	11	272.5	929.7	18	2.2	0.1	0.9	13	0.12	0.114	999.7
IMA2853	Rock Pulp	6.1	87.1	307.0	337	0.2	8.9	10.9	46	0.72	9	88.3	359.6	18	1.7	<0.1	0.7	10	0.07	0.046	393.6
IMA2854	Rock Pulp	7.1	27.3	54.2	57	<0.1	6.3	9.8	42	0.68	14	17.1	74.1	20	0.2	<0.1	0.2	12	0.04	0.015	89.6
IMA2855	Rock Pulp	4.3	16.8	50.6	15	<0.1	6.8	4.1	108	0.80	4	40.2	235.2	24	<0.1	0.2	0.1	9	0.06	0.031	304.2
IMA2856	Rock Pulp	1.4	11.1	46.7	10	<0.1	5.2	2.8	72	0.79	2	36.1	162.9	25	<0.1	<0.1	<0.1	9	0.08	0.024	225.1
IMA2857	Rock Pulp	3.5	18.8	113.6	4	<0.1	7.0	8.6	85	0.80	6	42.5	244.2	24	<0.1	<0.1	<0.1	8	0.11	0.031	308.2
IMA2858	Rock Pulp	0.5	5.7	5.6	5	<0.1	8.9	2.5	17	1.06	5	6.4	40.2	23	<0.1	<0.1	<0.1	22	0.03	0.005	42.2
IMA2859	Rock Pulp	6.4	582.8	11.6	29	0.3	20.9	27.2	138	1.94	30	5.5	17.0	23	0.1	0.2	1.0	44	0.21	0.013	30.0
IMA2860	Rock Pulp	1.4	2.2	15.4	3	<0.1	4.7	1.2	22	0.37	2	6.9	30.1	13	<0.1	<0.1	<0.1	7	0.04	0.010	31.4
IMA2861	Rock Pulp	5.7	14.8	181.2	3	0.2	12.1	9.8	21	0.51	6	241.3	943.2	24	<0.1	0.2	0.8	10	0.06	0.096	970.9
IMA2862	Rock Pulp	2.4	44.1	56.5	10	0.2	17.0	15.0	157	1.54	16	109.5	457.6	24	<0.1	0.1	0.5	32	0.15	0.066	528.8
IMA2863	Rock Pulp	5.6	65.0	181.8	24	0.2	8.1	15.5	28	1.00	12	327.3	741.7	19	<0.1	0.2	1.5	11	0.08	0.086	863.7
IMA2864	Rock Pulp	4.7	260.2	103.6	53	0.4	5.8	8.2	53	0.69	10	42.7	210.2	16	0.1	0.1	0.9	9	0.12	0.029	267.4
IMA2865	Rock Pulp	5.5	4.2	127.3	2	<0.1	5.7	5.5	19	0.57	4	147.9	637.0	22	<0.1	0.2	0.5	12	0.03	0.080	718.7
IMA2866	Rock Pulp	7.7	43.1	324.9	135	0.5	12.1	31.2	36	1.38	21	1061.3	1322.1	27	0.8	0.5	3.3	11	0.12	0.114	1194.2
IMA2867	Rock Pulp	12.4	42.3	145.7	33	0.3	10.8	24.8	33	0.88	10	262.1	1183.2	24	<0.1	0.2	1.8	14	0.07	0.128	1376.4
IMA2868	Rock Pulp	3.6	8.0	39.5	2	<0.1	5.7	6.8	24	0.46	11	52.9	301.5	24	<0.1	0.1	0.7	12	0.05	0.042	368.2



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Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2839	Rock Pulp	108	0.12	341	0.294	4.26	0.052	2.64	0.6	161.8	736	2.8	32.4	24.5	3.0	1	2	5.0	0.2	177.6	5.0
IMA2840	Rock Pulp	129	0.12	339	0.343	4.12	0.050	2.38	0.6	242.5	976	2.8	43.8	26.5	3.0	1	3	5.3	<0.1	168.6	6.9
IMA2841	Rock Pulp	123	0.15	301	0.208	3.85	0.054	2.52	0.5	169.5	737	2.6	35.6	17.1	2.0	2	3	5.6	0.1	155.2	4.8
IMA2842	Rock Pulp	189	0.17	288	0.509	3.46	0.049	2.38	1.3	290.9	>2000	4.1	215.0	65.5	8.9	2	5	9.1	0.9	152.0	8.7
IMA2843	Rock Pulp	144	0.19	356	0.421	3.83	0.055	2.57	0.6	300.9	1935	3.5	93.6	38.2	4.7	2	4	7.6	0.4	178.6	8.8
IMA2844	Rock Pulp	137	0.17	357	0.339	3.80	0.045	2.47	0.4	311.2	913	3.2	44.1	25.4	2.9	2	3	6.6	<0.1	181.7	9.0
IMA2845	Rock Pulp	136	0.18	366	0.420	3.78	0.046	2.83	0.5	298.8	1164	3.1	56.0	33.3	3.9	1	4	7.7	0.1	171.8	8.4
IMA2846	Rock Pulp	190	0.15	319	0.296	2.78	0.057	2.16	0.5	177.2	1426	2.4	59.3	27.6	3.4	1	3	6.1	0.2	130.7	5.0
IMA2847	Rock Pulp	199	0.22	378	0.335	3.42	0.110	2.40	0.6	208.6	1586	2.4	67.2	30.4	3.7	2	4	7.8	0.4	160.4	5.6
IMA2848	Rock Pulp	104	0.10	662	0.091	3.22	0.055	2.82	0.3	92.0	274	0.9	9.6	8.6	1.0	<1	1	3.9	<0.1	176.8	2.5
IMA2849	Rock Pulp	129	0.10	797	0.343	3.48	0.172	2.51	1.1	209.2	1861	1.2	61.3	32.5	3.8	<1	2	3.9	0.2	128.1	5.8
IMA2850	Rock Pulp	137	0.16	683	0.292	3.29	0.055	2.91	0.6	141.8	>2000	1.4	89.1	32.4	3.9	<1	2	5.7	0.2	184.3	3.9
IMA2851	Rock Pulp	155	0.16	306	0.328	3.02	0.042	2.25	0.5	173.1	1418	2.4	57.8	32.4	3.8	2	4	6.9	0.2	144.8	4.7
IMA2852	Rock Pulp	139	0.24	385	0.297	3.73	0.037	2.29	1.1	161.7	1870	3.3	86.8	30.7	3.6	3	3	9.8	0.3	182.3	4.5
IMA2853	Rock Pulp	140	0.17	385	0.148	3.29	0.043	2.57	0.5	101.1	728	2.3	34.9	15.3	1.7	2	2	5.6	0.1	156.9	2.7
IMA2854	Rock Pulp	103	0.19	491	0.108	4.65	0.048	3.07	0.3	131.7	160	2.6	8.6	7.2	0.7	2	3	7.1	<0.1	220.6	3.5
IMA2855	Rock Pulp	124	0.13	685	0.220	3.31	0.057	2.63	0.5	123.8	545	1.3	26.0	19.6	2.4	<1	2	5.0	<0.1	168.3	3.4
IMA2856	Rock Pulp	107	0.15	750	0.117	3.45	0.055	3.11	0.3	109.5	403	1.1	16.0	10.3	1.2	<1	2	4.4	<0.1	208.7	3.0
IMA2857	Rock Pulp	128	0.11	670	0.242	3.31	0.055	2.61	0.4	120.2	563	1.1	27.6	21.1	2.4	<1	2	3.6	0.2	192.1	3.2
IMA2858	Rock Pulp	83	0.18	839	0.072	4.06	0.052	3.04	0.8	133.2	80	1.1	6.0	5.8	0.5	<1	3	5.6	<0.1	159.2	3.4
IMA2859	Rock Pulp	125	0.53	349	0.117	4.23	0.494	2.06	0.6	109.8	56	1.3	4.8	4.5	0.4	2	5	20.6	0.2	139.6	3.0
IMA2860	Rock Pulp	77	0.08	422	0.087	4.72	0.056	2.60	0.2	88.3	50	2.0	3.9	5.1	0.5	2	1	2.4	<0.1	199.7	2.6
IMA2861	Rock Pulp	82	0.07	574	0.277	4.16	0.069	3.16	0.5	214.4	1762	1.8	68.6	27.3	3.6	2	3	4.0	0.2	202.8	6.1
IMA2862	Rock Pulp	124	0.35	838	0.218	4.63	0.056	3.34	1.0	198.4	1014	1.9	42.2	14.3	1.7	1	6	11.4	0.1	241.4	5.7
IMA2863	Rock Pulp	111	0.10	453	0.224	4.25	0.046	3.09	0.8	147.5	1554	2.4	72.9	30.9	3.9	2	3	6.3	0.6	200.7	4.2
IMA2864	Rock Pulp	124	0.13	363	0.138	4.33	0.056	2.86	0.4	105.4	489	2.0	20.0	12.4	1.4	1	2	4.4	0.2	171.8	2.9
IMA2865	Rock Pulp	100	0.07	578	0.321	4.34	0.055	2.70	0.5	218.0	1316	2.2	51.4	30.1	3.4	<1	3	5.2	0.2	207.4	6.2
IMA2866	Rock Pulp	146	0.07	217	0.296	3.48	0.062	3.71	1.1	154.8	>2000	3.4	148.5	44.5	6.7	1	2	7.1	1.0	178.8	4.8
IMA2867	Rock Pulp	125	0.10	663	0.336	3.38	0.054	3.13	1.1	184.2	>2000	3.2	102.3	45.8	6.5	1	3	4.9	0.5	172.9	5.5
IMA2868	Rock Pulp	92	0.09	791	0.275	4.47	0.067	3.28	0.6	180.5	658	2.5	29.8	22.5	2.5	1	3	3.9	0.1	168.8	5.7



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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2839	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2840	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2841	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2842	Rock Pulp	<0.05	<0.005	3	<0.5	1.1
IMA2843	Rock Pulp	0.08	<0.005	<1	<0.5	1.0
IMA2844	Rock Pulp	0.06	<0.005	<1	<0.5	0.9
IMA2845	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2846	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2847	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2848	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2849	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2850	Rock Pulp	<0.05	<0.005	2	<0.5	0.8
IMA2851	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2852	Rock Pulp	0.06	<0.005	2	<0.5	1.0
IMA2853	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2854	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2855	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2856	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2857	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2858	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2859	Rock Pulp	0.06	<0.005	<1	<0.5	0.7
IMA2860	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2861	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2862	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2863	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2864	Rock Pulp	0.10	<0.005	<1	<0.5	0.8
IMA2865	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2866	Rock Pulp	0.06	<0.005	1	<0.5	1.2
IMA2867	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2868	Rock Pulp	<0.05	<0.005	<1	<0.5	1.1



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Project: None Given
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	%	%	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
IMA2869	Rock Pulp	5.3	9.7	231.8	4	<0.1	10.1	19.7	24	0.99	10	323.7	1359.2	19	<0.1	0.3	1.4	12	0.03	0.144	1504.5
IMA2870	Rock Pulp	2.9	11.2	112.5	3	<0.1	8.1	9.6	19	0.44	8	180.5	790.4	21	<0.1	0.1	1.0	10	0.03	0.079	859.8
IMA2871	Rock Pulp	3.4	21.2	101.8	25	<0.1	15.6	12.7	91	0.73	5	76.7	351.5	24	<0.1	0.1	0.3	12	0.16	0.044	348.8
IMA2872	Rock Pulp	3.2	111.6	12.7	23	0.2	51.0	21.1	523	4.92	15	10.0	39.8	20	<0.1	0.3	0.2	114	0.13	0.047	70.5
IMA2873	Rock Pulp	7.4	33.1	41.5	5	<0.1	7.5	16.2	30	0.79	18	68.8	363.8	24	<0.1	0.2	0.5	8	0.09	0.042	314.7
IMA2874	Rock Pulp	0.9	3.9	0.8	3	<0.1	6.0	1.1	49	0.36	2	0.3	0.4	5	<0.1	<0.1	<0.1	3	0.07	0.002	1.7
IMA2875	Rock Pulp	<0.1	2.3	3.0	84	0.7	1417.0	108.8	1907	8.04	744	<0.1	0.2	424	<0.1	1.4	0.1	207	5.98	<0.001	1.0
IMA2876	Rock Pulp	9.3	11.3	11.5	45	1.4	179.7	47.7	670	5.44	203	1.0	5.9	336	<0.1	0.6	0.2	102	3.80	0.051	51.6
IMA2877	Rock Pulp	12.0	85.7	4.7	51	0.7	170.9	39.9	1042	4.97	122	0.9	6.9	629	<0.1	0.4	0.1	98	5.96	0.119	82.7
IMA2878	Rock Pulp	3.0	38.5	6.0	52	0.6	139.2	38.7	802	4.72	124	0.9	6.1	596	0.1	0.6	<0.1	110	5.09	0.225	72.4
IMA2879	Rock Pulp	23.6	40.5	5.5	67	0.4	183.2	49.2	947	5.54	83	0.7	4.2	488	<0.1	0.4	0.1	119	5.20	0.119	44.6



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2869	Rock Pulp	129	0.09	422	0.270	4.08	0.043	2.37	0.6	146.2	>2000	3.2	120.2	33.4	4.1	2	3	7.7	0.6	176.8	4.1
IMA2870	Rock Pulp	82	0.05	545	0.207	3.70	0.054	2.76	0.4	143.9	1486	1.7	61.4	23.1	2.7	1	2	3.2	0.1	155.4	4.3
IMA2871	Rock Pulp	91	0.11	777	0.246	3.35	0.062	3.14	0.5	137.4	592	1.8	34.4	19.7	2.2	<1	2	4.7	0.1	184.4	3.8
IMA2872	Rock Pulp	137	1.05	933	0.429	6.70	0.047	3.80	1.0	356.0	135	3.0	11.4	11.5	0.9	4	17	32.0	0.2	273.6	10.4
IMA2873	Rock Pulp	102	0.06	517	0.187	3.58	0.075	4.00	1.0	145.0	537	1.5	32.4	17.9	2.0	<1	2	2.7	0.5	176.1	4.5
IMA2874	Rock Pulp	167	0.02	7	0.010	0.11	0.021	0.03	<0.1	30.2	3	0.2	2.5	0.4	<0.1	<1	<1	2.2	<0.1	0.7	0.9
IMA2875	Rock Pulp	1767	12.52	35	0.009	1.74	0.194	0.11	1.1	13.2	2	0.2	3.9	<0.1	<0.1	<1	16	25.9	<0.1	2.6	0.4
IMA2876	Rock Pulp	339	4.50	111	0.049	6.73	4.286	0.51	4.0	100.1	98	0.2	7.6	0.4	<0.1	<1	16	13.8	2.6	4.6	2.6
IMA2877	Rock Pulp	279	5.57	173	0.041	6.04	3.892	0.29	2.6	80.8	152	0.2	8.1	0.4	<0.1	<1	21	12.3	1.0	4.3	2.2
IMA2878	Rock Pulp	335	4.66	220	0.058	5.11	3.375	0.40	2.7	70.7	137	0.7	8.0	0.4	<0.1	<1	18	4.4	0.4	8.1	1.7
IMA2879	Rock Pulp	392	5.74	117	0.062	5.97	3.953	0.24	2.5	74.0	84	0.3	7.7	0.4	<0.1	<1	22	11.8	0.2	3.1	2.0



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN18002871.1

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	
IMA2869	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2870	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2871	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2872	Rock Pulp	0.08	<0.005	<1	<0.5	1.5
IMA2873	Rock Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2874	Rock Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2875	Rock Pulp	0.07	<0.005	<1	6.7	<0.5
IMA2876	Rock Pulp	0.06	<0.005	<1	2.0	<0.5
IMA2877	Rock Pulp	<0.05	<0.005	<1	2.8	<0.5
IMA2878	Rock Pulp	0.08	<0.005	<1	1.7	<0.5
IMA2879	Rock Pulp	<0.05	<0.005	<1	1.8	<0.5



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Project: None Given
Report Date: October 27, 2018

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QUALITY CONTROL REPORT

VAN18002871.1

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																					
IMA2706	Rock Pulp	7.6	35.0	164.8	23	0.1	5.5	13.3	40	0.74	7	175.1	844.8	30	<0.1	0.2	0.6	13	0.09	0.108	954.3
REP IMA2706	QC	7.7	35.5	163.4	20	<0.1	5.5	14.6	39	0.74	8	172.7	846.0	31	<0.1	0.1	0.6	14	0.11	0.110	994.2
IMA2724	Rock Pulp	5.7	31.6	158.3	12	<0.1	9.8	8.3	85	0.84	4	132.9	710.1	26	<0.1	0.2	0.5	14	0.16	0.081	810.0
REP IMA2724	QC	6.0	31.4	156.6	12	<0.1	9.5	8.2	84	0.84	3	132.3	699.5	26	<0.1	<0.1	0.5	14	0.15	0.077	811.7
IMA2742	Rock Pulp	1.7	3.8	107.9	5	<0.1	5.1	2.3	26	0.38	1	66.0	246.3	18	<0.1	<0.1	0.2	14	0.02	0.028	249.2
REP IMA2742	QC	1.8	3.7	112.2	4	<0.1	4.7	2.4	27	0.38	2	66.2	253.1	17	<0.1	0.1	0.3	14	0.02	0.028	252.0
IMA2778	Rock Pulp	2.3	13.4	74.4	44	<0.1	8.7	11.2	63	0.71	8	10.7	67.9	25	0.3	<0.1	0.4	9	0.11	0.014	157.3
REP IMA2778	QC	2.7	12.7	73.6	40	<0.1	8.9	11.2	69	0.71	8	9.7	64.3	24	0.3	0.1	0.3	9	0.13	0.015	153.4
IMA2814	Rock Pulp	5.1	8.3	44.5	3	<0.1	9.2	8.7	32	0.44	20	84.8	490.5	28	<0.1	0.1	0.7	10	0.11	0.053	587.1
REP IMA2814	QC	4.9	8.6	43.4	3	<0.1	9.6	9.0	37	0.44	17	83.9	504.8	30	<0.1	0.1	0.8	10	0.12	0.059	610.8
IMA2850	Rock Pulp	3.6	29.0	193.0	8	<0.1	8.2	6.9	161	1.21	3	313.2	1181.5	30	<0.1	0.2	0.3	9	0.18	0.138	1508.3
REP IMA2850	QC	3.8	31.3	201.8	10	<0.1	8.5	7.2	162	1.24	4	322.9	1227.3	31	<0.1	0.2	0.3	10	0.19	0.139	1500.5
Reference Materials																					
STD OREAS25A-4A	Standard	2.1	30.5	24.0	39	<0.1	45.1	7.4	481	6.55	11	2.7	13.6	44	<0.1	0.6	0.3	161	0.25	0.046	18.0
STD OREAS25A-4A	Standard	2.4	35.1	24.9	45	<0.1	45.9	8.0	513	6.82	10	2.8	15.1	50	<0.1	0.7	0.4	175	0.28	0.049	19.1
STD OREAS25A-4A	Standard	2.3	33.8	23.7	38	<0.1	46.0	7.3	485	6.42	10	2.8	14.7	43	<0.1	0.6	0.3	158	0.31	0.045	20.9
STD OREAS25A-4A	Standard	2.1	34.4	25.3	43	<0.1	46.5	8.1	454	6.48	9	3.1	17.4	46	<0.1	0.6	0.4	155	0.30	0.052	18.4
STD OREAS25A-4A	Standard	2.3	37.4	23.7	39	<0.1	44.9	7.7	454	6.31	10	2.7	14.2	42	<0.1	0.7	0.3	157	0.27	0.044	18.8
STD OREAS25A-4A	Standard	2.2	35.8	23.8	41	<0.1	44.2	7.4	457	6.24	10	2.8	15.3	45	<0.1	0.5	0.4	158	0.27	0.047	20.5
STD OREAS25A-4A	Standard	2.4	36.6	25.1	44	<0.1	45.8	8.0	518	7.06	11	3.0	15.7	50	<0.1	0.7	0.3	169	0.31	0.053	21.6
STD OREAS45E	Standard	2.9	779.5	18.7	51	0.3	483.6	56.5	593	23.75	17	2.4	12.7	17	<0.1	1.0	0.3	333	0.06	0.034	10.5
STD OREAS45E	Standard	2.3	814.6	18.4	45	0.3	503.2	58.5	606	24.39	17	2.6	12.6	16	<0.1	1.0	0.3	341	0.07	0.034	10.8
STD OREAS45E	Standard	2.4	771.8	18.1	44	0.3	479.3	55.1	551	23.71	16	2.5	12.5	16	<0.1	0.9	0.3	319	0.06	0.032	10.9
STD OREAS45E	Standard	2.5	801.2	20.2	48	0.3	497.3	62.9	580	23.41	18	2.7	14.4	17	<0.1	1.1	0.3	346	0.07	0.034	10.9
STD OREAS45E	Standard	2.5	756.6	17.9	44	0.3	455.1	56.4	535	23.78	17	2.5	13.4	17	<0.1	1.0	0.4	319	0.07	0.031	10.8
STD OREAS45E	Standard	2.3	782.9	18.3	47	0.3	495.4	59.3	570	26.33	18	2.5	13.0	16	<0.1	1.1	0.3	341	0.07	0.034	9.4
STD OREAS25A-4A Expected		2.55	33.9	25.2	44.4		45.8	8.2	470	6.6	9.94	2.94	15.8	48.5		0.67	0.35	157	0.309	0.048	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



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Project: None Given
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QUALITY CONTROL REPORT

VAN18002871.1

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																					
IMA2706	Rock Pulp	56	0.11	856	0.234	4.21	0.096	3.67	1.3	171.6	1696	2.5	66.9	26.0	3.0	2	3	5.2	0.2	161.3	5.0
REP IMA2706	QC	56	0.11	935	0.242	4.45	0.095	3.73	1.3	185.4	1795	2.3	65.5	27.1	3.3	<1	3	6.0	0.2	160.7	5.0
IMA2724	Rock Pulp	146	0.16	731	0.398	3.51	0.060	3.33	1.6	243.3	1467	2.1	75.7	40.2	4.6	1	2	5.5	0.1	156.4	6.9
REP IMA2724	QC	145	0.16	736	0.370	3.50	0.059	3.23	1.5	226.9	1485	2.3	73.6	37.3	3.9	1	2	5.4	0.1	152.5	6.6
IMA2742	Rock Pulp	117	0.06	450	0.191	4.53	0.075	2.86	0.2	184.3	472	1.6	26.5	13.8	1.6	1	2	7.0	<0.1	144.0	5.2
REP IMA2742	QC	117	0.06	461	0.179	4.58	0.074	2.62	0.3	192.2	470	1.5	26.4	13.1	1.5	1	2	7.4	<0.1	148.2	5.6
IMA2778	Rock Pulp	163	0.14	945	0.109	4.20	0.057	4.97	1.6	143.9	265	1.8	8.2	9.0	0.9	2	2	5.2	<0.1	215.0	3.9
REP IMA2778	QC	168	0.14	917	0.114	4.16	0.062	4.76	1.5	135.9	258	1.7	7.7	8.6	0.9	1	3	5.6	<0.1	201.9	3.6
IMA2814	Rock Pulp	101	0.09	880	0.217	4.51	0.067	3.72	0.5	183.4	1086	1.9	40.0	21.4	2.2	2	2	2.5	<0.1	216.1	5.2
REP IMA2814	QC	96	0.10	937	0.240	4.50	0.075	4.01	0.6	179.4	1158	1.7	42.2	23.2	2.6	2	2	2.9	<0.1	219.7	5.4
IMA2850	Rock Pulp	137	0.16	683	0.292	3.29	0.055	2.91	0.6	141.8	>2000	1.4	89.1	32.4	3.9	<1	2	5.7	0.2	184.3	3.9
REP IMA2850	QC	141	0.16	690	0.300	3.27	0.057	2.90	0.5	152.4	>2000	1.4	93.5	33.6	4.1	1	2	6.4	0.2	195.8	4.1
Reference Materials																					
STD OREAS25A-4A	Standard	100	0.31	140	0.958	8.59	0.109	0.49	2.1	147.5	41	3.7	9.4	18.5	1.3	<1	12	35.2	<0.1	50.3	4.1
STD OREAS25A-4A	Standard	118	0.31	152	0.998	8.51	0.120	0.49	1.9	153.0	45	4.0	10.1	20.2	1.5	1	12	36.6	<0.1	53.7	4.1
STD OREAS25A-4A	Standard	111	0.32	148	0.867	8.74	0.111	0.51	1.7	145.7	46	3.6	9.3	18.0	1.3	<1	12	40.2	<0.1	58.5	3.9
STD OREAS25A-4A	Standard	119	0.35	147	0.884	8.79	0.125	0.49	2.0	156.1	43	4.0	9.7	19.2	1.4	<1	12	39.3	<0.1	61.6	4.2
STD OREAS25A-4A	Standard	118	0.28	138	0.932	8.13	0.117	0.46	1.7	137.8	40	3.7	9.6	18.4	1.3	<1	12	35.9	<0.1	53.2	3.8
STD OREAS25A-4A	Standard	109	0.36	137	0.894	8.53	0.130	0.46	1.7	140.5	47	3.6	10.4	18.3	1.4	<1	12	38.4	<0.1	54.4	4.1
STD OREAS25A-4A	Standard	120	0.36	158	1.047	9.38	0.120	0.52	2.2	165.2	48	3.9	10.6	21.7	1.6	1	13	39.7	<0.1	64.7	4.4
STD OREAS45E	Standard	974	0.16	236	0.564	6.95	0.050	0.34	1.0	94.0	24	1.2	7.7	6.1	0.5	<1	91	8.1	<0.1	20.6	3.1
STD OREAS45E	Standard	1092	0.16	255	0.545	7.13	0.054	0.34	1.0	93.3	25	1.4	7.4	5.9	0.5	<1	95	7.3	<0.1	22.2	2.9
STD OREAS45E	Standard	1028	0.16	242	0.519	6.99	0.051	0.34	0.9	90.7	24	1.3	7.3	5.6	0.5	<1	92	6.4	<0.1	21.1	2.7
STD OREAS45E	Standard	1051	0.16	266	0.567	6.77	0.057	0.34	1.1	98.0	23	1.5	8.1	6.4	0.5	<1	95	7.1	<0.1	23.2	3.1
STD OREAS45E	Standard	932	0.17	246	0.542	6.70	0.064	0.33	1.1	95.6	24	1.2	8.7	6.7	0.6	<1	91	6.8	<0.1	20.2	2.9
STD OREAS45E	Standard	1003	0.17	256	0.556	6.92	0.055	0.36	1.0	98.6	22	1.4	6.7	6.1	0.5	<1	89	7.8	<0.1	21.4	2.8
STD OREAS25A-4A Expected		115	0.327	147	0.977	8.87	0.134	0.482	2	155	48.9	4.06	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



Bureau Veritas Commodities Canada Ltd.
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: October 27, 2018

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QUALITY CONTROL REPORT

VAN18002871.1

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						
IMA2706	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
REP IMA2706	QC	<0.05	<0.005	<1	<0.5	1.1
IMA2724	Rock Pulp	<0.05	<0.005	<1	<0.5	0.9
REP IMA2724	QC	<0.05	<0.005	<1	<0.5	0.8
IMA2742	Rock Pulp	<0.05	<0.005	<1	<0.5	0.7
REP IMA2742	QC	<0.05	<0.005	<1	<0.5	0.7
IMA2778	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
REP IMA2778	QC	<0.05	<0.005	<1	<0.5	1.0
IMA2814	Rock Pulp	<0.05	<0.005	<1	<0.5	1.0
REP IMA2814	QC	<0.05	<0.005	<1	<0.5	1.1
IMA2850	Rock Pulp	<0.05	<0.005	2	<0.5	0.8
REP IMA2850	QC	<0.05	<0.005	<1	<0.5	0.9
Reference Materials						
STD OREAS25A-4A	Standard	0.13	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.06	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.12	<0.005	3	<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 OREAS25A-4A	Standard	0.09	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.08	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.11	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	0.08	<0.005	3	<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 OREAS25A-4A Expected		0.09		2.5		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.15



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Project: None Given
Report Date: October 27, 2018

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QUALITY CONTROL REPORT

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		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	0.2	<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	0.5	<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	<0.1	<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	0.2	<1	<0.1	<0.1	<1	<0.01	<0.001	0.2	
BLK	Blank	<0.1	0.4	<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	0.1	<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	



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Project: None Given
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QUALITY CONTROL REPORT

VAN18002871.1

		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
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	<0.1	<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	<0.1	<0.1
BLK	Blank	3	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.1	<0.1
BLK	Blank	2	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.5	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.2	<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	<0.1	<0.1



BUREAU VERITAS MINERAL LABORATORIES
Canada

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

Project: None Given
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QUALITY CONTROL REPORT

VAN18002871.1

		MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 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



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

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: April 23, 2019
Report Date: April 25, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN19000899.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 24

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	24	Sorting, labeling and boxing samples received as pulps			VAN
MA200	24	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	24	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS


KERRY JAY
Geochem Project Specialist

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.

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Project: None Given
Report Date: April 25, 2019

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CERTIFICATE OF ANALYSIS

VAN19000899.1

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	0.1	1	0.01	0.001	
IMA2880	Pulp	1.9	19.0	36.7	5	<0.1	5.3	9.4	124	0.92	7	85.8	522.5	22	<0.1	0.3	0.3	11	0.09	0.058	598.0
IMA2881	Pulp	1.5	52.1	32.0	3	<0.1	5.3	2.9	139	0.83	2	98.6	502.0	23	<0.1	0.2	0.3	14	0.09	0.054	585.0
IMA2882	Pulp	10.7	540.3	379.9	1157	0.9	15.8	32.1	110	1.54	18	577.2	1780.9	19	8.5	0.6	2.3	16	0.65	0.170	1806.9
IMA2883	Pulp	6.2	147.3	112.9	450	0.4	9.3	14.2	95	0.96	6	328.6	1307.9	15	3.6	0.3	0.5	13	0.62	0.136	1281.6
IMA2884	Pulp	1.1	402.7	24.5	44	0.2	11.2	5.4	85	1.41	6	2.4	8.0	9	0.3	0.2	<0.1	19	0.04	0.005	22.2
IMA2885	Pulp	0.8	4.0	27.5	3	<0.1	2.2	2.1	69	0.52	2	16.9	84.9	21	<0.1	0.1	<0.1	8	0.07	0.010	94.8
IMA2886	Pulp	1.1	4.0	29.4	4	<0.1	3.8	2.8	60	0.48	2	31.3	158.1	19	<0.1	<0.1	<0.1	9	0.06	0.019	195.9
IMA2887	Pulp	1.4	12.6	85.4	5	<0.1	4.9	6.5	125	0.71	6	104.0	651.2	23	<0.1	0.2	0.2	13	0.17	0.068	783.1
IMA2888	Pulp	3.0	12.0	55.7	3	<0.1	4.0	4.0	112	0.85	6	49.7	338.3	26	<0.1	0.2	0.2	11	0.20	0.044	451.3
IMA2889	Pulp	2.8	15.1	25.0	3	<0.1	3.7	2.6	99	0.69	4	48.2	323.9	24	<0.1	<0.1	0.1	13	0.13	0.035	364.3
IMA2890	Pulp	1.1	19.6	27.8	6	<0.1	5.0	5.8	148	1.03	3	22.4	125.4	23	<0.1	0.1	0.2	17	0.09	0.015	173.6
IMA2891	Pulp	3.8	17.9	311.0	108	<0.1	10.6	15.2	104	0.89	10	184.8	1029.5	27	0.5	0.2	0.5	15	0.22	0.105	1172.1
IMA2892	Pulp	3.1	20.5	119.8	7	<0.1	8.2	10.4	100	0.86	3	118.4	714.0	28	<0.1	0.1	0.2	9	0.16	0.070	764.3
IMA2893	Pulp	2.7	16.1	168.6	93	<0.1	8.8	5.9	84	0.75	2	52.7	303.6	23	0.4	0.1	0.2	10	0.06	0.035	362.2
IMA2894	Pulp	7.7	68.3	1058.9	714	0.3	87.1	16.9	85	1.38	2	259.0	1145.3	33	3.8	0.2	0.3	14	0.27	0.111	1183.5
IMA2895	Pulp	6.4	20.1	150.7	118	<0.1	6.6	13.7	35	0.56	9	69.9	301.0	24	0.5	0.1	0.5	8	0.08	0.033	352.6
IMA2896	Pulp	29.7	56.9	980.0	1254	0.5	11.7	38.3	35	0.96	27	314.0	946.7	16	8.2	0.3	0.8	13	0.06	0.101	982.2
IMA2897	Pulp	4.6	13.6	217.1	258	0.1	6.8	10.0	66	0.69	10	62.8	414.5	25	1.6	0.2	0.3	9	0.09	0.049	495.9
IMA2898	Pulp	1.9	285.3	28.3	3	0.2	5.1	8.3	78	0.74	6	60.0	354.6	21	<0.1	0.2	0.2	11	0.08	0.039	427.8
IMA2899	Pulp	1.7	124.1	95.8	4	0.1	4.7	10.1	161	1.00	6	108.8	726.8	21	<0.1	0.2	0.3	13	0.12	0.082	892.9
IMA2900	Pulp	2.2	32.1	136.2	6	<0.1	4.6	6.2	132	0.95	<1	107.3	726.5	20	<0.1	0.1	0.3	17	0.09	0.070	857.5
IMA2901	Pulp	1.7	18.5	90.1	4	<0.1	4.4	7.1	144	0.87	9	116.5	796.0	21	<0.1	0.1	0.4	13	0.11	0.079	977.1
IMA2902	Pulp	16.8	35.0	356.1	79	0.3	16.6	21.8	144	2.37	8	427.0	1721.2	22	0.2	0.4	1.6	17	0.11	0.154	1658.3
IMA2903	Pulp	10.1	20.2	554.1	384	<0.1	9.8	14.2	67	1.64	5	343.0	1536.6	19	2.2	0.2	0.6	17	0.12	0.147	1535.4



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: April 25, 2019

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CERTIFICATE OF ANALYSIS

VAN19000899.1

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	
IMA2880	Pulp	72	0.15	664	0.149	3.50	0.054	4.13	2.9	164.4	1088	1.5	46.3	17.0	2.0	<1	2	5.9	0.1	174.6	4.6
IMA2881	Pulp	98	0.13	698	0.200	3.35	0.057	4.02	1.5	162.2	1053	1.4	42.4	21.0	2.6	1	2	5.6	<0.1	172.7	5.1
IMA2882	Pulp	193	0.38	350	0.295	4.20	0.032	2.54	0.7	207.9	>2000	3.8	206.1	35.6	4.4	3	4	19.9	0.7	187.9	5.7
IMA2883	Pulp	105	0.37	371	0.288	4.10	0.028	2.49	0.7	203.3	>2000	3.5	146.3	26.4	2.8	4	4	15.4	0.2	180.9	6.3
IMA2884	Pulp	129	0.45	116	0.053	1.73	0.352	0.58	0.2	49.7	40	0.7	2.4	1.4	0.1	<1	3	7.5	<0.1	32.0	1.3
IMA2885	Pulp	45	0.09	710	0.058	3.48	0.064	4.57	0.6	86.6	161	0.6	7.7	5.1	0.5	<1	<1	2.3	<0.1	170.1	2.6
IMA2886	Pulp	72	0.06	688	0.089	3.49	0.069	4.53	1.3	97.4	349	0.6	13.7	8.4	0.8	<1	1	2.3	<0.1	162.0	2.8
IMA2887	Pulp	106	0.10	585	0.253	2.96	0.050	3.62	4.4	174.0	1411	0.9	55.1	26.0	2.6	<1	2	3.1	<0.1	146.8	5.0
IMA2888	Pulp	86	0.12	659	0.081	3.36	0.058	4.23	4.1	95.0	805	0.9	27.0	8.7	1.1	<1	2	4.3	0.2	164.6	2.9
IMA2889	Pulp	81	0.10	650	0.128	3.24	0.057	3.93	6.6	110.3	664	1.1	27.9	13.5	1.7	<1	2	3.9	0.1	160.2	3.2
IMA2890	Pulp	77	0.19	818	0.130	3.87	0.069	4.67	4.4	111.8	305	1.1	13.7	11.7	1.4	<1	2	4.1	<0.1	185.4	3.5
IMA2891	Pulp	115	0.18	611	0.394	3.20	0.055	3.63	1.0	177.0	>2000	1.5	95.8	43.3	5.0	1	2	6.3	0.1	162.4	5.0
IMA2892	Pulp	113	0.14	688	0.268	3.37	0.065	4.05	0.6	135.8	1406	1.1	58.2	28.5	3.3	<1	1	5.1	0.1	163.3	3.8
IMA2893	Pulp	111	0.12	682	0.174	3.29	0.059	3.93	0.8	125.9	633	1.0	30.3	18.4	1.9	<1	2	4.3	<0.1	167.3	3.6
IMA2894	Pulp	106	0.17	662	0.318	3.43	0.090	3.74	1.6	151.9	>2000	1.4	94.1	40.4	5.1	2	3	6.1	0.5	146.1	4.3
IMA2895	Pulp	80	0.11	883	0.117	4.40	0.080	5.38	1.1	101.7	628	1.3	25.1	12.1	1.4	<1	2	3.7	0.2	208.7	3.0
IMA2896	Pulp	163	0.22	320	0.239	3.87	0.033	2.77	0.7	144.3	1843	3.0	94.0	25.7	3.3	2	4	8.3	0.3	171.6	4.4
IMA2897	Pulp	144	0.16	889	0.201	4.32	0.064	4.85	0.7	144.1	885	1.8	41.3	18.3	2.0	1	2	5.2	<0.1	191.7	4.3
IMA2898	Pulp	103	0.13	664	0.158	3.46	0.058	4.07	0.6	131.4	757	1.4	33.3	16.4	1.9	<1	2	5.1	0.1	171.8	3.8
IMA2899	Pulp	85	0.16	648	0.227	3.27	0.051	3.84	0.7	144.3	1613	1.1	64.4	25.3	3.0	<1	2	4.9	0.1	163.5	4.5
IMA2900	Pulp	99	0.14	601	0.226	3.13	0.047	3.62	0.8	144.8	1523	1.6	62.6	26.1	2.8	<1	2	4.5	0.2	159.1	4.1
IMA2901	Pulp	84	0.14	554	0.190	3.11	0.047	3.47	2.8	152.8	1764	1.4	63.8	22.6	2.6	<1	2	5.1	0.1	150.3	4.5
IMA2902	Pulp	589	0.58	505	0.499	3.35	0.068	2.06	1.0	223.7	>2000	3.3	152.0	50.4	4.9	3	4	21.2	0.5	144.1	6.3
IMA2903	Pulp	154	0.55	576	0.403	4.28	0.054	3.07	0.9	223.5	>2000	3.9	131.7	44.9	5.5	3	3	23.2	0.4	195.1	6.3



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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: April 25, 2019

Page: 2 of 2

Part: 3 of 3

CERTIFICATE OF ANALYSIS

VAN19000899.1

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	
IMA2880	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2881	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2882	Pulp	0.70	<0.005	3	<0.5	0.9
IMA2883	Pulp	0.28	<0.005	1	<0.5	0.8
IMA2884	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA2885	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2886	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2887	Pulp	<0.05	<0.005	1	<0.5	0.6
IMA2888	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2889	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2890	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2891	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2892	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2893	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2894	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2895	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2896	Pulp	0.06	<0.005	<1	<0.5	0.9
IMA2897	Pulp	0.05	<0.005	<1	<0.5	0.9
IMA2898	Pulp	0.06	<0.005	<1	<0.5	0.8
IMA2899	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2900	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2901	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2902	Pulp	<0.05	0.005	<1	<0.5	1.0
IMA2903	Pulp	<0.05	<0.005	<1	<0.5	1.2



Bureau Veritas Commodities Canada Ltd.
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Client: MacGregor, R.A.
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Sault Ste. Marie Ontario P6A 4N4 Canada

Project: None Given
Report Date: April 25, 2019

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Part: 1 of 3

QUALITY CONTROL REPORT

VAN19000899.1

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	0.1	0.1	0.1	0.1	0.01	0.001	0.1	
Pulp Duplicates																					
IMA2898	Pulp	1.9	285.3	28.3	3	0.2	5.1	8.3	78	0.74	6	60.0	354.6	21	<0.1	0.2	0.2	11	0.08	0.039	427.8
REP IMA2898	QC	2.0	282.0	27.4	3	0.2	5.5	8.2	84	0.71	7	59.2	342.0	21	<0.1	0.1	0.2	11	0.08	0.043	423.5
Reference Materials																					
STD OREAS25A-4A	Standard	2.3	32.9	23.4	41	<0.1	41.9	7.4	443	6.20	9	2.5	13.8	44	<0.1	0.6	0.4	146	0.28	0.042	21.6
STD OREAS45E	Standard	2.5	780.0	17.3	46	0.3	463.6	59.5	547	23.59	15	2.1	13.5	16	<0.1	0.9	0.3	309	0.06	0.034	8.8
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	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	0.1	<0.1	<1	<0.1	0.2	<0.2	3	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<1	<0.01	<0.001	<0.1	



Bureau Veritas Commodities Canada Ltd.
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Project: None Given
Report Date: April 25, 2019

Page: 1 of 1

Part: 2 of 3

QUALITY CONTROL REPORT

VAN19000899.1

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																					
IMA2898	Pulp	103	0.13	664	0.158	3.46	0.058	4.07	0.6	131.4	757	1.4	33.3	16.4	1.9	<1	2	5.1	0.1	171.8	3.8
REP IMA2898	QC	91	0.13	709	0.162	3.46	0.060	3.96	0.6	133.6	791	1.4	33.4	16.2	1.6	<1	2	5.7	<0.1	177.2	3.6
Reference Materials																					
STD OREAS25A-4A	Standard	105	0.32	137	0.870	8.93	0.114	0.44	2.0	148.1	48	4.1	10.3	19.2	1.3	<1	12	33.9	<0.1	59.6	4.1
STD OREAS45E	Standard	1000	0.16	240	0.541	6.90	0.054	0.33	1.0	94.9	23	1.2	7.5	6.1	0.5	<1	89	6.2	<0.1	21.0	2.7
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
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	5	<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



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **MacGregor, R.A.**
28 Ford St.
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Project: None Given
Report Date: April 25, 2019

Page: 1 of 1

Part: 3 of 3

QUALITY CONTROL REPORT

VAN19000899.1

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						
IMA2898	Pulp	0.06	<0.005	<1	<0.5	0.8
REP IMA2898	QC	<0.05	<0.005	<1	<0.5	0.8
Reference Materials						
STD OREAS25A-4A	Standard	0.05	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.10	<0.005	3	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.15
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5

Appendix III

Cost Receipts

Costs

Reject sample recovery	266 samples @ \$50/sample	13,300	
	GST	1,729	15,029 x
Sample Prep	166 samples @ \$10/sample	1,660	
	GST	215.80	1,875.80 x
	100 samples @ \$10/samples	1,000	
	GST	130	1,130
Shipping	Feb. 27/18	4hs @\$50/hr	200
		Canada Post	55.10
	July 06/18	4hs @\$50/hr	200
		Canada Post	23.13
	Aug 15/18	Bus from Swastika	51.42
	Oct.18/18	6hs @\$50/hr	300
		Purolator	61.11
	April 19/19	2hs @\$50/hr	100
		Canada Post	14.80
			1,005.56
Analysis	220 samples @ \$20.30/sample	4466	
	GST	580.58	
	49 samples @\$21.55/sample	1,055.95	
	GST	137.27	6239.80
Repot			500
	Total		25,780

Location of Samples by Cell Number

Drill Hole	Number of Samples	Cell Number
NA08-24	15 samples	182678
NA08-21	19 samples	276903
NA08-20	19 samples	182678
NA08-16	37 samples	276903
NA07-14	24 samples	276903 – 14 samples 128385 – 10 samples
NA07-09	26 samples	191800
NA07-04	13 samples	191800
NA07-03	35 samples	276903 – 2 samples 128385 – 33 samples
NA 07-02	16 samples	191800
NA07-01	62 samples	276903 – 9 samples 128385 – 53 samples
Totals		182678 34 samples 191800 55 samples 128385 96 samples 276903 <u>81</u> samples

Drill Hole Information

Drill Hole	Location	Azimuth	Inclination	Depth (m)
NA08-24	451122E/5141673N	347	55	218
NA08-21	451541E/5141744N	345	70	340
NA08-20	451251E/5141657N	319	64	443
NA08-16	451595E/5141845N	340	75	300
NA07-14	451700E/5141803N	351	65	381
NA07-09	452311E/5142155N	357	69	448
NA07-04	452157E/5141973N	346	45	129
NA07-03	451762E/5141878N	345	45	161
NA07-02	452062E/5141939N	346	45	150
NA07-01	451910E/5141912N	346	45	147



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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: June 18, 2019
Report Date: June 21, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN19001480.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 107

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	107	Sorting, labeling and boxing samples received as pulps			VAN
MA200	107	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	107	Environmental disposal fee - Multi-acid neutralization			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:


GEORGE ARCALA
Instrumentation Shift Supervisor

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: June 21, 2019

Page: 2 of 5

Part: 1 of 3

CERTIFICATE OF ANALYSIS VAN19001480.1

Method	Analyte	Unit	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	
IMA2904	Pulp		2.9	48.2	3.5	316	0.1	15.3	12.6	1362	16.50	<1	0.6	2.2	73	0.2	0.5	0.1	32	2.64	0.059	13.2
IMA2905	Pulp		1.8	74.8	5.2	40	0.1	121.3	54.7	227	5.02	37	5.8	14.1	19	0.2	0.4	0.9	188	0.08	0.047	41.1
IMA2906	Pulp		1.9	118.2	6.9	41	<0.1	144.2	45.9	230	5.53	26	5.8	15.3	18	<0.1	0.6	0.9	180	0.08	0.045	38.9
IMA2907	Pulp		1.8	93.7	20.4	44	0.2	125.5	46.4	204	4.87	30	5.6	15.6	18	<0.1	0.5	0.8	172	0.08	0.043	40.0
IMA2908	Pulp		0.6	2307.9	59.7	97	0.8	4.3	7.1	68	1.22	4	4.5	15.1	29	0.8	0.1	0.6	7	0.14	0.011	20.4
IMA2909	Pulp		2.0	50.3	6.3	42	0.1	74.3	31.3	285	4.91	26	4.5	10.7	15	<0.1	0.3	0.4	175	0.08	0.040	26.6
IMA2910	Pulp		4.7	71.9	10.6	28	0.2	29.4	10.0	265	2.51	5	2.3	5.5	28	0.2	0.1	1.3	42	0.21	0.015	36.0
IMA2911	Pulp		2.3	27.0	37.3	68	0.2	60.4	18.7	258	4.83	10	4.7	14.9	77	0.2	0.2	0.1	90	0.23	0.044	53.7
IMA2912	Pulp		25.7	50.0	12.6	43	0.2	30.3	15.3	237	2.86	10	2.3	5.6	27	0.1	<0.1	3.7	61	0.15	0.023	30.6
IMA2913	Pulp		6.0	273.0	15.2	29	0.3	79.7	25.0	357	4.85	25	36.7	17.7	11	0.1	0.2	0.9	122	0.10	0.036	50.7
IMA2914	Pulp		8.4	418.5	10.9	32	0.3	87.0	48.6	367	5.00	64	4.7	12.7	12	0.3	0.1	0.9	150	0.10	0.041	22.7
IMA2915	Pulp		4.6	12.7	24.0	19	0.1	3.9	3.1	85	0.83	3	7.9	33.9	10	0.2	<0.1	1.4	9	0.18	0.007	36.5
IMA2916	Pulp		13.1	903.8	28.9	61	0.4	30.2	18.4	189	3.59	26	1.8	5.1	11	0.3	0.1	1.7	52	0.09	0.014	27.1
IMA2917	Pulp		1.5	61.0	109.7	226	0.2	6.8	31.7	655	8.11	22	8.4	37.3	88	1.1	0.2	0.2	46	0.97	0.245	79.5
IMA2918	Pulp		0.6	34.8	114.3	364	0.1	5.1	23.6	683	8.43	11	2.8	14.9	88	1.0	0.2	0.1	68	1.22	0.301	32.5
IMA2919	Pulp		1.6	396.9	6.8	78	0.2	64.1	39.7	827	6.15	32	2.9	11.0	132	0.2	0.2	0.6	269	2.96	0.080	23.1
IMA2920	Pulp		0.8	80.3	9.5	112	0.1	80.0	47.0	1225	9.02	25	1.3	5.2	173	<0.1	0.3	0.4	367	5.28	0.100	17.3
IMA2921	Pulp		1.6	7.1	24.0	9	<0.1	5.9	5.5	35	0.43	4	19.1	91.9	21	0.1	<0.1	0.2	15	0.12	0.028	108.0
IMA2922	Pulp		3.2	4.8	17.4	8	0.1	4.2	3.4	41	0.52	2	46.2	261.3	20	<0.1	<0.1	<0.1	20	0.09	0.027	267.3
IMA2923	Pulp		2.4	9.2	85.8	130	0.1	5.9	6.6	72	0.66	2	42.6	214.2	26	0.4	0.1	0.2	15	0.15	0.025	204.8
IMA2924	Pulp		2.4	20.0	85.7	52	0.1	5.8	9.9	19	0.49	6	63.0	336.1	18	0.3	<0.1	0.3	10	0.03	0.038	403.0
IMA2925	Pulp		10.7	26.7	292.6	8	0.2	11.1	20.1	144	1.28	10	239.5	1813.6	35	0.1	0.1	1.0	13	0.27	0.180	1876.9
IMA2926	Pulp		3.0	5.3	143.6	219	0.2	4.0	7.2	28	0.44	6	49.9	234.8	21	1.6	<0.1	0.2	9	0.05	0.025	299.3
IMA2927	Pulp		1.0	3.9	30.8	3	<0.1	6.0	2.3	18	0.22	2	39.4	164.1	35	<0.1	<0.1	<0.1	4	0.01	0.019	176.6
IMA2928	Pulp		4.0	17.7	259.0	409	0.1	6.7	10.6	85	0.61	7	30.5	166.2	28	2.5	<0.1	0.3	11	0.14	0.022	341.1
IMA2929	Pulp		13.7	25.7	301.3	108	0.6	21.5	53.9	74	1.63	31	392.3	2317.8	32	0.8	0.4	1.7	15	0.25	0.198	>2000
IMA2930	Pulp		2.6	12.9	242.0	316	0.1	5.7	7.5	66	0.57	4	41.3	165.7	26	1.8	<0.1	0.2	12	0.11	0.025	303.6
IMA2931	Pulp		2.0	12.9	21.1	12	0.1	13.4	6.5	123	1.36	11	22.5	115.4	35	<0.1	0.1	0.2	17	0.24	0.019	190.6
IMA2932	Pulp		3.6	15.6	138.9	56	0.2	12.6	15.9	81	0.93	16	73.9	402.7	35	0.3	0.1	0.3	11	0.19	0.043	454.4
IMA2933	Pulp		1.8	82.2	75.9	11	0.3	11.6	10.5	86	1.22	20	32.8	177.2	24	0.3	0.1	1.1	10	0.12	0.020	234.9



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: June 21, 2019

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Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN19001480.1

Method	Analyte	Unit	MA200																			
			Cr	Mg	Ba	Ti	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
IMA2904	Pulp		40	1.81	78	0.098	4.16	0.519	0.85	0.4	57.9	23	1.2	9.2	1.7	0.1	<1	3	4.0	0.3	30.0	1.4
IMA2905	Pulp		176	1.07	715	0.495	11.75	0.061	5.43	3.1	164.2	80	3.5	12.9	13.0	1.1	4	24	27.9	0.5	291.2	4.6
IMA2906	Pulp		158	1.15	712	0.459	11.49	0.057	5.24	3.0	156.3	83	3.3	14.1	13.0	1.0	3	25	27.5	0.7	283.9	4.0
IMA2907	Pulp		157	1.07	705	0.485	11.47	0.060	5.76	2.7	153.6	82	3.0	14.1	13.2	1.1	4	23	24.7	0.6	320.9	4.0
IMA2908	Pulp		61	0.31	198	0.027	3.19	1.332	1.45	0.2	53.0	40	0.8	4.5	3.9	0.5	<1	2	4.8	0.4	51.1	1.4
IMA2909	Pulp		180	1.16	570	0.490	10.84	0.050	5.48	2.7	154.8	57	3.2	10.1	11.1	0.9	3	22	24.5	0.2	287.3	4.3
IMA2910	Pulp		228	0.73	143	0.054	3.60	1.492	0.82	<0.1	81.2	63	0.5	4.0	1.3	<0.1	<1	6	5.2	0.1	42.4	2.1
IMA2911	Pulp		186	1.54	388	0.164	8.34	3.580	2.33	0.7	220.4	105	1.2	7.2	5.2	0.5	1	12	23.0	0.1	103.3	6.0
IMA2912	Pulp		91	0.88	106	0.052	4.43	1.500	0.97	0.3	74.8	58	0.9	4.3	1.5	0.1	1	8	10.6	<0.1	55.2	2.1
IMA2913	Pulp		213	1.66	517	0.163	8.35	0.058	4.66	1.3	181.5	98	3.0	16.9	60.2	0.2	5	18	16.2	0.2	275.5	3.8
IMA2914	Pulp		162	1.82	665	0.195	10.24	0.067	5.80	1.6	142.5	44	4.2	8.7	5.0	0.3	6	21	18.7	0.1	329.8	3.9
IMA2915	Pulp		73	0.39	384	0.056	2.95	0.224	1.77	0.5	74.5	67	1.3	5.6	6.5	0.4	1	2	12.3	<0.1	100.7	1.9
IMA2916	Pulp		160	1.28	160	0.130	3.39	0.471	0.98	0.4	60.8	47	1.1	4.1	3.6	0.2	2	6	15.7	0.2	53.6	1.5
IMA2917	Pulp		44	2.43	230	0.586	6.95	1.749	1.14	0.7	258.4	163	1.3	23.4	11.1	0.8	2	16	21.5	0.2	41.5	6.3
IMA2918	Pulp		45	2.58	173	0.629	6.74	1.452	0.99	0.5	263.1	71	1.6	21.6	11.0	0.6	1	17	23.4	0.2	39.9	6.6
IMA2919	Pulp		176	2.33	607	0.894	8.74	2.767	2.62	0.9	129.1	51	2.3	23.3	16.8	1.0	3	28	25.9	0.1	113.3	3.5
IMA2920	Pulp		173	3.50	291	1.244	7.15	0.786	2.56	0.7	97.4	36	1.3	24.3	15.6	1.0	2	35	28.3	0.1	238.0	2.3
IMA2921	Pulp		69	0.11	792	0.065	4.35	0.068	4.55	0.5	66.1	192	1.6	9.2	5.0	0.5	<1	2	3.6	<0.1	204.0	2.0
IMA2922	Pulp		92	0.13	876	0.179	4.75	0.056	5.16	0.8	176.0	458	2.3	24.2	16.1	1.8	2	3	5.1	<0.1	248.2	5.0
IMA2923	Pulp		88	0.13	764	0.141	3.51	0.063	4.12	0.4	143.1	368	1.3	24.1	15.0	1.7	<1	2	5.0	<0.1	183.5	3.9
IMA2924	Pulp		98	0.05	652	0.249	3.32	0.048	4.10	0.7	138.7	738	1.1	28.7	25.7	2.7	<1	1	2.3	0.1	159.6	3.9
IMA2925	Pulp		106	0.14	751	0.475	3.57	0.055	3.97	1.1	323.9	>2000	1.8	129.7	49.9	5.6	<1	3	7.6	0.3	186.0	8.7
IMA2926	Pulp		64	0.11	739	0.111	3.97	0.058	4.20	0.6	92.1	525	1.5	23.5	12.2	1.2	1	2	4.5	<0.1	177.3	2.6
IMA2927	Pulp		91	0.01	44	0.022	1.18	0.148	0.39	0.1	44.3	312	0.2	15.2	2.6	0.2	<1	<1	1.3	<0.1	13.7	1.2
IMA2928	Pulp		94	0.13	873	0.149	3.87	0.073	4.47	0.5	114.3	596	1.1	18.0	15.9	1.7	<1	2	3.8	0.1	184.3	3.2
IMA2929	Pulp		127	0.16	398	0.322	2.50	0.046	2.64	1.5	164.9	>2000	1.6	194.7	54.3	6.3	2	4	8.4	1.0	123.9	4.8
IMA2930	Pulp		100	0.10	781	0.150	3.68	0.066	4.16	0.5	107.1	555	1.1	18.2	15.7	1.7	<1	2	3.7	<0.1	162.2	3.0
IMA2931	Pulp		97	0.35	755	0.102	4.01	0.156	3.74	0.4	84.3	335	0.8	13.6	10.8	1.1	<1	2	6.4	0.1	141.6	2.3
IMA2932	Pulp		102	0.20	752	0.121	3.34	0.062	4.08	0.4	95.6	843	0.6	35.5	15.5	1.8	<1	2	3.4	0.2	143.9	2.8
IMA2933	Pulp		122	0.14	706	0.087	3.14	0.069	3.82	0.4	88.7	412	0.7	16.7	12.3	1.3	<1	2	2.5	0.6	134.3	2.5



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: June 21, 2019

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CERTIFICATE OF ANALYSIS

VAN19001480.1

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
IMA2904	Pulp		0.15	<0.005	<1	0.7	<0.5
IMA2905	Pulp		0.09	0.008	2	0.7	1.8
IMA2906	Pulp		0.11	0.008	2	0.6	1.7
IMA2907	Pulp		0.09	0.008	<1	0.7	1.7
IMA2908	Pulp		0.18	<0.005	<1	<0.5	<0.5
IMA2909	Pulp		0.06	0.009	<1	<0.5	1.7
IMA2910	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2911	Pulp		<0.05	<0.005	<1	<0.5	0.7
IMA2912	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2913	Pulp		0.15	<0.005	<1	<0.5	1.6
IMA2914	Pulp		0.09	0.006	<1	0.5	1.7
IMA2915	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2916	Pulp		0.07	0.005	1	<0.5	<0.5
IMA2917	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2918	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2919	Pulp		0.09	<0.005	<1	0.6	0.8
IMA2920	Pulp		0.06	<0.005	<1	0.8	1.8
IMA2921	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2922	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2923	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2924	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2925	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2926	Pulp		<0.05	<0.005	<1	<0.5	0.9
IMA2927	Pulp		<0.05	<0.005	<1	<0.5	<0.5
IMA2928	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2929	Pulp		<0.05	<0.005	4	<0.5	0.7
IMA2930	Pulp		<0.05	<0.005	<1	<0.5	1.0
IMA2931	Pulp		<0.05	<0.005	<1	<0.5	0.7
IMA2932	Pulp		<0.05	<0.005	<1	<0.5	0.8
IMA2933	Pulp		<0.05	<0.005	<1	<0.5	0.7



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: June 21, 2019

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CERTIFICATE OF ANALYSIS

VAN19001480.1

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	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
IMA2934	Pulp			6.8	53.5	305.2	55	0.5	16.1	13.8	41	0.97	9	182.4	1011.3	26	0.6	0.2	1.7	13	0.10	0.088	1002.1
IMA2935	Pulp			1.3	7.5	20.6	9	0.1	6.7	3.6	35	0.53	2	9.1	47.9	23	<0.1	0.1	0.1	7	0.03	0.007	66.7
IMA2936	Pulp			2.6	25.5	29.7	28	0.1	7.4	12.8	50	0.91	9	44.9	236.6	22	0.2	<0.1	0.3	19	0.06	0.037	420.1
IMA2937	Pulp			2.3	17.9	82.8	93	0.2	9.8	9.8	44	0.63	12	48.4	285.0	19	0.6	<0.1	0.8	10	0.08	0.030	267.2
IMA2938	Pulp			1.9	23.0	227.5	58	0.2	9.4	11.0	55	0.68	9	36.2	183.2	21	0.8	0.1	0.3	10	0.14	0.022	239.9
IMA2939	Pulp			1.9	13.4	41.5	220	0.2	9.7	6.8	55	0.74	9	21.3	129.9	18	1.4	<0.1	0.4	14	0.08	0.018	169.1
IMA2940	Pulp			1.5	7.5	124.0	126	0.1	5.3	5.9	19	0.34	4	35.2	192.2	22	0.7	<0.1	0.1	6	0.04	0.022	292.9
IMA2941	Pulp			3.4	11.7	114.7	115	0.1	7.0	8.1	59	0.65	2	41.2	266.3	26	0.9	0.1	0.2	14	0.10	0.030	322.7
IMA2942	Pulp			3.6	6.5	121.3	191	0.1	5.3	4.8	42	0.55	2	38.2	181.5	23	0.9	<0.1	<0.1	11	0.08	0.024	217.5
IMA2943	Pulp			1.6	10.2	102.3	145	<0.1	5.5	5.8	42	0.66	3	25.2	178.0	25	0.8	<0.1	0.3	11	0.05	0.021	239.8
IMA2944	Pulp			3.3	11.1	152.1	126	<0.1	6.9	4.9	52	0.58	2	64.6	360.6	28	0.6	0.1	0.2	11	0.12	0.044	449.4
IMA2945	Pulp			3.1	20.2	75.2	9	0.1	9.7	9.3	80	0.88	3	67.0	432.5	32	<0.1	<0.1	0.3	15	0.19	0.058	655.7
IMA2946	Pulp			4.6	34.4	133.7	5	0.1	12.7	11.3	72	1.08	5	160.5	636.0	30	0.1	0.3	0.3	14	0.15	0.070	740.7
IMA2947	Pulp			6.4	39.2	93.1	7	0.2	14.6	14.6	69	1.15	<1	156.2	767.7	33	0.2	0.3	0.4	12	0.14	0.078	995.6
IMA2948	Pulp			3.6	5.6	40.3	8	0.1	6.7	3.2	33	0.51	3	69.5	473.8	23	<0.1	0.2	0.3	15	0.05	0.058	529.2
IMA2949	Pulp			8.7	21.1	277.8	185	0.3	7.1	12.1	37	0.71	6	177.4	527.6	23	1.1	0.1	0.8	10	0.08	0.056	646.5
IMA2950	Pulp			5.4	6.2	31.4	9	0.1	4.8	4.4	57	0.57	3	53.1	380.0	27	<0.1	0.1	0.2	16	0.14	0.048	388.4
IMA2951	Pulp			2.5	7.2	20.4	7	0.1	3.5	3.4	35	0.42	2	15.1	87.2	20	<0.1	<0.1	0.1	11	0.07	0.014	172.6
IMA2952	Pulp			5.6	12.0	119.8	48	0.2	6.9	6.0	47	0.61	2	97.9	693.3	26	0.4	0.1	0.3	15	0.11	0.082	802.1
IMA2953	Pulp			5.5	394.9	221.5	35	0.3	21.9	15.6	83	1.42	4	263.6	494.2	18	0.5	0.2	1.2	13	0.19	0.055	499.1
IMA2954	Pulp			2.1	3.8	13.9	6	<0.1	4.8	3.7	17	0.39	3	23.2	176.8	12	<0.1	<0.1	0.1	10	0.01	0.026	240.4
IMA2955	Pulp			1.7	4.5	19.6	5	0.1	5.3	2.9	22	0.46	3	25.2	147.9	19	<0.1	<0.1	0.1	10	0.03	0.018	164.7
IMA2956	Pulp			3.7	16.1	24.6	5	0.1	5.3	7.2	30	0.45	3	28.9	215.0	20	0.1	<0.1	0.2	11	0.04	0.026	213.6
IMA2957	Pulp			5.5	23.4	72.9	17	0.2	6.7	15.6	33	0.62	10	173.5	363.9	19	0.2	0.1	0.6	15	0.04	0.038	385.3
IMA2958	Pulp			4.2	20.9	109.7	19	0.2	6.7	3.6	84	0.66	1	109.5	611.1	25	0.2	<0.1	0.3	17	0.15	0.063	564.7
IMA2959	Pulp			4.7	8.7	59.1	8	0.2	6.2	4.4	50	0.57	3	85.0	487.4	26	0.1	0.1	0.6	17	0.10	0.053	536.1
IMA2960	Pulp			3.7	15.1	245.9	27	0.1	5.9	5.4	31	0.55	1	30.0	171.6	20	0.3	<0.1	0.2	12	0.05	0.021	182.9
IMA2961	Pulp			3.4	21.8	436.8	197	0.2	5.3	7.6	24	0.55	2	22.1	90.7	19	1.0	<0.1	0.4	9	0.04	0.012	105.3
IMA2962	Pulp			3.3	22.9	101.9	7	<0.1	8.3	6.9	106	0.91	3	117.9	721.1	25	<0.1	0.1	0.4	16	0.14	0.076	691.3
IMA2963	Pulp			6.3	31.6	508.8	7	0.3	13.4	16.2	24	0.52	13	716.0	2498.3	33	0.2	0.4	1.6	15	0.02	0.230	>2000



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Project: None Given
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Part: 2 of 3

CERTIFICATE OF ANALYSIS

VAN19001480.1

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		
				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		
IMA2934	Pulp			123	0.15	520	0.299	2.49	0.038	2.88	1.6	226.5	1832	1.0	80.6	33.2	3.7	<1	3	3.5	0.4	111.7	6.4
IMA2935	Pulp			80	0.11	843	0.050	3.51	0.057	4.42	0.2	76.6	125	0.6	5.8	5.1	0.5	<1	1	1.7	<0.1	161.5	2.1
IMA2936	Pulp			103	0.20	912	0.122	4.50	0.055	4.80	0.6	117.2	720	3.0	29.0	13.5	1.4	2	3	7.2	0.1	244.5	3.4
IMA2937	Pulp			91	0.14	610	0.113	2.85	0.042	3.51	1.0	117.3	468	0.7	23.9	10.7	1.1	<1	2	2.1	0.1	123.2	3.4
IMA2938	Pulp			89	0.16	700	0.109	3.17	0.047	3.92	1.2	101.6	416	0.7	17.8	10.8	1.1	<1	2	2.6	0.1	143.5	2.9
IMA2939	Pulp			119	0.17	690	0.090	3.28	0.054	3.85	0.9	128.8	301	0.7	12.8	8.1	0.8	<1	2	2.7	0.1	143.3	3.7
IMA2940	Pulp			62	0.06	700	0.081	3.19	0.051	3.51	0.3	76.1	533	1.0	18.3	8.0	0.9	<1	1	2.7	<0.1	121.7	2.3
IMA2941	Pulp			87	0.13	745	0.213	3.39	0.057	3.23	0.5	127.0	616	1.1	28.0	20.2	2.2	1	2	4.6	0.1	138.5	3.5
IMA2942	Pulp			74	0.10	712	0.111	3.22	0.055	3.60	0.3	98.5	404	0.9	17.6	11.0	1.1	1	1	4.2	<0.1	150.3	2.7
IMA2943	Pulp			129	0.10	773	0.163	3.46	0.060	3.43	0.5	104.4	428	0.9	19.0	16.0	1.6	<1	1	4.1	<0.1	146.8	3.0
IMA2944	Pulp			95	0.08	685	0.175	3.00	0.083	3.19	0.4	109.9	846	0.9	34.0	17.2	1.8	1	2	2.6	0.1	131.3	3.3
IMA2945	Pulp			117	0.12	710	0.177	3.34	0.126	3.91	0.6	107.6	1231	1.2	36.9	17.8	2.0	2	2	3.9	0.2	160.2	3.4
IMA2946	Pulp			97	0.12	784	0.198	3.38	0.061	3.95	0.8	121.1	1391	1.1	60.8	24.8	3.2	2	2	6.1	0.4	167.4	3.4
IMA2947	Pulp			115	0.11	825	0.213	3.47	0.077	3.76	0.8	121.8	1780	1.0	72.9	29.6	3.3	1	2	5.3	0.5	152.1	3.6
IMA2948	Pulp			91	0.15	688	0.247	4.94	0.198	3.30	0.6	259.8	1028	2.8	47.7	21.9	2.6	2	3	4.9	<0.1	162.6	7.5
IMA2949	Pulp			95	0.09	693	0.146	3.42	0.055	3.53	0.9	98.9	1223	1.2	54.9	20.5	2.1	<1	3	5.3	0.2	162.2	2.9
IMA2950	Pulp			83	0.18	1117	0.227	5.03	0.074	5.05	0.9	181.5	732	2.8	35.7	24.3	2.5	2	4	6.3	<0.1	254.2	5.4
IMA2951	Pulp			59	0.09	955	0.104	4.29	0.064	3.85	0.6	109.1	299	1.4	9.3	9.7	1.0	1	2	3.3	<0.1	168.6	3.1
IMA2952	Pulp			77	0.14	956	0.268	4.23	0.127	4.24	1.2	196.3	1470	2.5	57.7	31.0	3.4	2	3	6.3	0.1	208.5	6.0
IMA2953	Pulp			102	0.23	585	0.177	4.46	0.048	4.29	1.7	141.9	899	4.0	62.5	21.7	2.9	2	3	10.0	0.9	227.9	4.3
IMA2954	Pulp			89	0.09	534	0.218	3.47	0.037	3.38	1.6	126.9	440	1.7	19.1	19.0	1.8	1	1	3.7	<0.1	164.3	3.5
IMA2955	Pulp			66	0.13	932	0.113	4.94	0.066	4.39	0.6	113.4	306	2.1	14.6	10.4	1.1	2	2	4.4	<0.1	212.8	3.2
IMA2956	Pulp			82	0.08	910	0.108	4.22	0.061	3.85	0.4	112.0	388	1.4	18.4	10.7	1.2	<1	2	3.5	<0.1	176.7	3.0
IMA2957	Pulp			89	0.11	855	0.157	4.10	0.053	3.77	0.7	142.4	702	1.8	35.2	17.5	2.1	2	3	5.0	0.2	198.7	3.9
IMA2958	Pulp			143	0.10	920	0.235	3.71	0.069	4.21	1.4	177.4	1045	1.7	45.2	28.4	2.9	2	3	4.1	<0.1	178.2	5.1
IMA2959	Pulp			84	0.17	1013	0.280	5.38	0.100	4.30	0.9	307.9	975	3.2	46.3	25.7	2.8	3	3	5.5	<0.1	220.5	9.0
IMA2960	Pulp			79	0.14	874	0.163	4.81	0.085	4.36	0.6	193.4	320	2.8	16.7	12.6	1.4	2	2	5.6	<0.1	215.1	5.8
IMA2961	Pulp			94	0.11	837	0.087	4.05	0.052	4.08	0.5	117.5	195	2.1	9.1	6.9	0.7	2	2	3.5	0.1	189.5	3.4
IMA2962	Pulp			104	0.13	842	0.249	3.66	0.055	4.36	0.5	169.4	1293	1.4	52.8	25.0	2.8	2	3	4.4	0.2	196.5	5.0
IMA2963	Pulp			91	0.09	653	0.358	4.20	0.129	1.73	1.0	367.2	>2000	2.5	223.5	37.8	3.3	3	3	9.9	0.1	76.4	10.1



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Project: None Given
Report Date: June 21, 2019

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CERTIFICATE OF ANALYSIS

VAN19001480.1

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
IMA2934	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2935	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2936	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2937	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2938	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2939	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2940	Pulp	<0.05	<0.005	<1	<0.5	0.6
IMA2941	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2942	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2943	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2944	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2945	Pulp	<0.05	<0.005	<1	<0.5	0.8
IMA2946	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2947	Pulp	<0.05	<0.005	2	<0.5	1.1
IMA2948	Pulp	0.06	<0.005	<1	<0.5	0.8
IMA2949	Pulp	<0.05	<0.005	2	<0.5	0.9
IMA2950	Pulp	<0.05	<0.005	<1	<0.5	1.3
IMA2951	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2952	Pulp	<0.05	<0.005	<1	<0.5	1.1
IMA2953	Pulp	<0.05	<0.005	1	<0.5	0.9
IMA2954	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA2955	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2956	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2957	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2958	Pulp	<0.05	<0.005	<1	<0.5	1.0
IMA2959	Pulp	0.05	<0.005	<1	<0.5	1.1
IMA2960	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2961	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA2962	Pulp	<0.05	<0.005	2	<0.5	1.0
IMA2963	Pulp	<0.05	<0.005	3	<0.5	0.9



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Project: None Given
Report Date: June 21, 2019

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QUALITY CONTROL REPORT VAN19001480.1

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																					
IMA2926	Pulp	3.0	5.3	143.6	219	0.2	4.0	7.2	28	0.44	6	49.9	234.8	21	1.6	<0.1	0.2	9	0.05	0.025	299.3
REP IMA2926	QC	2.9	6.0	141.3	220	0.1	4.3	7.2	28	0.44	5	48.1	237.5	21	1.1	<0.1	0.3	9	0.05	0.026	294.2
IMA2962	Pulp	3.3	22.9	101.9	7	<0.1	8.3	6.9	106	0.91	3	117.9	721.1	25	<0.1	0.1	0.4	16	0.14	0.076	691.3
REP IMA2962	QC	3.6	23.4	109.0	8	0.2	8.9	7.8	113	0.95	4	128.8	717.7	26	0.3	0.2	0.4	16	0.15	0.075	700.0
IMA2997	Pulp	6.2	4.4	188.2	339	0.1	4.1	2.3	38	0.87	2	21.1	126.5	16	1.8	<0.1	<0.1	12	0.03	0.017	129.1
REP IMA2997	QC	4.8	4.0	188.8	330	<0.1	4.4	3.0	37	0.86	2	21.0	121.1	15	1.7	0.1	<0.1	12	0.03	0.015	131.7
Reference Materials																					
STD OREAS25A-4A	Standard	2.6	36.0	24.1	51	0.1	45.5	7.2	473	6.59	9	2.8	15.8	50	0.2	0.6	0.4	157	0.29	0.046	22.0
STD OREAS25A-4A	Standard	2.2	34.2	23.1	45	<0.1	44.1	7.5	480	6.42	9	2.6	15.3	44	0.2	0.6	0.4	154	0.28	0.045	20.0
STD OREAS25A-4A	Standard	2.9	33.7	24.0	44	<0.1	49.3	7.8	498	6.55	9	2.8	17.0	46	<0.1	0.6	0.3	156	0.30	0.053	22.7
STD OREAS45E	Standard	2.6	777.6	17.7	47	0.4	468.1	60.3	532	24.41	16	2.5	12.5	16	<0.1	1.1	0.3	328	0.06	0.036	10.4
STD OREAS45E	Standard	2.2	785.3	18.6	51	0.3	470.3	58.0	540	24.69	16	2.5	13.3	16	0.1	0.9	0.3	326	0.06	0.032	11.0
STD OREAS45E	Standard	2.2	744.8	17.0	41	0.3	452.0	59.3	519	24.09	13	2.3	15.3	15	<0.1	0.9	0.3	310	0.06	0.030	10.2
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.85	0.37	157	0.301	0.048	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	0.08	1	0.28	322	0.065	0.034	11
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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Project: None Given
Report Date: June 21, 2019

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QUALITY CONTROL REPORT

VAN19001480.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
Analyte	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																					
IMA2926	Pulp	64	0.11	739	0.111	3.97	0.058	4.20	0.6	92.1	525	1.5	23.5	12.2	1.2	1	2	4.5	<0.1	177.3	2.6
REP IMA2926	QC	63	0.10	725	0.107	3.83	0.055	4.24	0.5	90.1	517	1.2	22.4	11.2	1.2	<1	2	4.6	<0.1	185.0	2.6
IMA2962	Pulp	104	0.13	842	0.249	3.66	0.055	4.36	0.5	169.4	1293	1.4	52.8	25.0	2.8	2	3	4.4	0.2	196.5	5.0
REP IMA2962	QC	107	0.14	880	0.257	3.85	0.055	4.11	0.6	170.4	1282	1.4	56.5	26.3	2.9	1	3	4.1	0.2	195.3	5.2
IMA2997	Pulp	80	0.37	621	0.188	5.30	0.058	2.88	0.2	140.2	247	2.0	13.8	12.9	1.4	2	2	11.4	<0.1	166.9	4.0
REP IMA2997	QC	78	0.37	648	0.190	5.40	0.058	2.63	0.2	141.8	251	2.1	13.7	13.7	1.4	1	2	10.7	<0.1	165.2	4.5
Reference Materials																					
STD OREAS25A-4A	Standard	107	0.34	150	0.932	9.49	0.140	0.52	1.8	153.2	49	3.8	10.4	19.3	1.4	<1	13	37.7	<0.1	59.2	4.1
STD OREAS25A-4A	Standard	106	0.32	132	0.920	9.20	0.142	0.49	1.8	141.0	46	3.8	10.2	18.0	1.3	<1	12	40.6	<0.1	54.9	3.8
STD OREAS25A-4A	Standard	120	0.34	150	0.969	9.33	0.126	0.49	2.0	153.9	50	3.8	10.7	20.4	1.5	1	13	37.1	<0.1	61.5	4.3
STD OREAS45E	Standard	1008	0.16	252	0.538	7.16	0.053	0.36	1.1	100.4	25	1.4	7.7	6.2	0.5	<1	97	7.2	<0.1	20.2	3.0
STD OREAS45E	Standard	986	0.16	255	0.541	7.15	0.057	0.35	0.9	100.3	24	1.2	7.9	6.2	0.6	<1	101	6.8	<0.1	20.6	3.0
STD OREAS45E	Standard	968	0.16	242	0.496	6.77	0.052	0.31	1.0	105.2	22	1.4	7.4	5.9	0.5	<1	91	6.6	<0.1	20.4	2.6
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
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	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	<0.1	
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	
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	



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Project: None Given
Report Date: June 21, 2019

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QUALITY CONTROL REPORT

VAN19001480.1

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							
IMA2926	Pulp		<0.05	<0.005	<1	<0.5	0.9
REP IMA2926	QC		<0.05	<0.005	<1	<0.5	0.8
IMA2962	Pulp		<0.05	<0.005	2	<0.5	1.0
REP IMA2962	QC		<0.05	<0.005	1	<0.5	1.1
IMA2997	Pulp		0.06	<0.005	<1	<0.5	1.2
REP IMA2997	QC		<0.05	<0.005	<1	<0.5	1.2
Reference Materials							
STD OREAS25A-4A	Standard		0.12	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.11	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard		0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard		0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard		0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard		0.13	<0.005	2	<0.5	<0.5
STD OREAS25A-4A Expected			0.09		2.4		0.35
STD OREAS45E Expected			0.099		2.97	0.1	0.15
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