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New Gold, Inc: Coventry Exploration Project  
2018 Soil and Rock Sampling Program

# 2018 Coventry Sampling Program

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Nelles Township  
Kenora Mining District  
Ontario

Prepared by:  
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**New Gold, Inc.**

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## **1 INTRODUCTION**

New Gold, Inc. (“NGD”) Coventry Exploration Project comprises three; largely-contiguous landholding blocks in the Rainy River district of northwestern Ontario. The blocks; Pattullo, Nelles and Blue are centred on prospective geology and/or anomalous previous exploration geochemistry. The soil and rock sampling program was conceived and planned to thoroughly cover claims consisting of all or part of cells: 115763, 125604, 125605, 154885, 171439, 274757, 274758, 286903 and 310722 in the Nelles block to garner any geological data collectable in the field.

The boundary of the Coventry Project is the western extent of NGD Rainy River holdings ~8km to the southwest of the company-owned Rainy River Gold Mine.

In September 2018, NGD conducted a preliminary reconnaissance and sampling campaign. The purpose of the work was to assess the physical ground conditions, collect soil samples where possible, and look for, and if found, sample, any rock outcrops. A soil sample grid was proposed comprising of 66 potential soil sample locations over an 8km x 8km area. This program involved sampling and describing the Quaternary glaciogenic overburden (till) and any Archaean-age bedrock formations of the Rainy River Greenstone Belt.

This work report summarizes the results of those samples filed for assessment credits. Exploration to date has not identified significant mineral potential on these patents and claims and no further work can be recommended at this time.

## **2 LOCATION & ACCESS**

The Rainy River Project area is located in the western-most part of northern Ontario, immediately to the north of the border with the United States (Figure 1) and about 60 km to the northwest of the town of Fort Frances (population about 10,000). The project is situated about 65 km to the southwest of the Company’s flagship Cameron Gold Project in the Kenora Mining Division.

Access to the project area is excellent, with a grid network of paved and unpaved, all-weather roads located throughout the region. Numerous secondary roads, trails and tracks provide additional access beyond these roads allowing for year-round exploration to be conducted.

The project area comprises undulating land located within the valley of the Rainy River that is a mix of farmland, interspersed with marsh and swamp land. The area is sparsely populated by farm settlements, with interspersed small villages that are generally located along the Canadian National Railway line that traverses in an east-west direction immediately north of the border and some five kilometres to the south of the project area.



Figure 1: Project location plan

### 3 REGIONAL EXPLORATION HISTORY

Up until 1987, very little exploration work had been undertaken with the Rainy River Greenstone Belt (GSB) due to the glacial till cover obscuring the vast majority of bedrock in the district. During 1987-88, the Ontario Geological Survey (OGS) completed a wide-spaced, but pioneering till sampling program using rotasonic drilling, backhoe sampling and hand-dug pits. This work revealed a number of high-tenor gold grain anomalies in till. Mingold Limited conducted limited follow-up some of the anomalies in 1988 producing inconclusive results.

In 1992, Nuinsco Resources Limited (TSX: NWI) commenced work in the district, assembling a significant landholding of patented and unpatented claims over much of the length of the Rainy River GSB. Between 1993 and 1998, Nuinsco drilled some 597 Reverse Circulation Overburden (RCO) drillholes across the district. This work resulted in the discovery of the Rainy River Gold Deposit (17 Zone) in 1994, followed by the high-grade Cu-Ni-PGE, 34 Zone in 1995 and the 433 Zone in 1997.

The virtually-unexplored nature of the Rainy River GSB due to the widespread coverage of glacial till marks the district as having high exploration potential. As much of the area is covered by a patchwork of individual patented landholdings, systematic exploration of the district has been largely precluded.

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The acquisition of the project area by Coventry was the first regional exploration effort undertaken since Nuinsco in 1993, and in some areas, the first ever.

NGD took control of these claims (Figure 2) in 2015 expanding land holdings from Off Lake in the east to Coventry in the west.

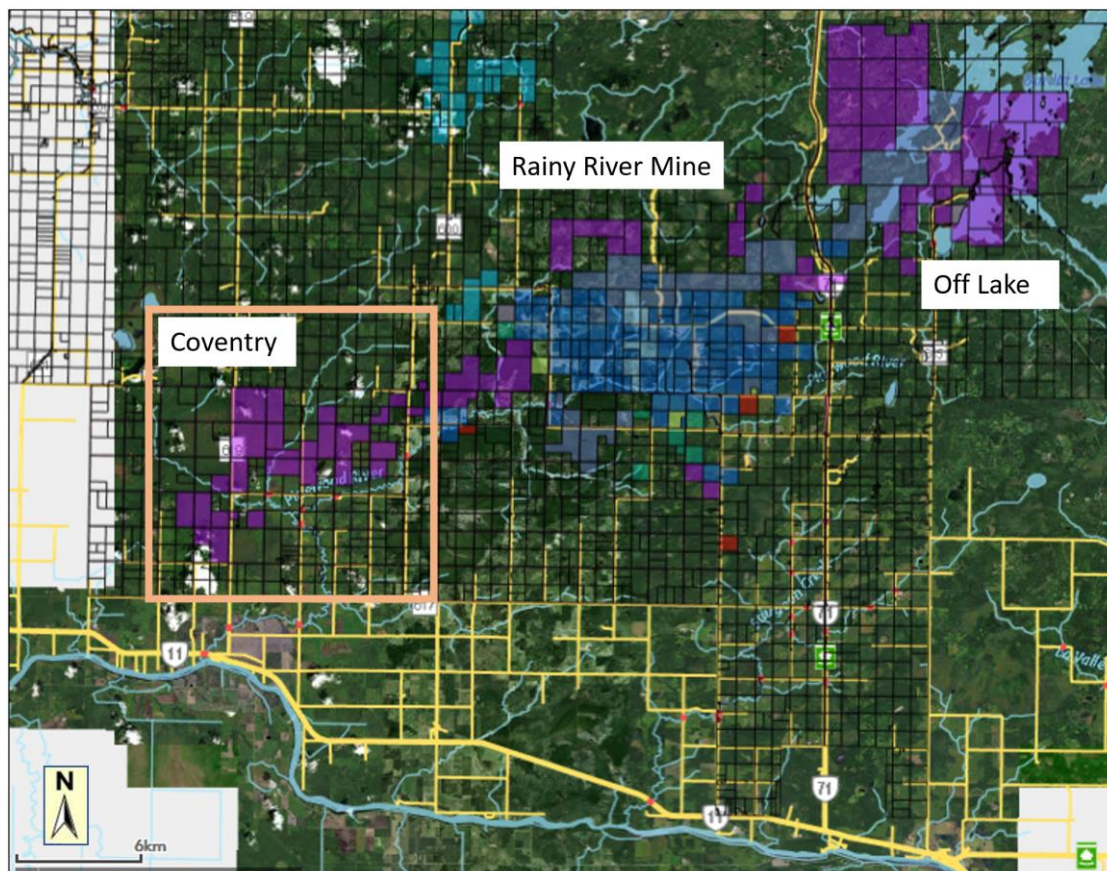


Figure 2: Rainy River Project Area (Coventry Claims highlighted in orange)

## 4 REGIONAL GEOLOGY

The Rainy River GSB forms part of the Western Wabigoon Sub-province of the Archaean-age Superior Province which also hosts the Company's Cameron Gold Deposit within the Savant Lake-Crow Lake GSB about 65 km to the northeast. The Western Wabigoon Sub-province is dominated by mafic to intermediate volcanic rocks, predominately overlain by intermediate volcanic and volcanoclastic rocks and minor sedimentary rocks. This supracrustal sequence has been intruded by a wide variety of felsic to intermediate to alkaline plutonic rocks.

The Rainy River GSB is bounded by a granitoid complex to the south, and by the Sabaskong batholith to the north. Metamorphic grade throughout most of the region is greenschist to lower amphibolite facies with local instances of upper amphibolite. The geology of the Rainy River GSB is poorly known due to extensive glacial till blanketing much of the geology with outcrop amounting to less than 1%, consequently much of the bedrock is inferred from widely spaced outcrops, aeromagnetics and drill core data. Reconnaissance surface mapping undertaken by the OGS in 1987 remains the principle source of

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geological information in the area, with the published geological map being principally interpretative and extremely general in nature (Figure 3).

The belt is dominated by a number of crustal- and large-scale fault structures, including the Quetico Fault which extends over a strike of several hundred kilometres. The area is also characterized by a number of later dolerite dykes of Proterozoic age that commonly strike towards the northwest. It is interpreted that many of these bodies have intruded pre-existing fault structures of the same orientation.

Although the bedrock geology of the project area is poorly understood, the Quaternary geology has been interpreted by the 1986-88 Ontario Geological Survey surficial mapping and rotasonic drilling programs (Bajc). The project area is covered by two glaciogenic (till) sheets. The earliest; the Labradorian which advanced from the northeast consists of coarse angular clasts in a sand-silt matrix and typically mafic or sedimentary dominated clasts. This till lies directly on bedrock in most areas and is the preferred sampling medium. A later sheet which overlies the Labradorian; the Keewatin consists of finer material including clays and silts with minor rounded pebbles. The Keewatin displays common distinguishing limestone and felsic dominated pebbles and cobbles. During periods of interglacial recession, the region was dominated by the glaciolacustrine environment of Lake Agassiz. The Lake Agassiz sediments are dominated by thick intervals of rhythmically laminated clays and silts as well as less abundant sand intervals.

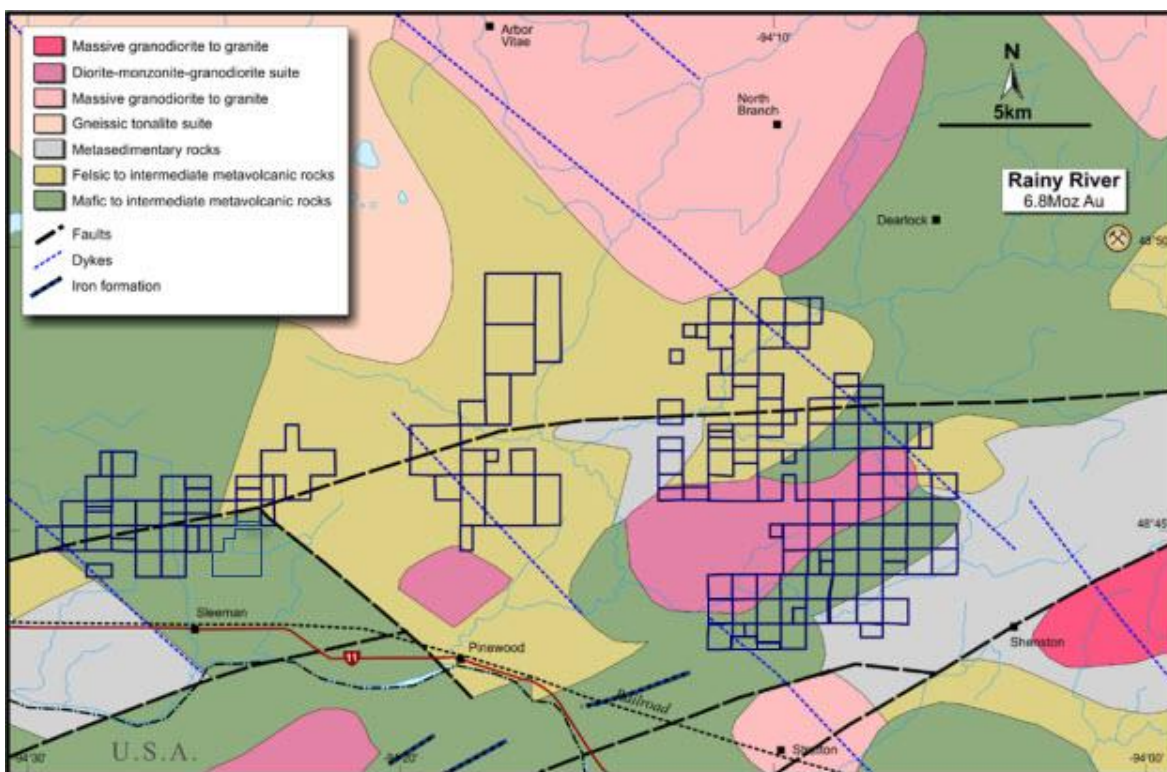


Figure 3: Simplified regional geology of Rainy River Greenstone Belt

## 5 EXPLORATION PROGRAM

During the period September 18-19, 2018, NGD carried out a preliminary reconnaissance and sampling campaign across a claim block consisting of some or all of the following cells: 115763, 125604, 125605, 154885, 171439, 274757, 274758, 286903 and 310722. This report summarizes the results of 34 samples (24 soil and 10 rock) collected in Nelles township (Figure 4)

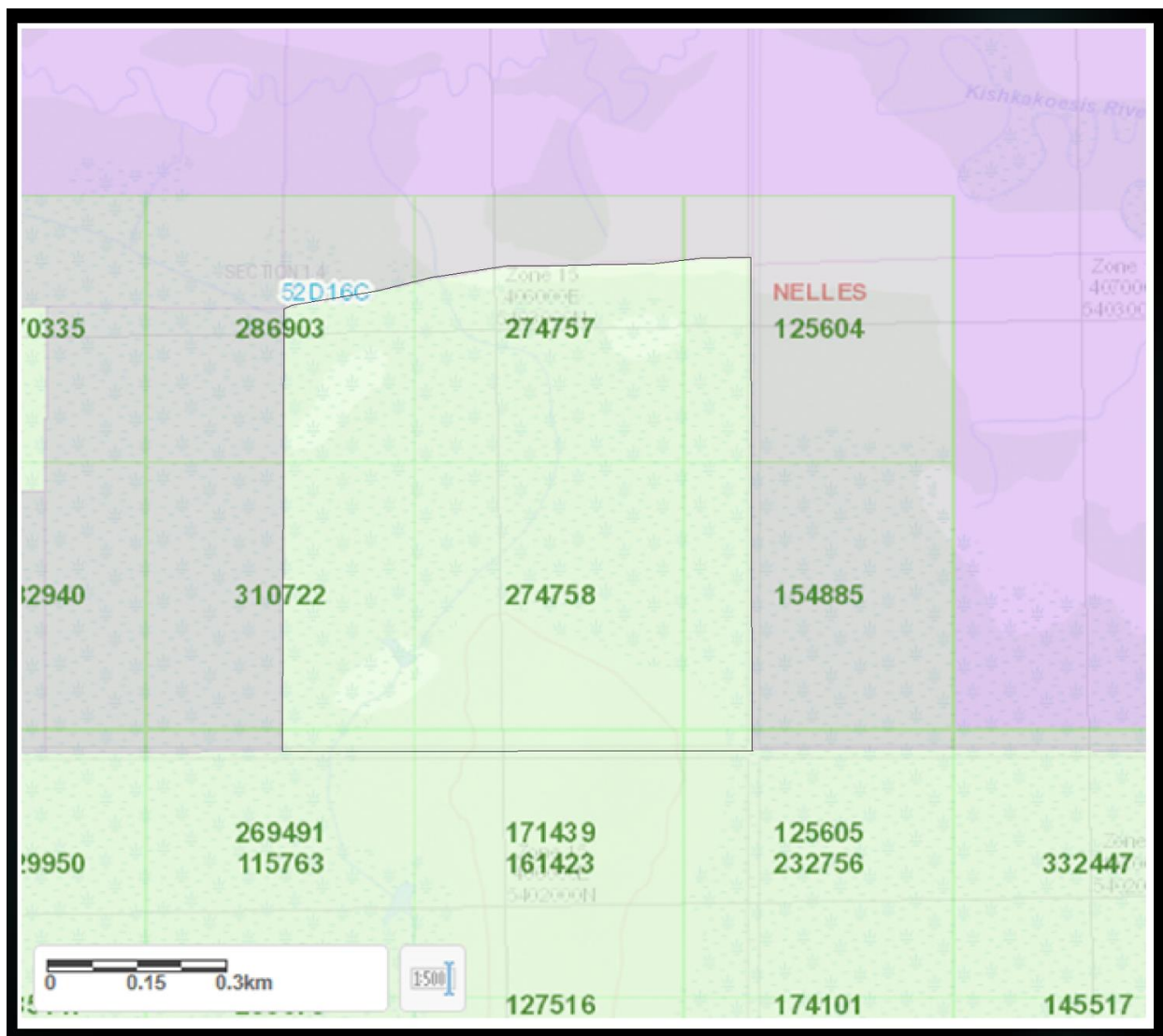


Figure 4: claim block location

### 5.1 Reconnaissance and Sampling

The reconnaissance portion of the project involved a team of two hiking the extent of the claim block to assess the ground conditions. It was found that the majority of the northern portion of the block was covered by thick brush and greater than 1m of organic detritus and moss. The southern portion of the block was covered by low swamps and sporadic outcrops; clay-rich glacial till was within 1m of the surface and samples were obtained. The samples were planned on a 100m grid covering the ~8km x 8km claim block. Sampling was limited to samples with less than 1m depth from surface by the extraction



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methodology described below. Outcrops were sampled in accordance with company and industry standards described below.

## 5.2 Proposed vs. Actual Sampling

While 66 samples were planned, only 24 soil samples (figure 5) and 10 rock samples (figure 6) were collected. The scarcity of samples was due to the thickness of organic materials being greater than the length of the auger used to collect samples (see section below). The till was intersected close to the surface in the south and east of the property. The organic material was sampled in one location in the north and was inadequate for the lab to perform an assay on. In areas with actual rock outcrop, that was sampled as close to the planned location as possible.

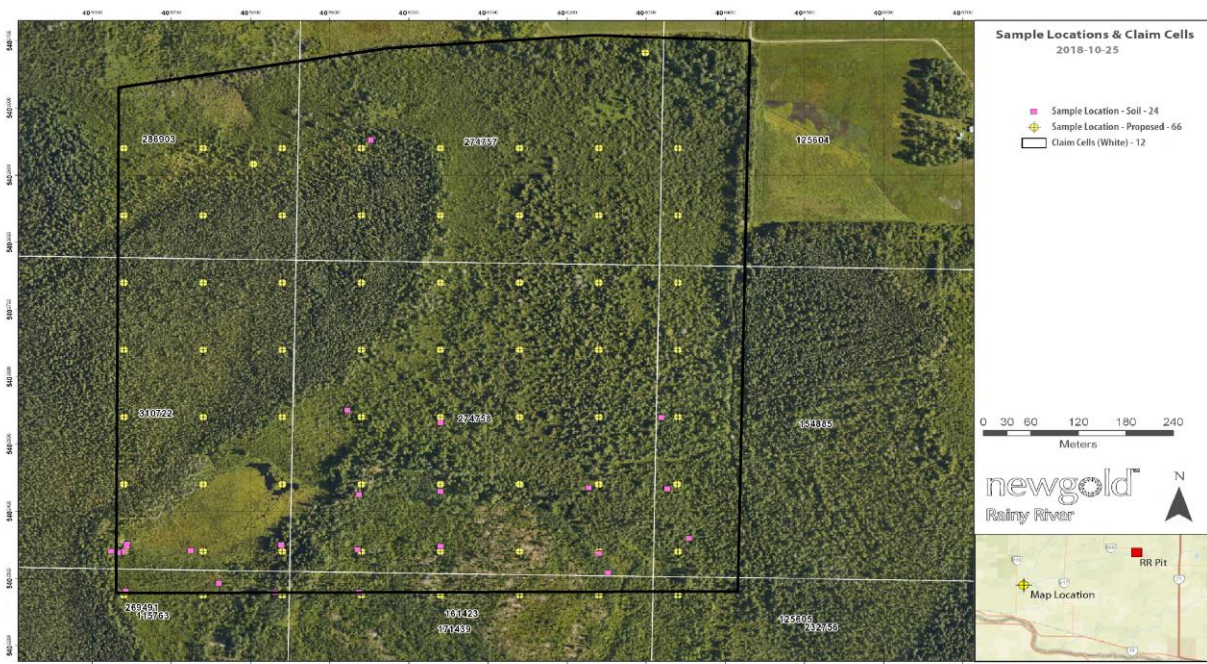


Figure 5: Soil sample locations Note: Samples shown outside of boundary are within the margin of error for the GPS.

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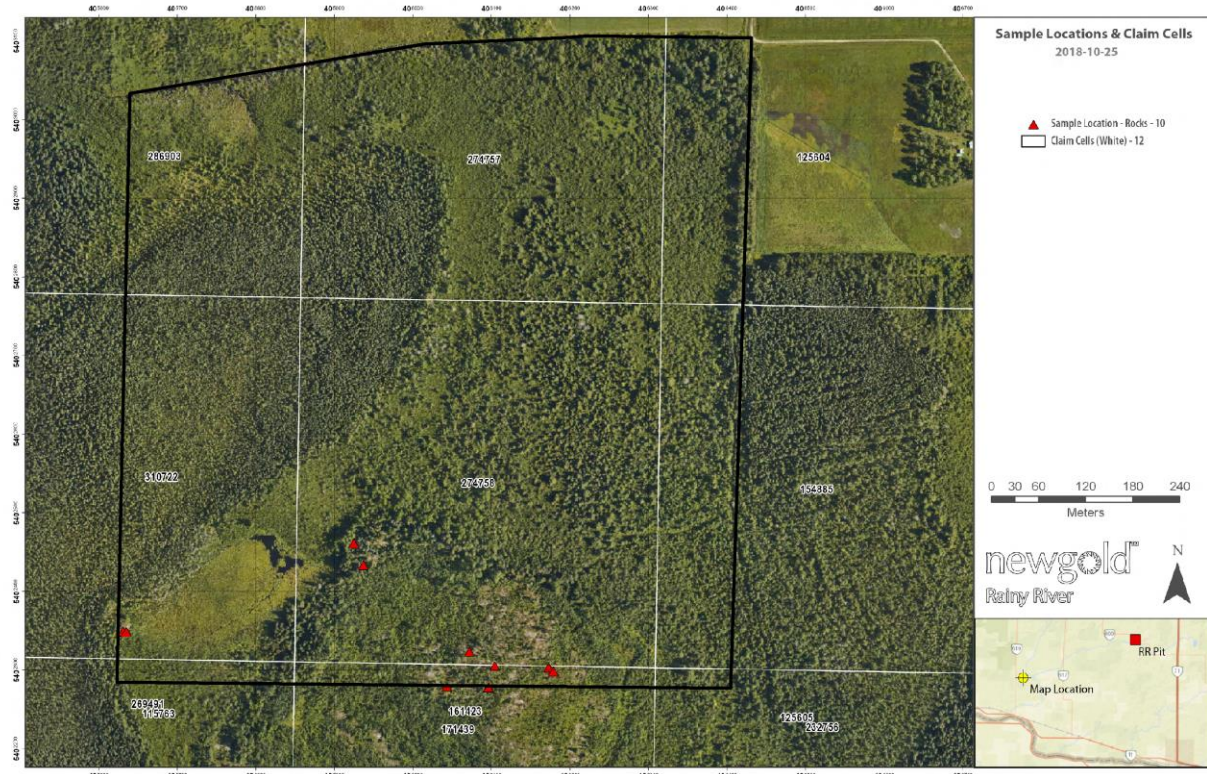


Figure 6: Rock sample locations Note: Samples shown outside of boundary are within the margin of error for the GPS.

Table 1: Proposed sample location information

Proposed ID	UTM_E <sup>1</sup>	UTM_N <sup>1</sup>	RL
P1	405640.02	5402940.04	234.054
P2	405640.02	5402839.97	233.621
P3	405640.03	5402740.01	233.779
P4	405640.03	5402640.05	234.07
P5	405640.03	5402539.98	233.909
P6	405640.04	5402440.02	234.102
P7	405639.97	5402340.07	234.102
P8	405639.97	5402275.02	234.361
P9	405739.96	5402940.02	234.495
P10	405740	5402840.02	233.724
P11	405740	5402740.02	234.881
P12	405740	5402640.02	234.672
P13	405740	5402540.02	234.802
P14	405740	5402440	234.775
P15	405740.01	5402340.05	234.802
P16	405740.01	5402275	234.569
P17	405839.99	5402940.01	234.662
P18	405840	5402840.02	234.662

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P19	405840	5402740.02	234.799
P20	405840	5402640.02	234.789
P21	405840	5402540.02	235.032
P22	405840	5402440.02	234.768
P23	405839.97	5402340.03	234.884
P24	405839.97	5402274.98	234.884
P25	405940.02	5402939.99	235.058
P26	405940	5402840.02	234.976
P27	405940	5402740.02	234.91
P28	405940	5402640.02	235.291
P29	405939.98	5402540.05	235.859
P30	405939.99	5402439.97	235.867
P31	405940	5402340.02	235.988
P32	405940.01	5402274.97	235.867
P33	406040	5402940.02	239.002
P34	406040	5402840.02	238.192
P35	406040	5402740.02	239.135
P36	406040	5402640.02	239
P37	406040.01	5402540.04	239.349
P38	406040.02	5402439.96	239.349
P39	406040.04	5402340.01	238.609
P40	406039.98	5402274.96	239.915
P41	406140	5402940.02	239.423
P42	406140	5402840.02	238.778
P43	406140	5402740.02	239.822
P44	406140	5402640.02	239.838
P45	406140	5402540.02	239.365
P46	406140	5402440.02	239.804
P47	406140	5402340.02	239.727
P48	406140.01	5402275.06	239.801
P49	406240	5402940.02	239.717
P50	406240	5402840.02	239.373
P51	406240	5402740.02	239.473
P52	406240	5402640.02	239.473
P53	406240	5402540.02	238.736
P54	406240.02	5402440.06	238.736
P55	406240.04	5402339.99	238.702
P56	406239.98	5402275.05	238.71
P57	406340	5402940.02	238.514
P58	406340	5402840.02	238.617
P59	406340	5402740.02	238.617
P60	406340.02	5402639.97	238.546
P61	406340.03	5402540	238.461
P62	406339.03	5402440.07	238.509

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P63	406340	5402339.99	238.52
P64	406340.01	5402275.05	238.477
P65	406298.77	5403082.08	338.556
P66	405803.58	5402916.27	339.326

<sup>1</sup> UTM, Zone 15, NAD83, measured by Garmin GPS

### 5.3 Soil Sampling Method

Soil sampling was done using a 1m hand auger. The 1m depth was the limiting factor in the majority of instances. The auger was inserted through the organics until glacial till was intercepted at which point, the organics were then cleared, and the auger reinserted into the till. The till was extracted from the auger and collected in a sample bag, labeled, and a sample tag was inserted. Each site was reclaimed (Figure 7) and (Figure 8), flagged with the sample ID, and photographed.



Figure 7



*Figure 8: Figures 7 and Figure 8: Before and after reclamation of auger holes*

#### **5.4 Rock Sampling Method**

All samples were collected according to NGD standard. Approximately 1.5kg samples of rock chips were collected at points on outcrop determined to be either representative of the outcrop as a whole or anomalous to the outcrop (veins, contacts, structures, alteration changes, etc....). A representative hand sample was kept for reference on site. Each site was photographed (Figure 9), flagged with a station ID, located with a Garmin handheld GPS (table 2).



Figure 9: Type photo for rock sample location

Table 2: Rock Sample Locations

Station	Sample_ID	UTM_N	UTM_E	RL
CML-18-001	V826527	406173.1	5402304	334.88
CML-18-002	V826528	406178.9	5402299	336.876
CML-18-003	V826529	406096.4	5402275	347.463
CML-18-004	V826530	406104.3	5402306	349.951
CML-18-005	V826531	406043.4	5402280	348.674
CML-18-006	V826532	406072	5402324	351.987
CML-18-007	V826533	405937	5402434	343.043
CML-18-008	V826535	405924.9	5402462	345.331
CML-18-009	V826536	405631.2	5402350	343.095
CML-18-010	V826537	405635.3	5402349	340.814

## 5.5 Analytical Procedures

The rock samples were prepared according to NGD protocols (Appendix III) and analyzed for a package of 35 elements aqua regia with an ICP finish (ALS Minerals Code: ME-ICP41). Gold was analyzed by fire assay with an atomic absorption finish (ALS Minerals Code: Au-AA24). Soil Samples were analyzed for

super trace levels of gold (0.1ppb-1.0ppm) and 52 additional elements (ALS Minerals method AuME-ST44). Combined results in appendices (Appendix I)

## 5.6 Analytical Results

No samples returned a significant result for gold. 9ppb was the best soil sample and 62ppb was the best rock sample. The best rock sample assay was associated with oxidized quartz veins (Figure 9). Traditional trace elements used regionally (As, Pb, Zn, Cu) all returned unremarkable results. Only Mn showed some promise as an indicator of proximity to volcanogenic gold potential.

## 6 CONCLUSIONS AND RECOMMENDATIONS

Based on the data available and presented in this report there is no immediate indication of significant gold mineralization at surface on this property. There remains potential for lode gold and/or gold rich volcanogenic deposits on property at depth.

Additional work recommended at present is a drone-based magnetometry survey to cover this claim and the entirety of the block, followed by a more thorough field program of reconnaissance and sampling.

## 7 STATEMENT OF EXPENDITURES

This work assessment report details reconnaissance and sampling during the period

*Table 3: Exploration expenditures\**

Item	Unit	Cost/unit	Number units	Total
Geologist	Day	600	4	\$2,400.00
Field assistant	Day	300	2	\$600.00
Samples	Each	35	34	\$1,190.00
Shipping	Trip	50	1	\$50.00
Misc. field gear	One-time charge	1	50	\$50.00
				<b>\$4,290.00</b>

\*Rounded to the nearest \$10

## 8 REFERENCES

Assessment Files: Ontario Government Web site: <http://www.geologyontario.mndm.gov.on.ca>

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Bajc, A.F. (1988): Reconnaissance Till Sampling in the Fort Frances – Rainy river District, in/Summary of Field Work & Other Activities 1988, OGS Miscel. Paper 141, p.41-420.

(1991a): Till Sampling Survey, Fort Frances Area; Ontario Geological Survey, Study 56,248 11"x17" p. (Map P. 3140)

(1991b): Quaternary Geology, Fort Frances - Rainy River Area; Ontario Geological Survey, Open File Report 5794, 170 p., accompanied by Maps P.3065, P.3137 and P.3138.



## 9 Author Page

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I Christopher Longton, am a Certified Professional Geologist employed by New Gold Inc. of Toronto, Ontario.

I am:

- A practicing member of the American Institute of Professional Geologists (AIPG), member no. 471160.

I graduated from Illinois State University with a Bachelor of Science in 2009 and have practiced in my profession since 2009. Since 2009 I have been involved in:

- regional mapping and sampling in at Red Chris in British Columbia with Imperial Metals
- Sampling, mapping, logging, and regional exploration with New Gold, Inc at Liberty Bell in Alaska (as a contractor);
- Sampling, mapping, logging, and regional exploration with New Gold, Inc at Western Mesquite Mines (as a contractor);
- Gold exploration with New Gold Inc. at the Rainy River Gold Project, Western Mesquite Mines, New Afton Mine, Fifield Project, and the Blackwater Project from 2011 to present.

I continue to work as a Senior Exploration Geologist for New Gold Inc.

Dated at Emo, ON Canada this 18<sup>th</sup> day of October 2018.

*Christopher Longton*

## Appendix I: Combined Assay Results

DataSet	Site_ID	SampleID	Sample_Ty	NAT_Grid	NAT_North	NAT_East	NAT_RL	Au_ppb	Ag_ppm	Al_pct	As_ppm	B_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_pct	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Fe_pct	Ga_ppm	Ge_ppm	Hf_ppm	Hg_ppm	In_ppm	K_pct	La_ppb	Li_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Nb_ppm	Ni_ppm		
RainyRiver CML-Prop-V826501	NAD83_15	405952.1	54022952	338.334																																			
RainyRiver CML-Prop-V826502	NAD83_15	405644.7	5402352	344.056				6	0.058	2.02	12.3	10	92.6	0.56	0.241	0.47	0.043	21.3	13.6	87.7	0.95	57.1	2.38	6.21	0.023	0.056	0.025	0.019	0.05	10150	16.7	0.4	469	0.53	0.023	0.532	42.6		
RainyRiver CML-Prop-V826503	NAD83_15	405643.4	5402347	342.647				9.3	0.107	2.4	9.11	10	146.5	0.91	0.237	0.41	0.088	42.9	21.1	121.5	0.914	113	3.05	7.02	0.043	0.113	0.039	0.025	0.06	20300	18.4	0.53	868	0.58	0.022	0.601	65		
RainyRiver CML-Prop-V826504	NAD83_15	405638.1	5402340	342.793				2	0.067	2.2	6.75	10	127.5	1.58	0.298	0.57	0.028	88.8	19.3	43.6	1.015	27.9	2.61	7.02	0.078	0.153	0.054	0.029	0.16	41300	26.7	0.76	412	0.27	0.009	0.224	41.9		
RainyRiver CML-Prop-V826505	NAD83_15	405633	5402338	341.764				6.8	0.072	2.19	6.86	10	119	1.18	0.251	0.46	0.032	64.3	14.45	42.9	0.966	25.7	2.69	7.16	0.059	0.166	0.041	0.03	0.15	29300	31.5	0.74	366	0.44	0.01	0.182	33.8		
RainyRiver CML-Prop-V826506	NAD83_15	405623.8	5402340	341.832				0.9	0.069	1.8	3.61	10	115	0.81	0.212	0.53	0.113	44.4	9.75	36.1	0.517	17.85	1.94	6.13	0.036	0.19	0.025	0.023	0.11	20500	23.3	0.6	398	0.5	0.009	0.754	24.1		
RainyRiver CML-Prop-V826507	NAD83_15	405642.2	5402274	341.638				0.8	0.071	1.62	4.49	10	111.5	0.74	0.179	2.06	0.049	56.3	10.85	30.4	0.998	13.4	2.14	5.46	0.057	0.137	0.036	0.022	0.18	27600	21.3	1.53	498	0.39	0.009	0.392	27.2		
RainyRiver CML-Prop-V826508	NAD83_15	405759.9	5402293	342.091				0.8	0.073	2.15	6.35	10	125	1.04	0.237	0.58	0.072	60.8	14.4	38.6	0.941	15.7	2.7	7.1	0.058	0.187	0.032	0.026	0.25	27600	22.9	0.72	718	0.31	0.007	0.499	29.9		
RainyRiver CML-Prop-V826509	NAD83_15	405724.6	5402342	338.574				1.2	0.071	1.36	3.58	10	69.7	0.74	0.18	2.66	0.035	41.2	7.54	27	1	13.25	1.9	4.62	0.053	0.13	0.035	0.022	0.17	24500	18.2	1.8	282	0.15	0.011	0.218	23.2		
RainyRiver CML-Prop-V826510	NAD83_15	405838.7	5402349	339.096				1.1	0.087	1.72	4.84	10	97.7	0.66	0.208	0.44	0.053	47.5	9.61	35	1.325	14.7	2.25	5.61	0.054	0.119	0.032	0.022	0.22	23600	16	0.72	359	0.36	0.011	0.443	23.1		
RainyRiver CML-Prop-V826511	NAD83_15	405831.2	5402275	341.672				0.6	0.062	1.31	3.73	10	76	0.57	0.168	0.39	0.072	31.8	9.5	29.2	0.947	9.72	1.66	4.68	0.03	0.054	0.018	0.016	0.19	13550	13.9	0.46	362	0.27	0.011	0.491	17.6		
RainyRiver CML-Prop-V826512	NAD83_15	405936.9	5402275	343.246				0.1	0.031	0.82	2.19	10	47.6	0.3	0.105	0.25	0.031	24.3	6.52	19.3	0.72	5.2	1.05	2.89	0.029	0.037	0.013	0.009	0.11	11450	9.5	0.31	269	0.23	0.006	0.368	11.55		
RainyRiver CML-Prop-V826513	NAD83_15	405935.1	5402343	342.125				0.7	0.034	1.24	2.87	10	83.6	0.4	0.139	0.28	0.024	32.7	8.01	26.1	1	7.75	9.5	1.7	3.79	0.031	0.061	0.016	0.016	0.12	15050	9.1	0.46	338	0.29	0.006	0.348	15.1	
RainyRiver CML-Prop-V826514	NAD83_15	405937.2	5402425	343.203				0.5	0.038	0.99	2.14	10	63.7	0.29	0.106	0.22	0.04	23.5	5.45	15.4	0.612	7.19	1.32	2.86	0.022	0.017	0.019	0.012	0.06	9530	8.3	0.3	302	0.22	0.055	0.478	13.1		
RainyRiver CML-Prop-V826515	NAD83_15	405922.1	5402550	341.856				0.4	0.117	1.99	3.9	20	211	1.04	0.221	0.95	0.318	57	10.3	32.3	1.09	33	2.59	6.06	0.066	0.307	0.027	0.028	0.22	28000	12.3	0.65	495	0.53	0.054	0.992	36.5		
RainyRiver CML-Prop-V826516	NAD83_15	406040.2	5402532	340.461				0.6	0.094	2.25	6.34	20	291	1.14	0.224	0.99	0.145	72.7	32.3	39.3	1.115	23.8	3.24	6.92	0.067	0.267	0.037	0.035	0.21	25300	18.9	0.77	1540	1.17	0.008	0.841	35.9		
RainyRiver CML-Prop-V826517	NAD83_15	406040.1	5402429	342.705				0.4	0.048	1.05	2.5	10	83.2	0.34	0.131	0.31	0.045	26.4	6.04	20.7	0.884	8.54	1.48	3.41	0.031	0.046	0.017	0.013	0.16	12300	8.1	0.41	367	0.26	0.066	0.559	12.8		
RainyRiver CML-Prop-V826518	NAD83_15	406039.9	5402348	345.673				0.5	0.052	1.25	2.53	10	96.9	0.45	0.092	0.4	0.031	33.8	5.21	20.9	0.523	12.5	1.82	3.64	0.043	0.064	0.021	0.015	0.03	20600	16.5	0.37	183.5	0.35	0.03	0.52	13.75		
RainyRiver CML-Prop-V826519	NAD83_15	406252	5402308	340.827				0.5	0.095	0.86	1.93	10	80.6	0.31	0.104	0.28	0.038	26.1	5.24	16.95	0.764	14.1	1.44	2.89	0.025	0.01	0.023	0.01	0.06	12900	8.4	0.3	465	0.43	0.033	0.506	10.6		
RainyRiver CML-Prop-V826521	NAD83_15	406353.9	5402360	339.436				1	0.05	1.31	3.19	10	127	0.6	0.108	0.4	0.023	29.2	5.37	23.1	0.551	10.1	1.71	4.01	0.032	0.055	0.016	0.017	0.08	13900	12.2	0.4	178.5	0.39	0.006	0.359	16.55		
RainyRiver CML-Prop-V826522	NAD83_15	406326.7	5402434	338.532				0.4	0.046	0.88	1.59	10	98.6	0.49	0.097	0.31	0.04	29	5.53	16.4	0.504	11	1.18	2.83	0.036	0.084	0.01	0.012	0.07	14900	10.2	0.32	177	0.34	0.006	0.425	12.65		
RainyRiver CML-Prop-V826523	NAD83_15	406319.1	5402539	338.701				0.3	0.053	1.02	1.55	10	105	0.43	0.086	0.41	0.063	27.7	5.08	18.2	0.467	14.3	1.36	3.32	0.03	0.118	0.012	0.014	0.09	14200	8.6	0.37	163.5	0.29	0.007	0.543	14.5		
RainyRiver CML-Prop-V826525	NAD83_15	406227.6	5402435	291.184				0.4	0.077	1.66	2.33	10	165.5	0.67	0.131	0.64	0.058	33.9	8.53	27.3	0.563	17.9	2.16	4.94	0.04	0.184	0.027	0.024	0.12	18500	11.2	0.57	375	0.23	0.007	0.501	18.7		
RainyRiver CML-Prop-V826526	NAD83_15	406240.2	5402337	304.925				0.3	0.131	1.61	1.97	10	155	0.69	0.179	0.48	0.075	44.9	7.61	25	0.93	16.5	2.25	4.97	0.046	0.069	0.039	0.019	0.08	21000	10.7	0.41	509	0.34	0.059	1.09	16.45		
RainyRiver CML-18-00V826527	Grab	NAD83_15	406173.1	5402304	334.88			2.5	0.1	2.54	3	5	110	0.25	1	1.51	0.25			20	39						0.5	0.17	10000	1.34	329	1	0.19			40			
RainyRiver CML-18-00V826528	Grab	NAD83_15	406178.9	5402299	336.876			2.5	0.1	1.62	1	5	190	0.25	1	2.95	0.25			22	35						0.5	0.51	10000	1	744	1	0.06			34			
RainyRiver CML-18-00V826529	Grab	NAD83_15	406096.4	5402275	347.463			2.5	0.1	2.6	1	5	210	0.25	1	1.25	0.25			25	51						1	0.49	10000	1.9	600	1	0.07			46			
RainyRiver CML-18-00V826530	Grab	NAD83_15	406104.3	5402306	349.951			2.5	0.1	2.54	1	5	220	0.25	1	1.24	0.25			22	60						0.5	0.54	10000	1.87	537	1	0.11			40			
RainyRiver CML-18-00V826531	Grab	NAD83_15	406043.4	5402280	348.674			2.5	0.1	1.4	1	5	230	0.25	1	0.74	0.25			15	60						0.5	0.49	10000	0.99	345	1	0.07			36			
RainyRiver CML-18-00V826532	Grab	NAD83_15	406072	5402324	351.987			2.5	0.1	2.08	1	5	100	0.25	1	1.02	0.25			19	53						1	0.23	10000	1.41	416	1	0.09			35			
RainyRiver CML-18-00V826533	Grab	NAD83_15	405937	5402434	343.043			2.5	0.1	2.35	1	5	140	0.25	1	0.9	0.25			30	37						0.5	0.71	10000	1.23	875	1	0.06			118			
RainyRiver CML-18-00V826535	Grab	NAD83_15	405924.9	5402462	345.331			2.5	0.1	1.81	2	5	240	0.25	1	2.09	0.25			18	53						0.5	0.47	10000	1.15	776	1	0.1						

DataSet	Site_ID	SampleID	Sample_Ty	NAT_Grid	NAT_North	NAT_East	NAT_RL	P_ppm	Pb_ppm	Pd_ppb	Pt_ppb	Rb_ppm	Re_ppm	S_pct	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Te_ppm	Th_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	Zr_ppm	Ce_ppb	Pd_ppm	Pt_ppm	La_ppm	NP	NPR	
RainyRiver CML-Prop-V826501		Soil	NAD83_15	405952.1	5402952	338.334																															
RainyRiver CML-Prop-V826502		Soil	NAD83_15	405644.7	5402352	344.056	400	9.06	2	2	2	8.94	0.001	0.04	0.078	3.72	0.5	0.52	11.1	0.0025	0.04	2.82	0.011	0.115	0.825	51.6	0.118	4.41	50.2	2.34	21300	0.002	0.002	10150	11.703	9.3624	
RainyRiver CML-Prop-V826503		Soil	NAD83_15	405643.4	5402347	342.647	460	9.58	6	2	2	9.57	0.001	0.05	0.089	6.28	0.5	0.58	13.1	0.0025	0.05	3.64	0.013	0.122	0.959	60.5	0.154	10.6	67.3	4.31	42900	0.006	0.002	20300	10.209	6.53376	
RainyRiver CML-Prop-V826504		Soil	NAD83_15	405638.1	5402340	342.793	310	12.55	2	1	1	18.85	0.0005	0.02	0.184	6.47	0.3	0.82	23.8	0.0025	0.05	9.62	0.01	0.21	0.802	49.1	0.038	18.7	55.9	8.27	88800	0.002	0.001	41300	14.193	22.7088	
RainyRiver CML-Prop-V826505		Soil	NAD83_15	405633	5402338	341.764	270	11.4	1	1	1	20.7	0.0005	0.02	0.132	6.34	0.1	0.77	31.8	0.0025	0.04	8.86	0.012	0.195	0.692	50.7	0.033	12.4	51.9	7.89	64300	0.001	0.001	29300	11.454	18.3264	
RainyRiver CML-Prop-V826506		Soil	NAD83_15	405623.8	5402340	341.832	310	9.87	1	1	1	19.05	0.002	0.04	0.055	4.32	0.5	0.67	29.4	0.0025	0.02	5.11	0.011	0.149	5.68	38	0.032	7.76	49.7	7.05	44400	0.001	0.001	20500	13.197	10.5576	
RainyRiver CML-Prop-V826507		Soil	NAD83_15	405642.2	5402274	341.638	480	8.49	1	1	1	25.3	0.001	0.03	0.085	4.03	0.2	0.6	25.5	0.0025	0.02	7.25	0.02	0.199	1.13	35.3	0.041	11.2	46.4	6.15	56300	0.001	0.001	27600	51.294	54.7136	
RainyRiver CML-Prop-V826508		Soil	NAD83_15	405724.6	5402342	338.574	320	12	0.5	1	1	35.4	0.001	0.03	0.088	4.94	0.4	0.77	21	0.0025	0.03	7.22	0.014	0.231	0.759	43.7	0.038	11.1	70.4	7.16	60800	0.0005	0.001	27600	14.442	15.4048	
RainyRiver CML-Prop-V826509		Soil	NAD83_15	405831.2	5402275	341.672	310	8.77	0.5	1	1	23.6	0.0005	0.02	0.08	3.43	0.2	0.51	28.3	0.0025	0.02	4.62	0.013	0.208	0.949	28.2	0.036	11.05	41.7	5.19	41200	0.001	0.001	24500	66.234	105.9744	
RainyRiver CML-Prop-V826510		Soil	NAD83_15	405838.7	5402349	339.096	330	8.68	1	1	1	34	0.001	0.04	0.094	3.74	0.4	0.63	24.7	0.0025	0.01	5.84	0.021	0.208	1.9	35.9	0.083	9.18	63.6	4.93	47500	0.001	0.001	23600	10.956	8.7648	
RainyRiver CML-Prop-V826511		Soil	NAD83_15	405831.2	5402275	341.672	310	8.77	0.5	1	1	39.8	0.0005	0.03	0.072	2.9	0.3	0.47	15	0.0025	0.02	3.4	0.017	0.184	0.76	30.4	0.038	4.6	46.3	2.28	31800	0.0005	0.001	13550	9.711	10.3584	
RainyRiver CML-Prop-V826512		Soil	NAD83_15	405936.9	5402275	343.246	270	5.46	0.5	0.5	0.5	30.8	0.001	0.02	0.035	1.87	0.3	0.27	10.35	0.0025	0.01	2.83	0.019	0.118	0.644	18.8	0.032	3.77	26.9	1.52	24300	0.0005	0.0005	11450	6.225	9.96	
RainyRiver CML-Prop-V826513		Soil	NAD83_15	405935.1	5402343	342.125	260	7.54	0.5	1	1	22.4	0.0005	0.02	0.054	2.64	0.3	0.45	12.05	0.0025	0.03	4.26	0.021	0.142	0.995	29.7	0.037	4.56	41.8	2.27	32700	0.0005	0.001	15050	6.972	11.1552	
RainyRiver CML-Prop-V826514		Soil	NAD83_15	405937.2	5402425	343.203	380	7.22	0.5	0.5	0.5	15.75	0.0005	0.07	0.056	1.54	0.3	0.3	8.52	0.0025	0.01	2.02	0.019	0.093	0.586	22.6	0.047	2.61	28.3	0.57	23500	0.0005	0.0005	9530	5.478	2.504229	
RainyRiver CML-Prop-V826515		Soil	NAD83_15	405922.1	5402550	341.856	370	13.5	0.5	2	2	36.2	0.002	0.15	0.093	5.02	1	0.72	28.9	0.0025	0.04	6.77	0.026	0.221	4.04	46.9	0.059	11.3	83.4	10.2	57000	0.0005	0.002	28000	23.655	5.0464	
RainyRiver CML-Prop-V826516		Soil	NAD83_15	406040.2	5402532	340.461	380	15.35	0.5	2	2	27.3	0.002	0.11	0.124	5.51	0.7	0.78	30.4	0.0025	0.07	6.51	0.026	0.229	1.925	59.8	0.067	10.95	74.9	9.2	72700	0.0005	0.002	25300	24.651	7.88832	
RainyRiver CML-Prop-V826517		Soil	NAD83_15	406040.1	5402429	342.705	290	6.96	0.5	0.5	0.5	41.6	0.0005	0.08	0.05	2.16	0.3	2.39	11.9	0.0025	0.02	2.95	0.028	0.162	0.569	26	0.04	3.56	37.5	1.49	26400	0.0005	0.0005	12300	7.719	3.0876	
RainyRiver CML-Prop-V826518		Soil	NAD83_15	406039.9	5402348	345.673	590	6.04	0.5	1	1	6.95	0.001	0.05	0.058	3.15	0.3	0.38	10.65	0.0025	0.01	4.28	0.028	0.07	0.608	35.2	0.133	7.44	31.5	1.96	33800	0.0005	0.001	20600	9.96	6.3744	
RainyRiver CML-Prop-V826519		Soil	NAD83_15	406252	5402308	340.827	390	6.2	0.5	0.5	0.5	23.3	0.0005	0.05	0.049	1.675	0.3	0.32	9.66	0.0025	0.02	2.3	0.028	0.1	0.712	27.5	0.066	3.04	27.7	0.36	26100	0.0005	0.0005	12900	6.972	4.46208	
RainyRiver CML-Prop-V826521		Soil	NAD83_15	406353.9	5402360	339.436	270	7.78	0.5	1	1	11.15	0.0005	0.03	0.065	3.21	0.3	0.45	14.95	0.0025	0.02	4.5	0.012	0.121	1.21	37.2	0.033	5.85	29	5.87	29200	0.0005	0.001	13900	9.96	10.624	
RainyRiver CML-Prop-V826522		Soil	NAD83_15	406326.7	5402434	338.532	180	6.92	0.5	0.5	0.5	17.7	0.001	0.03	0.027	2.24	0.3	0.31	15.55	0.0025	0.01	3.67	0.016	0.101	2.1	21.6	0.025	5.64	26.6	3.1	29000	0.0005	0.0005	14900	7.719	8.2336	
RainyRiver CML-Prop-V826523		Soil	NAD83_15	406319.1	5402539	338.701	240	6.36	0.5	1	1	19.3	0.001	0.03	0.026	2.5	0.3	0.39	20.6	0.0025	0.01	3.65	0.016	0.107	2.66	21.5	0.024	5.24	32.7	3.85	27700	0.0005	0.001	14200	10.209	10.8896	
RainyRiver CML-Prop-V826525		Soil	NAD83_15	406227.6	5402435	291.184	390	7.84	0.5	1	1	19.95	0.001	0.04	0.052	3.51	0.3	0.59	19.95	0.0025	0.01	3.73	0.014	0.136	0.965	30.1	0.048	8.16	75.3	4.67	33900	0.0005	0.001	18500	15.936	12.7488	
RainyRiver CML-Prop-V826526		Soil	NAD83_15	406240.2	5402337	304.925	350	9.44	0.5	1	1	25.3	0.0005	0.08	0.079	3.1	0.5	0.59	12.2	0.0025	0.02	3.25	0.019	0.144	1.175	37.2	0.079	6.68	53.1	1.74	44900	0.0005	0.001	21000	11.952	4.7808	
RainyRiver CML-18-0C-V826527		Grab	NAD83_15	406173.1	5402304	334.88	430	5							0.02	1	5					10	0.11	5	5	86	5						10000	37.599	60.1584		
RainyRiver CML-18-0C-V826528		Grab	NAD83_15	406178.9	5402299	336.876	440	2							0.02	1	8					10	0.11	5	5	104	5						10000	73.455	117.528		
RainyRiver CML-18-0C-V826529		Grab	NAD83_15	406096.4	5402275	347.463	540	2							0.01	1	7					10	0.16	5	5	116	5						10000	31.125	99.6		
RainyRiver CML-18-0C-V826530		Grab	NAD83_15	406104.3	5402306	349.951	700	2							0.01	1	7					10	0.15	5	5	111	5						10000	30.876	98.8032		
RainyRiver CML-18-0C-V826531		Grab	NAD83_15	406043.4	5402280	348.674	440	3							0.02	1	4					10	0.12	5	5	59	5						10000	18.426	29.4816		
RainyRiver CML-18-0C-V826532		Grab	NAD83_15	406072	5402324	351.987	580	1							0.01	1	5					10	0.12	5	5	77	5						10000	25.398	81.2736		
RainyRiver CML-18-0C-V826533		Grab	NAD83_15	405937	5402434	343.043	520	2							0.01	1	15					10	0.13	5	5	98	5						10000	52.041	83.2656		
RainyRiver CML-18-0C-V826535		Grab	NAD83_15	405924.9	5402462	345.331	580	1							0.02	1	7					10	0.13	5	5	88	5						10000	52.041	83.2656		
RainyRiver CML-18-0C-V826536		Grab	NAD83_15	405631.2	5402350	343.095	180	2							0.02	2	6					10	0.06	5	5	54	5				</						

Appendix II: Assay Certificates



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: NEW GOLD INC. - RAINY RIVER PROJECT  
 EXPLORATION  
 5967 HIGHWAY 11/71, P.O. BOX 5  
 EMO ON POW 1E0

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-OCT-2018  
 This copy reported on  
 18-OCT-2018  
 Account: RRREXG

**CERTIFICATE TB18246087**

Project: RRG-EXP-2018-Cov  
 P.O. No.: 4500025006  
 This report is for 26 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 27-SEP-2018.  
 The following have access to data associated with this certificate:  
 RAINY RIVER AP      JOHN BLIGH      CHRISTOPHER LONGTON


**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-41	Screen to -180um and save both
LOG-21	Sample logging - ClientBarCode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
AuME-ST44	50g Super Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.  
 \*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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To: NEW GOLD INC. - RAINY RIVER PROJECT  
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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 15-OCT-2018  
 Account: RRRREG

Project: RRG-EXP-2018-Cov

**CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	WEI-21	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm		
V826501		0.21	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
V826502		0.57	0.0060	0.058	2.02	12.30	10	92.6	0.56	0.241	0.47	0.043	21.3	13.60	87.7	0.950		
V826503		0.51	0.0093	0.107	2.40	9.11	10	146.5	0.91	0.237	0.41	0.088	42.9	21.1	121.5	0.914		
V826504		0.53	0.0020	0.067	2.20	6.75	10	127.5	1.58	0.298	0.57	0.028	88.8	19.30	43.6	1.015		
V826505		0.57	0.0068	0.072	2.19	6.86	10	119.0	1.18	0.251	0.46	0.032	64.3	14.45	42.9	0.966		
V826506		0.54	0.0009	0.069	1.80	3.61	10	115.0	0.81	0.212	0.53	0.113	44.4	9.75	36.1	0.517		
V826507		0.68	0.0008	0.071	1.62	4.49	10	111.5	0.74	0.179	2.06	0.049	56.3	10.85	30.4	0.998		
V826508		0.46	0.0008	0.073	2.15	6.35	10	125.0	1.04	0.237	0.58	0.072	60.8	14.40	38.6	0.941		
V826509		0.54	0.0012	0.071	1.36	3.58	10	69.7	0.74	0.180	2.66	0.035	41.2	7.54	27.0	1.000		
V826510		0.46	0.0011	0.087	1.72	4.84	10	97.7	0.66	0.208	0.44	0.053	47.5	9.61	35.0	1.325		
V826511		0.48	0.0006	0.062	1.31	3.73	10	76.0	0.57	0.168	0.39	0.072	31.8	9.50	29.2	0.947		
V826512		0.52	0.0001	0.031	0.82	2.19	10	47.6	0.30	0.105	0.25	0.031	24.3	6.52	19.30	0.720		
V826513		0.47	0.0007	0.034	1.24	2.87	10	83.6	0.40	0.139	0.28	0.024	32.7	8.01	26.1	0.775		
V826514		0.46	0.0005	0.038	0.99	2.14	10	63.7	0.29	0.106	0.22	0.040	23.5	5.45	15.40	0.612		
V826515		0.46	0.0004	0.117	1.99	3.90	20	211	1.04	0.221	0.95	0.318	57.0	10.30	32.3	1.090		
V826516		0.55	0.0006	0.094	2.25	6.34	20	291	1.14	0.224	0.99	0.145	72.7	32.3	39.3	1.115		
V826517		0.60	0.0004	0.048	1.05	2.50	10	83.2	0.34	0.131	0.31	0.045	26.4	6.04	20.7	0.884		
V826518		0.55	0.0005	0.052	1.25	2.53	10	96.9	0.45	0.092	0.40	0.031	33.8	5.21	20.9	0.523		
V826519		0.54	0.0005	0.095	0.86	1.93	10	80.6	0.31	0.104	0.28	0.038	26.1	5.24	16.95	0.764		
V826520		0.53	0.0010	0.083	1.92	3.17	20	176.0	0.93	0.175	0.57	0.062	49.3	11.20	34.2	1.175		
V826521		0.59	0.0010	0.050	1.31	3.19	10	127.0	0.80	0.108	0.40	0.023	29.2	5.37	23.1	0.551		
V826522		0.72	0.0004	0.048	0.88	1.59	10	96.6	0.49	0.097	0.31	0.040	29.0	5.53	16.40	0.504		
V826523		0.71	0.0003	0.053	1.02	1.55	10	105.0	0.43	0.086	0.41	0.063	27.7	5.08	18.20	0.467		
V826524		Not Recd																
V826525		0.56	0.0004	0.077	1.66	2.33	10	165.5	0.67	0.131	0.64	0.058	33.9	8.53	27.3	0.563		
V826526		0.49	0.0003	0.131	1.61	1.97	10	155.0	0.69	0.179	0.48	0.075	44.9	7.61	25.0	0.930		

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Account: RRREXG

Project: RRG-EXP-2018-Cov

**CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Cu ppm 0.01	Fe % 0.001	Ga ppm 0.004	Ge ppm 0.005	HF ppm 0.002	Hg ppm 0.004	In ppm 0.005	K % 0.01	La ppm 0.002	Li ppm 0.1	Mg % 0.01	Mn ppm 0.1	Mo ppm 0.01	Na % 0.001	Nb ppm 0.002	NSS
V826501		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
V826502		57.1	2.38	6.21	0.023	0.056	0.025	0.019	0.05	10.15	16.7	0.40	469	0.53	0.023	0.532	0.532
V826503		113.0	3.05	7.02	0.043	0.113	0.039	0.025	0.06	20.3	18.4	0.53	868	0.58	0.022	0.601	0.601
V826504		27.9	2.61	7.02	0.078	0.153	0.054	0.029	0.16	41.3	26.7	0.76	412	0.27	0.009	0.224	0.224
V826505		25.7	2.69	7.16	0.059	0.166	0.041	0.030	0.15	29.3	31.5	0.74	366	0.44	0.010	0.182	0.182
V826506		17.85	1.940	6.13	0.036	0.190	0.025	0.023	0.11	20.5	23.3	0.60	398	0.50	0.009	0.754	0.754
V826507		13.40	2.14	5.46	0.057	0.137	0.036	0.022	0.18	27.6	21.3	1.53	498	0.39	0.009	0.392	0.392
V826508		15.70	2.70	7.10	0.058	0.187	0.032	0.026	0.25	27.6	22.9	0.72	718	0.31	0.007	0.499	0.499
V826509		13.25	1.900	4.62	0.053	0.130	0.035	0.022	0.17	24.5	18.2	1.80	282	0.15	0.011	0.218	0.218
V826510		14.70	2.25	5.61	0.054	0.119	0.032	0.022	0.22	23.6	16.0	0.72	359	0.36	0.011	0.443	0.443
V826511		9.72	1.660	4.68	0.030	0.054	0.018	0.016	0.19	13.55	13.9	0.46	362	0.27	0.011	0.491	0.491
V826512		5.20	1.050	2.89	0.029	0.037	0.013	0.009	0.11	11.45	9.5	0.31	269	0.23	0.006	0.368	0.368
V826513		9.50	1.700	3.79	0.031	0.061	0.016	0.016	0.12	15.05	9.1	0.46	338	0.29	0.006	0.348	0.348
V826514		7.19	1.320	2.86	0.022	0.017	0.019	0.012	0.06	9.53	8.3	0.30	302	0.22	0.055	0.478	0.478
V826515		33.0	2.59	6.06	0.066	0.307	0.027	0.028	0.22	28.0	12.3	0.85	495	0.53	0.054	0.992	0.992
V826516		23.8	3.24	6.92	0.067	0.267	0.037	0.035	0.21	25.3	18.9	0.77	1540	1.17	0.008	0.841	0.841
V826517		8.54	1.490	3.41	0.031	0.046	0.017	0.013	0.16	12.30	8.1	0.41	367	0.26	0.066	0.559	0.559
V826518		12.50	1.820	3.84	0.043	0.064	0.021	0.015	0.03	20.6	16.5	0.37	183.5	0.35	0.030	0.520	0.520
V826519		14.10	1.440	2.89	0.025	0.010	0.023	0.010	0.06	12.90	8.4	0.30	465	0.43	0.033	0.506	0.506
V826520		15.85	2.44	5.91	0.063	0.189	0.039	0.019	0.20	23.7	18.8	0.72	561	0.38	0.009	0.452	0.452
V826521		10.10	1.710	4.01	0.032	0.155	0.016	0.017	0.08	13.90	12.2	0.40	178.5	0.39	0.006	0.359	0.359
V826522		11.00	1.180	2.83	0.036	0.084	0.010	0.012	0.07	14.90	10.2	0.32	177.0	0.34	0.006	0.425	0.425
V826523		14.30	1.360	3.32	0.030	0.118	0.012	0.014	0.09	14.20	8.6	0.37	163.5	0.29	0.007	0.543	0.543
V826524																	
V826525		17.90	2.16	4.94	0.040	0.184	0.027	0.024	0.12	18.50	11.2	0.57	375	0.23	0.007	0.501	0.501
V826526		16.50	2.25	4.97	0.046	0.069	0.039	0.019	0.08	21.0	10.7	0.41	509	0.34	0.059	1.090	1.090

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 5967 HIGHWAY 11/71, P.O. BOX 5  
 EMO ON POW 1E0

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 Account: RRREGX

Project: RRG-EXP-2018-Cov

**CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm		
V826501		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
V826502		42.6	0.040	9.06	0.002	0.002	8.94	0.001	0.04	0.078	3.72	0.5	0.52	11.10	<0.005	0.04		
V826503		65.0	0.048	9.58	0.008	0.002	9.57	0.001	0.05	0.089	6.28	0.5	0.58	13.10	<0.005	0.05		
V826504		41.9	0.031	12.55	0.002	0.001	18.85	<0.001	0.02	0.184	6.47	0.3	0.82	23.8	<0.005	0.05		
V826505		33.8	0.027	11.40	0.001	0.001	20.7	<0.001	0.02	0.132	6.34	0.1	0.77	31.8	<0.005	0.04		
V826506		24.1	0.031	9.87	0.001	0.001	19.05	0.002	0.04	0.055	4.32	0.5	0.67	29.4	<0.005	0.02		
V826507		27.2	0.048	8.49	0.001	0.001	25.3	0.001	0.03	0.085	4.03	0.2	0.60	25.5	<0.005	0.02		
V826508		29.9	0.032	12.00	<0.001	0.001	35.4	0.001	0.03	0.088	4.94	0.4	0.77	21.0	<0.005	0.03		
V826509		23.2	0.050	7.71	0.001	0.001	23.6	<0.001	0.02	0.080	3.43	0.2	0.51	28.3	<0.005	0.02		
V826510		23.1	0.033	8.88	0.001	0.001	34.0	0.001	0.04	0.094	3.74	0.4	0.63	24.7	<0.005	0.01		
V826511		17.60	0.031	8.77	<0.001	0.001	39.8	<0.001	0.03	0.072	2.90	0.3	0.47	16.00	<0.005	0.02		
V826512		11.55	0.027	5.48	<0.001	<0.001	30.8	0.001	0.02	0.035	1.870	0.3	0.27	10.35	<0.005	0.01		
V826513		15.10	0.028	7.54	<0.001	0.001	22.4	<0.001	0.02	0.054	2.84	0.3	0.45	12.05	<0.005	0.03		
V826514		13.10	0.038	7.22	<0.001	<0.001	15.75	<0.001	0.07	0.056	1.540	0.3	0.30	8.52	<0.005	0.01		
V826515		36.5	0.037	13.50	<0.001	0.002	36.2	0.002	0.15	0.093	5.02	1.0	0.72	28.9	<0.005	0.04		
V826516		35.9	0.038	15.35	<0.001	0.002	27.3	0.002	0.10	0.124	5.51	0.7	0.78	30.4	<0.005	0.07		
V826517		12.80	0.029	6.96	<0.001	<0.001	41.6	<0.001	0.08	0.050	2.16	0.3	2.39	11.90	<0.005	0.02		
V826518		13.75	0.059	6.04	<0.001	0.001	6.95	0.001	0.05	0.058	3.15	0.3	0.38	10.65	<0.005	0.01		
V826519		10.80	0.039	6.20	<0.001	<0.001	23.3	<0.001	0.05	0.049	1.875	0.3	0.32	9.66	<0.005	0.02		
V826520		28.4	0.035	10.45	<0.001	0.002	26.4	0.001	0.06	0.111	4.60	0.4	0.67	25.7	<0.005	0.04		
V826521		16.55	0.027	7.78	<0.001	0.001	11.15	<0.001	0.03	0.085	3.21	0.3	0.45	14.95	<0.005	0.02		
V826522		12.85	0.018	6.92	<0.001	<0.001	17.70	0.001	0.03	0.027	2.24	0.3	0.31	15.55	<0.005	0.01		
V826523		14.50	0.024	6.36	<0.001	0.001	19.30	0.001	0.03	0.026	2.50	0.3	0.39	20.6	<0.005	0.01		
V826524																		
V826525		18.70	0.039	7.84	<0.001	0.001	19.95	0.001	0.04	0.052	3.51	0.3	0.59	19.95	<0.005	0.01		
V826526		16.45	0.035	9.44	<0.001	0.001	25.3	<0.001	0.08	0.079	3.10	0.5	0.59	12.20	<0.005	0.02		

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**CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Th ppm 0.002	Ti % 0.001	Tl ppm 0.002	U ppm 0.005	V ppm 0.1	W ppm 0.001	Y ppm 0.003	Zn ppm 0.1	Zr ppm 0.01
V826501	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
V826502	2.82	0.011	0.115	0.825	51.6	0.118	4.41	50.2	2.34	
V826503	3.64	0.013	0.122	0.959	60.5	0.154	10.60	67.3	4.31	
V826504	9.62	0.010	0.210	0.802	49.1	0.038	18.70	55.9	8.27	
V826505	8.86	0.012	0.195	0.692	50.7	0.033	12.40	51.9	7.89	
V826506	5.11	0.011	0.149	6.68	38.0	0.032	7.76	49.7	7.05	
V826507	7.25	0.020	0.199	1.130	35.3	0.041	11.20	46.4	6.15	
V826508	7.22	0.014	0.231	0.759	43.7	0.038	11.10	70.4	7.16	
V826509	4.62	0.013	0.208	0.949	28.2	0.036	11.05	41.7	5.19	
V826510	5.84	0.021	0.208	1.900	35.9	0.083	9.18	63.6	4.93	
V826511	3.40	0.017	0.184	0.760	30.4	0.038	4.60	46.3	2.28	
V826512	2.83	0.019	0.118	0.644	18.8	0.032	3.77	26.9	1.52	
V826513	4.28	0.021	0.142	0.995	29.7	0.037	4.56	41.8	2.27	
V826514	2.02	0.019	0.093	0.586	22.6	0.047	2.61	28.3	0.57	
V826515	6.77	0.026	0.221	4.04	46.9	0.059	11.30	83.4	10.20	
V826516	6.51	0.026	0.229	1.925	59.8	0.067	10.95	74.9	9.20	
V826517	2.95	0.028	0.162	0.569	26.0	0.040	3.56	37.5	1.49	
V826518	4.28	0.028	0.070	0.808	35.2	0.133	7.44	31.5	1.96	
V826519	2.30	0.028	0.100	0.712	27.5	0.068	3.04	27.7	0.36	
V826520	5.85	0.023	0.215	1.875	43.1	0.051	10.30	61.3	6.85	
V826521	4.60	0.012	0.121	1.210	37.2	0.033	5.85	29.0	5.87	
V826522	3.67	0.016	0.101	2.10	21.6	0.025	5.64	26.6	3.10	
V826523	3.65	0.016	0.107	2.66	21.5	0.024	5.24	32.7	3.85	
V826524										
V826525	3.73	0.014	0.136	0.965	30.1	0.048	8.16	75.3	4.67	
V826526		3.25	0.019	0.144	1.175	37.2	0.079	6.68	53.1	1.74

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Account: RRREXG

Project: RRG-EXP-2018-Cov

**CERTIFICATE OF ANALYSIS TB18246087**

CERTIFICATE COMMENTS	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada LOG-21 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. AuME-ST44



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**QC CERTIFICATE TB18246087**

Project: RRGp-EXP-2018-Cov

P.O. No.: 4500025006

This report is for 26 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 27-SEP-2018.

The following have access to data associated with this certificate:

RAINY RIVER AP

JOHN BLIGH

CHRISTOPHER LONGTON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-41	Screen to -180um and save both
LOG-21	Sample logging - ClientBarCode

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
AuME-ST44	50g Super Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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To: **NEW GOLD INC. - RAINY RIVER PROJECT**  
**EXPLORATION**  
**5967 HIGHWAY 11/71, P.O. BOX 5**  
**EMO ON POW 1E0**

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 Finalized Date: 15-OCT-2018  
 Account: RRREXG

Project: RRG-EXP-2018-Cov

**QC CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01
<b>STANDARDS</b>																
MGeo08		0.0036	4.42	2.51	31.9	10	103.5	0.60	0.632	0.94	2.02	70.9	17.15	85.0	10.25	662
Target Range - Lower Bound		0.0034	4.01	2.23	29.7	<10	111.5	0.72	0.612	0.86	2.02	66.2	17.10	79.7	9.49	587
Upper Bound		0.0044	4.91	2.75	36.3	30	152.0	0.90	0.750	1.08	2.47	81.0	20.9	97.5	11.60	675
OREAS 503c		0.680	0.861	2.03	36.7	10	41.5	0.48	0.561	1.03	0.198	56.1	12.75	63.0	8.54	5700
Target Range - Lower Bound		0.623	0.760	1.77	31.9	<10	33.5	0.41	0.518	0.87	0.161	50.4	12.35	56.5	7.65	4890
Upper Bound		0.761	0.931	2.19	39.0	20	46.5	0.53	0.636	1.09	0.199	61.6	15.05	69.1	9.36	5630
OREAS 905		0.372	0.524	0.68	33.7	10	207	1.01	5.20	0.31	0.300	75.5	14.40	17.70	1.105	1510
Target Range - Lower Bound		0.352	0.463	0.67	30.0	<10	196.5	0.83	5.17	0.27	0.305	68.2	12.50	15.85	1.065	1455
Upper Bound		0.430	0.569	0.84	36.6	20	267	1.03	6.32	0.35	0.375	83.4	15.30	19.35	1.315	1670
OREAS-45d		0.0189	0.115	4.10	6.07	10	77.1	0.42	0.243	0.08	0.024	22.4	24.3	391	1.900	323
Target Range - Lower Bound		0.0188	0.107	4.14	5.31	<10	67.5	0.49	0.229	0.06	0.021	20.2	23.6	390	1.905	321
Upper Bound		0.0232	0.133	5.08	6.51	30	92.5	0.62	0.282	0.10	0.028	24.6	28.8	476	2.34	369
<b>BLANKS</b>																
BLANK		<0.0001	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	0.01	<0.005	<0.01
BLANK		<0.0001	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	0.02	<0.005	<0.01
Target Range - Lower Bound		<0.0001	<0.001	<0.01	<0.01	<10	<0.5	<0.01	<0.001	<0.01	<0.001	<0.003	<0.001	<0.01	<0.005	<0.01
Upper Bound		0.0002	0.002	0.02	0.02	20	1.0	0.02	0.002	0.02	0.002	0.006	0.002	0.02	0.010	0.02
<b>DUPLICATES</b>																
V826502		0.0060	0.058	2.02	12.30	10	92.6	0.56	0.241	0.47	0.043	21.3	13.60	87.7	0.950	57.1
DUP		0.0068	0.056	1.89	12.60	<10	90.2	0.63	0.164	0.46	0.042	20.2	13.05	83.4	0.831	55.7
Target Range - Lower Bound		0.0060	0.053	1.85	11.80	<10	84.0	0.56	0.191	0.43	0.039	19.70	12.65	81.3	0.841	54.4
Upper Bound		0.0068	0.061	2.06	13.10	20	98.8	0.63	0.214	0.50	0.046	21.8	14.00	89.8	0.940	58.4
V826522		0.0004	0.046	0.88	1.59	10	98.6	0.49	0.097	0.31	0.040	29.0	5.53	16.40	0.504	11.00
DUP		0.0003	0.045	0.94	1.65	10	99.5	0.49	0.097	0.31	0.042	29.3	5.54	16.90	0.519	11.40
Target Range - Lower Bound		0.0002	0.042	0.85	1.53	<10	91.1	0.46	0.091	0.28	0.038	27.7	5.26	15.80	0.481	10.80
Upper Bound		0.0005	0.049	0.97	1.71	20	107.0	0.52	0.103	0.34	0.044	30.6	5.81	17.50	0.542	11.60



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Project: RRG-EXP-2018-Cov

**QC CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	
		Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm
<b>STANDARDS</b>																
MGeo08		3.87	9.13	0.121	0.438	0.067	0.150	1.33	34.6	25.9	1.20	397	13.25	0.293	0.267	730
Target Range - Lower Bound		3.23	8.77	0.117	0.428	0.047	0.137	1.12	32.6	29.1	1.01	341	13.10	0.277	0.228	623
Upper Bound		3.95	10.75	0.155	0.528	0.075	0.179	1.40	39.8	35.7	1.25	417	16.05	0.341	0.284	761
OREAS 503c		5.11	9.10	0.159	0.246	0.037	0.049	1.08	27.2	32.7	1.27	363	314	0.170	0.408	38.6
Target Range - Lower Bound		4.21	7.74	0.124	0.241	0.024	0.038	0.90	24.4	26.6	1.05	306	265	0.148	0.448	33.1
Upper Bound		5.15	9.46	0.162	0.299	0.048	0.064	1.12	29.8	32.8	1.31	374	323	0.183	0.552	40.5
OREAS 905		3.22	5.59	0.076	0.627	0.014	0.542	0.25	38.1	4.9	0.14	308	3.04	0.077	0.093	9.10
Target Range - Lower Bound		3.15	5.41	0.076	0.393	0.005	0.517	0.24	34.1	4.0	0.11	294	2.69	0.076	0.093	7.97
Upper Bound		3.85	6.63	0.105	0.485	0.023	0.643	0.32	41.7	5.1	0.17	360	3.31	0.095	0.119	9.83
OREAS-45d		13.25	17.95	0.060	0.350	0.036	0.075	0.08	8.66	8.2	0.11	291	1.60	0.026	0.155	160.5
Target Range - Lower Bound		12.30	15.35	0.076	0.325	0.027	0.065	0.07	8.27	10.6	0.09	290	1.49	0.024	0.133	158.5
Upper Bound		15.00	18.75	0.105	0.401	0.051	0.093	0.11	10.10	13.2	0.15	354	1.85	0.032	0.167	193.5
<b>BLANKS</b>																
BLANK		<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	0.01	<0.1	<0.01	0.001	<0.002	<0.04
BLANK		<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Target Range - Lower Bound		<0.001	<0.004	<0.005	<0.002	<0.004	<0.005	<0.01	<0.002	<0.1	<0.01	<0.1	<0.01	<0.001	<0.002	<0.04
Upper Bound		0.002	0.008	0.010	0.004	0.008	0.010	0.02	0.004	0.2	0.02	0.2	0.02	0.002	0.004	0.08
<b>DUPLICATES</b>																
V826502		2.38	6.21	0.023	0.056	0.025	0.019	0.05	10.15	16.7	0.40	469	0.53	0.023	0.532	42.6
DUP		2.30	6.04	0.026	0.049	0.023	0.016	0.05	9.71	16.8	0.38	462	0.51	0.010	0.539	40.8
Target Range - Lower Bound		2.22	5.81	0.018	0.048	0.018	0.012	0.04	9.43	15.8	0.36	442	0.48	0.015	0.507	39.6
Upper Bound		2.46	6.44	0.031	0.057	0.030	0.023	0.06	10.45	17.7	0.42	489	0.56	0.018	0.564	43.8
V826522		1.180	2.83	0.036	0.084	0.010	0.012	0.07	14.90	10.2	0.32	177.0	0.34	0.006	0.425	12.65
DUP		1.220	2.91	0.032	0.090	0.012	0.013	0.08	15.05	10.8	0.33	178.0	0.36	0.007	0.480	13.20
Target Range - Lower Bound		1.140	2.72	0.027	0.081	0.006	0.007	0.06	14.20	9.9	0.30	168.5	0.32	0.005	0.428	12.25
Upper Bound		1.260	3.02	0.041	0.093	0.016	0.018	0.09	15.75	11.1	0.35	186.5	0.38	0.008	0.477	13.60



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Project: RRG-EXP-2018-Cov

**QC CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
	Analyte	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002
<b>STANDARDS</b>																
MGeo08		0.105	1080	0.003	0.002	140.5	0.007	0.31	2.52	6.71	0.8	3.16	69.5	<0.005	0.03	19.40
Target Range - Lower Bound		0.091	946	0.002	<0.001	132.5	0.005	0.27	2.49	6.57	0.8	3.04	66.8	<0.005	<0.01	19.30
Upper Bound		0.113	1155	0.006	0.004	161.5	0.009	0.35	3.05	8.04	1.3	3.74	81.6	0.015	0.04	23.6
OREAS 503c		0.100	7.65	0.006	0.002	115.0	0.005	0.61	2.39	7.81	3.1	2.42	62.9	<0.005	0.39	14.75
Target Range - Lower Bound		0.085	7.20	0.003	<0.001	104.5	0.002	0.52	2.29	6.52	2.7	2.10	54.0	<0.005	0.32	14.50
Upper Bound		0.106	8.82	0.007	0.003	127.5	0.007	0.65	2.81	7.98	3.6	2.58	66.0	0.013	0.42	17.70
OREAS 905		0.023	14.70	<0.001	0.002	16.75	<0.001	0.08	1.065	1.590	2.2	1.12	12.20	<0.005	0.06	8.00
Target Range - Lower Bound		0.020	14.40	<0.001	<0.001	15.75	<0.001	0.04	1.050	1.435	2.0	1.09	11.05	<0.005	0.04	7.38
Upper Bound		0.026	17.60	0.002	0.002	19.25	0.002	0.09	1.290	1.765	2.7	1.35	13.55	0.010	0.09	9.02
OREAS-45d		0.031	15.10	0.026	0.044	16.55	<0.001	0.05	0.279	43.0	0.6	1.75	9.81	<0.005	0.07	10.80
Target Range - Lower Bound		0.031	14.75			17.00	<0.001	0.02	0.248	39.4	0.6	1.59	9.44	<0.005	0.02	9.54
Upper Bound		0.040	18.05			20.8	0.003	0.07	0.314	48.2	1.1	1.97	11.55	0.012	0.06	11.65
<b>BLANKS</b>																
BLANK		<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
BLANK		<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	0.02	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
Target Range - Lower Bound		<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.01	<0.005	<0.005	<0.1	<0.01	<0.01	<0.005	<0.01	<0.002
Upper Bound		0.002	0.010	0.002	0.002	0.010	0.002	0.02	0.010	0.010	0.2	0.02	0.02	0.010	0.02	0.004
<b>DUPLICATES</b>																
V826502		0.040	9.06	0.002	0.002	8.94	0.001	0.04	0.078	3.72	0.5	0.52	11.10	<0.005	0.04	2.82
DUP		0.039	8.57	0.002	0.001	8.30	0.001	0.03	0.076	3.58	0.5	0.48	10.55	<0.005	0.03	2.52
Target Range - Lower Bound		0.037	8.37	<0.001	<0.001	8.18	<0.001	0.02	0.066	3.46	0.4	0.47	10.25	<0.005	0.02	2.53
Upper Bound		0.042	9.26	0.003	0.002	9.06	0.002	0.05	0.088	3.84	0.6	0.54	11.40	0.010	0.05	2.81
V826522		0.018	6.92	<0.001	<0.001	17.70	0.001	0.03	0.027	2.24	0.3	0.31	15.55	<0.005	0.01	3.67
DUP		0.018	7.04	<0.001	0.001	18.75	0.001	0.03	0.025	2.33	0.3	0.34	16.45	<0.005	0.01	3.85
Target Range - Lower Bound		0.016	6.63	<0.001	<0.001	17.30	<0.001	0.02	0.019	2.17	0.2	0.30	15.20	<0.005	<0.01	3.57
Upper Bound		0.020	7.33	0.002	0.002	19.15	0.002	0.04	0.033	2.40	0.4	0.35	16.80	0.010	0.02	3.95



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**QC CERTIFICATE OF ANALYSIS TB18246087**

Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	Au-AROR44
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
<b>STANDARDS</b>										
MGeo08		0.331	0.759	5.15	95.8	2.34	17.05	814	14.40	
Target Range - Lower Bound		0.281	0.700	4.97	88.5	1.835	16.95	679	14.00	
Upper Bound		0.345	0.860	6.09	108.5	2.49	20.7	831	19.00	
OREAS 503c		0.292	0.597	3.87	111.5	2.49	15.05	77.3	6.81	
Target Range - Lower Bound		0.252	0.550	3.80	97.1	2.10	14.20	67.0	6.29	
Upper Bound		0.310	0.676	4.66	119.0	2.84	17.40	82.2	8.53	
OREAS 905		0.013	0.089	1.835	4.9	0.536	6.18	56.4	31.1	0.37
Target Range - Lower Bound		0.012	0.089	1.875	4.7	0.475	5.90	54.6	17.30	
Upper Bound		0.018	0.113	2.30	5.9	0.645	7.22	67.0	23.4	
OREAS-45d		0.032	0.113	1.600	176.0	0.020	4.77	24.1	16.85	0.02
Target Range - Lower Bound		0.035	0.111	1.425	169.0	0.009	4.27	24.9	14.25	
Upper Bound		0.045	0.140	1.755	207	0.015	5.23	30.7	19.35	
<b>BLANKS</b>										
BLANK		<0.001	<0.002	<0.005	<0.1	0.001	<0.003	<0.1	0.01	<0.01
BLANK		<0.001	<0.002	<0.005	<0.1	0.001	<0.003	<0.1	<0.01	
Target Range - Lower Bound		<0.001	<0.002	<0.005	<0.1	<0.001	<0.003	<0.1	<0.01	
Upper Bound		0.002	0.004	0.010	0.2	0.002	0.006	0.2	0.02	
<b>DUPLICATES</b>										
V826502		0.011	0.115	0.825	51.6	0.118	4.41	50.2	2.34	
DUP		0.010	0.105	0.807	49.1	0.146	4.30	44.9	2.17	0.01
Target Range - Lower Bound		0.009	0.100	0.770	47.7	0.121	4.13	45.1	2.08	<0.01
Upper Bound		0.012	0.120	0.862	53.0	0.143	4.58	50.0	2.43	0.02
V826522		0.016	0.101	2.10	21.6	0.025	5.64	26.6	3.10	
DUP		0.018	0.105	2.14	23.2	0.025	5.68	27.4	3.30	
Target Range - Lower Bound		0.015	0.093	2.01	21.2	0.022	5.37	25.6	2.95	
Upper Bound		0.019	0.113	2.23	23.6	0.028	5.95	28.5	3.45	



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**QC CERTIFICATE OF ANALYSIS TB18246087**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: NSS is non-sufficient sample.  
ALL METHODS

#### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada  
LOG-21 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
AuME-ST44



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**Finalized Date: 10-OCT-2018**  
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**18-OCT-2018**  
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**CERTIFICATE TB18241492**

Project: RRGP-EXP-2018-Cov  
 P.O. No.: 4500025006  
 This report is for 17 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 27-SEP-2018.  
 The following have access to data associated with this certificate:

RAINY RIVER AP	JOHN BLIGH	CHRISTOPHER LONGTON
----------------	------------	---------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
PUL-35n	Pulv 1 kg split to 90%<106 um
CRU-32	Fine Crushing 90% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-21d	Sample logging - ClientBarCode Dup

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





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CERTIFICATE OF ANALYSIS TB18241492
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	CRU-QC Pass2mm %	PUL-QC Pass106u %	Au-AA24 Au g/t	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm
V826527		1.28	91.3	90.7	<0.005	<0.2	2.54	3	<10	110	<0.5	<2	1.51	<0.5	20	39
V826528		1.06			<0.005	<0.2	1.62	<2	<10	190	<0.5	<2	2.95	<0.5	22	35
V826529		1.94			<0.005	<0.2	2.60	<2	<10	210	<0.5	<2	1.25	<0.5	25	51
V826530		1.48			<0.005	<0.2	2.54	<2	<10	220	<0.5	<2	1.24	<0.5	22	60
V826531		0.88			<0.005	<0.2	1.40	<2	<10	230	<0.5	<2	0.74	<0.5	15	60
V826531_R1		<0.02			<0.005	<0.2	1.42	<2	<10	240	<0.5	<2	0.74	<0.5	15	62
V826532		2.15			<0.005	<0.2	2.08	<2	<10	100	<0.5	<2	1.02	<0.5	19	53
V826533		1.48			<0.005	<0.2	2.35	<2	<10	140	<0.5	<2	0.90	<0.5	30	37
V826534		0.11			0.511	2.7	1.13	2	<10	90	<0.5	<2	0.71	<0.5	13	7
V826535		2.17			<0.005	<0.2	1.81	2	<10	240	<0.5	<2	2.09	<0.5	18	53
V826536		1.34			0.062	<0.2	3.57	35	<10	20	<0.5	<2	4.36	<0.5	37	154
V826537		1.92			0.008	<0.2	3.02	3	<10	20	<0.5	<2	1.93	<0.5	22	251
V826538		0.66		92.6	<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	2
V826539		0.10			0.490	2.7	1.10	<2	<10	90	<0.5	3	0.73	<0.5	12	7
V826540		0.76			<0.005	<0.2	0.03	<2	<10	20	<0.5	2	>25.0	<0.5	<1	1
V826541		Not Recvd														
V826541_R1		Not Recvd														



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<b>CERTIFICATE OF ANALYSIS TB18241492</b>
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Sample Description	Method Analyte Units LOD	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm
V826527		62	2.52	10	<1	0.17	10	1.34	329	1	0.19	40	430	5	0.02	<2
V826528		92	2.61	10	<1	0.51	10	1.00	744	1	0.06	34	440	2	0.02	<2
V826529		48	3.92	10	1	0.49	10	1.90	600	1	0.07	46	540	2	0.01	<2
V826530		62	3.45	10	<1	0.54	10	1.87	537	1	0.11	40	700	2	0.01	<2
V826531		40	2.32	10	<1	0.49	10	0.99	345	1	0.07	36	440	3	0.02	<2
V826531_R1		40	2.35	10	<1	0.51	10	1.00	350	1	0.07	37	460	3	0.02	<2
V826532		56	3.08	10	1	0.23	10	1.41	416	1	0.09	35	580	<2	0.01	<2
V826533		26	4.67	10	<1	0.71	10	1.23	875	1	0.06	118	520	2	0.01	<2
V826534		58	3.07	10	1	0.19	10	0.44	299	1	0.16	14	760	6	0.08	<2
V826535		50	3.05	10	<1	0.47	10	1.15	776	1	0.10	39	580	<2	0.02	<2
V826536		65	2.20	10	<1	0.02	<10	0.67	1075	2	0.19	124	180	2	0.02	2
V826537		123	6.02	10	<1	0.04	<10	1.53	1295	1	0.11	78	220	3	0.08	<2
V826538		1	0.12	<10	<1	<0.01	<10	1.20	117	<1	0.01	<1	90	2	<0.01	<2
V826539		58	3.05	<10	<1	0.18	10	0.44	295	1	0.16	13	760	5	0.07	<2
V826540		1	0.10	<10	1	0.01	<10	1.15	109	<1	0.01	<1	90	<2	<0.01	<2
V826541 V826541_R1																

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<b>CERTIFICATE OF ANALYSIS TB18241492</b>
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Sample Description	Method Analyte Units LOD	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
V826527		5	97	<20	0.11	<10	<10	86	<10	66
V826528		8	71	<20	0.11	<10	<10	104	<10	42
V826529		7	42	<20	0.16	<10	<10	116	<10	64
V826530		7	54	<20	0.15	<10	<10	111	<10	52
V826531		4	24	<20	0.12	<10	<10	59	<10	36
V826531_R1		4	24	<20	0.12	<10	<10	59	<10	37
V826532		5	61	<20	0.12	<10	<10	77	<10	46
V826533		15	12	<20	0.13	<10	<10	98	<10	71
V826534		3	25	<20	0.47	<10	<10	86	<10	54
V826535		7	38	<20	0.13	<10	<10	88	<10	75
V826536		6	89	<20	0.06	<10	<10	54	<10	26
V826537		13	16	<20	0.05	<10	<10	81	<10	55
V826538		<1	83	<20	<0.01	<10	<10	1	<10	<2
V826539		3	24	<20	0.47	<10	<10	85	<10	54
V826540		<1	88	<20	<0.01	<10	<10	1	<10	<2
V826541 V826541_R1										



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**CERTIFICATE OF ANALYSIS TB18241492**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada			
	CRU-32	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-35n	PUL-QC	SPL-22Y
	WEI-21			
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-AA24	ME-ICP41		



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**QC CERTIFICATE TB18241492**

Project: RRGp-EXP-2018-Cov  
 P.O. No.: 4500025006  
 This report is for 17 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 27-SEP-2018.  
 The following have access to data associated with this certificate:

RAINY RIVER AP	JOHN BLIGH	CHRISTOPHER LONGTON
----------------	------------	---------------------

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarcode
PUL-35n	Pulv 1 kg split to 90%<106 um
CRU-32	Fine Crushing 90% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-21d	Sample logging - ClientBarcode Dup

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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**QC CERTIFICATE OF ANALYSIS TB18241492**

Sample Description	Method Analyte Units LOD	Au-AA24 Au g/t	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm
		0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>STANDARDS</b>																
JK-17		2.02														
Target Range - Lower Bound		1.875														
Upper Bound		2.12														
MRGeo08			4.5	2.59	32	<10	430	0.7	<2	1.04	2.0	19	90	609	3.53	10
Target Range - Lower Bound			3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10
Upper Bound			5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30
OREAS 503c		0.679														
Target Range - Lower Bound		0.651														
Upper Bound		0.745														
OREAS 602			>100	0.62	662	<10	30	<0.5	59	0.51	25.0	9	30	5100	1.96	10
Target Range - Lower Bound			106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10
Upper Bound			100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30
<b>BLANKS</b>																
BLANK		0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
BLANK			<0.2	<0.01	<2	<10	<10	<0.5	2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Target Range - Lower Bound			<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10
Upper Bound			0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20
<b>DUPLICATES</b>																
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														
ORIGINAL		<0.005														
DUP		<0.005														
Target Range - Lower Bound		<0.005														
Upper Bound		0.010														



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**QC CERTIFICATE OF ANALYSIS TB18241492**

Sample Description	Method Analyte Units LOD	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
<b>STANDARDS</b>																
JK-17																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		<1	1.25	30	1.11	394	13	0.32	694	1000	1045	0.30	2	7	80	20
Target Range - Lower Bound		<1	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20
Upper Bound		2	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60
OREAS 503c																
Target Range - Lower Bound																
Upper Bound																
OREAS 602		<1	0.09	10	0.10	203	4	0.02	60	230	812	1.97	63	1	48	<20
Target Range - Lower Bound		<1	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	51	<1	44	<20
Upper Bound		3	0.12	30	0.13	247	7	0.05	68	280	944	2.23	73	3	56	40
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Target Range - Lower Bound		<1	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20
Upper Bound		2	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS TB18241492**

Sample Description	Method Analyte Units LOD	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
<b>STANDARDS</b>							
JK-17							
Target Range - Lower Bound							
Upper Bound							
MGeo08		0.37	<10	<10	100	<10	743
Target Range - Lower Bound		0.33	<10	<10	90	<10	708
Upper Bound		0.43	20	30	112	20	870
OREAS 503c							
Target Range - Lower Bound							
Upper Bound							
OREAS 602		0.01	<10	<10	10	<10	3960
Target Range - Lower Bound		<0.01	<10	<10	8	<10	3680
Upper Bound		0.03	20	20	14	20	4500
<b>BLANKS</b>							
BLANK							
Target Range - Lower Bound							
Upper Bound							
BLANK		<0.01	<10	<10	<1	<10	<2
Target Range - Lower Bound		<0.01	<10	<10	<1	<10	<2
Upper Bound		0.02	20	20	2	20	4
<b>DUPLICATES</b>							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							
ORIGINAL							
DUP							
Target Range - Lower Bound							
Upper Bound							





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<b>QC CERTIFICATE OF ANALYSIS TB18241492</b>
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Sample Description	Method	Analyte	Units	LOD	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41			
					Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
					g/t	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
					0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
<b>DUPLICATES</b>																			
V826532					<0.005	<0.2	2.08	<2	<10	100	<0.5	<2	1.02	<0.5	19	53	56	3.08	10
DUP					<0.005	<0.2	2.13	<2	<10	110	<0.5	2	1.06	<0.5	20	54	62	3.17	10
Target Range - Lower Bound					<0.005	<0.2	1.99	<2	<10	90	<0.5	<2	0.98	<0.5	18	50	56	2.96	<10
Upper Bound					0.010	0.4	2.22	4	20	120	1.0	4	1.10	1.0	21	57	62	3.29	20

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<b>QC CERTIFICATE OF ANALYSIS TB18241492</b>
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Sample Description	Method	Analyte	Units	LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41			
					Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
					ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
					1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
<b>DUPLICATES</b>																			
V826532					1	0.23	10	1.41	416	1	0.09	35	580	<2	0.01	<2	5	61	<20
DUP					<1	0.24	10	1.44	430	1	0.10	36	600	3	0.01	<2	5	64	<20
Target Range - Lower Bound					<1	0.21	<10	1.34	397	<1	0.08	33	550	<2	<0.01	<2	4	58	<20
Upper Bound					2	0.26	20	1.51	449	2	0.11	38	630	4	0.02	4	6	67	40

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 Plus Appendix Pages  
 Finalized Date: 10-OCT-2018  
 Account: RRREXG

Project: RRGp-EXP-2018-Cov

**QC CERTIFICATE OF ANALYSIS TB18241492**

Sample Description	Method Analyte Units LOD	ME-ICP41 Ti %	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm
		0.01	10	10	1	10	2
		<b>DUPLICATES</b>					
V826532		0.12	<10	<10	77	<10	46
DUP		0.12	<10	<10	79	<10	49
Target Range - Lower Bound		0.10	<10	<10	73	<10	43
Upper Bound		0.14	20	20	83	20	52



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Page: **Appendix 1**  
 Total # Appendix Pages: **1**  
 Finalized Date: **10-OCT-2018**  
 Account: **RRREXG**

Project: RRGp-EXP-2018-Cov

**QC CERTIFICATE OF ANALYSIS TB18241492**

<b>CERTIFICATE COMMENTS</b>													
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table border="0"> <tr> <td>CRU-32</td> <td>CRU-QC</td> <td>LOG-21</td> <td>LOG-21d</td> </tr> <tr> <td>LOG-23</td> <td>PUL-35n</td> <td>PUL-QC</td> <td>SPL-22Y</td> </tr> <tr> <td>WEI-21</td> <td></td> <td></td> <td></td> </tr> </table>	CRU-32	CRU-QC	LOG-21	LOG-21d	LOG-23	PUL-35n	PUL-QC	SPL-22Y	WEI-21			
CRU-32	CRU-QC	LOG-21	LOG-21d										
LOG-23	PUL-35n	PUL-QC	SPL-22Y										
WEI-21													
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table border="0"> <tr> <td>Au-AA24</td> <td>ME-ICP41</td> <td></td> <td></td> </tr> </table>	Au-AA24	ME-ICP41										
Au-AA24	ME-ICP41												

## **Quality Control**

The sample preparation and analysis procedures for each sample type and program are documented in the following text.

Both the Client and Contractor are obliged to consult regularly with each other to discuss the progress of each job, particularly in situations where decisions impacting the quality of analytical data are to be made.

### **9.1 Milling**

Samples submitted must meet the following comminution standards.

- Crush entire sample to 90% passing -2mm
- 95% of samples must be crushed to 90% passing 2mm
- Pulverize 1000g of rotary split crushed sample
- 95% of samples must be pulverized 90% passing 105µm.
- All samples must be prepared to be greater than 85% passing 105µm.

The Contractor is required to conduct screen sizing tests at the rate of 1 in every 10 samples, using 100g of pulverized material. If a sample fails this test (that is, less than 90% passes 105µm), the previous 4 samples back to the last sample tested are to be sieve tested and reground if less than 90% passes 105µm.

At no time is the Contractor to deliver less than the specified 90% passing 105µm for all samples submitted, unless expressly directed to do so by the Client.

All sieve tests are to be reported, including tests with less than 90% passing 105µm. Samples that fail the sieve test are to be reground and then retested with the repeat sieve test result reported in addition to the original test result.

### **9.2 Performance of Blank material**

New Gold (NGD) will at its discretion submit uncertified blank sample material. This material will be similar to that of the real samples and will contain very minor (if any) concentrations of Au and other metals. The NGD blanks are not certified standards.

Where a blank sample returns a grade greater than 10 times the detection limit for the technique for Au, the Contractor must repeat the fire assay of 3 samples either side of the blank sample in the sample sequence. If the blank and other repeated samples repeat poorly (i.e.: more than 50% of the repeated sample results are 15% or higher mean average percent difference (MAPD) than the original result

based on results greater than 50x lower detection limit), the Contractor will repeat all samples from that fire assay rack. Where  $MAPD = 200 \times ABS((x-y)/(x+y))$ .

The poor reproducibility suggests a process problem in the laboratory for that batch, for example a problem with the AAS.

If the blank and other repeated samples repeat well, this suggests that there is Au metal in the blank material. There are 2 possible sources of Au in blanks; as primary Au or due to contamination. The presence of high-grade samples immediately preceding the blank would suggest the blank is contaminated and this would indicate that the pulverizer bowl was not thoroughly cleaned between samples. If such contamination was suspected the barren washes from this part of the sequence should be analyzed to check for contamination.

The Contractor and NGD are to agree on an appropriate course of action to deal with particular batches on a case-by-case basis after reviewing available data.

### **9.3 Analytical blanks supplied by Contractor**

The Contractor will follow its established Quality Control process as documented in the company's standard operating procedures.

The process should include insertion for analysis 1 certified analytical blank per 50 samples. If the analytical blanks exceed 4 times the detection limit of the process, the solutions are rechecked and if problems are still apparent then the entire batch is repeated. The original assay data in this case is discarded and not reported to NGD.

If the analytical blanks return assays less than 4 times the detection limit, no corrective action is required.

### **9.4 Standards supplied by Contractor.**

NGD requires that all results from the certified standards nominated and supplied by the Contractor be reported and that 99.7% of the results lie within 3 standard deviations of the certified value and 95.4% of standards lie within 2 standard deviations of the certified value.

If standard assay values fall outside the specified range the Contractor must repeat 25% of the batch. The Contractor is required to provide a suite of no less than 6 certified standards covering Au grades as shown in Table 1

The Contractor is to nominate the name, supplier and certified grade and standard deviation of each standard used. Contractor accuracy performance will be evaluated on the basis of performance against the certified standards nominated and supplied by the Contractor.

These standards are in addition to the laboratory's solution standards.

Table 2: Certified standards to be supplied by Contractor

Gold grade (grams per tonne/ppm)	Number of standards required
0.2 – 0.5	2
0.5 – 1	2
1 – 1.5	1
1.5 – 2.0	1
> 2.0	1
Total	7

## 9.5 Standards submitted by Client

The agreed tolerance of assay results for standards supplied by NGD is 99.7% within 3 standard deviations of the certified value and 95.4% within 2 standard deviations for each standard.

If a standard assay result falls outside the agreed specification the Contractor will repeat the standard and 3 samples either side in the sample sequence. If the repeat assays exhibit poor reproducibility with the original assay ( $\geq 15\%$  MAPD excluding values less than 50x detect limit), the entire rack will be repeated and re-reported. All valid original data is to be reported. All costs incurred to complete the repeat assaying will be to the Contractors account.

If the repeat assays exhibit good reproducibility with the original assay ( $< 15\%$  MAPD), no further work will be required. All costs incurred in repeating the standard and 6 samples will be charged to the Client's account.

NGD will review analytical performance of its standards for each batch of analyses received. If the performance shows grade variance in excess of the certified values (less than 100% within 3 standard deviations and 96% within 2 standard deviations), this would indicate in-homogeneity in the standard.

## 9.6 Reporting of internal quality results

The Contractor will report the results of its internal Quality Assurance Program to the Client along with the original analyses for each job. The Contractor is to complete internal Round Robin sample assaying and make the results of the test available to the client.

Each month the Client will nominate 5 samples for inclusion in the Contractor's internal Quality Assurance protocol.

## **9.7 Repeat and duplicate assays**

Sample Repeats (AuR) are material taken from the same pulp packet as the primary sample. Sample Duplicate 1 (AuD1) are a second split of pulp material from the pulverizer bowl. Sample Duplicate 2 (AuD2) are taken of the coarse crushed material after the first stage of crushing.

The Contractor agrees to repeat at least 1 sample per 10 samples and duplicates 1 and 2 at least 1 sample per 20 samples at no extra cost to NGD. The Contractor will randomly select samples for replication and duplication. Additional replicates and duplicates may be selected by the Contractor at their own discretion. Costs incurred will be to the Contractor's account.

The Contractor will report all repeat and duplicate assay values to NGD in order of sequence.

A MAPD of 15% (excluding values less than 50x DL) or less is required for AuR vs Au, unless coarse gold present.

An MAPD of 15% (excluding values less than 50x DL) or less is required for AuD (1&2) vs Au, unless coarse gold present.

If results fall outside 15% MAPD and no coarse gold is present the Contractor will repeat the entire batch. Original data will be reported; unless a process problem has occurred, which throws into question the integrity of the data (at the Contractor's Manager's discretion)

## **9.8 Bias**

NGD requires that bias in terms of actual average grade versus nominal grade is less than 5% MAPD for all certified standards provided by the Contractor on a quarterly basis.

## **9.9 Laboratory audits**

The Contractor will make available to the client written evidence of laboratory audits. Written documentation will include the results including actions recommend and taken arising from the audit. Audits greater than six months old will not be accepted.



# Sample Preparation Flow Chart – Rock Samples

