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**Diamond Drilling Report on the  
Shining Tree Property,  
Leonard and Tyrell Townships,  
District of Sudbury Northeastern, Ontario**

May 3, 2021

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## 1.0 SURVEY OVERVIEW

### 1.1 PROJECT NAME

This project is known as the **Shining Tree Project**.

### 1.2 CLIENT

BATTERY MINERAL RESOURCES CORP.

P.O. Box 219,  
14579 Government Road,  
Larder Lake, Ontario, P0K 1L0, Canada

### 1.3 SUMMARY

Battery Mineral Resources Corporation (BMR) controls 143 mining cells that comprise the Shining Tree project located in Leonard and Tyrrell Townships, District of Sudbury, northeastern Ontario. The center of the project area is located approximately 115 km north of Sudbury, 100 km southwest of Kirkland Lake, and 105 km south of Timmins.

G4 Drilling of Val-d'Or, Quebec was contracted to drill ten holes at the Shining Tree project. Overall, 10 holes totaling 1875 meters were drilled between February 10 and March 6, 2021. Drill targets for this program were divided into two groups, both of which coincided with interpreted IP and resistivity anomalies, including targets focused around historic workings, and, those forming conceptual targets.

The workings- focused targets were tested with seven holes drilled westward into Nipissing diabase east of the Archean- diabase contact and the thin sliver of Gowganda argillites of the Huronian supergroup. The holes targeted IP anomalies as well as zones beneath historic workings. Conceptual holes were drilled eastward into the projected Nipissing diabase- Archean metavolcanic contact. The holes were chosen to test deep IP anomalies as well as the lower contact of the diabase.

All of the workings- focused holes were collared in Nipissing Diabase, with holes STR21002, to 005, inclusive, continuing in diabase to the end of hole at 200m (fault), 100m, 100m, 200m, and STR21006, 007 and 011 encountering sediments at 214m, 173m, 178m, respectively.

It was intended that the conceptual holes, which were drilled in a northeasterly direction, test the thickness of the diabase before exiting into the unconformably underlying volcanic sequence. However, it was found that the location of the Nipissing diabase- Archean contact had been misinterpreted by previous mappers, and in fact, these 3 holes collared in the basement volcanics.

In total, 530 samples (including QA/ QC samples) were sent to ALS in Sudbury, Ontario for multielement analysis; 10 additional samples were analyzed for gold as well as the multielement package.

#### 1.4 ACTIVITIES UNDERTAKEN

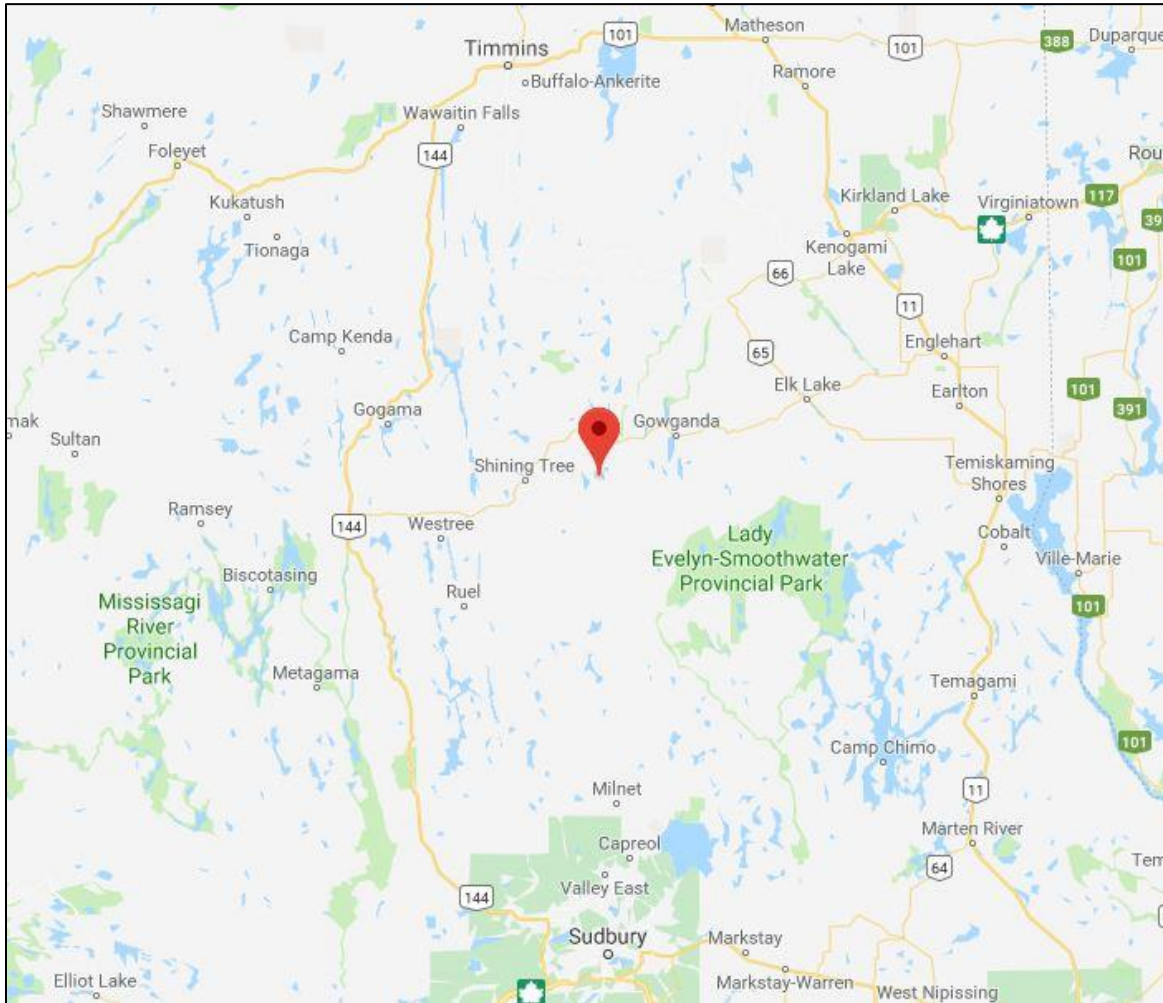
<b>Activity</b>	<b>Dates</b>	<b>Details</b>	<b>Performed By</b>
Diamond Drilling	February 10-March 6 2021	10 ddh (1875 m)	G4 Drilling CXS Geologists
Assaying	March- April, 2021	540 samples	ALS Minerals

**Table 1: Summary of Work Undertaken**

## 2.0 LOCATION, ACCESS AND GEOLOGY

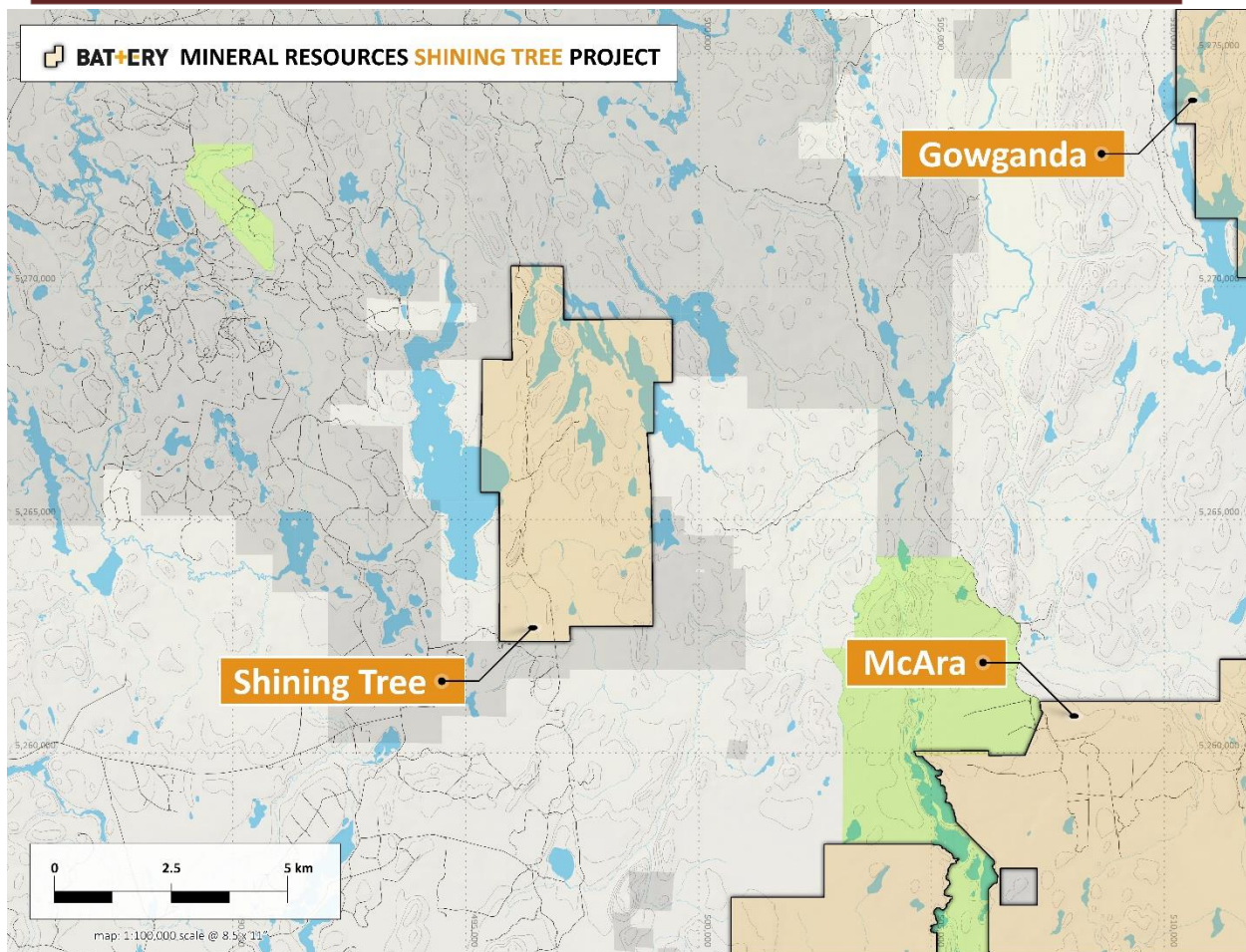
### 2.1 LOCATION

BMR's Shining Tree project is located approximately 115 km north of Sudbury, 100 km southwest of Kirkland Lake, and 105 km south of Timmins. It comprises 143 mining cells in Leonard and Tyrrell Townships, District of Sudbury, northeastern Ontario (Figure 1).



***Figure 1: Location of Shining Tree Project.***





**Figure 2: Shining Tree Project Outline.**

## 2.2 ACCESS

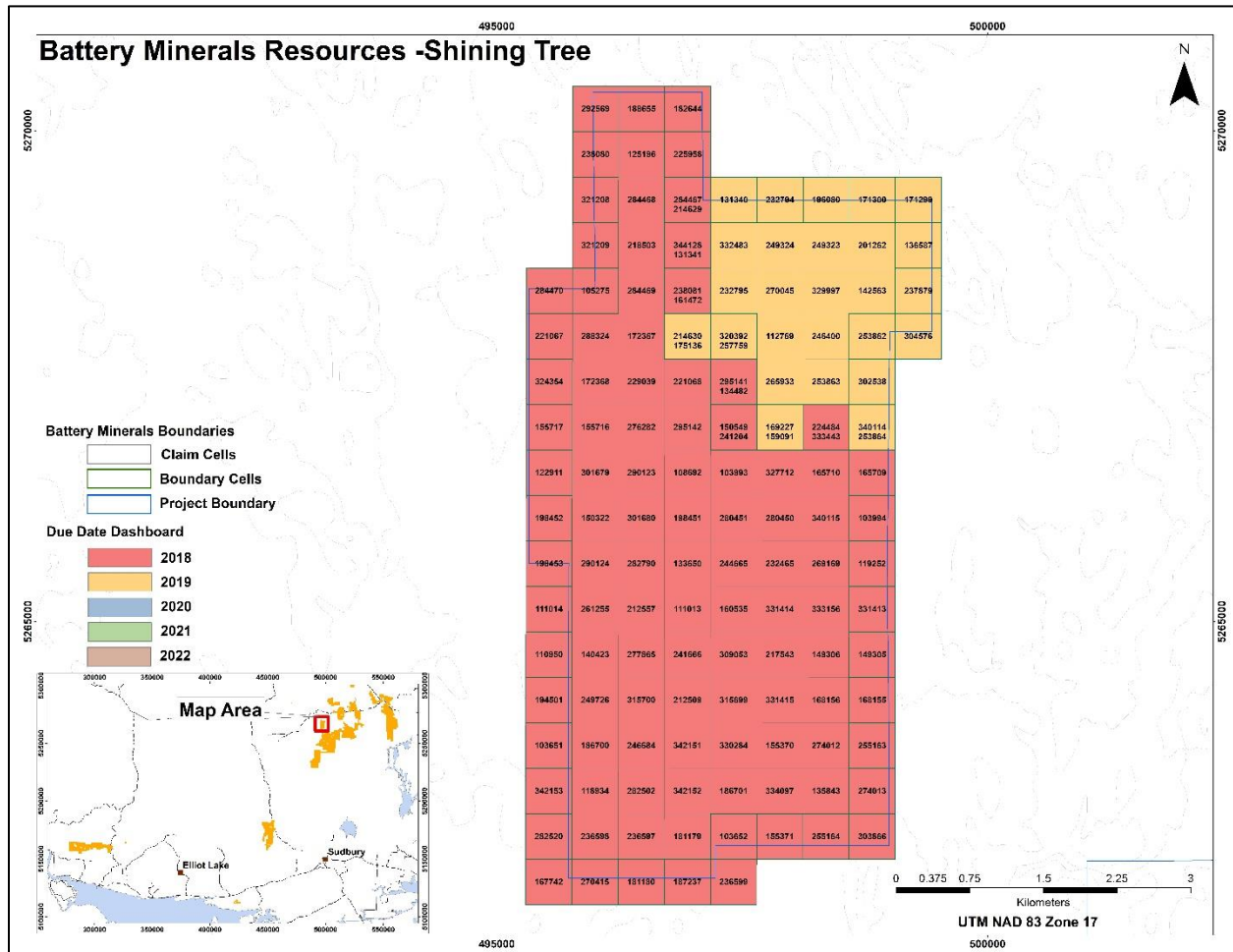
Access to the property is via highway 560 west of Elk Lake and Sandy Lake road, a primary logging road approximately 6 km west of Shining Tree. Following Sandy Lake road for roughly 12 km leads to a secondary logging road which can be driven by truck or ATV and provides access to most of the project area. A major N- S power line transects the project area, along with an associated maintenance road and several small ATV trails (Figure 2).

The north-western portion of the project area can be reached from a boat launch at the end of an ATV trail located on Heron Lake. From the launch, a small boat or canoe can be used to head north following Spider Creek to Spider Lake which then allows easy access to the more difficult to reach northern localities of the property.



**2.3 MINING CLAIMS / OWNERSHIP**

As of January 6, 2021, the 100% BMR Shining Tree property consisted of 143 cell claims comprising 2,464 ha (24.6 km<sup>2</sup>) in Leonard and Tyrrell Townships of Northeastern Ontario. A full list of the claims that constitute the Shining Tree property are included in Appendix 1 and displayed in Figure 3.



**Figure 3: Shining Tree Claim Cells**

**2.4 HISTORIC WORK**

Much of the following exploration and drilling history are cited from Page (2018).

**1927: Caswell – Eplett Shaft**

A 100-foot-deep shaft was sunk on a calcite vein and lateral drifting at the 100-foot level was completed (Middleton, 1976).

**1955-59: Newnorth Gold Mines Limited**

In 1955, five diamond drill holes were completed by A. MacNeil for Newnorth Gold Mines Limited, for a total length of 168 feet (51 m) in the area one mile (1.6 km) west of Fournier Lake. Specks of chalcopyrite and pyrite were observed, and carbonate veins varying from 4 inches to 1.2 feet (10-36 cm) were intersected.

In 1956, Newnorth Gold Mines Limited had staked 35 claims in west-central Leonard Township, between Mullen and Fournier Lakes.

In 1956, Geo-Explorers Limited carried out a ground electromagnetic survey for the owners to locate concealed veins. Two conductors and six "semi-conductors" were identified.

In 1957, five diamond drill holes were completed by Cameron Diamond Drilling Company for Newnorth, for a total length of 1,009 feet (308 m) between Fournier and Bing Lake. Calcite stringers were intersected in the holes.

Seven diamond drill holes were completed in 1959 for a total length of 2,206 feet (673 m) in both Cobalt sediments and Nipissing Diabase. Chalcopyrite, pyrite and carbonate stringers were intersected (Carter, 1977).

**1971: United Reef Petroleum Co. Limited**

In 1971, six diamond drill holes were completed in diabase by United Reef Petroleum, for a total of 420 feet (130 m) (Tindale, 1974). The core was assayed for silver and cobalt. The logs provide basic location information and geological descriptions, with intervals reported as down-hole lengths. No survey or recovery data was reported.

The best silver assay was 7.50 oz Ag/ton from a calcite vein, and the best cobalt assay was 0.38% Co from the same vein (Carter, 1977). This program confirmed the presence of a vein system over a length of at least 150 feet (Tindale, 1974).

**1976: Alamo Petroleum Ltd.**

Ground EM and soil sampling surveys were completed near Eliza Lake. Elongate silver-cobalt anomalies (> 10 ppm Co and > 0.5 ppm Ag) were outlined near known mineralization.

**1992- 93: Pat Donovan**

Pat Donovan conducted geological mapping, geophysical surveys, stripping and sampling programs in 1992- 93 over the former Caswell-Eplett showing northwest of Eliza Lake. Channel and chip sampling across several cobalt-bearing veins (Donovan, 1992;1993) returned values up to 7.04% Co.

**2007: SL Resources Inc**

Report on mechanical stripping and sampling by E Ludwig; cobalt values to 2.79% and silver values to 555 ppm.

**2018-2020: Battery Mineral Resources**

A considerable amount of work, including airborne and ground geophysical surveys and a number of prospecting traverses were carried out on the Shining Tree property by contract companies and BMR/ CXS personnel in 2018 and 2019. Details of the various ground and airborne geophysical surveys, as well as a high- resolution LiDAR survey, are summarized in Table 2.

Property/ Zone	Survey Date	Survey Type	Contractor	Project File number	Coverage	Survey-specific Parameters
Shining Tree	2016 & 2018	Airborne Mag & radiometrics	Precision GeoSurveys			Mean Flight Height: 41.29 m; Survey Line Direction 090°/270°; Tie-Line Direction: 000°/180°.
Shining Tree	2018	LiDAR	Airborne Imaging Inc.		25.5 sq km	
Saville	Jan-19	3D IP	CXS	Q2582	footprint 1.26 sq km; 11.4 line-km	inversion model up to a depth of 480 m
Shining Tree Central	Jan-19	3D IP	CXS	Q2593	39.25 line-km	injection interval of 50 or 100 m. Inversion model up to a depth of 410 m
Shining Tree North Grid	Feb-19	3D IP	CXS	Q2594	Footprint 1.38 sq km; 12.9 line-km	inversion model up to a depth of 410 m

**Table 2: BMR Geophysical Surveys conducted on Shining Tree Project area (after SRK, 2020)**

During the fall of 2019, prospecting was completed at the Shining Tree property by BMR/ CXS exploration geologists with a primary focus on ground-truthing existing data. The objective was to investigate the relationship between the geophysical responses and the lithological units, in order to determine whether they were formational, cultural or mineralization related anomalies.

Numerous samples of various lithologies and historical workings were taken for Assay and Whole Rock analysis. Traverse tracks were recorded using Garmin InReach GPS' and synced to the Garmin website using the InReach Sync software. Along with the traverses, the locations of samples taken, and any other points of interest were recorded using the Garmin and associated software.

In March 2020, one drill hole totaling 284m was completed but the remainder of the planned program was interrupted by the covid- related provincial shutdown.

**2.5 REGIONAL AND LOCAL GEOLOGY**

**2.5.1 REGIONAL GEOLOGY**

The regional geology comprises Early Proterozoic (2450 Ma and 2220 Ma) sedimentary rocks of the Huronian Supergroup, which rest unconformably on older Archean granitic, metavolcanic, and metasedimentary rocks of the Abitibi Subprovince (Figure 4). Archean basement rock comprises mafic to felsic volcanic rocks, iron formation, and minor pyrite deposits that are moderately to steeply dipping. The fine to medium grained, mildly to strongly magnetic Nipissing diabase intrudes all the other lithologies except the youngest mafic dikes or sills.

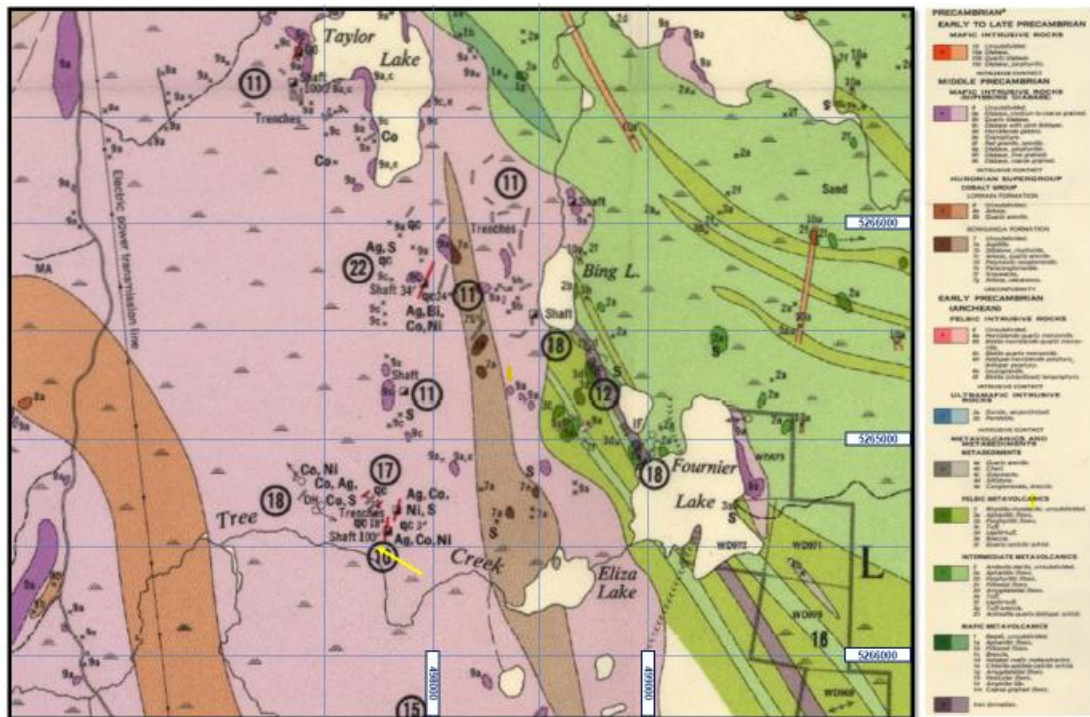
**2.5.2 LOCAL GEOLOGY**

Diamond drilling in the Shining Tree project area was conducted near the eastern margin of a fine to coarse grained Nipissing Diabase sill complex comprising a lower sill which is flat lying and an upper one that is “saucer shaped with inward dips” (Carter, 1977). The diabase intrudes Gowganda argillites and Lorrain arkoses of the Huronian supergroup which occur as elongate lenses. The sediments form part of the northwest margin of the Huronian Basin which unconformably overlies northwest-trending Archean basement rocks comprising mafic to felsic volcanic rocks, and iron formations, that dip moderately to steeply west (Figure 5).



***Figure 4: Regional geology of the area surrounding the Shining Tree project. Geological data are from the Ontario Geological Survey (2016).***





**Figure 5: Local geology of the Shining Tree project area; yellow arrow indicates 2019 drill hole location (geology after Carter, 1977).**

### 2.5.3 MINERALIZATION

In general, Ag- Co deposits are associated with the contact between the Nipissing diabase and the Huronian metasediments, or with its contact with the underlying Archean mafic to intermediate lavas and intercalated pyroclastic and sedimentary rocks. Mineralization is commonly hosted in steeply- dipping veins in the Nipissing diabase, or within 200 metres of its upper or lower contact (Andrews et al., 1986). Most of the productive deposits occur in the northern and northeastern margin of the Cobalt Embayment. Mineralization is also spatially associated with regional-scale faults that cross- cut the contact with the Archean basement.

The deposits of the Cobalt -Gowganda Camp contain three principal mineral assemblages (from King, 2019; after Ruzicka and Thorpe, 1996; Andrews et al., 1986):

- A base metal sulphide assemblage, confined to Archean metasedimentary and metavolcanics rocks.
- The arsenide silver-cobalt assemblage, occurring mainly near and at the contact between the Nipissing diabase and the sedimentary rocks of the Cobalt Group, and less so at the contact between the diabase and the Archean rocks.
- A late-stage sulphide assemblage occupying the margins of arsenide-rich veins where they have reopened.

The age of the arsenide mineralization is dated at between 2.22 and 1.45 Ga, between the age of emplacement of the diabase sills (2.22 Ga) but before the intrusion of the quartz diabase dikes and contemporaneous reverse faults that displace the mineralization.



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**DIAMOND DRILLING****3.1 OVERVIEW**

Battery Mineral Resources Corporation (BMR) controls 143 mining cells that compose the Shining Tree project located in Leonard and Tyrrell Townships, District of Sudbury, northeastern Ontario. G4 Drilling of Val-d'Or, Quebec was contracted to drill ten holes at the Shining Tree project. The object of the drilling at the Shining Tree property was to test the highest priority IP and resistivity anomalies identified by Weis (2019). Drill targets for this program are divided into two groups, targets focused around historic workings, and, conceptual targets. The workings- focused targets were tested with seven holes drilled westward into Nipissing diabase east of the Archean- diabase contact and the thin sliver of Gowganda argillites of the Huronian supergroup. The holes targeted IP anomalies as well as zones beneath historic workings. Conceptual holes were drilled eastward into the projected Nipissing diabase- Archean metavolcanic contact. The holes were chosen to test deep IP anomalies as well as the lower contact of the diabase.

Overall, 10 holes totaling 1875 meters were drilled between February 10 and March 6, 2021. In total, 530 samples (including QA/ QC samples) were sent to ALS in Sudbury, Ontario for multielement analysis; 10 additional samples were analyzed for gold as well as the multielement package.

All coordinates presented in this report are in UTM NAD83 Zone 17N.

**3.2 PLANS & PERMITS**

The diamond drilling was conducted under permit PR-20-000122.

**3.3 PERSONNEL**

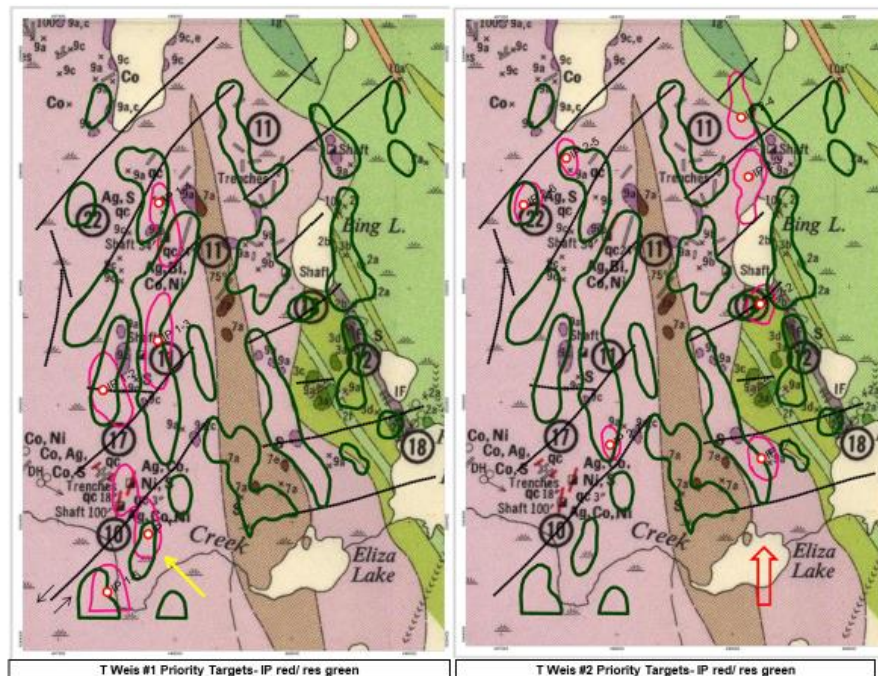
BMR consultant Frank Ploeger planned and supervised the drill program on the Shining Tree property while BMR/ CXS exploration geologists Sean Hicks, Andrew Salerno, Nico Kastek, Ryan Wells and Steve Trimmer logged, teched and sampled the core and contributed to the report. Canadian Exploration services provided technical support in building the pads and preparing access to the sites.

**3.4 DRILLING**

Exploration diamond drilling conducted at the central Shining Tree property in February and March 2020 is located in Leonard Township on single cell mining claims 217543, 269169, 280450, 232465, 331414, and 340115. Ten diamond drill holes, STR21002 to STR21011, totaling 1875 meters of NQ core were drilled between February 10, 2021

and March 6, 2021.

The object of the drilling at the Shining Tree property was to test the highest priority IP and resistivity anomalies identified by Weis (2019) in an evaluation of a 3-D IP survey performed by CXS geophysical personnel (Figure 6). Coincidentally, seven holes were oriented to intersect possible depth extensions of Co-bearing carbonate vein streams that had been worked historically along a north-south corridor roughly aligned with the IP chargeability and resistivity anomalies. A second tier of three holes was designed to target the basal contact of the Nipissing Diabase sill with the Archean basement and local IP anomalies. In total, 530 samples were sent for multielement analysis, and 10 additional samples were analyzed for gold as well as the multielement package.



**Figure 6: IP (red)/ Resistivity (black) Targets of the Shining Tree project area; Priority 1 (yellow arrow) on left, priority 2 (red arrow) on right (Weis, 2019).**

Access and drill-pads were cleared and leveled by CXS. Sumps were made to capture cuttings from each drill-hole and backfilled after drilling. Core was transported to Gowganda Lake Lodge, Gowganda, Ontario by G4 where it was logged in a secure trailer by CXS contract geologists. Boxes were resealed and delivered to the CXS/ BMR logging facility in Larder Lake, Ontario for geotechning, sampling and core cutting. Cut samples were packed and delivered directly to ALS labs in Sudbury, Ontario by BMR/ CXS personnel for assay.

Detailed drill hole meta-data and the drill hole logs are presented in Appendix 2 and Appendix 3, respectively.

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## 4.0 RESULTS

### 4.1 DIAMOND DRILLING RESULTS

#### 4.1.1 INTRODUCTION

The object of the drilling at the Shining Tree property was to test the highest priority IP and resistivity anomalies identified by Weis (2019), particularly those that coincide with historic surface showings/ workings, as well as conceptual targets at a potential Nipissing diabase contact with Archean metavolcanic rocks or iron formation. According to Weis, his interpretation of the Shining Tree Central 3-D IP/ resistivity data set was carried out in conjunction with the Shining Tree helicopter magnetic and government geologic mapping. Targets were selected where Nipissing sills (as interpreted from magnetic and resistivity data) are enhanced with coincident IP responses.

As mentioned, several holes were oriented to intersect possible extensions of Co-bearing carbonate vein streams. Four holes targeted veins exposed by stripping on the Caswell- Eplett showings which Weis considered his highest priority target. The most extensive historic surface work consisted of a 100 foot deep shaft which was sunk on a silver- cobalt vein in 1911 followed much later by geological mapping, geophysical surveys, stripping and sampling programs conducted in 1992- 93 by Pat Donovan. Channel and chip sampling across several cobalt-bearing veins by Donovan, returned values up to 7.04% Co.

#### 4.2 SUMMARY/ RESULTS

Ten diamond drill holes, STR21-002 to STR21-011, totaling 1875 meters were drilled in February and March 2021. Collar data is provided in Table 3 and drill hole locations in Figure 7. A total of 530 samples (including QA/ QC samples) were sent to ALS in Sudbury, Ontario for multielement analysis and 10 additional samples were sent for gold and multielement analysis.

ddh_ID	UTM_mE	UTM_mN	Elevation	Azimuth	Dip	Depth_m	Samples	
STR21002	497921	5264555	367	289	-45	200	88	
STR21003	497893	5264589	368	290	-45.5	100	46	
STR21004	497899	5264639	368	289	-43.5	100	33	
STR21005	497909	5264697	369	287	-46	200	63	
STR21006	498009	5265016	381	301	-46	228	55	
STR21007	497994	5265247	383	301	-50	204	70	
STR21007		added gold assays						4
STR21008	498443	5265422	368	67	-45	315	48	
STR21009	498413	5265635	375	67	-51	201	88	
STR21010	498304	5265873	372	61	-50	126	7	
STR21011	497999	5265825	375	300	-50	201	31	
STR21011		added red bed assays						6
Totals						1875	539	

Table 1: Collar Data for BMR Drilling in Shining Tree Area

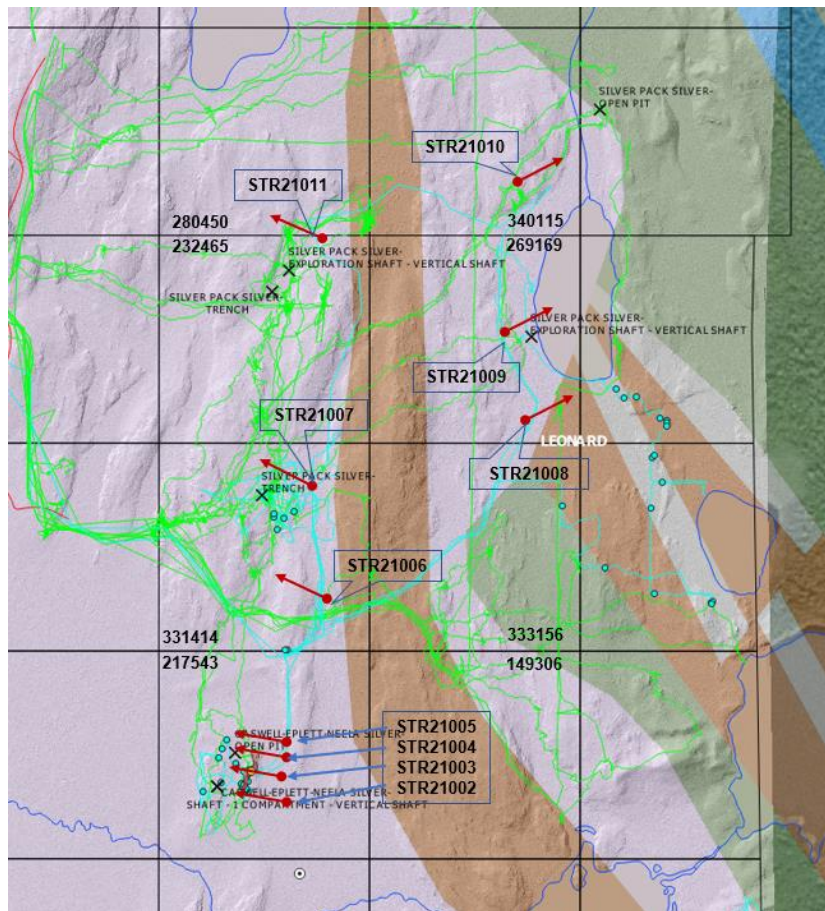


Figure 1: Shining Tree (Central) Drill Hole Plan on LiDAR & Geology Base



Complete assay results, ALS assay certificates and cross sections are provided in Appendix 4, 5, and 6, respectively.

#### Drill holes

As mentioned, 7 of the holes tested historic vein zones discovered by prospectors in the early 20<sup>th</sup> century and worked periodically afterwards. Fortuitously, these vein zones coincided with high priority IP and resistivity anomalies interpreted by Weis (2019). All of these holes were collared in Nipissing Diabase, with holes STR21002, to 005, inclusive, continuing in diabase to the end (200m (fault), 100m, 100m, 200m) and STR21006, 007 and 011 encountering sediments at 214m, 173m, 178m, respectively.

It was intended that the remaining holes, which were drilled in a northeasterly direction, test the thickness of the diabase before exiting into the unconformably underlying volcanic sequence. However, it was found that the location of the Nipissing diabase-Archean contact had been misinterpreted by previous mappers, and in fact, these 3 holes collared in the basement volcanics.

Four of the holes, STR20002- 005, were drilled under the outcrop exposure hosting the historic Caswell- Eplett shaft and Neelands pit from which samples yielding up to 7.0% Co and 555 gm/ t Ag have been obtained. Numerous isolated and streams of calcite-quartz veinlets, stringers and veins were intersected in the holes. In hole STR21002, several anomalous (>1000 ppm) Co values obtained at 78.66m, 118.48m, and 171.75m during XRF scans, whereas final assay results correspond to only slightly anomalous Co values (Table 4). A silver value of 14.7 ppm was obtained from a vuggy 1.7cm carbonate- quartz vein in the multielement ALS assay but not in the XRF scan of the vein during geotechning of the core. Some minor copper values were reported.

Hole ID	Sample ID	from	to	Length	Insert	Ag	Co	Cu	Ni	As	Bi
STR21002	1303	11.25	11.75	0.50		14.7	86	288	27	97	1.1
STR21002	1308	23.5	24.5	1.00		0.2	24	926	42	4	0.1
STR21002	1350	78.5	79	0.50		0.4	418	877	140	483	2.1
STR21002	1352	80	80.5	0.50		2.1	21	7040	47	10	0.1
STR21002	1359	102.75	103.25	0.50		0.4	42	519	125	12	0.2
STR21002	1378	157.5	158	0.50		0.2	44	594	92	9	0.2
STR21002	1383	171	172	1.00		1.0	223	118	118	278	35.5
STR21003	1410	54.50	55.00	0.50		0.4	215	86	69	285	1.7
STR21004	1443	39.05	40.2	1.15		0.5	42	1130	94	19	0.4
STR21004	1448	64	64.8	0.80		1.6	57	1480	131	7	0.2
STR21004	1449	64.8	65.5	0.70		1.3	39	509	94	5	0.2
STR21004	1451	66.5	67.2	0.70		1.1	66	1260	116	7	0.3
STR21004	1456	70.5	71.5	1.00		0.5	34	668	88	8	0.5
STR21005	1497	65.75	66.25	0.50		3.81	1115	103	212	1585	26.60
STR21006	1531	14.8	15.5	0.7		2.57	241	676	87	291	1.26
STR21006	1536	33.75	34.25	0.5		2.36	32	1240	59	7	0.08
STR21006	1537	34.25	34.85	0.6		0.91	293	98	90	384	2.78
STR21006	1544	38.25	38.75	0.5		0.66	237	147	85	309	2.07
STR21006	1547	54.25	55	0.75		1.32	782	109	218	1140	4.49
STR21006	1550	100.75	101.25	0.5		0.71	48	2780	117	3	0.19
STR21006	1555	121.1	121.6	0.5		2.28	44	5880	96	2	0.27
STR21006	1578	213.35	214.35	1		0.2	473	95	126	706	1.96
STR21007	R1613	45.00	45.60	0.60		0.50	258	97	133	348	2.74
STR21007	R1630	76.60	77.30	0.70		0.93	348	60	74	522	1.87
STR21007	R1636	159.00	159.45	0.45		0.35	65	835	292	11	0.34
STR21007	R1637	159.45	159.95	0.50		0.28	58	724	287	7	0.13
STR21007	R1643	169.00	169.75	0.75		0.14	33	837	187	12	0.20
STR21007	R1645	170.50	171.25	0.75		0.19	19	1230	148	2	0.26
STR21007	R1651	185.00	186.00	1.00		0.05	36	1190	130	2	0.24
STR21007	R1654	189.30	190.10	0.80		0.04	6	2050	14	1	0.06
STR21-008	R1749	63.00	63.50	0.50		0.20	47	1230	53	6	0.43
STR21-008	R1758	71.25	72.00	0.75		0.29	79	548	230	49	0.16
STR21-009						NSV	NSV	NSV	NSV	NSV	NSV
STR21010						NSV	NSV	NSV	NSV	NSV	NSV
STR21011	R1827	165.5	166	0.5		0.24	49.6	1645	239	3	0.17

***Table 4: Significant Assays for BMR Drilling in the Shining Tree Central Area***

Hole STR21003 yielded one minor XRF Co spike of 1009ppm at 54.9m which was picked up in the ALS assay as 215 ppm Co over 0.5m.

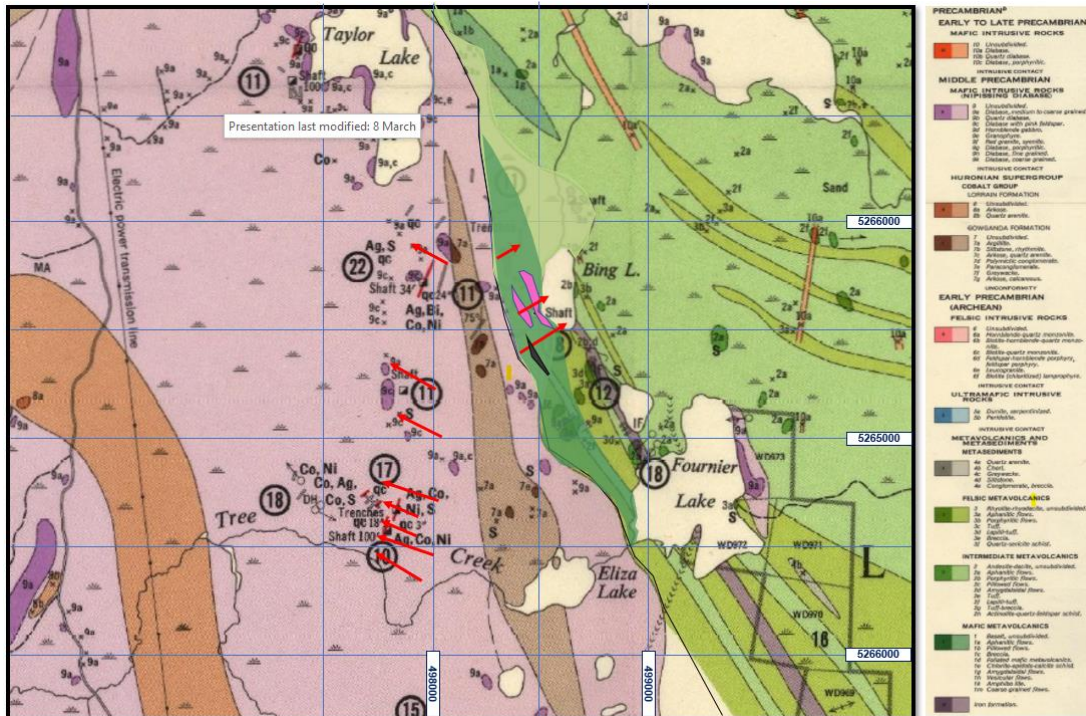
Hole STR21004, which was drilled directly under the Neelands pit from which the best surface cobalt values were obtained, did not return any cobalt assays although one very minor XRF value of 528ppm Co was reported at 35.42m.

The last hole of this series, STR21005, which tested the on- strike extent of the vein zone to the north, returned anomalous Ag (3.81ppm), Co (1115ppm), Bi (26.6ppm) and As (1585 ppm) values from ALS at 65.75- 66.25 m and Co readings up to 1.1% on the XRF scan.



Holes STR21006 and 007 were drilled under old shafts/ deep pits sunk on wide calcite veins mineralized with cobalt bloom, smaltite, niccolite and bismuth, by Nellie Lake Syndicate (later Coulee Lead and Zinc, 1963). From the ALS assays, it is evident that the veins intersected in the holes, particularly STR21006, are anomalous in cobalt, silver, copper and bismuth, although no ore grade values were returned. The best XRF value coincided with the core of a 1.6m zone of carbonate veins at 54.65m which gave a value of just over 0.3% Co. Hole STR21007, which was drilled under the historical workings about 230m north of hole 006, returned a few anomalous Co values in the upper portions and a string of low Cu values in the lower half. Both holes exited the diabase into Coleman group sediments, at 214m and 173m, respectively.

The most northerly hole drilled under old workings, STR21011, intersected a 4.25m wide zone containing a network of 30% (estimated) carbonate stringers and veinlets mineralized with pyrite and minor chalcopyrite at depth of about 50m. No anomalous Ag, Co, or Bi values were obtained with the XRF scans or the ALS assays in the hole.



**Figure 8: Shining Tree (Central) Showing the Revised Geology (light/ dark green north and west of Bing Lake) at the diabase/ Archean contact.**

As mentioned previously, Holes STR21008 to 010, were designed to test the unconformity/ contact between the Nipissing Diabase and the underlying Archean volcanic basement and coincident second tier IP and resistivity anomalies. Unfortunately, the existing geology maps were proved to be inaccurate as all three holes were collared in the mafic volcanic sequence. Hole STR21008 traversed a thick

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package of mafic flows cut by strong faults at 150m and 164m and included a 5.16m wide interflow graphitic argillite horizon at 70m. Similarly, hole STR21010 was drilled entirely through a monotonous package of massive, fine to very fine grained intermediate to mafic volcanics, whereas the hole on the west side of Bing Lake (STR21009), intersected a similar mafic volcanic suite that was intruded by a thick porphyritic unit. None of these holes returned any Co, Ag or Bi values.

The conceptual holes designed to test the basal contact of the Nipissing Diabase with the underlying volcanics revealed that the Nipissing contact was misinterpreted on the historical maps and can be moved approximately 200- 500 m westwards as shown in Figure 8.

### **4.3 CONCLUSIONS/ RECOMMENDATIONS**

#### **4.3.1 Conclusions**

The object of the drilling at the Shining Tree property was to test the highest priority IP and resistivity anomalies identified by Weis (2019), particularly those that coincided with historic surface showings/ workings, as well as conceptual targets at a potential Nipissing diabase contact with Archean metavolcanic rocks or iron formation. Ten diamond drill holes, STR21-002 to STR21-011, totaling 1875 meters were drilled in February and March 2021. Seven holes were oriented to intersect possible depth extensions of Co- bearing carbonate vein streams that had been worked historically along a north- south corridor roughly aligned with the IP chargeability and resistivity anomalies. A second tier of three holes was designed to target the basal contact of the Nipissing Diabase sill with the Archean basement and local IP anomalies. A total of 530 samples (including QA/ QC samples) were sent to ALS in Sudbury, Ontario for multielement analysis and 10 additional samples were sent for gold as well as multielement analysis.

All 7 of the holes targeting the historical workings intersected a significant number of calcite- quartz stringers and veins, however, assayed samples returned only slightly anomalous Co and Ag values. The conceptual holes returned no significant values with IP anomalies interpreted as interflow graphitic horizons and zones of weak disseminated sulphides in the volcanics and porphyry intrusives.

Considering that there were significant Co and Ag values obtained from the historical surface work, and only slightly anomalous assay results obtained from the drilling, it is obvious that there is little evidence for vertical continuity of the mineralization, implying that the drilling tested the barren base of a vein system and that the mineralized top of the system has been eroded. This conclusion would fit the model at Gowganda whereby the majority of the ore veins occur at the upper contact of the Nipissing Diabase sill, whereas at Shining Tree, the drilling was in closer proximity to the base.

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The conceptual holes designed to test the basal contact of the Nipissing Diabase with the underlying volcanics revealed that the Nipissing contact was misinterpreted on the historical maps and can be moved approximately 200- 500 m westwards.

#### 4.3.2 Recommendations

All 7 of the holes targeting the historical workings intersected a significant number of calcite- quartz stringers and veins, however, assayed samples returned only slightly anomalous Co and Ag values. At Gowganda, the majority of the ore veins occur at the upper contact of the Nipissing Diabase sill. If a similar mineralization model is applied to the Shining Tree area, then the disappointing assay results can be explained by the fact that the current drilling was concentrated closer to the base of the diabase sill. The conceptual holes returned no significant values- IP anomalies were interpreted as interflow graphitic horizons and zones of weak disseminated sulphides in the volcanics and porphyry intrusives.

Considering these facts, the following are recommended:

- 1) Neither of the shafts immediately west or north of Bing Lake were located during the prospecting or drilling programs of the Shining Tree Central project area. Since it is now confirmed that these shafts were sunk in the Archean basement volcanics, another attempt to locate the collars and examine the muck piles for possible McAra- style Co mineralization should be attempted;
- 2) A 3-D model of the Shining Tree Central area be developed which incorporates all of the known shafts and workings as well as all of the historic and current drilling to aid in better interpretation of the IP results and perhaps generate new targets;
- 3) the Caswell- Eplett and Neelands showing which was stripped in the late fall of 2020 should be re-visited and the vein zones re-examined and mapped in detail to determine Co mineral distribution and possible structural features that may control the mineralization;
- 4) the Coulee vein zones should be examined and mapped in a similar manner to 3 above;
- 5) that no additional drilling be done on the property unless warranted by positive results from the muck sampling, modelling, or detailed mapping outlined above;

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**5.0 REFERENCES**

- Andrews AJ, Owsiacski L, Kerrich R, and Strong DF. 1986. The Silver deposits at Cobalt and Gowganda, Ontario. I: Geology, Petrography, and whole-rock geochemistry. Canadian Journal of Earth Sciences, Vol 23, 1986.
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- Tindale, C.L., 1974, Geological Report on the Property of United Reef Petroleums Ltd., Leonard Township, District of Timiskaming, Ontario, Assessment Report 41P10SW0103.
- Weis, T., 2019, Geophysical Interpretation for Shining Tree Central Project; Geophysical Report for Battery Mineral Resources Corp.

**6.0 QUALIFICATIONS****CERTIFICATE OF QUALIFICATION AND CONSENT**

***I, Peter James Doyle of the city of Richmond Hill, Province of Ontario, do hereby certify:***

- 1) That I am an Exploration Geologist and reside at 79 Naughton Drive, Richmond Hill Ontario, L4C8B2.
- 2) That I graduated from Laurentian University at Sudbury, Ontario with an Honours Bachelor of Science degree in 1980.
- 3) That I am a **Fellow in good standing of the Australian Institute of Mining & Metallurgy (AUSIMM # 208850) as well as a member in good standing of Geological Association of Canada (GAC F0146); Canadian Institute of Mining & Metallurgy (CIMM # 91602); Prospectors & Developers Association of Canada (PDAC # 707); Society for Geology Applied to Mineral Deposits (SGA# 1333-08) and Society of Economic Geologists (SEG # 216720).**
- 4) That I have practiced my profession in various roles as a Mineral Exploration Geologist, Exploration Manager and Vice President of Exploration for a period of about 39 years principally within Canada & Australia as well as globally in United States of America, Mexico, Indonesia, China, Mongolia, Brazil, Argentina and Guyana.
- 5) This document is based on information various public documents and my personal observations during visits to the property during the exploration program.

*Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.*

6) I am currently employed full time as Vice President Exploration – Canada for Battery Mineral Resources Corp. and was directly involved in the planning and execution of the exploration program documented in this report.

7) *My written permission is required for the release of any summary or excerpt.*

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Peter J. Doyle

Richmond Hill, Ontario, May 4, 2021

**CERTIFICATE OF QUALIFICATION AND CONSENT**



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***I, Frank Rainer Ploeger of the town of Virginiatown, Province of Ontario, do hereby certify:***

- 1) That I am a Consulting Geologist and reside at 21 Waite Avenue, Virginiatown, Ontario, P0K 1X0.
  - 2) That I graduated from Queen's University at Kingston, Ontario with a Bachelor of Applied Science degree in 1973; and, that I completed 2 years of an MSc program at McMaster University in Hamilton, Ontario (1980- 1982).
  - 3) That I am a **member in good standing of the Association of Geoscientists of Ontario (#479), the Geological Association of Canada, the Prospectors and Developers Association, and the Northern Prospectors Association**. I have received a temporary permit (#2153) to practice in Quebec from the Ordre des geologues du Quebec.
  - 4) That I have practiced my profession as a mineral exploration and mine geologist for a period of about 45 years.
  - 5) This document is based on information various public documents and my personal observations during several visits to the property.
- Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.*
- 6) I am currently employed as Exploration Manager for Battery Mineral Resources Corp. and was directly involved in the planning and execution of the exploration program documented in this report.
  - 7) *My written permission is required for the release of any summary or excerpt.*

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Frank R. Ploeger

Virginiatown, Ontario, May 4, 2021



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**9.0 APPENDIX**

**APPENDIX 1: MINING CLAIM INFORMATION**

**APPENDIX 2: DRILL HOLE METADATA**

**APPENDIX 3: DRILL HOLE LOGS**

**APPENDIX 4: ASSAY RESULTS**

**APPENDIX 5: ASSAY CERTIFICATES**

**APPENDIX 6: CROSS SECTIONS**

Map Claim Reference Number	Tenure ID	Cell ID(s)	Tenure Type	Tenure Status	Anniversary Date	Due Date	Holder	Area (ha)	Township/Area	Work Required	Work Applied	Available Consultation Reserve	Available Exploration Reserve	Total Approved Reserve
1	103651	41P11A271	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
2	103652	41P11A315	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	16.07	LEONARD	\$ 200	\$ 400	\$ -	\$ 1,333	\$ 1,333
3	103993	41P11A155	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 7,322	\$ 7,322
4	103994	41P11A178	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 16,774	\$ 16,774
5	105275	41P11A072	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	16.88	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
6	108692	41P11A154	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
7	110950	41P11A231	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
8	111013	41P11A214	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
9	111014	41P11A211	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
10	112769	41P11A096	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 945	\$ 945
11	118934	41P11A292	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
12	119252	41P11A198	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	17.86	LEONARD	\$ 200	\$ 400	\$ -	\$ 3,048	\$ 3,048
13	122911	41P11A151	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
14	125196	41P11A013	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.78	LEONARD, TYRRELL	\$ 400	\$ 800	\$ -	\$ 4,711	\$ 4,711
15	131340	41P11A035	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	10.71	LEONARD	\$ 200	\$ 400	\$ -	\$ 1,125	\$ 1,125
16	131341	41P11A054	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	14.23	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
17	133650	41P11A194	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
18	134482	41P11A115	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	12.01	LEONARD	\$ 200	\$ 400	\$ -	\$ 2,139	\$ 2,139
19	135843	41P11A297	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 3,563	\$ 3,563
20	136587	41P11A059	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	17.25	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
21	140423	41P11A232	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
22	142563	41P11A078	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 2,249	\$ 2,249
23	149305	41P11A238	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	18.46	LEONARD	\$ 200	\$ 400	\$ -	\$ 8,260	\$ 8,260
24	149306	41P11A237	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,864	\$ 1,864
25	150322	41P11A172	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
26	150549	41P11A135	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	9.26	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
27	155370	41P11A276	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,625	\$ 1,625
28	155371	41P11A316	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	15.38	LEONARD	\$ 200	\$ 400	\$ -	\$ 2,883	\$ 2,883
29	155716	41P11A132	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,711	\$ 4,711
30	155717	41P11A131	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
31	159091	41P11A136	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	4.98	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
32	160535	41P11A215	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 12,017	\$ 12,017
33	161472	41P11A074	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	14.22	LEONARD	\$ 200	\$ 400	\$ -	\$ 2,139	\$ 2,139
34	165709	41P11A158	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 4,215	\$ 4,215
35	165710	41P11A157	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 11,714	\$ 11,714
36	167742	41P11A331	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
37	168155	41P11A258	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	18.80	LEONARD	\$ 200	\$ 400	\$ -	\$ 9,936	\$ 9,936
38	168156	41P11A257	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 453	\$ 453
39	169227	41P11A136	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	16.81	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
40	171299	41P11A039	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	8.47	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -

41	171300	41P11A038	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	10.68	LEONARD	\$ 200	\$ 400	\$ -	\$ 1,559	\$ 1,559
42	172367	41P11A093	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
43	172368	41P11A112	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
44	175136	41P11A094	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	16.09	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
45	181179	41P11A314	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
46	181180	41P11A333	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	9.14	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
47	182644	41P11H394	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	15.35	TYRRELL	\$ 200	\$ 400	\$ -	\$ 14	\$ 14
48	186700	41P11A272	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
49	186701	41P11A295	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 3,517	\$ 3,517
50	187237	41P11A334	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	9.13	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
51	188655	41P11H393	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	18.90	TYRRELL	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
52	194501	41P11A251	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
53	196080	41P11A037	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	10.68	LEONARD	\$ 200	\$ 400	\$ -	\$ 11,130	\$ 11,130
54	198451	41P11A174	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
55	198452	41P11A171	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
56	198453	41P11A191	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
57	201262	41P11A058	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,774	\$ 1,774
58	212509	41P11A254	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
59	212557	41P11A213	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
60	214629	41P11A034	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	7.02	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
61	214630	41P11A094	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	5.70	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
62	217543	41P11A236	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 5,226	\$ 5,226
63	218503	41P11A053	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
64	221067	41P11A091	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
65	221068	41P11A114	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
66	224484	41P11A137	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	4.98	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
67	225958	41P11A014	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	17.94	LEONARD, TYRRELL	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
68	229039	41P11A113	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,972	\$ 4,972
69	232465	41P11A196	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 5,494	\$ 5,494
70	232794	41P11A036	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	10.69	LEONARD	\$ 200	\$ 400	\$ -	\$ 15,517	\$ 15,517
71	232795	41P11A075	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,815	\$ 1,815
72	236597	41P11A313	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
73	236598	41P11A312	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
74	236599	41P11A335	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	0.98	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
75	237879	41P11A079	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	17.25	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
76	238080	41P11A012	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	11.72	LEONARD, TYRRELL	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
77	238081	41P11A074	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	7.56	LEONARD	\$ 200	\$ 400	\$ -	\$ 2,339	\$ 2,339
78	241204	41P11A135	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	12.53	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
79	241666	41P11A234	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
80	244665	41P11A195	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 8,912	\$ 8,912
81	246400	41P11A097	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 510	\$ 510
82	246684	41P11A273	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
83	249323	41P11A057	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,660	\$ 1,660
84	249324	41P11A056	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 5,075	\$ 5,075
85	249726	41P11A252	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
86	253862	41P11A098	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ -	\$ -
87	253863	41P11A117	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ -	\$ -

88	253864	41P11A138	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	14.82	LEONARD	\$ 200	\$ 400	\$ -	\$ 10	\$ 10
89	255163	41P11A278	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	19.02	LEONARD	\$ 200	\$ 400	\$ -	\$ 7,109	\$ 7,109
90	255164	41P11A317	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	15.35	LEONARD	\$ 200	\$ 400	\$ -	\$ 10,310	\$ 10,310
91	257759	41P11A095	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	5.86	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
92	261255	41P11A212	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,711	\$ 4,711
93	265933	41P11A116	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,309	\$ 4,309
94	269169	41P11A197	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 7,463	\$ 7,463
95	270045	41P11A076	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 2,250	\$ 2,250
96	270415	41P11A332	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	9.16	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
97	274012	41P11A277	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,424	\$ 1,424
98	274013	41P11A298	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	19.02	LEONARD	\$ 200	\$ 400	\$ -	\$ 11,627	\$ 11,627
99	276282	41P11A133	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
100	277865	41P11A233	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 427	\$ 427
101	280450	41P11A176	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 14,185	\$ 14,185
102	280451	41P11A175	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 5,258	\$ 5,258
103	282502	41P11A293	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 378	\$ 378
104	282520	41P11A311	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
105	282790	41P11A193	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,712	\$ 4,712
106	284467	41P11A034	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	12.90	LEONARD	\$ 200	\$ 400	\$ -	\$ 13	\$ 13
107	284468	41P11A033	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
108	284469	41P11A073	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
109	284470	41P11A071	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	11.23	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
110	288324	41P11A092	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
111	290123	41P11A153	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
112	290124	41P11A192	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
113	292569	41P11H392	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	10.40	TYRRELL	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
114	295141	41P11A115	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	9.78	LEONARD	\$ 200	\$ 400	\$ -	\$ 2,339	\$ 2,339
115	295142	41P11A134	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
116	301679	41P11A152	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
117	301680	41P11A173	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 378	\$ 378
118	302538	41P11A118	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ -	\$ -
119	303866	41P11A318	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	13.36	LEONARD	\$ 200	\$ 400	\$ -	\$ 9,517	\$ 9,517
120	304576	41P11A099	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	6.93	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
121	309053	41P11A235	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 8,390	\$ 8,390
122	315699	41P11A255	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,737	\$ 4,737
123	315700	41P11A253	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
124	320392	41P11A095	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	15.93	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
125	321208	41P11A032	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	11.43	LEONARD	\$ 200	\$ 400	\$ -	\$ 4,895	\$ 4,895
126	321209	41P11A052	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	11.15	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
127	324354	41P11A111	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
128	327712	41P11A156	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 6,824	\$ 6,824
129	329997	41P11A077	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 2,704	\$ 2,704
130	330284	41P11A275	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 1,532	\$ 1,532
131	331413	41P11A218	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	18.11	LEONARD	\$ 200	\$ 400	\$ -	\$ 17,320	\$ 17,320
132	331414	41P11A216	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 21,590	\$ 21,590
133	331415	41P11A256	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 14,625	\$ 14,625
134	332483	41P11A055	SCMC	Active	2021-04-18	2021-04-18	(100) BMR	21.78	LEONARD	\$ 400	\$ 800	\$ -	\$ 4,860	\$ 4,860

135	333156	41P11A217	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 12,074	\$ 12,074
136	333443	41P11A137	BCMC	Active	2021-04-18	2021-04-18	(100) BMR	16.81	LEONARD	\$ 200	\$ 400	\$ -	\$ -	\$ -
137	334097	41P11A296	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 12,889	\$ 12,889
138	340114	41P11A138	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	4.38	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20
139	340115	41P11A177	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.79	LEONARD	\$ 400	\$ 800	\$ -	\$ 13,722	\$ 13,722
140	342151	41P11A274	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.80	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
141	342152	41P11A294	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 800	\$ -	\$ 40	\$ 40
142	342153	41P11A291	SCMC	Active	2020-11-04	2020-11-04	(100) BMR	21.81	LEONARD	\$ 400	\$ 600	\$ -	\$ 40	\$ 40
143	344128	41P11A054	BCMC	Active	2020-11-04	2020-11-04	(100) BMR	7.55	LEONARD	\$ 200	\$ 400	\$ -	\$ 20	\$ 20



Hole ID	mEasting	nNorthing	Elevation (m)	Azimuth	Dip	Depth (m)	Drill Core Diameter	Cali Number (Provincial/Grd)	Lease Number	Mining Claim Number	Drilling Start Date	Drilling End Date	Drilling Contractor	Storage	Overburden Thickness (m)	Casing	Cap Method	Abandoned	Artexion Conditions	Log Start Date	Log Completion Date	Log Author
	Datum: UTM NAD83, Zone 17N																					
STR21002	497921	5264555	367	289	-45	200	NQ	041P11	N/A	217543	10-Feb-21	12-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	6.47	Left In Place	Metal Collar Cap	No	No	11-Feb-21	15-Feb-21	S. Hicks/A. Salerno
STR21003	497893	5264589	368	290	-45.5	100	NQ	041P11	N/A	217543	12-Feb-21	12-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	10.78	Left In Place	Metal Collar Cap	No	No	13-Feb-21	16-Feb-21	S. Hicks/A. Salerno
STR21004	497899	5264639	368	289	-43.5	100	NQ	041P11	N/A	217543	13-Feb-21	13-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	21.7	Left In Place	Metal Collar Cap	No	No	14-Feb-21	17-Feb-21	S. Hicks/A. Salerno
STR21005	497909	5264697	369	287	-46	200	NQ	041P11	N/A	217543	13-Feb-21	15-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	21.66	Left In Place	Metal Collar Cap	No	No	15-Feb-21	18-Feb-21	S. Hicks/A. Salerno
STR21006	498009	5265016	381	301	-46	228	NQ	041P11	N/A	331414	15-Feb-21	19-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	3.9	Left In Place	Metal Collar Cap	No	No	16-Feb-21	21-Feb-21	S. Hicks/A. Salerno
STR21007	497994	5265247	383	301	-50	204	NQ	041P11	N/A	331414	25-Feb-21	25-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	12	Left In Place	Metal Collar Cap	No	No	25-Feb-21	02-Mar-21	S. Hicks
STR21008	498443	5265422	368	67	-45	315	NQ	041P11	N/A	269169	28-Feb-21	02-Mar-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	6	Left In Place	Metal Collar Cap	No	No	05-Mar-21	07-Mar-21	S. Hicks
STR21009	498413	5265635	375	67	-51	201	NQ	041P11	N/A	269169	26-Feb-21	27-Feb-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	3	Left In Place	Metal Collar Cap	No	No	27-Feb-21	04-Mar-21	N. Kastek/M. Gaudreau
STR21010	498304	5265873	372	61	-50	126	NQ	041P11	N/A	340115	02-Mar-21	04-Mar-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	8.5	Left In Place	Metal Collar Cap	No	No	04-Mar-21	08-Mar-21	N. Kastek/M. Gaudreau
STR21011	497999	5265825	375	300	-50	201	NQ	041P11	N/A	280450	04-Mar-21	06-Mar-21	Forage G4 Drilling	Canadian Exploration Services Ltd. 14579 Government Road Larder Lake, Ontario, Canada POK 110	3	Left In Place	Metal Collar Cap	No	No	05-Mar-21	10-Mar-21	N. Kastek/M. Gaudreau









Shining Tree	STR21006	213.8	223.54	9.74	Sn	Sn sandstone	L	Pink Grey	fmg	bedded/banded	Sandstone (Huronian Sediments): pinkish white to grey in upper 2 m grading to light to medium grey with pink hued bands/beds, fine to medium grained with weak bedding observed ranging from 45 DTCA (upper contact) to 60 DTCA (towards lower contact) and very sporadic pebble sized drop stones. Unit is hard, competent and non-magnetic with weak pervasive carbonate alteration at upper contact, localized very weak sericite alteration and weak pinkish alteration (Fe/K?) in lower half of unit. Trace py along or proximal to fractures with significant carbonate to Qtz-carb veining observed along both upper and lower contacts. Lower contact is brecciated by Qtz-carb veins @ 70 DTCA.	foliated	carbonate alteration	wk	py	0.1	vcq	1						
Shining Tree	STR21006	223.54	228	4.47	Ssl	Ssl silstone	D	Grey Black	vfg	massive	Siltstone (Huronian Sediments): dark grey to grey black, very fine grained to aphanitic and massive. Upper contacts is brecciated by Qtz-carb vein and altered reddish buff colour. Several red altered pebbles/drop stones and trace blebby py along fractures. EOH.	massive			py	0.01	vcq	0.1						
Shining Tree	STR21007	0	12		Oou	Oou Overburden general																		
Shining Tree	STR21007	12	19.4	7.4	Dia	Dia Diabase	M	grey	mg	massive	Nipissing Diabase: medium grey, medium grained, massive, equigranular and weakly to moderately magnetic. Unit is consistently broken and blocky with several rubby sections (e.g., 18 m). Weak pervasive chlorite alteration throughout unit, as filled and healed fractures. Shimmery mica throughout section (phlogopite?). Disseminated pyrite in top part of section. Lower contact is sharp @ 50 DTCA.	broken	chlorite alteration	wk	py	0.05								
Shining Tree	STR21007	19.4	20.2	0.81	vcq	vcq quartz carbonate vein	dia	Dia Diabase	M	pink grey	vfg	vein/veining		carbonate alteration	wk	py	0.05							
Shining Tree	STR21007	20.2	25.6	5.4	dia	Dia Diabase	M	grey	mg	massive	Nipissing Diabase: medium grey, medium grained, massive, equigranular and weakly to moderately magnetic. Unit is consistently broken and blocky with one rubby sections at 21m. Weak pervasive chlorite alteration throughout unit, as filled and healed fractures. Very little shimmery mica throughout section. Disseminated to mildly blebby pyrite. Gradational (1cm) contact is @ 55 DTCA.	broken	chlorite alteration	wk	py	0.05	vcb	0.1						
Shining Tree	STR21007	25.6	42	16.4	dia	Dia Diabase	vcq	vcq quartz carbonate vein	M	grey	fg	blocky	healed breccia	carbonate alteration	str	potassic	py	0.05	cp	1	vcb	1		
Shining Tree	STR21007	42	63	21	Dia	Dia Diabase	M	grey	mg	massive	Unaltered Nipissing diabase: medium to lighter grey, medium grained, massive, equigranular, changing gradually from moderately to strongly magnetic. Unit is remarkably uniform and competent throughout and to the bottom. There are several non-mineralized narrow calcite veinlets distributed occasionally and several >1cm up to a maximum of 20cm, 50% of the >1cm wide calcite veins have blebs of chalcopyrite on or near their contacts especially when chlorite is present. Some fractures show slickensides and have a talc feel. Notable veins >2m include: a 1cm calcite quartz vein at 44.13m with 50 DTCA, contains chlorite and has diffused contacts; at 44.64 a 2cm calcite vein with associated chlorite and sharp contacts with a 50 DTCA. At 45.27m a 20cm calcite vein with a 87 DTCA top and a 35 DTCA bottom contacts. The calcite vein has one small (2mm) chalcopyrite bleb on the top contact and associated chlorite intermed and as bands. At 47.62 a 2 to 3cm calcite vein, 25 DTCA, with sharp contacts, hosting several blebs of chalcopyrite with associated chlorite on the upper and lower contacts. At 48.64 a 3cm calcite vein, 45 DTCA, with sharp contacts, host two blebs of chalcopyrite with associated chlorite. At 57.67 a 3cm calcite vein, 45 DTCA, with sharp contacts has associated chlorite on the contacts and a 30cm carbonate halo centred on the vein. Similarly at 58.90 a 4cm calcite vein, 50 DTCA, has a 70cm carbonate halo centred on the vein. At 60m calcite veins to 10cm, with a 30 DTCA, includes several vuggy areas. As with other calcite veins in this zone have a halo that reacts to acid test. After this vein, occurring between 60.4 and 60.9m is a 50cm coarse grained interval, previously named granophyre. This interval retains a minor reaction to acid test and has up to 2% Sm, 5mm size, magnetite crystals and ~1% fine to very fine, sporadically distributed pyrite (pyrrhotite?). At 61.36m a 2cm calcite vein with associated chlorite and 25 DTCA, includes a small bleb of chalcopyrite and has sharp contacts. Sporadic narrow <0.5cm calcite veins occur until at 62.9m a 3 cm calcite-quartz vein occurs. The vein is situated 10cm before the next lithology, perhaps marking the bottom. The vein has a 40 DTCA and sharp contacts.	vein/veining	carbonate alteration	mod	chlorite alteration	tr	vcb	2						
Shining Tree	STR21007	63	80.5	17.5	Gpp	Gpp Granophyre	M	grey pink	vcg	massive	Very Coarse grained granophyre: felicitic texture or coarse grained diorite with disseminated pyrite. At 70.5 a 2 cm pink calcite vein @ 50 DTCA. At 76.75 a 30 cm iron carbonate vein with 60 DTCA at upper contact and 45 DTCA lower contact. Occasional fine pyrite specks. Minor chlorite healing of fractures.	chlorite alteration	v wk	py	0.05	vcb	15							
Shining Tree	STR21007	80.5	169.5	89	Dia	Dia Diabase	M	grey	mg	massive	Nipissing diabase: medium grey, medium grained, massive, equigranular and weakly to moderately magnetic. Unit is consistently broken and blocky with rubby sections. Weak pervasive chlorite alteration throughout unit, as filled and healed fractures with 1 to 2mm spotty intervals and also occurring pervasive iron veins. Occasional disseminated pyrite. Short intervals of very fine calcite veinlets: At 82.1 cm quartz-carbonate vein with pyrite blebs slicken sides @ 60 DTCA. At 92.53 barren 1cm pink calcite vein @ 35 DTCA. Slickensides occur on most fractures, and up to 4mm epidote veinlets occur randomly but never in a network placement. Shimmery mica throughout section (phlogopite?). At 129.45 2cm pinkish calcite vein 50 DTCA, chlorite within vein and on contacts, mineralized with 2mm blebs of chalcopyrite and on top contact very fine grained disseminated chalcopyrite crystals. At 153.97 1cm pinkish calcite vein 30 DTCA, chlorite within vein and on contacts, non-mineralized. At 157.45m, 5cm quartz calcite vein mineralized with blebs of chalcopyrite and chlorite in vein and contacts, DTCA 40. At 159.2 a 3cm calcite with minor quartz vein, with blebs of chalcopyrite randomly occurring, DTCA 50. At 155.62 a 5cm quartz-calcite vein, with blebs of chalcopyrite and crystals of pyrite (some cubic) randomly disseminated in bedding of quartz and calcite, more often in the quartz. Chlorite is within vein between bedding of the quartz and calcite. DTCA 50. At 169.35 a 2cm pinkish calcite vein 30 DTCA, chlorite within vein, non-mineralized. Bottom was marked at 169.50 due to, 1. Lack of spotty chlorite, 2. Changed from medium grained to fine grained, 3. Breccia-blocky, rehealed by quartz-carbonate hematite and orthochnal right angle veins with calcite. 4. Mineralization is associated only with the quartz and less calcite veining.	broken	chlorite alteration	tr	carbonate alteration	v wk	py	0.2	vcb	1				
Shining Tree	STR21007	169.5	173	3.5	Dia	Dia Diabase	L	grey	fg	blocky	From 189 to 173: Nipissing diabase to lower contact with red argillite (incl named "red beds"). Grey, fine grained, massive, blocky, with chalcopyrite mineralization restricted to quartz-carbonate hematite fracture filling veining. The blocky breccia is rehealed by quartz-carbonate hematite at orthogonal right angle with calcite veins (married). This description applies continuously to the lower contact. Lower contact sharp at 70 DTCA.	vein/veining	hematite alteration	mod	carbonate alteration	str	silica alteration	wk	cp	0.2	vcq	0.5		
Shining Tree	STR21007	173	204	31	Ssl	Ssl silstone	D	grey red	vfg	laminated	173 to 204: Siltstone, very fine grained, colour changes: 173- 177 dark brown and red, 177- 179 tan and brown and light red, 179- 184.3 dark brown and red, 184.3- 185 light browns and greys, 185- 186 dark gray to black, 186- 189.7 light brown to dark brown, 189.7- 191.3 light brown, 191.3- 198.7 dark grey and dark brown, 198.7- 199.8 dark gray, 199- 204 light brown gray and dark brown. Magnetite intervals: 174- 175 bedding of 5 mm magnetite 2mm hematite (laminated); 185- 186 massive dark grey siltstone no visible magnetite, 203.60- 204 massive dark grey siltstone no visible magnetite. Mineralized intervals: 185- 186 massive dark grey siltstone, blebby chalcopyrite and chalcopyrite within and on the peripheral (down hole) of a 0.5cm wide potassic vein hosted within the magnetic massive dark grey siltstone. At 189.4 DTCA 50, 2cm pink quartz vein, non-mineralized. At 188.57 m 8 cm wide quartz-calcite vein @ 50DTCA with minor cp and 1.189.70- 190m 2mm - 5mm semi massive chalcopyrite vein perpendicular to the bedding. At 189.7 - 190.6 breccia with calcite filling, no visible mineralization. The hole stopped at 204m in massive magnetic dark grey siltstone with 1 - 2mm calcite veins (healing). EOH	laminated	carbonate alteration	mod	potassic	tr	py	0.2	vcb	0.2				
Shining Tree	STR21008	0	6	6	Oou	Oou Overburden general																		
Shining Tree	STR21008	6	67	61	Vm	Vm mafic volcanic	M	grey	fg	massive	Mafic Volcanics: medium grey, aphanitic to very fine grained, massive and very weakly to weakly magnetic. Unit is hard and competent with a few broken/blocky sections (i.e. 27m, 39m, 50-57m) and rubby sections (i.e. 10m, 43m) with possible gouge @ 45.5m. Weak to moderate pervasive leucocene alteration [sericite?] seen as yellow brown specs which become finer down hole and appear to stop ~5cm. Localized weak pervasive carbonate alteration proximal to vein/veinlets and localized chlorite alteration (spotting). Carbonate spots rimmed by Qtz/plag? are observed from 37.7m to 39.65m and are accompanied by very fine grained disseminated py and a lighter grey coloured host rock. Trace to minor blebby vein associated py +/- cpy observed disseminated within the veins or along the vein margins. Abundant sub-mm to mm calcite veins (veining +/- dtd) ranging from orthogonal to 15 DTCA, minor cm-scale Qtz-carb veins throughout (20-60 DTCA), numerous cm-scale shallow angled (5-25 DTCA) sheeted/foliated and brecciated Qtz-carb veins with dark chlorite seams often with trace py (i.e. 18.8m, 48.75m, 53.6m) and one with very fine grained disseminated qpy @ 32.7m, sheeted/foliated and vuggy Qtz-carb vein with yellowish brown to white alteration immediately followed by possible fault gouge (15 DTCA @ 45.33m). Unit begins to lighten in colour from light grey to a buff grey (bleaching?) from 58 m to lower contact likely due to moderate to strong pervasive carbonate alteration. Lower contact is brecciated (low breccia?) which begins around 67m.	vein/veining	leucocene alteration	mod	carbonate alteration	wk mod	chlorite alteration	wk	py	1	cp	0.01	vcq	5
Shining Tree	STR21008	67	72.36	5.16	Sag	Sag argillite	D	black	vfg	bedded/banded	Graphitic Argillite: black to dark grey argillite with some brown clay bands. Upper 3m of unit is highly bleached to brown consisting predominantly of bleached (carbonate?) mafic volcanic with black to dark grey argillite infilling which has pervasive carbonate alteration and significant very fine to fine grained disseminated euhedral py (3-5%) +/- po +/- cpy sometimes coalescing to form amorphous blebs. The unit is consistently broken and blocky. The brecciation ends @ 70.23m with a rubby section followed by a 5 cm Qtz vein (65 DTCA) with abundant healed chloritic fractures. Carbonaceous argillite from 70.50m to 71.45m exhibit severe laminations, disseminated py (1%) and graphic slip surfaces throughout with the darkest graphic section at 71.33m. Last 50 cm is much more laminated with abundant yellowish brown beds/laminae (chert?) @ 70-90 DTCA. Lower contact is irregular and undulating @ 50-60 DTCA.	healed breccia	carbonate alteration	mod str	chlorite alteration	wk	py	5	cp	0.01	po	0.01	vcq	1



Shining Tree	STR21008	72.16	132.5	60.34	Vvm	Vvm mafic volcanic	M	grey	fg	massive	Mafic Volcanics: medium to light grey in patches, aphanitic to fine grained, massive and non-magnetic to weakly magnetic in patches. Unit is hard and competent with weak to moderate pervasive leucocene and/or sericite alteration, weak localized chlorite alteration (spotted), some sections appear medium grained due to the alteration (i.e. 90m-92m). Trace vein associated py. Abundant veining throughout unit from sub-mm-scale carbonate veinlets +/- qtz ranging from 35 to 80 DTCA sometimes with a yellowish green alteration (sericite), several brecciated cm-scale qtz-carb veins (i.e. 79.3m, 83.4m, 117.1m) and numerous cm-scale qtz-carb veins (20-40 DTCA) often with trace fine grained disseminated py (i.e. 85.12m, 107.87m, 123.45m). From 125m to lower contact unit is altered a light brown colour and appears to be silicified becoming broken and blocky at 132 m with numerous cm-scale qtz-carb veins. Lower contact is sharp @ 50 DTCA.	vein/veining	leucocene alteration	wk mod	sericite alteration	wk mod	chlorite alteration	wk	py	1	vqc	5		
Shining Tree	STR21008	132.5	137	4.5	FR	Fault	D	grey	vfg	blocky	Fault (Mafic Volcanics): unit is broken and blocky with several rubbly sections consisting of medium to dark grey, aphanitic to very fine grained, weak to moderately magnetic mafic volcanics. Minor chlorite alteration and moderate epidote alteration of qtz-carb veins (60-70 DTCA) with trace amounts of fine grained py. 3 cm of fault gouge at lower contact which is sharp @ 55 DTCA.	faulted/fault	chlorite alteration	wk				py	0.1	vqc	1			
Shining Tree	STR21008	137	147.6	10.6	Vvm	Vvm mafic volcanic	M	grey	fg	massive	Mafic Volcanics: medium to dark grey, aphanitic to very fine grained, massive and moderately magnetic. Unit is hard and competent becoming more blocky towards lower contact. Weak pervasive leucocene/sericite alteration, minor pervasive chlorite alteration and localized vein associated epidote alteration. Very trace very fine grained fracture/vein related py. Several low angle qtz-carb veins with strong epidote association (i.e. 20 DTCA @ 142.78m, 15 DTCA @ 144.76m) with a linked hematized qtz-vein @ 143.48m. Faulted lower contact appears to be ~30 DTCA.	massive	leucocene alteration	wk	chlorite alteration	wk		py	0.1	ep	1	vqc	1	
Shining Tree	STR21008	147.6	157.5	9.91	FR	Fault	D	grey	vfg	blocky	Fault (Mafic Volcanics): unit is very broken and blocky with numerous rubbly sections consisting of medium to dark grey, aphanitic to very fine grained, massive and moderately magnetic volcanics. Weak pervasive chlorite alteration with localized vein associated epidote alteration with a serpenitized slip at 146.48m. Numerous mm-scale epidote veinlets +/- carbonate with localized trace amounts of very fine grained disseminated py. Lower contact is defined by return of competent rock.	faulted/fault	chlorite alteration	wk	serpenitized	v wk		py	0.01	ep	1	vlt	1	
Shining Tree	STR21008	157.5	162.93	5.44	Vvm	Vvm mafic volcanic	D	grey	fg	massive	Fault (Mafic Volcanics): unit is broken and blocky with numerous rubbly sections consisting of medium to dark grey, aphanitic to very fine grained, massive and moderately magnetic mafic volcanics with trace fine grained disseminated py. Weak pervasive chlorite alteration with a couple mm-scale epidote veinlets/straggers (30-40 DTCA) with a cm-scale foliated/sericite qtz-carb vein (30 DTCA @ 158.8m). Lower contact is defined by an epidote veinlet and the transition to very broken core @ 15 DTCA.	massive	chlorite alteration	wk			py	1	ep	1	vlt	1		
Shining Tree	STR21008	162.93	165.38	2.45	FR	Fault	M	grey	vfg	blocky	Fault (Mafic Volcanics): unit is broken and blocky with numerous rubbly sections consisting of medium to dark grey, aphanitic to very fine grained, massive and moderately magnetic mafic volcanics with trace fine grained disseminated py. Weak pervasive chlorite alteration with a couple mm-scale epidote veinlets (15 DTCA). Lower contact is defined by return to competent rock and appears to be ~30 DTCA.	faulted/fault	chlorite alteration	wk			py	1	ep	0.1	vlt	0.1		
Shining Tree	STR21008	165.38	315	149.62	Vvm	Vvm mafic volcanic	M	grey	fg	massive	Mafic Volcanics: from the upper contact to 175m unit is light to medium buff grey and appears to be altered/bleached significantly (silicified?) with several flow top/basal breccias (i.e. 172.52m) and mafic clasts and/or amygdaloids which appear to be rimmed by chilled margins. This section also has numerous sub-mm to cm-scale qtz-carb veins ranging from 20 to 90 DTCA often with significant fine grained to blocky py and localized deep hematite staining. From 175m on the unit is light to medium grey, aphanitic to very fine grained, massive and non- to very weakly magnetic. The combination of moderate to strong leucocene/sericite alteration and varying degrees of chlorite alteration alter the units colour from light to medium grey. Abundant mm- to cm-scale carbonate to qtz-carb veins throughout unit sometimes with epidote alteration along vein margins (i.e. 213.7m) predominantly 20-40 DTCA often with trace fine grained disseminated py +/- cpv (i.e. 231.85m), several sub parallel veinlets (i.e. 235.5m), 10 cm qtz-carb vein with minor chlorite (70 DTCA @ 237.24m). Possible pillow salvages are also apparent from 303.6m to EOH.	vein/veining	leucocene alteration	mod str	chlorite alteration	wk mod		py	0.1	ep	0.1	vqc	5	
Shining Tree	STR21009	0	3	0	Oou	Oou overburden general					Top of hole, from 3 to 25.6: Potassium feldspar and plagioclase, as dominant phenocryst phases, varies from white to pink, phenocryst > 2mm up to 1 cm. Note, possibly very fine disseminated sulfides (confirm with hand held XRF). From 3m to 6.5 m potassic, 6.5 to 15 plagioclase, 15 to 19 to 25 potassic, massive and competent core lengths, 15 to 50 1cm white quartz-carbonate vein DTCA 35. Alteration: Micro fracture filling, averaging of 1mm to <0.5 cm calcite veinlets throughout the section make up calcification. Lower contact is at 25.60m mineralized zone.	massive	carbonate alteration		Saussurite	str				vqc	1			
Shining Tree	STR21009	3	25.6	22.6	Gpp	Gpp porphyry	M	grey	cg	porphyritic or	Porphyry (Felsic to Intermediate): Medium grey, medium grained, micro fracturing, fine grained white plagioclase, carbonate alteration pervasive throughout. Disseminated pyrite, sporadically throughout as 2mm blebs. Carbonate micro fracture filling is primary, up to 3 mm. Vein density is very high (strong reaction to acid test). Chlorite alteration is present, as diffused to spotty throughout. Lower contact at gouge zone.	vein/veining	carbonate alteration	str			py	0.4	vcb	0.1				
Shining Tree	STR21009	25.6	28.25	2.65	Vvm	Vvm mafic volcanic	M	grey	mg	massive	Mafic Volcanics, GOUUGL: Medium grey, medium grained, micro fracturing, fine grained white plagioclase skeletal, carbonate alteration pervasive throughout. Disseminated pyrite, sporadically throughout as 2mm blebs. Carbonate micro fracture filling is primary, up to 3 mm. Vein density is very high (strong reaction to acid test). Chlorite alteration is present, as diffused to spotty throughout. Lower contact at gouge zone.	gouge	carbonate alteration	str			he	0.05	vcb	0.2				
Shining Tree	STR21009	28.25	30.5	2.25	Vvm	Vvm mafic volcanic	M	grey	mg	fragmental or	Mafic Volcanics: Light to medium grey, medium grained, moulded textured, carbonate alteration as 2-3 mm calcite veins. Disseminated, blebby, narrow veinlets of pyrite occur sporadically throughout. Blebby texture due to high chlorite and lesser amount of epidote. Chlorite alteration present as elongated laths (2 mm x 5 mm) changing to primary alteration with epidote in more heavily mineralized sections 1%. Hematite mineralization observed as specular hematite crystals and red oxidation in several narrow (2mm) calcite veinlets infilling fractures. One fracture with specular hematite (red oxidation) included 3 mm malachite staining. Lower contact is gradational based on texture of epidote crystals being more dominant and increase in reaction to acid test without visible calcite crystals.	massive	carbonate alteration	mod	hematite alteration	tr		py	0.5	cl	0.3	vcb	0.3	
Shining Tree	STR21009	30.5	36.4	5.9	Vvm	Vvm mafic volcanic	L	grey	mg	uniform texture	Mafic Volcanics: Light grey to medium grey, medium grained, moulded textured, epidote and carbonate alteration, a few calcite <0.5 mm calcite veins. Blebby texture due to dominant epidote crystals. Chlorite alteration present. Hematite mineralization observed as specular hematite crystals and red oxidation in fracture at 37.83 m. Lower contact determined by change in texture, epidote crystals not dominant, increased skeletal plagioclase crystals.	massive	carbonate alteration	wk			he	0.2	vcb	0.3				
Shining Tree	STR21009	36.4	39	2.6	Vvm	Vvm mafic volcanic	L	green	mg	uniform texture	Mafic Volcanics: Medium grey, medium grained, numerous 2-3 mm (40.5cm) calcite veins distributed through section fracturing as fracture filling. Fine grained (1-2 mm) white skeletal plagioclase crystals spotty throughout, carbonate alteration pervasive throughout. Occasional disseminated and blebs of pyrite, sporadically distributed throughout. In places strong reaction to acid test. Chlorite is present within and on the margins of quartz-calcite veins. Pyrite mineralization in a few veins is cubic up to 5 mm. Lithology included the following: At 39.30 m a 4 cm white quartz-calcite vein DTCA 30. At 39.10 m a 3 cm pink and white quartz-calcite vein DTCA 35. At 41.1 m a 5 cm white quartz-calcite vein DTCA 35. At 41.60 m a 2 cm white quartz-calcite vein DTCA 35. At 42.5 m a 3 cm white quartz-calcite vein DTCA 35. At 46.83 m a 1 cm orange and white quartz-calcite vein DTCA 35. At 44.4 m a 4 cm white quartz-calcite vein DTCA 30. At 48.98 m a 3 cm white quartz-calcite vein DTCA 35. At 49.17 m a 5 cm white quartz-calcite vein DTCA 35 also has cubic pyrite crystals and disseminated pyrite crystals within contacts and into contacts. At 50.30 m a 4 cm white quartz-calcite vein DTCA 30. At 50.08 m a 1 cm white quartz-calcite vein DTCA 35-40. At 58.10 m a 1.5 cm white quartz-calcite vein DTCA 25. At 58.35 m a 1 cm white quartz-calcite vein with chlorite on margins, DTCA 40. At 62.65 m a 1 cm white quartz-calcite vein with chlorite on margins, DTCA 30. At 64.10 m a 2 cm white quartz-calcite vein DTCA 30. Lower contact is sharp @ 55 DTCA.	massive	carbonate alteration	str	cl	0.2	py	0.5	vqc	2				
Shining Tree	STR21009	39	64.4	25.4	Vvm	Vvm mafic volcanic	M	grey	mg	uniform texture	Porphyry (Felsic to Intermediate): porphyry transition zone. At 64.4 m a 2 cm white quartz-calcite vein DTCA 15 on surface. Bleached section of porphyry over 60 cm, includes a 2 cm white quartz-calcite vein at 64.70 m with a DTCA 15. Both veins contain angular fragments of porphyry, after which crystals of plagioclase are altered to jet black by chlorite (spotty). Then transitions back into porphyry over 1 m. No mineralization, light grey, non-magnetic.	vein/veining	carbonate alteration	str	chlorite alteration	mod				vqc	2			
Shining Tree	STR21009	64.4	66	1.6	Gpp	Gpp porphyry	L	grey	mg	vein/veining	Porphyry (Felsic to Intermediate): gradational transition to porphyritic aphanitic diabase with 5 mm saussuritized plagioclase phenocrysts. From 70-72 m the core is intersected by multiple small barren veinlets <1 cm, coming in at 50 and 70 DTCA. At 76-45 m a 1.5 cm quartz vein @ 20 DTCA with minor chlorite and several small (3 mm) blebs of pyrite. The end of the section contains evenly distributed very fine disseminated pyrite (0.5 %).	massive	carbonate alteration	mod	Saussurite	str		py	0.2	vcb	0.2			
Shining Tree	STR21009	66	92	26	Gpp	Gpp porphyry	D	grey	cg	porphyritic or	Porphyry (Felsic to Intermediate): 2 m section, top 1 m is highly fractured and broken, is light grey, medium grained, mottled texture, with evenly distributed, very fine disseminated pyrite (0.5 %). Where veins are visible on broken pieces the chlorite and epidote is visible on the vein margins. The next lower 1 m is very fine grained (aphanitic) with a sharp lower contact (chilled margin) at 45 DTCA.	sheared	carbonate alteration	str	chlorite alteration	str		py	0.05	vqc	1			
Shining Tree	STR21009	92	94	2	Gpp	Gpp porphyry	M	grey	mg	fragmental or	Porphyry (Felsic to Intermediate): GOUUGL: interval from 178-179.4 m marks the transition into andesite. The lower contact at the andesite. The upper 60 cm is "backed" to a medium and dark brown colour. The interval is comprised of a chaotic inhomogeneous aggregate of tilted, angular fragments cemented by chlorite and graphite. A few secondary 0.5 cm quartz-calcite veins occur within and some pyrite blebs occur with the chlorite. Approximately 0.5 m of this interval was "grounded" away. One irregular 0.5 to 3 cm fragment of possible medium brown (sphalerite?) was observed.	gouge	chlorite alteration	str	carbonate alteration	mod		py	2	sp	1	vqc	1	
Shining Tree	STR21009	178	179.4	1.41	Gpp	Gpp porphyry	M	brown	fg	fragmental or	Mafic Volcanics: aphanitic, dark grey. Epidote with minor calcite veins occur irregular filling fractures and voids. They have a very low DTCA. Texture is massive, some minor hematite alteration as dark red "speckles" and magnetism is weak to strongly magnetic. Magnetite crystals are visible at the strongest alterations. Mineralization includes disseminated pyrite up to 4 mm blebs that are somewhat evenly distributed to each other to within 1 cm. Up to 2 cm blebs of pyrite occur within the narrow graphite intervals at 179.60 and 183. Overall, massive, uniform grains, magnetic, dark grey with little notable veining.	hematite alteration	mod				py	0.3						
Shining Tree	STR21010	179.4	201	21.6	Vvm	Vvm mafic volcanic	D	grey	vfg	massive	Casing to 8.5 m.					py	0.3							
Shining Tree	STR21010	0	8.5	0	Oou	Oou overburden general					Mafic Volcanics: Non-magnetic. Fine grained with massive texture. Reacts strongly with acid. Spotty chlorite alteration. After starting out fairly uniform, the bottom of the section (past 21 m) grades into medium grained texture with larger chlorite spots. Multiple quartz carbonate veins are distributed throughout the section, occasionally with hematite seams at vein margins and rarely with chlorite at the vein margins. The most notable veins are: 16.32 m, 1 cm wide quartz carbonate vein at 70 DTCA filled with epidote. At 24 m, 35 mm wide quartz carbonate vein at 25 DTCA. At 34 m, 30 mm wide quartz carbonate vein at 20 DTCA, which marks the sharp lower contact.	vein/veining	chlorite alteration	mod	carbonate alteration	str						vqc	3	
Shining Tree	STR21010	8.5	34	25.5	Vvm	Vvm mafic volcanic	M	green grey	fg	massive	Mafic Volcanics: very fine grained to dark green granoblastic. Apatite with patchy disseminated pyrite, roughly 1 mm in size as well as concentrated disseminated pyrite darker lenses within the section. Occasional hematite seams at vein margins. At 85.37, a 2.2 cm wide quartz carbonate vein at 35 DTCA with high volume of disseminated pyrite, chlorite stringers, and an unlabeled brown alteration mineral. At 97.66, a 3.5 cm wide quartz carbonate vein at 30 DTCA with disseminated pyrite and chlorite along the vein margins. At 115 m, a 1.5 cm wide carbonate vein at 10 DTCA with minor hematite. At 117 m, a 3 cm barren quartz carbonate vein at 25 DTCA with chlorite along vein margins. At 123.5, a 2cm wide quartz carbonate vein with moderate amount of disseminated pyrite, chlorite and epidote.	vein/veining	chlorite alteration	str			py	0.1	vqc	0.2				
Shining Tree	STR21010	34	126	92	Vvm	Vvm mafic volcanic	M	green grey	vfg	massive	Overburden.					py	0.1	vqc	0.2					
Shining Tree	STR21011	0	3	0	Oou	Oou overburden general					Nipissing Diabase: medium green grey, fine to medium grained, massive, equigranular and moderately to strongly magnetic. The unit is blocky and broken with rubbly sections in the first 30 meters. Weak pervasive chlorite alteration with localized chlorite spotting often associated with an overprinting of the host rock's equigranular texture. First 17 meters include small clusters of chlorite-epidote veinlets <1 cm. Hematite alteration starts at 17 m along fracture surfaces. From 18-27 m grain size increases to medium and hematite alteration shows pink colouration of feldspar with thicker (1-1 cm) chlorite-epidote veins. Disseminated pyrite is only observed at 21.3 m. The majority of the rubbly sections belong to this part. The meter preceding the hematite altered section (21.28 m) includes several 1 cm large quartz-carbonate veins at 60-70 DTCA. 39-49.75 m includes several quartz-carbonate veins (1-3 cm) with 30% chlorite and up to 5 mm large silver minerals (arsenopyrite?). Past 45 m, disseminated pyrite appears in the diabase. The lower contact is marked by a quartz-carbonate vein at 40 DTCA.	vein/veining	chlorite alteration	wk mod			py	0.01	as	0.01	cp	0.01	vqc	0.02

Shining Tree	STR21011	49.75	54	4.25	vqc	Vqc quartz carbonate vein	Dia	Dia Diabase	L	White	fg	vein/veining	vein/veining	carbonate alteration	mod	py	0.01	cp	0.01	vqc	0.5
<p>Veined zone: Interval of significant carbonate to quartz-carbonate veining. Over 20% of the section is made up of quartz-carbonate veins. Half of the veining occurs as orthogonal veinlets (≤1 cm) at 60 and 30 DTCA with minor chalcopryite and minor chlorite along vein margins as well as chlorite veinlets in healed fractures. The second half of veining is composed of three larger veins. At 49.75 m, a 3 cm wide quartz-carbonate vein at 40 DTCA with chlorite stringers minor pyrite up to 5 mm. At 55.30 m, a 6 cm wide quartz-carbonate vein at 30 DTCA with chlorite stringers and minor pyrite. At 51.3 m, a quartz-carbonate filling (no real vein direction visible) includes numerous blebs of chalcopryite. The lower contact is marked by clusters of quartz-carbonate veins with 30% chlorite at 30 DTCA.</p>																					
Shining Tree	STR21011	54	85.5	31.5	Dia	Dia Diabase	M	green grey	cg	massive	massive	massive	massive	chlorite alteration	wk	py	0.01	cp	0.01		
<p>Nipissing Diabase: medium green grey, medium to coarse grained, massive, equigranular and strongly magnetic with euhedral magnetite crystals. Very little disseminated pyrite. One chlorite veinlet with chalcopryite at 82.6 m. Unit is hard and competent with only a couple broken/bloody sections. Weak pervasive chlorite alteration. Grain size increases past 68 m with higher amount of disseminated pyrite. Section is virtually vein free, but for occasional thin chlorite fracture fills. Occasional small apfite dikes can be observed (i.e. 62 m).</p>																					
Shining Tree	STR21011	85.5	111.49	25.99	Dia	Dia Diabase	M	green grey	mg	massive	massive	massive	broken	chlorite alteration	wk						
<p>Nipissing Diabase: medium green grey, medium grained, massive, equigranular and moderately to strongly magnetic. The unit is blocky and broken with short rubbly sections (e.g., 114-117 m). Weak pervasive chlorite alteration. Very minor chlorite-epidote veinlets and no other noteworthy veining. Occasional 4 mm wide apfite dykes (e.g., 87.3 m). Lower contact is marked by an apfite dyke intrusion at 50 DTCA.</p>																					
Shining Tree	STR21011	111.49	111.95	0.47	Gap	Gap apfite	M	pink grey	vfg	massive	massive	massive	dyke	carbonate alteration	v wk	cp	0.01				
<p>Apfite Dyke: medium pink grey, very fine grained, massive dyke. Central 30 cm are very fine grained with 9 cm medium grained margins. The medium grained margins have sharp contacts to the host diabase at 50 DTCA. The dyke is injected with quartz-carbonate veins. At the vein margins, the host dyke is separated into bright pink leucosomes and dark melanosomes with magnetite. The veins include minor chalcopryite.</p>																					
Shining Tree	STR21011	111.95	165	53.05	Dia	Dia Diabase	M	green grey	mg	massive	massive	massive	broken	chlorite alteration	wk						
<p>Nipissing Diabase: medium green grey, medium grained, massive, equigranular and moderately to strongly magnetic. The unit is blocky and broken. Weak pervasive chlorite alteration as well as chlorite as veinlets and occasional epidote along healed fractures. No veining but for mentioned chlorite veinlets besides one barren, 2 cm, quartz-epidote vein at 155.63. Lower contact is marked by pervasive carbonate alteration.</p>																					
Shining Tree	STR21011	165	166	1	Dia	Dia Diabase	L	green grey	mg	massive	massive	massive	vein/veining	carbonate alteration	mod	cp	0.01				0.02
<p>Nipissing Diabase: light to medium green grey, medium grained, massive, equigranular and weakly magnetic. The unit is blocky and broken. Moderate pervasive carbonate alteration. At 165.48, a 4 cm wide veined zone has quartz-carbonate veins at 35 DTCA with trace blebby chalcopryite. The lower contact is marked by a gradational switch to chlorite alteration.</p>																					
Shining Tree	STR21011	166	178.48	12.48	Dia	Dia Diabase	M	green grey	fg	massive	massive	massive	broken	chlorite alteration	wk						0.02
<p>Nipissing Diabase: medium green grey, medium grained, massive, equigranular and moderately to strongly magnetic. The unit is blocky and broken. Weak pervasive chlorite alteration as well as chlorite as veinlets and occasional epidote along healed fractures. At 175.6 m the diabase becomes very fine grained and chlorite alteration is visible as chlorite spotting. Quartz-carbonate veinlets with chlorite and epidote appear and increase slowly in quantity until they form a web-like structure past 178 meters. At 178.48, a 2 cm wide quartz-carbonate vein at 30 DTCA marks the lower contact of the diabase. The vein includes chlorite and epidote at the vein margins as well as occasional blebs of chalcopryite &lt;5 mm.</p>																					
Shining Tree	STR21011	178.48	201	22.52	ssl	Ssl siltstone	D	grey red	vfg	Laminated	Laminated	Laminated	Laminated	chlorite alteration	wk	hematite alteration	mod	mt	0.3	he	0.3
<p>Red beds. Alternating dark grey and red lamina, sphanitic, hard and moderately fractured. Weakly to moderately magnetic. Dark bands are blocky with chlorite knots, red bands are moderately iron altered. Trace stratiform magnetite. No significant veining. Hole was ended in this unit (EOH).</p>																					





Year	Month	Day	Time	Latitude	Longitude	Altitude	Temperature	Humidity	Wind Speed	Wind Direction	Pressure	Cloud Cover	Visibility	Weather																																			
1996	01	01	00:00	39.0	158.0	0.01	5.05	0.02	7.67	37.7	149.1	1.22	1.31	7.64	18.05	0.00	0.6	0.85	1.22	1.2	29	144	1300	0.19	0.46	8.9	71.9	220	0.5	24.5	-0.02	0.19	0.11	38.7	-0.7	0.8	0.6	0.6	-0.05	0.3	0.36	0.13	-0.1	2.97	1.3	1.1	0.2	2.3	



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Project: Shining Tree

This report is for 59 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 27-MAR-2020.

The following have access to data associated with this certificate:

PETER DOYLE SEAN HICKS ISAAC RIDDLE	JON EDWARDS FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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To: BATTERY MINERAL RESOURCES CORP.  
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 Finalized Date: 24-APR-2020  
 Account: BMRPLLW

Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
13791		2.23	0.42	5.90	443	80	0.87	4.41	11.40	0.13	33.0	211	22	1.18	65.3	6.21
13792		2.08	0.78	7.06	9.2	150	1.05	0.07	4.25	0.90	15.20	49.5	45	2.30	99.6	8.69
13793		1.63	0.34	7.44	3.0	120	0.89	0.05	4.58	0.32	14.60	44.8	61	2.03	256	7.65
13794		1.84	0.29	7.37	2.5	150	0.74	0.05	5.42	0.35	14.40	45.1	61	1.68	135.0	7.42
13795		2.17	0.07	7.10	21.5	130	0.96	0.16	7.59	0.07	13.80	49.2	409	1.74	109.5	6.37
13796		2.24	0.06	7.08	8.4	180	0.70	0.05	7.50	0.14	13.25	41.6	460	2.17	78.9	6.18
13797		2.42	0.08	7.24	1.6	210	0.43	0.05	6.58	0.16	13.20	45.3	488	1.64	91.7	6.66
13798		2.46	0.08	7.57	1.7	220	0.59	0.04	6.87	0.10	14.10	47.0	455	1.72	101.5	6.82
13799		1.00	0.06	7.47	1.3	170	0.78	0.05	6.54	0.05	11.75	39.2	338	1.53	69.8	6.45
13800		0.98	0.05	7.72	1.1	190	0.96	0.05	7.15	0.06	14.05	39.1	343	1.68	77.6	6.19
13801		0.07	>100	4.41	702	260	0.77	62.4	0.66	27.6	32.9	10.6	33	2.71	5200	2.26
13802		2.18	0.22	7.23	1.7	80	0.74	0.17	9.19	0.02	13.25	16.8	96	0.47	61.1	4.01
13803		2.05	0.13	8.00	8.1	230	0.59	0.07	5.98	0.07	10.15	46.3	79	1.18	108.0	6.69
13804		2.46	0.08	7.98	3.3	220	0.33	0.05	6.62	0.11	10.15	48.8	75	1.13	106.0	6.96
13805		2.18	0.09	8.02	3.9	180	0.41	0.04	6.49	0.15	11.15	48.7	80	1.35	108.5	7.05
13806		1.61	0.09	7.91	3.2	160	0.36	0.04	6.55	0.21	10.90	46.1	80	1.14	100.5	6.91
13807		1.59	0.09	7.28	8.8	130	0.48	0.05	6.26	0.34	9.14	40.5	79	0.99	91.9	6.49
13808		2.18	0.94	6.55	154.5	40	0.88	5.35	9.16	0.32	16.95	109.5	61	0.83	592	5.18
13809		2.23	0.13	7.18	2.4	90	0.74	0.09	6.48	0.08	10.75	49.5	62	0.68	94.6	7.18
13810		2.29	0.54	6.92	9.0	190	0.44	0.11	5.74	0.31	12.45	60.1	43	1.82	172.0	7.74
13811		1.98	0.25	6.61	63.3	130	0.80	0.15	6.06	0.93	11.55	67.3	58	1.68	209	7.54
13812		2.31	0.11	7.04	41.5	110	0.68	0.35	6.70	0.07	11.65	46.6	62	1.61	104.5	7.27
13813		2.31	0.12	7.31	5.2	130	0.41	0.10	6.61	0.09	13.10	52.0	72	0.88	127.0	7.99
13814		1.91	0.08	7.61	8.4	800	2.09	0.07	3.56	0.05	44.5	35.2	101	2.64	78.5	6.22
13815		1.63	0.02	9.21	3.9	690	2.94	0.03	0.40	<0.02	62.7	26.0	126	4.24	16.5	5.76
13816		2.17	0.01	9.18	1.6	570	1.90	0.03	1.20	<0.02	62.4	18.0	138	2.53	3.4	5.06
13817		2.31	<0.01	8.79	0.7	540	1.85	0.03	1.51	<0.02	57.4	14.2	139	1.64	20.0	4.55
13818		2.19	<0.01	9.36	1.7	640	2.47	0.03	0.59	<0.02	55.6	15.2	163	2.20	10.9	5.22
13819		0.93	0.03	8.50	1.1	240	1.68	0.05	1.07	<0.02	45.2	9.8	130	0.70	324	3.58
13820		1.05	0.03	8.34	1.3	240	1.87	0.12	1.33	<0.02	44.7	10.3	127	0.67	496	3.53
13821		0.07	>100	4.05	1920	520	0.60	143.5	0.33	51.1	22.5	13.3	33	1.33	>10000	2.88
13822		2.12	0.04	5.06	1.3	20	0.42	0.02	0.70	<0.02	4.31	3.4	29	0.09	10.3	0.77
13823		2.14	0.03	6.28	0.5	40	0.45	0.04	0.83	<0.02	7.24	3.5	38	0.14	50.1	1.20
13824		2.15	0.01	5.26	0.3	20	0.44	0.04	0.63	<0.02	3.62	6.6	21	0.08	109.5	0.63
13825		0.51	<0.01	0.06	<0.2	20	0.08	0.03	35.1	0.02	0.81	0.5	2	<0.05	1.0	0.08
13826		2.25	<0.01	8.70	0.8	310	2.55	0.04	1.08	<0.02	59.4	16.4	119	1.74	29.6	4.28
13827		2.20	0.04	7.35	1.8	210	2.16	0.07	4.44	<0.02	58.6	15.4	89	1.37	795	4.08
13828		2.17	0.03	7.34	1.6	330	2.23	0.16	3.04	<0.02	43.9	20.7	104	1.39	96.9	4.40
13829		2.14	0.02	8.89	1.6	400	2.86	0.18	0.82	<0.02	47.3	23.0	125	1.92	8.7	4.94
13830		2.12	0.06	8.40	2.1	380	2.74	0.20	0.62	<0.02	48.9	23.4	120	1.77	11.4	4.87



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 Finalized Date: 24-APR-2020  
 Account: BMRPLLW

Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
13791		17.10	0.07	2.1	0.197	0.72	12.6	42.6	2.12	1900	24.7	2.35	4.0	85.0	330	185.5
13792		17.95	0.06	1.8	0.062	1.21	6.3	73.5	4.34	1410	0.63	2.41	3.1	97.0	330	808
13793		18.00	0.07	1.8	0.057	0.97	6.3	54.2	4.34	1330	0.49	2.97	3.0	103.5	320	218
13794		16.90	0.07	1.7	0.052	1.17	6.3	47.0	4.07	1340	0.44	2.77	2.8	103.5	320	111.0
13795		15.45	0.06	1.4	0.075	1.69	6.1	45.1	3.87	1320	0.44	1.71	2.2	136.0	250	18.3
13796		15.75	0.07	1.5	0.064	1.43	5.7	58.4	4.10	1440	0.35	1.63	2.2	137.0	240	40.0
13797		15.90	0.09	1.5	0.051	2.04	5.8	32.5	4.73	1260	0.33	1.62	2.3	142.5	250	17.6
13798		16.75	0.07	1.5	0.051	2.20	6.2	33.0	4.60	1400	0.42	1.73	2.4	138.5	280	8.0
13799		18.60	0.06	1.4	0.063	1.60	5.3	45.1	3.59	1380	0.27	2.37	2.3	134.0	260	7.3
13800		17.50	0.07	1.4	0.072	1.85	6.4	43.2	3.65	1440	0.31	2.10	2.3	132.5	270	7.4
13801		23.1	0.12	2.8	5.83	0.69	13.7	21.2	0.19	238	4.89	0.45	7.6	63.5	580	1060
13802		17.70	0.07	1.3	0.163	0.79	5.6	34.6	1.29	1280	0.57	3.45	1.9	83.4	220	6.4
13803		17.40	0.05	1.4	0.048	2.40	4.3	34.3	3.68	1280	0.39	1.68	2.2	116.0	250	5.5
13804		17.25	0.06	1.3	0.045	2.16	4.2	29.1	4.02	1220	0.35	1.67	2.0	124.5	260	7.3
13805		18.05	0.07	1.5	0.048	1.96	4.7	44.9	4.21	1280	0.29	1.95	2.3	126.0	260	10.1
13806		17.35	0.06	1.4	0.052	1.96	4.5	41.4	4.09	1340	0.27	1.97	2.3	115.0	260	14.7
13807		15.40	0.08	1.3	0.051	1.88	4.2	34.0	3.68	1330	0.67	1.87	2.1	108.0	250	14.6
13808		17.35	0.09	1.3	0.115	0.62	7.0	54.5	1.82	1240	23.0	2.75	1.9	97.3	200	86.3
13809		15.05	0.08	1.3	0.083	1.01	4.9	39.5	4.52	1450	0.37	1.87	2.0	160.0	240	135.0
13810		15.70	0.07	1.6	0.061	1.57	5.7	41.5	5.38	1360	0.37	1.37	2.3	228	260	41.3
13811		14.05	0.10	1.4	0.071	1.12	5.5	62.5	4.68	1330	0.35	1.33	2.2	198.0	260	92.5
13812		17.05	0.09	1.4	0.088	0.99	5.4	48.6	3.70	1390	1.58	2.05	2.3	154.0	270	17.2
13813		16.85	0.11	1.6	0.073	1.29	5.8	33.0	4.53	1360	0.38	1.75	2.6	132.0	280	6.9
13814		23.0	0.12	2.9	0.076	2.82	20.7	51.0	2.37	653	0.52	1.90	6.9	93.4	690	12.8
13815		26.7	0.19	3.9	0.051	4.79	28.2	73.9	1.48	185	0.54	1.25	9.1	78.6	930	7.4
13816		27.5	0.14	3.7	0.052	3.86	28.9	34.1	1.43	219	2.18	1.51	4.8	78.1	870	3.8
13817		26.2	0.14	3.7	0.042	3.53	25.8	27.0	1.39	269	1.49	2.19	5.1	74.7	840	3.8
13818		26.4	0.14	4.5	0.039	4.20	24.8	29.1	1.54	179	1.68	2.29	6.8	75.4	820	3.9
13819		24.7	0.11	4.5	0.032	1.67	19.8	13.5	1.00	198	0.53	4.84	6.4	58.2	740	2.0
13820		25.2	0.11	4.5	0.042	1.64	20.2	13.4	0.98	212	0.56	4.89	6.5	58.3	770	2.1
13821		20.3	0.21	2.4	10.25	0.63	9.2	16.4	0.08	138	5.43	0.42	6.5	105.0	530	1950
13822		11.10	0.09	1.5	0.008	0.11	1.9	3.9	0.21	119	1.67	4.14	1.7	9.4	170	3.7
13823		13.30	0.05	1.7	0.012	0.22	3.3	4.6	0.26	143	1.25	4.80	2.2	8.0	220	1.0
13824		10.95	0.07	1.2	0.011	0.11	1.6	3.8	0.20	105	3.12	4.16	0.9	6.5	140	1.0
13825		0.19	0.07	<0.1	<0.005	<0.01	1.0	0.9	1.37	95	0.13	0.03	0.1	0.5	70	0.9
13826		25.6	0.15	3.1	0.077	1.70	29.7	30.6	1.60	341	1.38	3.43	9.1	63.8	730	3.9
13827		21.2	0.13	2.5	0.160	1.39	30.8	24.5	2.56	1040	1.29	3.17	7.9	51.4	610	3.6
13828		23.7	0.11	2.8	0.076	1.37	19.7	36.3	1.80	687	1.75	3.13	8.7	66.5	680	6.1
13829		26.5	0.11	2.9	0.063	1.72	22.2	41.0	2.02	287	1.89	3.20	10.1	75.4	760	9.2
13830		25.6	0.10	3.0	0.059	1.50	22.8	41.2	2.05	270	1.92	3.07	9.6	72.8	720	8.0



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Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
13791		30.3	<0.002	0.06	0.41	25.0	1	0.6	85.7	0.26	<0.05	2.31	0.457	0.20	1.1	169
13792		32.4	0.002	0.08	0.49	32.7	<1	0.8	159.5	0.20	<0.05	1.61	0.491	0.32	0.6	228
13793		31.2	0.002	0.09	0.23	32.6	1	0.7	161.5	0.20	0.06	1.71	0.473	0.24	0.6	224
13794		38.0	<0.002	0.07	0.39	30.8	1	0.8	186.0	0.19	<0.05	1.67	0.456	0.25	0.5	215
13795		75.8	<0.002	0.06	0.32	33.1	<1	0.6	136.0	0.15	<0.05	1.46	0.368	0.34	0.4	196
13796		67.6	<0.002	0.04	0.48	34.1	<1	0.6	142.0	0.15	<0.05	1.46	0.379	0.31	0.5	205
13797		91.8	<0.002	0.06	0.33	35.9	<1	0.6	171.0	0.15	<0.05	1.49	0.397	0.45	0.4	207
13798		104.5	<0.002	0.06	0.38	38.1	<1	0.6	191.0	0.16	<0.05	1.55	0.402	0.45	0.5	218
13799		50.7	<0.002	0.05	0.44	32.4	<1	0.6	150.5	0.15	<0.05	1.18	0.405	0.29	0.6	233
13800		86.7	<0.002	0.05	0.45	36.3	<1	0.6	171.0	0.15	<0.05	1.37	0.405	0.35	0.5	222
13801		28.2	<0.002	2.17	91.8	4.3	36	6.1	467	0.55	45.4	6.15	0.223	1.83	2.4	34
13802		36.1	<0.002	0.03	0.31	24.5	<1	0.6	77.6	0.13	0.08	1.18	0.356	0.12	0.7	200
13803		66.6	<0.002	0.07	0.29	28.1	1	0.5	221	0.15	<0.05	1.05	0.394	0.46	0.4	196
13804		56.9	0.002	0.07	0.20	28.5	1	0.5	224	0.14	<0.05	1.05	0.383	0.41	0.4	197
13805		55.4	0.002	0.07	0.29	30.3	1	0.6	214	0.16	<0.05	1.17	0.393	0.33	0.4	200
13806		50.0	0.002	0.07	0.23	28.9	<1	0.6	208	0.15	<0.05	1.10	0.409	0.35	0.4	202
13807		47.3	<0.002	0.07	0.45	25.2	1	0.5	173.5	0.15	<0.05	0.90	0.371	0.37	0.4	192
13808		26.6	0.006	0.12	0.32	20.7	1	0.5	69.3	0.13	<0.05	1.43	0.320	0.23	0.7	184
13809		36.8	<0.002	0.06	0.18	28.0	<1	0.6	227	0.15	<0.05	1.15	0.368	0.17	0.4	193
13810		67.0	<0.002	0.08	0.52	26.6	1	0.6	154.0	0.15	<0.05	1.17	0.389	0.36	0.4	190
13811		51.4	0.003	0.07	0.38	30.8	1	0.6	123.0	0.15	<0.05	1.27	0.406	0.22	0.4	201
13812		41.2	0.004	0.05	0.42	30.9	1	0.6	111.5	0.15	<0.05	1.27	0.414	0.22	0.5	219
13813		62.2	<0.002	0.09	0.35	36.8	1	0.8	175.5	0.17	<0.05	1.44	0.457	0.31	0.5	231
13814		53.9	<0.002	0.04	0.52	23.7	1	1.3	143.5	0.53	<0.05	6.64	0.415	0.43	2.7	174
13815		155.5	<0.002	<0.01	0.47	18.4	1	1.7	87.3	0.75	<0.05	11.80	0.386	0.63	4.5	130
13816		136.5	0.002	<0.01	0.30	17.5	1	1.5	31.4	0.44	<0.05	12.60	0.217	0.46	4.2	137
13817		92.7	<0.002	0.01	0.27	16.6	<1	1.6	36.2	0.47	<0.05	11.00	0.210	0.37	3.8	136
13818		107.5	0.002	<0.01	0.38	18.9	1	2.1	48.0	0.64	<0.05	11.25	0.288	0.39	4.2	144
13819		50.2	0.003	0.04	0.31	15.5	1	1.9	46.7	0.55	<0.05	10.25	0.323	0.18	3.0	130
13820		46.6	0.002	0.07	0.25	15.8	1	1.9	47.8	0.60	<0.05	9.91	0.317	0.17	3.2	130
13821		20.1	0.002	3.75	217	3.6	60	11.3	476	0.45	54.0	4.42	0.202	3.77	2.0	33
13822		4.4	<0.002	0.01	0.49	3.1	<1	0.5	24.1	0.16	<0.05	3.64	0.070	0.03	0.9	18
13823		8.3	<0.002	0.01	0.10	4.5	1	1.9	31.2	0.20	<0.05	4.05	0.101	0.04	1.6	35
13824		3.8	0.002	0.03	0.06	2.2	1	<0.2	25.2	0.09	<0.05	3.10	0.044	0.02	2.0	13
13825		0.1	<0.002	<0.01	0.06	0.2	1	<0.2	82.9	<0.05	<0.05	0.07	0.005	<0.02	0.1	1
13826		97.3	<0.002	0.01	0.30	14.4	<1	1.9	163.5	0.73	<0.05	11.85	0.361	0.32	4.1	109
13827		68.0	0.003	0.10	0.30	12.1	1	1.6	143.5	0.69	<0.05	9.27	0.303	0.28	3.4	98
13828		38.6	<0.002	0.05	0.36	12.2	1	1.8	156.0	0.68	<0.05	7.94	0.333	0.29	3.6	103
13829		67.2	0.002	0.05	0.37	16.0	1	2.1	168.5	0.77	0.05	10.70	0.384	0.36	4.6	117
13830		55.3	0.003	0.05	0.39	15.2	1	2.1	167.5	0.76	0.05	10.10	0.354	0.29	4.3	107



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**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Cu-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Cu %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.01	0.01
13791		0.4	35.6	88	80.2			78.8	91.7
13792		0.3	15.4	388	67.1				97.3
13793		0.3	14.0	215	63.1				
13794		0.3	13.0	192	61.5				
13795		0.2	12.5	72	48.8				
13796		0.2	14.1	93	52.1				
13797		0.3	12.6	92	53.0				
13798		0.3	13.3	75	55.9				
13799		0.4	12.1	62	51.2				
13800		0.4	13.4	64	51.7				
13801		13.8	6.6	4210	89.6	117			
13802		0.4	20.4	31	44.6				
13803		0.2	11.3	74	50.1				
13804		0.2	11.2	88	47.5				
13805		0.2	12.3	114	52.3				
13806		0.2	11.7	122	51.1				
13807		0.2	9.8	134	43.7				
13808		0.4	19.0	109	43.7				
13809		0.3	12.0	130	47.8				
13810		0.3	12.0	174	47.8				
13811		0.3	12.7	296	51.1				
13812		0.4	14.4	73	52.8				
13813		0.3	15.7	96	59.9				
13814		0.7	15.8	50	104.5				
13815		1.1	16.4	19	136.0				
13816		0.9	17.5	7	128.0				
13817		1.0	17.6	7	126.0				
13818		1.8	17.6	9	155.0				
13819		1.9	15.1	8	158.5				
13820		1.9	16.1	9	158.0				
13821		13.9	5.0	9020	78.6	301	1.035		
13822		0.5	2.9	5	54.8				
13823		1.8	3.6	4	62.2				
13824		0.1	2.3	2	41.1				
13825		<0.1	2.0	5	1.3				
13826		1.0	14.1	23	105.0				
13827		0.7	19.5	20	84.5				
13828		1.0	14.5	24	97.2				
13829		1.3	13.2	28	99.2				89.2
13830		1.2	12.5	28	106.5			72.7	92.9



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**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
13831		2.10	0.07	7.67	1.7	350	2.32	0.20	1.42	<0.02	54.0	22.4	104	1.53	382	4.51
13832		2.11	0.06	7.92	1.5	350	2.06	0.20	1.15	0.03	63.6	20.3	113	1.45	395	4.63
13833		1.96	0.07	8.18	1.9	440	2.27	0.20	1.77	<0.02	70.7	21.7	112	1.79	321	4.65
13834		2.14	0.06	7.84	2.1	460	2.26	0.27	3.33	<0.02	38.9	24.0	110	1.83	524	5.00
13835		2.09	0.01	7.55	1.5	410	1.20	0.11	0.65	<0.02	73.6	16.1	77	1.20	26.2	3.98
13836		2.61	0.01	5.24	0.5	230	0.54	0.04	1.20	<0.02	48.0	3.8	35	0.69	37.5	2.05
13837		2.00	0.01	4.91	0.7	210	0.48	0.06	0.50	<0.02	50.4	3.7	37	0.58	177.5	1.15
13838		1.94	0.04	4.65	0.8	200	0.40	0.12	0.21	<0.02	29.7	6.2	51	0.52	458	1.33
13839		0.91	0.01	5.32	0.8	220	0.45	0.10	1.36	<0.02	34.1	5.4	32	0.65	188.5	2.13
13840		0.91	0.01	5.54	0.2	210	0.53	0.08	1.07	<0.02	35.1	4.3	30	0.63	255	2.34
13841		0.07	>100	4.10	1945	530	0.72	155.0	0.34	58.1	24.7	15.3	34	1.56	>10000	2.91
13842		2.20	0.01	5.54	1.8	250	0.79	0.06	0.42	<0.02	32.2	6.3	46	0.86	51.3	2.02
13843		2.01	0.02	5.55	0.6	260	0.57	0.06	0.38	<0.02	17.35	4.3	38	0.76	245	1.32
13844		2.15	0.01	5.56	0.9	250	0.53	0.06	0.50	<0.02	40.3	4.3	36	0.74	111.0	1.27
13845		2.22	0.01	6.72	1.6	350	0.84	0.11	0.26	<0.02	67.5	7.8	60	1.06	38.0	1.84
13846		2.13	0.01	5.39	1.0	260	0.54	0.05	0.20	<0.02	39.7	3.7	32	0.81	36.4	1.18
13847		2.16	0.03	5.26	2.4	250	0.56	0.09	0.29	<0.02	27.7	5.2	43	0.73	259	1.29
13848		2.38	0.02	4.96	3.1	240	0.52	0.05	1.25	<0.02	33.2	4.4	26	0.75	39.3	1.06
13849		2.13	0.01	7.29	1.2	370	2.18	0.05	0.61	<0.02	57.0	12.4	53	1.84	37.3	3.10



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**CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
13831		24.4	0.11	3.0	0.063	1.37	24.7	37.5	1.90	381	1.71	3.06	8.7	68.5	690	7.5
13832		24.8	0.14	3.0	0.057	1.32	28.8	36.4	1.99	377	1.72	3.31	9.0	71.8	710	11.6
13833		25.4	0.17	3.2	0.062	1.68	34.0	38.3	2.01	485	1.75	3.13	9.5	72.2	720	6.8
13834		24.9	0.11	2.7	0.116	1.80	16.3	38.2	2.18	826	1.88	2.83	8.9	72.3	670	6.6
13835		19.70	0.14	3.4	0.039	1.93	36.8	25.7	1.67	351	1.06	3.13	5.6	45.9	530	7.1
13836		10.10	0.09	1.9	0.022	1.32	22.9	7.6	0.40	226	0.77	3.18	2.7	13.8	270	5.6
13837		8.32	0.10	1.9	0.012	1.20	25.0	9.7	0.26	109	1.36	3.10	2.3	9.2	260	5.1
13838		7.77	0.07	2.3	0.013	1.15	13.0	8.8	0.22	84	2.68	2.98	2.6	8.6	270	5.0
13839		10.15	0.10	1.5	0.028	1.55	15.2	5.0	0.31	218	1.13	3.34	1.9	9.9	220	5.5
13840		9.67	0.10	1.5	0.025	1.51	16.1	4.5	0.31	184	1.17	3.40	1.8	9.5	230	5.4
13841		23.9	0.22	2.7	12.15	0.62	9.9	19.3	0.08	138	6.51	0.43	7.5	115.5	540	1980
13842		12.95	0.13	2.5	0.016	1.46	15.6	10.8	0.56	131	1.89	3.19	3.0	20.4	320	6.7
13843		9.44	0.13	2.0	0.013	1.58	7.8	5.6	0.30	103	1.06	3.47	2.7	10.3	300	6.2
13844		9.31	0.16	2.2	0.009	1.60	19.8	4.3	0.25	105	0.90	3.53	2.4	9.0	320	5.8
13845		14.00	0.16	3.7	0.010	1.92	32.5	10.1	0.61	149	1.47	3.77	4.4	21.0	510	7.5
13846		9.63	0.16	1.5	0.007	1.69	19.8	5.5	0.26	85	1.10	3.33	2.3	8.6	240	5.9
13847		9.24	0.13	1.9	0.012	1.60	13.7	6.7	0.30	103	1.26	3.22	3.2	9.9	270	5.9
13848		7.58	0.16	1.3	0.013	1.71	16.2	6.8	0.19	178	0.69	2.92	1.7	5.7	220	5.6
13849		19.20	0.16	2.2	0.023	1.74	27.2	24.2	1.26	354	0.83	3.56	4.5	42.5	420	9.6





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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
13831		41.0	<0.002	0.09	0.34	13.5	<1	2.2	157.0	0.64	<0.05	8.52	0.324	0.27	3.5	108
13832		36.7	0.003	0.09	0.34	14.5	1	2.3	153.0	0.72	0.06	8.92	0.350	0.27	4.5	118
13833		55.8	0.002	0.09	0.35	15.5	1	2.8	168.0	0.75	<0.05	10.50	0.351	0.31	4.4	126
13834		56.6	0.002	0.10	0.35	14.1	2	2.2	175.5	0.74	<0.05	9.28	0.342	0.32	4.3	120
13835		63.4	<0.002	0.06	0.16	9.1	1	1.2	146.0	0.49	<0.05	8.87	0.227	0.35	3.9	74
13836		47.1	<0.002	0.02	0.10	4.2	1	0.6	80.2	0.26	<0.05	4.18	0.102	0.28	1.1	27
13837		42.0	<0.002	0.07	0.13	2.5	<1	0.4	67.7	0.21	<0.05	4.24	0.090	0.26	1.4	23
13838		39.0	<0.002	0.20	0.13	2.3	1	0.5	61.5	0.25	<0.05	4.74	0.095	0.24	2.3	22
13839		49.2	<0.002	0.06	0.09	4.3	<1	0.6	70.4	0.16	<0.05	3.30	0.078	0.30	1.6	29
13840		49.9	<0.002	0.05	0.11	3.8	<1	0.6	65.2	0.17	<0.05	3.38	0.077	0.32	1.8	31
13841		23.3	<0.002	3.82	225	4.2	66	13.0	472	0.55	63.6	4.96	0.203	4.43	2.4	32
13842		57.2	<0.002	0.03	0.18	4.1	<1	0.6	93.6	0.33	<0.05	6.04	0.108	0.32	3.3	32
13843		56.3	<0.002	0.09	0.09	2.4	<1	0.4	76.3	0.28	<0.05	4.96	0.105	0.33	1.8	24
13844		56.1	<0.002	0.07	0.09	2.9	<1	0.4	73.1	0.23	<0.05	4.96	0.098	0.35	1.7	23
13845		70.5	<0.002	0.09	0.12	5.1	<1	0.7	117.0	0.42	<0.05	8.76	0.169	0.38	3.7	45
13846		59.1	<0.002	0.06	0.07	2.4	<1	0.4	76.6	0.23	<0.05	3.88	0.085	0.35	1.6	22
13847		55.0	<0.002	0.17	0.10	3.0	<1	0.5	72.8	0.35	<0.05	5.36	0.107	0.33	2.5	24
13848		54.8	<0.002	0.07	0.10	3.3	<1	0.4	74.4	0.17	<0.05	3.55	0.068	0.34	1.5	16
13849		66.5	<0.002	0.05	0.14	8.5	1	0.9	106.0	0.38	<0.05	4.79	0.213	0.35	2.0	65



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Ag-OG62 Ag ppm	Cu-OG62 Cu %	CRU-QC Pass2mm %	PUL-QC Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.01	0.01
13831		1.3	12.9	26	106.0				
13832		1.3	12.6	25	103.0				
13833		1.3	15.5	26	109.0				94.6
13834		1.3	16.3	28	87.8				93.5
13835		0.6	9.3	26	117.5				
13836		0.7	5.0	6	69.8				
13837		0.5	4.0	4	69.4				
13838		0.4	3.4	4	81.9				
13839		0.6	6.7	5	54.1				
13840		0.7	6.0	5	50.9				
13841		15.5	5.8	9180	88.8	297	1.025		
13842		0.5	5.2	8	89.0				
13843		0.4	4.1	5	78.4				
13844		0.4	4.3	4	84.5				
13845		0.4	6.0	10	145.0				
13846		0.4	3.5	4	60.0				
13847		0.4	4.3	5	74.2				
13848		0.3	5.2	4	50.4				
13849		0.6	11.3	29	83.5				

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



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	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 17%;">ME-OG62</td> </tr> </table>	Ag-OG62	Cu-OG62	ME-MS61	ME-OG62				
Ag-OG62	Cu-OG62	ME-MS61	ME-OG62						



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**QC CERTIFICATE SD20071600**

Project: Shining Tree

This report is for 59 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 27-MAR-2020.

The following have access to data associated with this certificate:

PETER DOYLE SEAN HICKS ISAAC RIDDLE	JON EDWARDS FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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To: BATTERY MINERAL RESOURCES CORP.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
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 Account: BMRPLLW

Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		67.0	4.67	597	200	1.81	5.32	1.94	19.85	44.8	764	57	6.53	8410	4.91	11.85
EMOG-17		66.2	4.54	581	330	1.71	5.67	1.87	19.80	46.9	740	55	7.20	8190	4.76	11.95
EMOG-17		63.8	4.40	550	500	1.80	5.83	1.89	19.80	47.7	716	55	7.08	7770	4.65	11.95
Target Range - Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.57	7.54	35.2	1110	3.22	0.63	2.74	2.36	69.4	19.3	93	11.40	651	4.02	19.75
Target Range - Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.62	7.69	37.7	2880	2.86	5.56	0.63	0.37	96.7	15.0	18	6.63	1595	4.20	26.4
Target Range - Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.13	7.98	5.5	560	2.78	0.65	0.52	0.07	99.9	16.6	84	8.82	121.0	4.21	22.9
OREAS 920		0.11	7.80	6.0	550	2.80	0.96	0.50	0.07	87.8	16.3	84	8.83	113.0	4.07	19.90
OREAS 920		0.09	7.22	5.5	520	2.59	0.63	0.48	0.04	86.9	15.2	79	8.14	107.5	3.81	19.60
Target Range - Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																

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



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 Account: BMRPLLW

Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.09	1.7	0.870	1.64	22.3	25.2	0.95	739	1075	1.12	12.7	7730	820	7370	105.0
EMOG-17		0.13	1.8	0.917	1.61	23.3	24.8	0.92	720	1045	1.08	14.8	7470	800	7210	111.0
EMOG-17		0.14	1.8	0.913	1.62	24.3	24.9	0.92	689	1015	1.06	14.9	7140	770	6910	109.0
Target Range - Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.15	3.2	0.186	3.21	32.8	32.9	1.34	563	14.90	2.03	20.4	727	1080	1080	176.0
Target Range - Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.18	7.2	0.663	3.01	49.6	20.3	0.27	382	3.23	2.53	18.2	9.2	290	30.6	142.5
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.18	4.8	0.088	2.89	47.1	30.4	1.35	599	0.42	0.65	17.1	44.5	770	23.0	184.5
OREAS 920		0.16	4.3	0.084	2.88	41.7	27.4	1.33	589	0.37	0.65	18.9	41.3	740	23.0	169.5
OREAS 920		0.15	4.3	0.084	2.73	41.7	26.1	1.28	542	0.36	0.60	17.1	37.9	700	22.1	162.0
Target Range - Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																





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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
<b>STANDARDS</b>																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.304	3.31	811	7.6	6	2.5	208	0.75	1.42	9.50	0.326	2.24	2.7	74	3.6
EMOG-17		0.322	3.22	789	7.3	6	2.5	201	0.91	1.31	10.25	0.317	2.14	3.1	71	3.9
EMOG-17		0.290	3.19	769	7.5	6	2.4	195.5	0.87	1.28	10.75	0.308	1.95	3.2	69	3.7
Target Range - Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.011	0.31	4.51	11.7	1	4.2	317	1.41	<0.05	16.90	0.507	1.13	5.0	112	4.9
Target Range - Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.002	0.07	2.03	5.2	3	4.3	163.5	1.22	0.10	14.05	0.126	0.75	4.5	10	2.8
Target Range - Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.58	14.6	1	5.3	86.5	1.25	<0.05	18.05	0.480	1.00	3.6	98	3.4
OREAS 920		<0.002	0.03	1.48	14.0	<1	4.5	86.4	1.24	<0.05	20.8	0.477	0.93	3.9	97	2.9
OREAS 920		<0.002	0.03	1.46	13.3	1	4.5	76.1	1.20	<0.05	18.05	0.453	0.80	3.4	90	2.7
Target Range - Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Cu-OG62 Cu % 0.001
<b>STANDARDS</b>						
CCU-1e					204	
Target Range - Lower Bound					197	
Upper Bound					213	
EMOG-17					70	0.851
Target Range - Lower Bound					64	0.803
Upper Bound					71	0.863
EMOG-17		14.5	7470	61.4		
EMOG-17		16.4	7270	63.7		
EMOG-17		15.7	7150	63.6		
Target Range - Lower Bound		14.3	6800	55.6		
Upper Bound		17.7	8320	76.4		
GBM903-13					25	
Target Range - Lower Bound					22	
Upper Bound					26	
MP-1b					50	
Target Range - Lower Bound					46	
Upper Bound					52	
MP-1b					52	3.24
Target Range - Lower Bound					46	2.96
Upper Bound					52	3.18
MRGeo08		26.0	817	108.0		
Target Range - Lower Bound		23.8	722	92.2		
Upper Bound		29.3	886	126.0		
OREAS 621					68	
Target Range - Lower Bound					66	
Upper Bound					72	
OREAS 905		16.3	144	265		
Target Range - Lower Bound		14.0	122	214		
Upper Bound		17.4	154	290		
OREAS 920		35.8	121	162.5		
OREAS 920		35.4	118	167.0		
OREAS 920		31.5	111	152.0		
Target Range - Lower Bound		29.8	102	128.0		
Upper Bound		36.6	130	174.0		
OREAS 932					23	5.94
Target Range - Lower Bound					20	5.91
Upper Bound					24	6.35
OREAS-133a					98	0.031



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**QC CERTIFICATE OF ANALYSIS SD20071600**

Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
Sample Description	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>STANDARDS</b>															
Target Range - Lower Bound															
Upper Bound															
OREAS-134b															
Target Range - Lower Bound															
Upper Bound															
<b>BLANKS</b>															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK	<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	0.2	<0.01	<0.05
BLANK	<0.01	<0.01	0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK	<0.01	<0.01	0.3	<10	<0.05	0.01	<0.01	<0.02	0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range - Lower Bound	<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound	0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
<b>DUPLICATES</b>															
ORIGINAL	0.07	0.80	1.5	10	<0.05	0.02	<0.01	0.02	26.4	0.6	95	<0.05	1.5	0.45	1.87
DUP	0.04	0.83	1.7	10	0.05	0.02	<0.01	<0.02	26.9	0.6	97	<0.05	1.4	0.46	1.91
Target Range - Lower Bound	0.04	0.76	1.3	<10	<0.05	<0.01	<0.01	<0.02	25.3	0.5	90	<0.05	1.2	0.42	1.75
Upper Bound	0.07	0.87	1.9	20	0.10	0.03	0.02	0.04	28.0	0.7	102	0.10	1.7	0.49	2.03
ORIGINAL	0.03	7.16	1.6	90	0.99	0.16	0.03	0.03	25.8	55.6	191	2.48	3.9	9.22	18.15
DUP	0.03	7.32	1.4	90	0.95	0.15	0.03	0.02	25.1	55.3	193	2.47	3.9	9.15	17.70
Target Range - Lower Bound	0.02	6.87	1.2	70	0.87	0.14	0.02	<0.02	24.2	52.6	181	2.30	3.6	8.72	17.00
Upper Bound	0.04	7.61	1.8	110	1.07	0.17	0.04	0.04	26.7	58.3	203	2.65	4.2	9.65	18.85



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**QC CERTIFICATE OF ANALYSIS SD20071600**

Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>															
Target Range - Lower Bound															
Upper Bound															
OREAS-134b															
Target Range - Lower Bound															
Upper Bound															
<b>BLANKS</b>															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	0.7	<0.1
BLANK	0.07	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range - Lower Bound	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
<b>DUPLICATES</b>															
ORIGINAL	0.05	1.1	<0.005	0.07	14.2	3.4	<0.01	42	0.70	0.01	0.3	3.4	40	2.1	1.1
DUP	<0.05	1.2	<0.005	0.07	14.5	3.5	<0.01	43	0.66	0.01	0.3	3.8	40	2.2	1.1
Target Range - Lower Bound	<0.05	1.0	<0.005	0.06	13.1	3.1	<0.01	35	0.60	<0.01	0.2	3.2	30	1.5	0.9
Upper Bound	0.10	1.3	0.010	0.08	15.6	3.8	0.02	50	0.76	0.02	0.4	4.0	50	2.8	1.3
ORIGINAL	0.09	2.4	0.069	1.17	10.6	77.3	4.94	548	0.16	0.02	5.6	130.5	80	13.0	24.0
DUP	0.09	2.4	0.067	1.17	10.2	73.4	5.03	548	0.17	0.02	5.5	129.0	80	12.6	24.4
Target Range - Lower Bound	<0.05	2.2	0.060	1.10	9.4	71.4	4.73	516	0.11	<0.01	5.2	123.0	70	11.7	22.9
Upper Bound	0.10	2.6	0.076	1.24	11.4	79.3	5.24	580	0.22	0.03	5.9	136.5	90	13.9	25.5



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 Account: BMRPLLBW

Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Method Analyte Units LOD	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm
Sample Description	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
<b>STANDARDS</b>															
Target Range - Lower Bound															
Upper Bound															
OREAS-134b															
Target Range - Lower Bound															
Upper Bound															
<b>BLANKS</b>															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK	<0.002	<0.01	0.06	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range - Lower Bound	<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
<b>DUPLICATES</b>															
ORIGINAL	<0.002	<0.01	0.12	0.8	<1	<0.2	17.5	<0.05	<0.05	2.83	0.010	<0.02	1.1	6	0.2
DUP	<0.002	<0.01	0.12	0.8	1	<0.2	17.7	<0.05	<0.05	3.09	0.010	<0.02	1.2	6	0.2
Target Range - Lower Bound	<0.002	<0.01	0.06	0.7	<1	<0.2	16.5	<0.05	<0.05	2.80	<0.005	<0.02	1.0	5	<0.1
Upper Bound	0.004	0.02	0.18	0.9	2	0.4	18.7	0.10	0.10	3.12	0.016	0.04	1.3	7	0.3
ORIGINAL	<0.002	<0.01	0.28	25.0	<1	1.2	25.4	0.36	0.12	1.82	0.798	0.10	2.2	266	0.4
DUP	<0.002	<0.01	0.27	27.0	<1	1.2	24.6	0.34	0.12	1.81	0.793	0.09	2.1	263	0.4
Target Range - Lower Bound	<0.002	<0.01	0.20	24.6	<1	0.9	23.6	0.28	0.06	1.71	0.751	0.07	1.9	250	0.3
Upper Bound	0.004	0.02	0.35	27.4	2	1.5	26.5	0.42	0.18	1.92	0.840	0.12	2.4	279	0.5



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Ag-OG62 Ag ppm	Cu-OG62 Cu %
		0.1	2	0.5	1	0.001
<b>STANDARDS</b>						
Target Range - Lower Bound					96	0.030
Upper Bound					105	0.034
OREAS-134b					214	0.139
Target Range - Lower Bound					201	0.129
Upper Bound					217	0.141
<b>BLANKS</b>						
BLANK					1	
Target Range - Lower Bound					<1	
Upper Bound					2	
BLANK					<1	<0.001
Target Range - Lower Bound					<1	<0.001
Upper Bound					2	0.002
BLANK	<0.1	<2	<0.5			
BLANK	<0.1	<2	<0.5			
BLANK	<0.1	<2	<0.5			
BLANK	<0.1	<2	<0.5			
Target Range - Lower Bound	<0.1	<2	<0.5			
Upper Bound	0.2	4	1.0			
<b>DUPLICATES</b>						
ORIGINAL	1.8	<2	39.1			
DUP	1.8	<2	40.5			
Target Range - Lower Bound	1.6	<2	36.3			
Upper Bound	2.0	4	43.3			
ORIGINAL	16.6	108	96.9			
DUP	16.1	108	99.1			
Target Range - Lower Bound	15.4	101	90.2			
Upper Bound	17.3	115	106.0			



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
<b>DUPLICATES</b>																
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
13816		0.01	9.18	1.6	570	1.90	0.03	1.20	<0.02	62.4	18.0	138	2.53	3.4	5.06	27.5
DUP		0.03	9.27	1.8	590	2.07	0.04	1.25	0.02	59.1	18.4	140	2.50	4.2	5.24	28.8
Target Range - Lower Bound		<0.01	8.75	1.4	530	1.84	0.02	1.15	<0.02	57.7	17.2	131	2.34	3.5	4.88	26.7
Upper Bound		0.03	9.70	2.0	630	2.13	0.05	1.30	0.04	63.8	19.2	147	2.69	4.1	5.42	29.6
ORIGINAL DUP																
Target Range - Lower Bound		0.19	6.61	7.3	210	0.37	0.07	6.38	0.13	10.90	48.3	108	0.15	155.5	9.31	17.60
Upper Bound		0.23	7.33	8.5	260	0.52	0.09	7.08	0.18	12.10	53.5	122	0.28	167.0	10.30	19.55
ORIGINAL DUP																
Target Range - Lower Bound																
Upper Bound																
<b>PREP DUPLICATES</b>																
13845		0.01	6.72	1.6	350	0.84	0.11	0.26	<0.02	67.5	7.8	60	1.06	38.0	1.84	14.00
13845 PREP DUP		0.02	6.41	1.2	330	0.90	0.10	0.23	<0.02	66.9	8.1	54	1.05	37.0	1.77	14.10





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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
13816 DUP Target Range - Lower Bound Upper Bound	0.14 0.16 0.09 0.21	3.7 3.8 3.5 4.0	0.052 0.051 0.044 0.059	3.86 3.94 3.70 4.11	28.9 26.2 25.7 29.4	34.1 34.9 32.6 36.4	1.43 1.46 1.36 1.53	219 229 208 240	2.18 1.76 1.82 2.12	1.51 1.55 1.44 1.62	4.8 5.2 4.7 5.4	78.1 80.0 74.9 83.2	870 890 830 930	3.8 4.1 3.3 4.6	136.5 126.0 124.5 138.0	
ORIGINAL DUP Target Range - Lower Bound Upper Bound	0.07 0.05 <0.05 0.10	1.9 2.0 1.8 2.1	0.083 0.079 0.072 0.090	0.33 0.33 0.30 0.36	4.2 4.2 3.5 4.9	11.4 11.5 10.7 12.2	4.00 4.04 3.81 4.23	1570 1560 1480 1650	1.13 1.01 0.97 1.17	2.43 2.49 2.33 2.59	4.2 4.2 3.9 4.5	80.7 82.1 77.1 85.7	550 570 520 600	4.2 3.9 3.3 4.8	5.7 5.7 5.3 6.1	
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>PREP DUPLICATES</b>															
13845 13845 PREP DUP	0.16 0.16	3.7 3.8	0.010 0.012	1.92 1.85	32.5 31.9	10.1 10.4	0.61 0.61	149 142	1.47 0.93	3.77 3.66	4.4 4.4	21.0 21.6	510 500	7.5 7.0	70.5 68.9	



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>														
13816 DUP Target Range - Lower Bound Upper Bound	0.002 0.002 <0.002 0.004	<0.01 <0.01 <0.01 0.02	0.30 0.35 0.25 0.40	17.5 17.5 16.5 18.5	1 1 <1 2	1.5 1.6 1.3 1.8	31.4 31.6 29.7 33.3	0.44 0.45 0.37 0.52	<0.05 <0.05 <0.05 0.10	12.60 11.75 11.55 12.80	0.217 0.230 0.207 0.240	0.46 0.47 0.41 0.52	4.2 4.5 4.0 4.7	137 141 131 147	0.9 1.0 0.8 1.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	0.003 0.003 <0.002 0.004	0.19 0.19 0.17 0.21	0.27 0.24 0.19 0.32	46.2 47.5 44.4 49.3	<1 1 <1 2	0.8 0.8 0.6 1.0	132.0 134.0 126.0 140.0	0.25 0.24 0.18 0.31	0.05 0.09 <0.05 0.10	0.46 0.42 0.41 0.47	0.822 0.830 0.780 0.872	0.04 0.04 <0.02 0.06	0.1 0.1 <0.1 0.2	347 352 331 368	1.4 1.4 1.2 1.6
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>PREP DUPLICATES</b>														
13845 13845 PREP DUP	<0.002 <0.002	0.09 0.09	0.12 0.10	5.1 5.1	<1 <1	0.7 0.7	117.0 114.5	0.42 0.41	<0.05 <0.05	8.76 8.38	0.169 0.165	0.38 0.36	3.7 3.6	45 43	0.4 0.4



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD20071600**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Ag-OG62 Ag ppm	Cu-OG62 Cu %
		0.1	2	0.5	1	0.001
<b>DUPLICATES</b>						
ORIGINAL					263	
DUP					250	0.001
Target Range - Lower Bound					249	<0.001
Upper Bound					264	0.002
13816		17.5	7	128.0		
DUP		17.2	8	134.0		
Target Range - Lower Bound		16.4	5	120.5		
Upper Bound		18.3	10	141.5		
ORIGINAL		27.5	105	83.2		
DUP		28.0	106	63.2		
Target Range - Lower Bound		26.3	98	67.2		
Upper Bound		29.2	113	79.2		
ORIGINAL					963	
DUP					938	
Target Range - Lower Bound					926	
Upper Bound					975	
<b>PREP DUPLICATES</b>						
13845		6.0	10	145.0		
13845 PREP DUP		5.8	10	146.0		



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<b>QC CERTIFICATE OF ANALYSIS SD20071600</b>
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	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 17%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 17%;">ME-OG62</td> </tr> </table>	Ag-OG62	Cu-OG62	ME-MS61	ME-OG62				
Ag-OG62	Cu-OG62	ME-MS61	ME-OG62						



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To: NORTH AMERICAN COBALT – BATTERY  
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**CERTIFICATE SD21046863**

Project: Shining Tree  
 P.O. No.: STR21002  
 This report is for 88 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26-FEB-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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 Account: BMRPLLBW

Project: Shining Tree  
**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
1301		0.11	4.02	5.44	15.1	110	0.55	0.89	3.42	2.13	17.05	958	270	0.82	>10000	18.20
1302		2.31	0.19	7.08	8.2	180	0.97	0.14	4.10	0.11	32.7	48.8	5	1.61	66.1	9.99
1303		0.57	14.65	4.18	97.0	70	4.23	1.11	8.38	0.07	35.3	85.5	13	0.79	288	5.67
1304		1.73	0.35	7.50	131.0	50	1.18	1.26	4.35	<0.02	29.2	104.5	4	0.97	50.0	7.77
1305		1.42	0.16	7.57	16.6	160	0.89	0.30	4.51	0.03	26.1	45.6	5	0.74	33.5	7.40
1306		2.16	0.30	7.45	6.5	200	0.93	0.30	6.89	0.21	30.5	34.5	4	0.78	377	6.81
1307		1.20	0.08	4.16	1.3	60	0.62	0.11	19.10	<0.02	54.0	7.5	3	0.21	409	2.19
1308		2.26	0.19	6.31	4.3	120	0.83	0.14	9.49	0.22	34.2	23.5	4	0.70	926	4.81
1309		2.87	0.14	7.58	3.0	270	0.77	0.07	3.93	0.42	26.1	49.4	4	1.06	92.1	9.14
1310		1.73	0.09	7.37	5.9	240	0.83	0.10	5.26	0.20	27.1	50.7	5	1.46	51.6	9.54
1311		1.70	0.16	7.53	6.2	250	0.73	0.09	4.46	1.36	23.7	50.2	6	1.17	112.0	9.19
1312		2.33	0.15	7.51	6.9	230	0.85	0.18	6.92	0.22	29.4	38.4	5	0.82	166.5	6.68
1313		1.71	0.10	7.51	3.4	260	0.85	0.08	4.84	0.21	23.5	42.9	6	1.27	115.5	7.63
1314		1.63	0.11	5.70	2.0	150	0.96	0.22	14.00	<0.02	38.3	13.8	5	0.60	402	2.73
1315		1.82	0.09	7.25	6.4	220	1.01	0.24	7.32	0.08	33.8	30.8	3	1.00	261	5.85
1316		2.11	0.13	7.63	3.1	200	0.94	0.23	5.61	0.28	27.0	34.0	4	0.77	374	6.66
1317		1.97	0.07	7.20	6.5	220	0.99	0.20	7.02	0.12	30.9	45.4	5	1.32	120.0	8.21
1318		1.65	0.10	7.46	4.2	300	0.81	0.10	4.64	0.16	26.4	52.9	5	2.36	51.4	9.98
1319		0.97	0.19	7.63	5.3	220	0.85	0.13	4.84	0.65	25.0	50.4	6	1.05	100.5	9.23
1320		1.28	0.20	7.59	5.1	220	0.81	0.11	4.82	0.66	24.7	49.4	5	1.03	115.0	9.11
1321		0.12	4.21	5.52	14.5	120	0.48	0.88	3.46	2.33	17.50	967	273	0.82	>10000	18.45
1322		1.88	0.21	7.16	28.5	150	1.08	0.35	5.58	0.45	33.5	57.3	6	1.32	193.5	8.27
1323		1.89	0.11	7.71	8.4	180	0.71	0.10	5.08	0.16	20.9	47.4	7	0.72	61.5	7.79
1324		1.53	0.17	7.34	16.8	180	0.73	0.12	5.43	0.07	21.0	48.8	12	1.14	141.0	8.49
1325		0.54	<0.01	0.10	0.2	10	0.06	0.01	30.5	<0.02	1.15	1.2	3	<0.05	2.0	0.21
1326		1.39	0.35	6.35	159.0	120	1.03	1.87	10.55	0.02	34.1	125.0	12	1.31	106.5	4.89
1327		2.14	0.21	7.38	18.0	170	0.92	0.30	7.02	0.61	26.0	49.2	20	1.71	160.0	7.42
1328		3.03	0.35	7.37	48.3	160	0.83	0.43	6.42	0.18	24.8	59.3	28	2.22	262	8.21
1329		1.01	0.37	7.35	14.8	180	0.58	0.26	3.91	5.80	18.95	51.1	36	2.97	115.0	8.55
1330		1.61	0.28	7.59	16.8	170	0.99	0.07	4.38	0.42	19.40	47.1	45	2.98	167.5	8.03
1331		2.07	0.21	7.76	5.2	200	0.53	0.05	5.32	1.66	18.30	49.9	49	2.37	163.5	8.04
1332		1.94	0.19	7.59	4.0	180	0.54	0.06	4.86	0.69	18.85	47.1	48	2.09	162.0	7.73
1333		2.09	0.17	7.34	5.1	200	0.56	0.07	5.03	0.23	18.70	45.4	50	3.02	143.5	7.63
1334		1.68	0.33	7.24	18.4	150	1.27	0.16	5.86	0.11	20.6	45.2	54	2.43	219	7.39
1335		1.51	0.17	6.78	7.4	150	0.72	0.09	5.12	0.14	16.35	45.2	52	3.40	148.5	8.64
1336		1.00	0.17	7.42	5.5	180	0.58	0.08	5.25	0.17	17.95	46.3	56	2.38	176.0	7.79
1337		2.07	0.13	7.35	3.4	180	0.54	0.08	5.30	0.08	17.70	45.0	60	2.20	139.0	7.42
1338		2.10	0.14	7.57	5.9	180	0.50	0.11	5.58	0.06	17.65	44.0	64	1.64	152.0	7.26
1339		0.74	0.11	7.36	39.1	150	0.80	0.27	6.46	0.05	21.3	56.3	62	1.83	126.5	7.32
1340		0.95	0.11	7.63	28.0	150	0.82	0.23	5.96	0.04	19.70	51.7	65	1.90	136.0	7.65



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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1301		12.35	0.30	1.3	0.122	0.31	7.5	9.8	3.88	979	5.01	1.20	5.4	>10000	480	15.1
1302		22.5	0.14	3.5	0.100	1.34	15.0	25.6	2.13	1510	0.87	2.94	6.0	36.3	600	36.9
1303		14.70	0.13	2.7	0.118	0.52	14.7	65.4	1.67	1120	2.27	1.58	3.7	26.5	330	131.5
1304		24.2	0.12	3.5	0.107	0.39	13.0	67.4	2.37	793	2.40	3.56	6.3	49.8	620	45.6
1305		23.1	0.14	3.0	0.126	1.27	11.4	33.7	1.86	1160	0.90	3.45	5.6	37.7	510	17.1
1306		20.9	0.13	2.9	0.175	1.51	14.6	26.1	1.71	1730	0.60	2.95	4.7	36.8	470	36.2
1307		12.05	0.14	2.1	0.453	0.52	22.4	16.6	0.43	2870	0.20	2.16	2.9	22.7	360	4.8
1308		19.00	0.12	2.4	0.225	0.87	16.2	33.3	1.11	1810	0.47	2.90	4.2	41.5	450	29.0
1309		21.9	0.14	2.7	0.080	1.88	11.4	26.7	2.19	1930	0.60	2.76	4.4	39.7	490	84.0
1310		20.7	0.14	2.7	0.106	1.82	13.0	25.4	2.42	1860	0.61	2.47	4.7	45.7	490	23.3
1311		20.8	0.14	2.6	0.088	1.84	10.4	28.1	2.57	1680	0.58	2.55	4.2	64.0	450	103.5
1312		19.75	0.14	2.6	0.126	1.94	13.6	24.1	1.85	1810	1.08	2.45	4.4	40.2	450	27.5
1313		20.4	0.14	2.6	0.080	2.05	10.6	30.0	2.23	1520	0.53	2.41	4.2	46.0	450	21.4
1314		14.25	0.15	2.0	0.356	1.42	17.2	14.8	0.71	2050	0.28	2.16	3.3	17.4	330	5.0
1315		19.35	0.15	3.0	0.140	1.64	16.1	19.4	1.10	1460	0.68	2.80	4.8	24.5	500	7.9
1316		20.7	0.16	2.8	0.113	1.62	12.9	25.1	1.53	1380	0.55	2.91	4.9	35.6	500	19.0
1317		20.1	0.14	2.5	0.154	1.61	14.9	27.3	2.05	1850	0.62	2.47	4.5	42.3	490	14.7
1318		20.6	0.13	2.6	0.097	1.71	12.5	28.5	2.62	1740	0.48	2.54	4.8	44.7	520	52.8
1319		20.7	0.14	2.5	0.101	1.56	11.6	29.3	2.96	1760	0.43	2.70	4.6	46.0	480	204
1320		20.1	0.14	2.6	0.104	1.57	11.6	29.6	2.92	1740	0.43	2.66	4.3	45.5	490	207
1321		12.60	0.33	1.3	0.128	0.32	8.0	9.7	3.93	991	5.02	1.21	5.5	>10000	480	14.2
1322		20.9	0.12	3.0	0.135	1.17	15.0	36.4	2.66	1650	0.95	2.74	5.2	51.6	500	61.0
1323		21.0	0.13	2.7	0.090	1.89	9.0	26.7	2.39	1440	0.53	2.87	4.5	51.4	440	56.9
1324		19.85	0.12	2.2	0.090	1.97	9.5	28.0	2.73	1340	0.60	2.34	4.0	62.4	410	12.2
1325		0.35	0.12	<0.1	0.008	0.01	1.3	1.4	2.98	157	0.20	0.04	0.1	1.2	70	<0.5
1326		16.65	0.12	1.9	0.145	1.33	15.8	33.6	1.52	1650	14.00	2.37	3.4	48.1	360	7.7
1327		19.60	0.11	2.4	0.121	1.89	12.3	32.9	2.66	1460	0.74	2.27	4.2	67.2	400	32.8
1328		19.35	0.13	2.0	0.120	1.52	11.8	48.5	3.34	1520	0.91	2.32	3.6	85.8	360	111.0
1329		17.65	0.12	2.0	0.081	1.43	8.5	50.4	4.46	1540	0.60	2.48	3.4	84.5	310	259
1330		17.75	0.12	2.0	0.075	1.58	9.1	65.5	4.35	1360	0.39	2.30	3.4	96.1	370	522
1331		18.40	0.12	2.0	0.059	1.65	8.4	56.7	4.51	1820	0.46	2.29	3.6	118.0	330	163.0
1332		17.70	0.13	2.0	0.067	1.63	8.6	52.1	4.45	1680	0.43	2.41	3.5	98.1	340	148.5
1333		17.90	0.13	1.9	0.060	1.71	8.6	55.0	4.29	1500	0.45	1.90	3.3	97.4	320	196.5
1334		18.65	0.12	1.8	0.077	1.43	9.9	62.7	3.35	1340	1.11	2.10	3.3	106.0	280	87.7
1335		17.50	0.11	1.6	0.074	1.51	7.6	62.7	4.53	1340	0.59	1.57	3.2	95.6	260	186.5
1336		18.45	0.14	1.8	0.058	2.17	8.4	40.2	4.09	1260	0.50	1.69	3.2	102.5	300	62.3
1337		17.85	0.15	1.8	0.057	2.20	8.3	37.9	3.91	1220	0.40	1.69	3.2	97.7	300	9.6
1338		18.40	0.14	1.8	0.065	2.23	8.2	27.0	3.74	1190	0.47	1.81	3.3	98.7	290	4.9
1339		18.40	0.15	1.7	0.103	1.95	10.0	36.8	3.58	1220	0.62	1.92	3.3	91.9	340	7.8
1340		19.00	0.12	1.7	0.082	2.07	9.1	35.7	3.68	1160	0.71	1.92	3.3	96.1	340	6.9





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Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1301		11.4	0.048	8.48	2.92	8.9	22	2.5	185.0	0.34	4.58	1.07	0.528	0.18	0.4	77
1302		55.2	0.002	0.12	0.27	32.4	1	0.9	166.0	0.43	<0.05	3.82	0.776	0.31	1.3	294
1303		17.0	0.005	0.08	0.96	21.5	1	0.8	64.0	0.27	<0.05	2.98	0.466	0.08	1.4	192
1304		13.7	0.002	0.09	0.25	35.3	1	0.9	70.8	0.44	<0.05	3.93	0.831	0.09	1.6	316
1305		46.3	<0.002	0.10	0.28	28.1	1	0.8	157.0	0.38	<0.05	3.01	0.684	0.29	1.4	258
1306		73.3	<0.002	0.09	0.39	29.6	1	0.8	187.5	0.34	<0.05	3.28	0.637	0.33	1.5	251
1307		25.0	<0.002	0.05	0.12	25.1	1	0.5	98.5	0.23	<0.05	2.56	0.365	0.11	1.0	126
1308		42.9	<0.002	0.12	0.26	28.6	1	0.7	117.5	0.30	<0.05	2.73	0.570	0.18	1.2	215
1309		69.6	0.002	0.11	0.52	29.7	1	0.9	198.0	0.33	0.06	2.63	0.619	0.46	0.9	265
1310		83.6	0.002	0.07	0.42	35.1	1	0.8	197.5	0.33	<0.05	2.89	0.667	0.48	1.0	276
1311		75.7	<0.002	0.11	0.50	31.8	1	0.7	204	0.29	<0.05	2.64	0.597	0.49	1.0	255
1312		93.7	0.002	0.10	0.36	30.1	1	0.8	196.5	0.32	<0.05	2.79	0.597	0.42	1.0	229
1313		76.6	<0.002	0.10	0.39	28.8	1	0.8	204	0.31	<0.05	2.47	0.573	0.44	0.9	234
1314		70.8	<0.002	0.11	0.31	30.7	1	0.6	144.5	0.23	<0.05	2.25	0.437	0.33	1.0	159
1315		81.1	<0.002	0.12	0.34	29.5	1	0.8	166.5	0.34	<0.05	3.48	0.635	0.40	1.2	226
1316		79.4	0.002	0.10	0.37	29.1	1	0.8	160.5	0.34	<0.05	3.13	0.666	0.38	1.1	242
1317		82.3	0.002	0.13	0.40	35.9	1	0.7	181.0	0.32	<0.05	2.81	0.662	0.41	1.0	269
1318		80.8	<0.002	0.13	0.53	35.3	1	0.7	196.0	0.33	<0.05	2.90	0.702	0.46	1.0	282
1319		72.4	0.002	0.12	0.40	33.6	1	0.8	177.0	0.31	<0.05	2.76	0.648	0.46	1.0	265
1320		72.2	0.002	0.12	0.39	32.6	1	0.7	180.0	0.32	<0.05	2.75	0.617	0.44	1.0	256
1321		11.2	0.052	8.61	3.26	9.0	22	2.6	187.0	0.33	4.63	1.13	0.536	0.18	0.4	79
1322		55.3	<0.002	0.11	0.31	28.1	1	0.9	136.0	0.35	<0.05	3.68	0.575	0.27	1.6	218
1323		49.8	<0.002	0.11	0.42	27.5	1	0.7	180.0	0.33	<0.05	2.32	0.601	0.40	1.1	249
1324		68.3	0.002	0.11	0.53	31.9	1	0.7	175.0	0.27	<0.05	2.09	0.565	0.39	0.8	246
1325		0.5	<0.002	<0.01	0.05	0.3	1	<0.2	69.4	<0.05	<0.05	0.09	0.008	<0.02	0.2	3
1326		61.2	0.004	0.08	0.46	26.5	1	0.7	125.0	0.23	<0.05	2.15	0.476	0.26	1.2	202
1327		93.4	0.002	0.11	0.39	36.2	1	1.0	190.0	0.30	<0.05	2.61	0.577	0.41	0.9	252
1328		74.1	0.002	0.10	0.39	34.8	1	0.9	168.5	0.25	<0.05	2.22	0.501	0.37	0.8	236
1329		64.5	<0.002	0.16	0.35	33.2	1	0.8	156.5	0.24	<0.05	2.12	0.488	0.33	0.7	229
1330		55.4	0.002	0.09	0.42	33.9	1	0.8	165.0	0.24	0.05	2.06	0.482	0.29	0.7	227
1331		52.9	<0.002	0.07	0.89	33.8	1	0.8	203	0.25	0.05	1.94	0.490	0.35	0.7	233
1332		53.3	<0.002	0.07	0.83	33.6	1	0.8	181.0	0.24	<0.05	2.00	0.487	0.34	0.7	229
1333		67.5	0.002	0.07	0.48	32.7	1	0.8	162.0	0.23	<0.05	2.02	0.458	0.41	0.7	221
1334		65.7	0.002	0.08	0.79	33.1	1	0.8	143.5	0.24	<0.05	2.05	0.446	0.30	0.7	214
1335		75.5	0.002	0.08	0.40	30.5	1	0.9	146.0	0.22	<0.05	1.91	0.412	0.31	0.6	201
1336		101.5	<0.002	0.09	0.47	32.4	1	0.8	174.0	0.22	<0.05	1.95	0.444	0.41	0.6	217
1337		102.5	<0.002	0.09	0.42	32.1	1	0.8	186.5	0.22	<0.05	2.04	0.434	0.44	0.7	207
1338		98.4	<0.002	0.08	0.38	33.0	1	0.7	175.0	0.23	<0.05	2.03	0.451	0.44	0.7	215
1339		95.7	<0.002	0.08	0.46	32.4	1	0.9	157.5	0.23	<0.05	2.03	0.434	0.39	0.7	208
1340		83.9	<0.002	0.09	0.43	32.4	1	1.0	163.0	0.24	<0.05	1.91	0.455	0.38	0.7	219



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Co % 0.0005	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
1301		2.5	10.0	140	51.5		1.595	4.50		
1302		0.5	25.9	111	124.5				86.0	92.2
1303		0.4	41.2	86	99.8					98.1
1304		0.8	24.9	73	127.0					
1305		0.4	22.7	78	107.0					
1306		0.4	27.9	119	101.0					
1307		0.4	66.3	11	76.3					
1308		0.5	35.4	109	87.7					
1309		0.4	21.2	233	101.0					
1310		0.4	23.2	145	94.3					
1311		0.3	20.7	510	91.3					
1312		0.7	27.2	123	88.8					
1313		0.4	20.2	134	89.8					
1314		0.6	47.7	26	70.4					
1315		0.6	30.2	68	106.5					
1316		0.6	23.5	111	101.5					
1317		0.5	28.0	105	90.0					
1318		0.3	22.5	139	95.0					
1319		0.3	21.3	298	91.2					
1320		0.3	21.0	302	88.4					
1321		2.4	10.1	138	49.5		1.600	4.51		
1322		0.3	24.6	226	110.5					
1323		0.3	17.9	124	93.2					
1324		0.3	18.9	80	79.0					
1325		<0.1	2.3	4	1.8					
1326		0.5	26.3	31	67.3					
1327		0.6	21.6	202	85.0					
1328		0.5	20.3	135	72.0					
1329		0.4	16.4	1840	69.1					
1330		0.3	15.5	250	68.7					
1331		0.3	14.9	557	69.4					
1332		0.4	15.4	293	67.1					
1333		0.4	14.8	163	65.9					
1334		0.8	16.5	98	66.3					
1335		0.3	15.3	126	58.5					
1336		0.3	15.6	110	66.1					
1337		0.3	15.1	81	62.6					
1338		0.3	15.6	70	66.4					
1339		0.3	19.4	64	62.0					89.1
1340		0.4	17.1	65	62.8				76.1	92.1



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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
1341		0.12	3.97	5.44	14.3	110	0.51	0.88	3.42	2.07	16.95	957	275	0.78	>10000	18.20
1342		1.42	0.16	6.92	9.4	120	0.92	0.21	5.88	0.04	30.4	39.0	53	1.35	374	7.14
1343		2.19	0.17	7.61	3.8	170	0.49	0.11	5.40	0.05	17.85	45.7	65	1.42	153.5	7.51
1344		2.49	0.32	6.14	3.5	120	1.38	0.59	4.42	0.04	31.8	53.2	44	0.91	145.0	11.25
1345		1.35	0.18	7.87	2.8	180	0.47	0.11	5.94	0.06	16.80	42.4	83	0.99	154.5	6.98
1346		1.25	0.70	7.47	12.0	140	0.98	0.13	6.33	0.22	17.95	40.0	94	1.98	164.5	6.47
1347		0.92	0.17	7.56	3.7	170	0.51	0.11	5.60	0.05	15.25	40.6	99	2.28	148.5	6.55
1348		1.49	0.21	7.65	152.5	120	1.05	0.56	7.66	0.06	20.8	113.5	97	1.61	97.5	6.20
1349		1.81	0.17	7.82	6.7	160	0.40	0.06	6.02	0.15	16.70	41.4	104	1.40	159.5	6.53
1350		1.25	0.41	7.76	483	140	0.69	2.13	6.61	0.17	18.45	418	104	1.19	877	6.29
1351		2.06	0.28	7.48	6.9	140	0.44	0.09	5.93	0.06	15.95	40.9	108	1.04	203	6.63
1352		1.15	2.11	5.49	10.3	60	0.75	0.10	8.66	0.06	35.1	20.5	55	0.63	7040	4.88
1353		1.90	0.21	7.97	5.7	180	0.41	0.06	6.15	0.21	16.60	41.7	125	1.20	159.0	6.70
1354		1.03	0.18	7.59	46.8	180	0.70	0.37	8.07	0.10	18.95	55.6	124	1.48	136.0	5.81
1355		1.59	0.11	7.47	9.6	170	0.77	0.24	8.88	0.04	21.0	35.5	134	1.39	129.5	5.32
1356		2.06	0.22	7.51	32.8	190	0.74	0.24	5.08	1.23	15.90	48.1	157	2.07	236	6.98
1357		1.48	0.23	7.07	34.1	120	0.77	0.27	4.81	0.70	13.40	45.5	151	2.27	272	7.79
1358		1.55	0.12	7.51	1.9	110	0.32	0.06	6.13	0.10	15.50	44.6	188	0.80	74.2	6.92
1359		0.55	0.41	7.29	12.0	110	1.35	0.19	5.91	0.09	17.30	42.0	178	2.12	519	7.82
1360		0.50	0.85	7.48	16.1	120	1.53	0.24	5.21	0.07	16.25	44.6	191	2.16	544	7.58
1361		<0.02	0.71	6.77	2.7	240	0.90	0.06	5.32	0.75	35.8	>10000	167	0.69	1835	6.86
1362		1.67	0.21	7.48	14.5	80	1.59	0.46	6.68	0.50	18.70	48.8	188	1.69	142.5	6.48
1363		2.14	0.11	7.76	10.4	150	0.68	0.08	6.79	0.28	15.40	45.4	197	2.78	135.0	6.42
1364		1.31	0.18	7.82	99.2	90	0.96	0.62	6.15	0.92	13.70	78.8	207	1.30	49.6	5.63
1365		0.98	0.10	7.67	11.2	160	0.49	0.08	5.76	0.10	15.70	47.8	197	1.91	124.5	6.86
1366		1.26	0.10	7.62	27.4	90	0.71	0.26	6.44	0.19	17.95	47.4	192	1.84	81.4	6.95
1367		1.02	0.21	7.48	2.3	150	0.55	0.06	6.25	0.51	15.15	44.1	268	1.93	114.5	6.58
1368		2.13	0.16	7.64	3.5	180	0.55	0.04	6.61	0.19	15.30	44.9	266	1.84	90.2	6.79
1369		1.47	0.24	7.70	15.4	160	0.77	0.28	7.34	0.08	17.65	45.4	293	1.57	170.0	6.49
1370		1.94	0.15	7.08	68.4	100	0.96	0.53	8.80	0.10	18.05	71.9	251	1.25	248	6.23
1371		2.17	0.14	6.89	2.0	130	0.48	0.03	7.56	0.30	13.60	53.5	284	1.24	90.6	7.01
1372		1.16	0.09	7.03	48.6	70	1.48	0.18	8.36	0.03	23.8	38.2	160	2.42	184.0	6.95
1373		1.85	0.10	6.99	92.6	60	1.47	1.05	10.05	0.06	16.50	60.5	198	1.36	78.9	5.23
1374		1.98	0.12	7.51	60.9	180	0.96	0.30	8.20	0.24	15.35	70.2	82	1.64	439	6.51
1375		0.57	0.01	0.07	0.2	10	0.09	0.01	31.7	<0.02	0.93	1.5	1	0.08	9.0	0.16
1376		1.66	0.07	7.68	2.0	220	0.48	0.03	6.77	0.09	12.80	44.7	97	1.01	102.0	6.60
1377		1.71	0.08	7.82	5.0	200	0.60	0.07	6.35	0.29	12.50	44.1	99	1.34	154.0	6.73
1378		1.13	0.16	7.40	9.3	210	0.81	0.24	7.10	0.29	14.00	44.0	85	1.35	594	6.23
1379		0.83	0.06	4.71	34.9	90	0.86	0.39	17.60	0.06	19.80	41.3	56	1.08	55.2	4.06
1380		0.70	0.08	6.39	53.1	120	1.26	0.52	13.70	0.07	18.05	59.0	65	1.50	56.6	5.37



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 Account: BMRPLLBW

**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1341		12.80	0.28	1.3	0.119	0.31	7.5	9.9	3.90	984	5.19	1.20	5.4	>10000	460	14.5
1342		20.4	0.12	2.5	0.107	1.53	13.5	42.7	3.33	1150	0.53	2.03	5.0	93.3	360	8.7
1343		18.40	0.12	1.7	0.061	2.16	8.3	33.7	4.10	1260	0.46	1.86	3.2	102.0	300	12.0
1344		20.3	0.14	3.8	0.080	1.30	14.3	24.0	3.55	881	0.52	2.16	5.4	81.1	480	16.8
1345		18.10	0.13	1.7	0.054	1.95	7.7	27.6	3.64	1440	0.41	2.17	3.1	105.0	290	8.8
1346		17.85	0.13	1.6	0.086	1.68	8.7	51.4	3.39	1340	0.40	2.14	2.9	101.0	270	133.0
1347		17.60	0.13	1.5	0.052	2.09	7.1	48.4	3.68	1300	0.39	1.80	2.9	104.5	260	49.3
1348		18.15	0.12	1.5	0.117	1.59	10.0	57.3	2.92	1440	1.00	2.32	2.8	112.5	250	33.6
1349		17.95	0.14	1.6	0.048	2.23	7.6	33.4	3.73	1380	0.36	1.70	2.9	109.0	250	28.9
1350		17.95	0.15	1.6	0.099	2.04	8.7	37.9	3.58	1420	1.36	1.96	2.9	140.0	250	25.7
1351		17.55	0.13	1.5	0.056	2.03	7.2	29.5	3.75	1300	0.33	1.83	2.9	107.5	260	14.6
1352		16.20	0.14	4.5	0.266	0.86	15.2	24.9	1.97	1340	0.38	2.33	6.0	47.4	190	22.8
1353		17.95	0.13	1.6	0.050	2.03	7.7	33.6	3.96	1380	0.34	2.03	2.9	116.0	280	132.5
1354		17.20	0.13	1.5	0.094	1.70	9.1	32.6	3.13	1360	0.94	2.25	2.7	106.0	270	13.8
1355		16.80	0.14	1.5	0.143	1.81	9.9	36.1	2.73	1380	0.78	2.07	2.8	92.2	280	6.0
1356		16.70	0.13	1.4	0.079	1.42	7.2	65.4	4.46	1340	0.25	2.29	2.7	122.0	260	326
1357		16.35	0.13	1.4	0.089	0.94	6.1	92.2	4.91	1240	0.43	1.97	2.5	115.0	260	368
1358		16.85	0.13	1.5	0.043	1.14	7.0	45.7	4.41	1220	0.41	2.50	2.8	119.0	240	162.0
1359		19.10	0.13	1.4	0.095	1.18	8.2	62.4	4.39	1220	0.47	2.03	2.8	125.0	220	39.7
1360		19.15	0.13	1.4	0.099	1.31	7.3	62.5	4.14	1290	0.46	2.20	2.9	128.5	250	32.9
1361		19.40	0.19	3.3	0.057	0.64	17.4	7.3	3.51	919	2.88	2.10	21.0	>10000	1440	17.6
1362		19.30	0.11	1.4	0.104	0.80	9.0	73.1	3.07	1320	0.67	2.65	2.5	145.0	250	116.0
1363		17.05	0.12	1.4	0.053	1.61	7.2	62.9	3.85	1480	0.34	1.70	2.6	133.0	240	80.6
1364		19.45	0.12	1.6	0.082	1.49	6.4	66.8	2.97	1280	1.61	2.84	2.8	122.0	250	66.7
1365		17.35	0.13	1.5	0.050	1.93	7.4	42.8	4.65	1210	0.37	1.64	2.7	134.0	250	207
1366		17.55	0.13	1.4	0.076	1.34	8.4	58.7	4.14	1300	0.51	2.19	2.6	129.0	270	30.4
1367		14.55	0.07	1.3	0.060	1.50	6.6	49.8	4.58	1400	0.72	2.24	2.2	145.0	250	51.3
1368		14.45	0.06	1.4	0.056	1.87	6.5	38.7	4.67	1460	0.33	2.03	2.3	149.5	270	133.0
1369		15.10	0.06	1.5	0.076	1.83	8.0	38.7	3.97	1370	1.36	2.02	2.5	141.0	270	26.3
1370		16.35	0.09	1.4	0.105	1.62	8.6	38.1	3.76	1380	1.91	2.01	2.5	143.0	240	14.6
1371		15.30	0.09	1.4	0.043	1.35	6.1	35.7	5.24	1260	0.31	1.48	2.3	194.0	230	14.2
1372		15.25	0.15	1.2	0.132	0.98	11.3	62.7	3.29	1760	0.22	2.13	1.9	113.5	240	5.0
1373		14.50	0.07	1.2	0.149	0.78	8.0	46.8	2.54	1520	5.19	2.58	2.0	106.0	210	69.4
1374		15.95	0.09	1.3	0.100	1.67	7.2	47.9	3.43	1500	0.42	1.94	2.2	105.5	260	163.5
1375		0.24	<0.05	<0.1	<0.005	0.01	1.1	1.2	2.68	149	0.13	0.03	0.1	1.1	60	1.7
1376		16.60	0.10	1.4	0.051	2.33	5.4	25.0	3.83	1220	0.36	1.66	2.3	97.1	260	8.9
1377		16.00	0.08	1.4	0.052	2.04	5.4	37.6	3.87	1260	0.37	1.91	2.3	91.9	250	37.4
1378		16.05	0.09	1.4	0.095	1.91	6.3	34.6	3.30	1280	0.30	1.85	2.2	92.1	230	41.5
1379		11.35	0.07	0.8	0.193	0.83	9.0	33.9	1.73	1940	1.42	1.55	1.4	69.2	140	19.3
1380		15.35	0.07	1.1	0.139	1.11	8.6	41.3	2.33	1770	1.59	2.10	1.9	92.2	190	28.1



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Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1341		11.6	0.045	8.11	3.10	9.0	22	2.5	184.5	0.32	4.32	1.09	0.524	0.18	0.4	78
1342		73.7	<0.002	0.11	0.33	27.9	1	1.2	129.0	0.34	<0.05	2.99	0.430	0.28	1.3	187
1343		105.0	<0.002	0.07	0.32	32.8	1	0.8	179.0	0.22	<0.05	1.98	0.439	0.44	0.6	209
1344		66.6	<0.002	0.10	0.19	21.5	1	1.4	124.0	0.45	<0.05	5.09	0.299	0.26	2.0	162
1345		80.4	<0.002	0.09	0.39	32.6	1	0.7	183.5	0.22	<0.05	1.91	0.437	0.41	0.6	213
1346		81.8	<0.002	0.07	0.32	30.6	1	0.7	157.5	0.20	0.05	1.82	0.392	0.31	0.6	196
1347		91.5	<0.002	0.07	0.44	31.1	1	0.6	175.5	0.20	<0.05	1.77	0.393	0.40	0.5	196
1348		71.2	<0.002	0.06	0.42	32.1	1	0.6	126.0	0.20	0.05	1.84	0.391	0.28	0.6	195
1349		95.9	<0.002	0.07	0.40	32.3	1	0.6	164.0	0.20	<0.05	1.88	0.398	0.39	0.6	199
1350		79.9	0.002	0.17	1.48	31.5	1	0.7	156.0	0.21	0.05	1.81	0.398	0.34	0.7	199
1351		79.0	<0.002	0.07	0.35	30.8	1	0.8	154.5	0.20	0.06	1.73	0.383	0.34	0.6	193
1352		40.3	<0.002	0.76	0.38	17.6	2	0.8	89.8	0.48	<0.05	6.06	0.246	0.16	2.9	97
1353		83.3	<0.002	0.07	0.47	32.7	1	0.7	199.0	0.20	0.06	1.82	0.401	0.40	0.6	206
1354		79.1	<0.002	0.06	0.28	31.3	1	0.6	193.5	0.20	0.05	1.84	0.379	0.35	0.6	195
1355		83.3	<0.002	0.08	0.24	30.4	1	0.8	172.0	0.20	0.05	1.79	0.380	0.37	0.7	193
1356		70.2	<0.002	0.12	0.36	29.6	1	0.8	151.5	0.18	<0.05	1.61	0.362	0.33	0.7	185
1357		45.3	<0.002	0.07	0.26	27.7	1	0.7	112.5	0.18	0.05	1.59	0.345	0.21	0.6	175
1358		51.8	<0.002	0.06	0.14	32.1	1	0.7	184.5	0.19	0.05	1.75	0.377	0.21	0.5	191
1359		55.5	<0.002	0.13	0.23	28.2	1	1.3	120.0	0.19	<0.05	1.68	0.353	0.25	0.9	191
1360		51.8	<0.002	0.16	0.21	29.6	1	1.2	128.0	0.18	0.05	1.59	0.375	0.26	0.8	195
1361		20.1	<0.002	2.54	1.93	18.0	1	1.4	400	1.23	<0.05	2.59	0.974	0.09	0.7	138
1362		37.7	<0.002	0.07	0.28	27.7	1	0.7	96.5	0.18	<0.05	1.67	0.361	0.17	0.7	188
1363		74.5	<0.002	0.06	0.43	30.7	1	0.6	162.0	0.18	<0.05	1.68	0.383	0.34	0.5	193
1364		42.3	<0.002	0.06	0.22	28.3	1	0.6	129.5	0.20	<0.05	1.56	0.392	0.24	0.7	203
1365		80.6	<0.002	0.07	0.24	28.8	1	0.6	178.5	0.19	<0.05	1.75	0.370	0.37	0.6	185
1366		60.6	<0.002	0.06	0.25	27.8	1	0.6	125.5	0.18	<0.05	1.72	0.355	0.28	0.6	184
1367		61.4	<0.002	0.05	0.56	30.3	<1	0.6	182.5	0.16	<0.05	1.52	0.371	0.25	0.5	194
1368		75.7	<0.002	0.06	0.33	30.9	1	0.6	192.5	0.17	<0.05	1.52	0.378	0.32	0.5	198
1369		78.5	<0.002	0.07	0.32	30.3	1	0.6	160.0	0.19	<0.05	1.60	0.400	0.33	0.6	207
1370		77.0	<0.002	0.10	0.27	32.4	1	0.6	136.0	0.17	<0.05	1.51	0.347	0.29	0.6	186
1371		56.3	<0.002	0.05	0.22	26.0	1	0.5	181.5	0.16	<0.05	1.41	0.343	0.23	0.4	180
1372		48.1	<0.002	0.06	0.30	31.0	1	0.7	105.5	0.14	<0.05	1.23	0.349	0.18	0.5	190
1373		38.6	0.002	0.04	0.34	31.9	1	0.4	112.5	0.13	<0.05	1.08	0.351	0.16	0.5	186
1374		82.3	<0.002	0.11	0.35	31.6	1	0.6	159.0	0.15	<0.05	1.22	0.368	0.30	0.5	191
1375		0.3	<0.002	<0.01	0.16	0.3	1	<0.2	87.0	<0.05	<0.05	0.06	0.005	0.02	0.1	1
1376		83.9	<0.002	0.06	0.28	34.8	1	0.6	189.0	0.16	<0.05	1.15	0.366	0.44	0.4	196
1377		85.4	<0.002	0.08	0.34	33.2	1	0.6	174.0	0.17	<0.05	1.21	0.370	0.37	0.4	193
1378		85.5	0.002	0.12	0.38	31.5	1	0.7	160.5	0.16	<0.05	1.23	0.344	0.39	0.4	181
1379		43.4	<0.002	0.05	0.19	29.5	1	0.6	111.5	0.09	<0.05	0.77	0.220	0.18	0.4	120
1380		58.0	<0.002	0.06	0.24	33.2	1	0.7	125.0	0.13	<0.05	1.01	0.310	0.22	0.5	166



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Project: Shining Tree  
**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Co % 0.0005	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
1341		2.2	9.9	138	52.5		1.590	4.48		
1342		0.4	20.9	67	89.7					
1343		0.4	15.3	75	61.5					
1344		0.3	26.8	61	141.0					
1345		0.3	14.1	93	61.7					
1346		0.3	14.8	145	57.5					
1347		0.3	13.3	90	56.9					
1348		0.4	17.8	83	56.9					
1349		0.3	13.5	106	58.2					
1350		0.3	14.5	107	58.2					
1351		0.3	13.5	73	55.3					
1352		0.2	27.5	42	172.0					
1353		0.3	13.6	109	59.6				72.0	
1354		0.4	16.5	71	56.1					
1355		0.5	19.4	52	54.3					
1356		0.2	14.1	448	49.8					
1357		0.3	12.1	334	50.8					
1358		0.3	12.8	113	55.1					
1359		0.6	13.2	96	50.5					
1360		0.6	13.9	87	53.2					
1361		1.7	19.7	118	133.0	2.08		2.25		
1362		0.5	14.7	258	51.4					
1363		0.3	12.5	164	51.5					
1364		0.6	12.1	231	56.5					
1365		0.3	12.6	94	51.7					
1366		0.3	14.4	99	52.3					
1367		0.2	12.0	179	49.5					
1368		0.3	12.3	113	49.6					
1369		0.3	14.9	78	54.4					
1370		0.3	20.3	71	52.8					
1371		0.3	13.0	129	52.0					
1372		0.4	16.8	59	44.0					
1373		0.4	21.3	60	44.9					
1374		0.4	15.4	138	48.8					
1375		<0.1	2.1	3	1.7					
1376		0.2	13.7	73	52.8					
1377		0.3	13.2	142	52.0					
1378		0.4	14.4	158	52.5					
1379		0.4	26.2	47	31.3					93.0
1380		0.4	21.7	66	42.7				74.7	94.1



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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1381		<0.02	0.78	6.85	3.2	240	1.22	0.05	5.65	0.75	35.4	>10000	160	0.69	1920	7.15
1382		1.87	0.08	7.62	2.2	110	0.90	0.11	5.65	0.04	14.15	47.3	92	1.01	145.0	7.58
1383		2.31	0.98	6.41	278	80	0.93	35.5	11.70	0.06	23.9	223	67	1.53	117.5	4.80
1384		1.16	0.07	7.59	2.9	130	0.38	0.04	6.45	0.07	14.80	42.8	87	1.53	100.5	7.04
1385		2.14	0.09	7.28	3.6	70	0.36	0.06	4.64	0.53	14.20	49.2	62	1.68	91.7	7.65
1386		1.99	0.09	7.04	2.5	140	0.47	0.06	5.95	0.88	13.20	59.5	53	1.63	111.5	7.50
1387		2.03	0.13	6.65	38.8	70	0.91	0.89	6.84	0.06	13.45	57.8	50	1.44	87.7	6.58
1388		1.17	0.16	6.29	10.2	100	0.43	0.05	6.80	6.66	10.85	58.9	47	0.77	86.6	7.60

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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1381		19.25	0.13	3.3	0.061	0.69	18.3	6.7	3.69	949	2.82	2.19	22.5	>10000	1450	17.4
1382		17.05	0.08	1.4	0.072	1.72	6.1	34.2	3.91	1090	0.30	2.30	2.4	105.5	330	5.3
1383		14.25	0.08	1.2	0.202	1.15	11.1	32.6	2.54	2160	150.0	1.92	2.1	117.5	220	24.5
1384		15.65	0.13	1.4	0.052	1.57	6.1	52.8	4.27	1160	0.41	1.85	2.3	111.5	250	8.7
1385		15.50	0.13	1.4	0.045	0.89	5.9	59.2	5.37	1350	0.51	2.54	2.3	148.5	240	89.3
1386		16.00	0.08	1.4	0.052	1.54	5.8	39.8	4.81	1320	0.32	1.53	2.4	177.0	250	145.5
1387		15.80	0.08	1.3	0.076	0.95	6.2	55.1	3.33	1040	4.10	2.19	2.3	169.0	250	14.5
1388		14.20	0.06	1.2	0.047	0.93	4.8	44.6	5.52	1260	0.32	1.49	2.0	212	220	325



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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
1381		21.6	<0.002	2.62	1.94	21.1	1	1.3	407	1.18	<0.05	2.39	0.986	0.08	0.6	141
1382		65.9	<0.002	0.08	0.25	32.9	1	0.7	148.0	0.16	<0.05	1.17	0.371	0.37	0.5	197
1383		56.6	0.028	0.10	0.52	32.5	2	0.5	124.0	0.14	0.06	1.20	0.320	0.78	2.3	174
1384		69.6	0.002	0.07	0.27	33.0	1	0.6	142.5	0.17	<0.05	1.40	0.391	0.27	0.4	197
1385		39.5	0.002	0.07	0.35	32.4	1	0.6	131.5	0.16	<0.05	1.34	0.379	0.14	0.4	191
1386		67.7	<0.002	0.08	0.31	26.0	1	0.5	158.0	0.17	<0.05	1.31	0.368	0.27	0.4	185
1387		44.2	0.002	0.06	0.22	28.6	1	0.6	104.0	0.16	<0.05	1.28	0.363	0.19	0.6	186
1388		43.0	<0.002	0.09	0.29	23.0	1	0.4	122.5	0.14	<0.05	1.04	0.340	0.20	0.4	173

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**CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
1381		1.6	21.6	125	142.5	1.960		2.15		
1382		0.3	14.2	96	53.3					
1383		0.3	30.0	50	46.6					
1384		0.2	13.8	80	52.6					
1385		0.2	13.5	288	52.6					
1386		0.3	14.4	356	54.9					
1387		0.4	14.2	74	50.8					
1388		0.2	12.4	888	46.6					



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Project: Shining Tree

<b>CERTIFICATE OF ANALYSIS SD21046863</b>
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	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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**QC CERTIFICATE SD21046863**

Project: Shining Tree  
 P.O. No.: STR21002  
 This report is for 88 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26-FEB-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		66.6	4.69	593	400	1.79	6.08	1.90	21.8	48.8	762	56	7.91	8500	4.87	13.25
EMOG-17		66.9	4.44	584	440	2.04	5.36	1.97	20.3	46.7	735	54	7.30	8180	4.82	12.00
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.49	7.20	34.8	1120	3.45	0.65	2.78	2.32	67.2	20.7	98	12.90	638	4.04	19.90
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 905		0.53	7.49	37.7	2810	2.80	6.11	0.59	0.36	95.7	15.7	20	7.11	1530	4.02	27.6
OREAS 905		0.56	7.38	38.0	2800	3.30	5.82	0.61	0.34	97.2	15.9	21	7.14	1505	4.09	26.4
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.09	7.63	5.8	550	2.78	0.70	0.48	0.05	92.4	16.7	82	9.12	111.0	3.94	21.5
OREAS 920		0.10	7.69	5.6	550	2.63	1.30	0.52	0.09	103.0	28.8	81	9.28	109.0	4.09	22.7
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.17	2.0	0.987	1.68	24.5	28.5	0.95	742	1075	1.12	15.4	7850	820	7460	116.5
EMOG-17		0.12	1.8	0.918	1.67	24.3	26.1	0.95	741	1070	1.08	15.0	7280	810	7430	115.0
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.21	3.2	0.190	3.11	31.4	31.8	1.33	581	14.80	1.93	21.8	720	1110	1155	185.0
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 905		0.26	7.2	0.656	2.93	47.0	21.6	0.27	371	3.39	2.44	19.4	9.9	270	31.1	143.5
OREAS 905		0.22	6.9	0.704	2.87	48.6	20.7	0.26	371	3.14	2.36	19.0	10.5	280	31.4	146.0
Target Range – Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.24	5.1	0.085	2.86	44.7	32.3	1.30	583	0.41	0.63	18.1	40.4	740	23.8	170.5
OREAS 920		0.21	4.4	0.095	2.98	49.3	29.5	1.35	592	0.41	0.64	18.6	54.3	740	24.3	192.0
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																





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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.331	3.33	829	8.7	7	2.8	212	0.98	1.36	11.55	0.325	2.29	3.4	73	4.2
EMOG-17		0.308	3.22	796	7.8	8	2.6	199.5	0.91	1.37	10.80	0.316	2.06	3.0	71	3.7
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.007	0.32	4.68	12.2	2	4.3	303	1.50	<0.05	17.65	0.510	1.07	5.1	113	5.0
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 905		<0.002	0.07	2.15	5.5	3	4.1	163.0	1.44	0.07	15.85	0.122	0.74	5.3	10	2.9
OREAS 905		<0.002	0.07	1.99	5.3	3	4.3	160.5	1.32	0.09	15.80	0.122	0.77	5.0	10	2.8
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.51	14.5	<1	4.9	81.9	1.41	<0.05	19.55	0.471	0.91	3.9	94	3.4
OREAS 920		0.010	0.03	1.53	15.1	1	4.9	85.1	1.31	0.10	19.80	0.468	0.86	3.7	95	3.0
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Cu-OG62 Cu %	Ni-OG62 Ni %
		0.1	2	0.5	0.0005	0.001	0.001
<b>STANDARDS</b>							
AMIS0160					3.12	2.02	0.003
Target Range – Lower Bound					2.99	1.970	<0.001
Upper Bound					3.21	2.11	0.005
EMOG-17		16.7	7540	69.4			
EMOG-17		16.7	7530	65.4			
Target Range – Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
EMOG-17					0.0738	0.811	0.741
Target Range – Lower Bound					0.0730	0.803	0.730
Upper Bound					0.0794	0.863	0.785
MP-1b					0.0007	3.03	<0.001
Target Range – Lower Bound					<0.0005	2.96	<0.001
Upper Bound					0.0014	3.18	0.002
MRGeo08		25.7	851	109.0			
Target Range – Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 905		16.8	140	266			
OREAS 905		16.8	142	262			
Target Range – Lower Bound		14.0	122	214			
Upper Bound		17.4	154	290			
OREAS 920		32.7	115	160.5			
OREAS 920		35.0	119	162.5			
Target Range – Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS 932					0.0061	6.04	0.004
Target Range – Lower Bound						5.91	
Upper Bound						6.35	
OREAS-133a					0.0016	0.031	0.002
Target Range – Lower Bound					0.0010	0.030	<0.001
Upper Bound					0.0030	0.034	0.004
OREAS-74a					0.0544	0.116	3.02
Target Range – Lower Bound							3.03
Upper Bound							3.25



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>BLANKS</b>																
BLANK		<0.01	<0.01	0.3	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	0.4	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2	<0.01	0.08
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		1.61	8.16	509	870	0.44	0.81	0.08	0.59	38.1	3.1	8	0.07	2300	2.49	6.50
DUP		1.50	7.74	474	850	0.41	0.73	0.07	0.53	36.6	2.8	7	0.07	2140	2.37	6.23
Target Range – Lower Bound		1.47	7.54	467	790	0.35	0.72	0.06	0.51	35.5	2.7	6	<0.05	2140	2.30	6.00
Upper Bound		1.64	8.36	516	930	0.50	0.82	0.09	0.61	39.2	3.2	9	0.10	2300	2.56	6.73
1307		0.08	4.16	1.3	60	0.62	0.11	19.10	<0.02	54.0	7.5	3	0.21	409	2.19	12.05
DUP		0.08	4.21	1.5	60	0.60	0.10	19.40	<0.02	53.4	7.4	4	0.21	415	2.23	12.00
Target Range – Lower Bound		0.07	3.97	1.1	50	0.53	0.09	18.30	<0.02	51.0	7.0	2	0.15	397	2.09	11.35
Upper Bound		0.09	4.40	1.7	70	0.69	0.12	20.2	0.04	56.4	7.9	5	0.27	427	2.33	12.70
1343		0.17	7.61	3.8	170	0.49	0.11	5.40	0.05	17.85	45.7	65	1.42	153.5	7.51	18.40
DUP		0.17	7.42	3.8	160	0.49	0.10	5.29	0.06	17.35	44.0	63	1.37	149.5	7.31	17.70
Target Range – Lower Bound		0.15	7.13	3.4	140	0.42	0.09	5.07	0.03	16.70	42.5	60	1.28	146.0	7.03	17.10
Upper Bound		0.19	7.90	4.2	190	0.56	0.12	5.62	0.08	18.50	47.2	68	1.51	157.0	7.79	19.00
1379		0.06	4.71	34.9	90	0.86	0.39	17.60	0.06	19.80	41.3	56	1.08	55.2	4.06	11.35
DUP		0.06	4.67	32.0	90	0.76	0.39	17.45	0.07	20.3	37.7	47	1.12	51.1	4.03	10.50
Target Range – Lower Bound		0.05	4.45	31.6	70	0.72	0.36	16.65	0.04	19.05	37.4	48	1.00	51.1	3.83	10.35
Upper Bound		0.07	4.93	35.3	110	0.90	0.42	18.40	0.09	21.1	41.6	55	1.21	55.2	4.26	11.50



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>BLANKS</b>																
BLANK		0.09	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		<0.05	0.4	0.081	0.08	19.7	116.5	0.02	55	3.67	0.01	6.5	2.0	750	557	1.9
DUP		0.09	0.4	0.076	0.08	19.1	106.0	0.02	52	3.35	0.01	6.0	1.8	730	528	1.8
Target Range – Lower Bound		<0.05	0.3	0.070	0.07	17.9	105.5	<0.01	46	3.28	<0.01	5.8	1.6	690	515	1.7
Upper Bound		0.10	0.5	0.087	0.09	20.9	117.0	0.03	61	3.74	0.02	6.7	2.2	790	570	2.0
1307		0.14	2.1	0.453	0.52	22.4	16.6	0.43	2870	0.20	2.16	2.9	22.7	360	4.8	25.0
DUP		0.15	2.1	0.449	0.53	22.6	16.7	0.43	2880	0.25	2.19	2.9	22.8	360	4.9	24.6
Target Range – Lower Bound		0.09	1.9	0.423	0.49	20.9	15.6	0.40	2730	0.16	2.06	2.7	21.4	330	4.1	23.5
Upper Bound		0.20	2.3	0.479	0.56	24.1	17.7	0.46	3020	0.29	2.29	3.1	24.1	390	5.6	26.1
1343		0.12	1.7	0.061	2.16	8.3	33.7	4.10	1260	0.46	1.86	3.2	102.0	300	12.0	105.0
DUP		0.13	1.6	0.057	2.14	7.9	32.9	4.00	1220	0.43	1.82	3.1	98.5	300	11.4	101.5
Target Range – Lower Bound		0.07	1.5	0.051	2.03	7.2	31.4	3.84	1175	0.37	1.74	2.9	95.0	280	10.6	98.0
Upper Bound		0.18	1.8	0.067	2.27	9.0	35.2	4.26	1305	0.52	1.94	3.4	105.5	330	12.8	108.5
1379		0.07	0.8	0.193	0.83	9.0	33.9	1.73	1940	1.42	1.55	1.4	69.2	140	19.3	43.4
DUP		0.06	0.8	0.201	0.83	9.3	33.1	1.70	1940	1.39	1.54	1.3	65.0	130	19.1	41.6
Target Range – Lower Bound		<0.05	0.7	0.182	0.78	8.2	31.6	1.62	1840	1.28	1.46	1.2	63.5	120	17.7	40.3
Upper Bound		0.10	0.9	0.212	0.88	10.1	35.4	1.81	2040	1.53	1.63	1.5	70.7	150	20.7	44.7



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	0.07	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		0.003	3.23	14.35	2.5	1	3.0	1155	0.42	2.62	5.40	0.207	0.09	0.8	51	13.6
DUP		0.004	3.06	13.45	2.4	2	2.7	1090	0.39	2.51	5.06	0.193	0.07	0.8	48	12.8
Target Range – Lower Bound		<0.002	2.98	12.80	2.2	<1	2.5	1065	0.33	2.39	4.96	0.185	0.05	0.7	46	12.1
Upper Bound		0.004	3.31	15.00	2.7	2	3.2	1180	0.48	2.74	5.50	0.215	0.11	0.9	53	14.3
1307		<0.002	0.05	0.12	25.1	1	0.5	98.5	0.23	<0.05	2.56	0.365	0.11	1.0	126	0.4
DUP		<0.002	0.05	0.12	24.7	<1	0.5	98.8	0.22	<0.05	2.61	0.372	0.11	1.0	127	0.4
Target Range – Lower Bound		<0.002	0.04	0.06	23.6	<1	0.3	93.5	0.16	<0.05	2.45	0.345	0.08	0.9	119	0.3
Upper Bound		0.004	0.06	0.18	26.2	2	0.7	104.0	0.29	0.10	2.72	0.392	0.14	1.2	134	0.5
1343		<0.002	0.07	0.32	32.8	1	0.8	179.0	0.22	<0.05	1.98	0.439	0.44	0.6	209	0.4
DUP		<0.002	0.07	0.31	31.4	1	0.8	175.5	0.22	<0.05	1.89	0.422	0.44	0.6	203	0.4
Target Range – Lower Bound		<0.002	0.06	0.24	30.4	<1	0.6	168.0	0.16	<0.05	1.83	0.404	0.39	0.5	195	0.3
Upper Bound		0.004	0.08	0.39	33.8	2	1.0	186.5	0.28	0.10	2.04	0.457	0.49	0.7	217	0.5
1379		<0.002	0.05	0.19	29.5	1	0.6	111.5	0.09	<0.05	0.77	0.220	0.18	0.4	120	0.4
DUP		<0.002	0.05	0.19	25.4	1	0.6	108.5	0.10	<0.05	0.74	0.220	0.18	0.3	118	0.3
Target Range – Lower Bound		<0.002	0.04	0.13	26.0	<1	0.4	104.5	<0.05	<0.05	0.71	0.204	0.15	0.2	112	0.2
Upper Bound		0.004	0.06	0.25	28.9	2	0.8	115.5	0.10	0.10	0.80	0.236	0.21	0.5	126	0.5



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>BLANKS</b>							
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK					<0.0005	<0.001	<0.001
Target Range – Lower Bound					<0.0005	<0.001	<0.001
Upper Bound					0.0010	0.002	0.002
<b>DUPLICATES</b>							
ORIGINAL		2.2	230	14.8			
DUP		2.1	214	13.2			
Target Range – Lower Bound		1.9	209	12.5			
Upper Bound		2.4	235	15.6			
1307		66.3	11	76.3			
DUP		65.1	11	74.8			
Target Range – Lower Bound		62.3	8	69.4			
Upper Bound		69.1	14	81.7			
1343		15.3	75	61.5			
DUP		14.7	73	61.1			
Target Range – Lower Bound		14.2	68	56.2			
Upper Bound		15.9	80	66.4			
1379		26.2	47	31.3			
DUP		25.0	46	29.8			
Target Range – Lower Bound		24.2	42	27.8			
Upper Bound		27.0	51	33.3			



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05
<b>PREP DUPLICATES</b>																
1357		0.23	7.07	34.1	120	0.77	0.27	4.81	0.70	13.40	45.5	151	2.27	272	7.79	16.35
1357 PREP DUP		0.22	6.81	39.1	120	0.82	0.29	4.85	0.72	14.25	43.5	138	2.17	252	7.73	15.40

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



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
<b>PREP DUPLICATES</b>																
1357		0.13	1.4	0.089	0.94	6.1	92.2	4.91	1240	0.43	1.97	2.5	115.0	260	368	45.3
1357 PREP DUP		0.12	1.3	0.089	0.97	6.0	83.1	4.88	1200	0.38	1.97	2.4	110.0	250	379	43.3

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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
		<b>PREP DUPLICATES</b>														
1357		<0.002	0.07	0.26	27.7	1	0.7	112.5	0.18	0.05	1.59	0.345	0.21	0.6	175	0.3
1357 PREP DUP		<0.002	0.07	0.25	28.4	1	0.6	114.0	0.17	<0.05	1.42	0.334	0.19	0.5	166	0.2



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**QC CERTIFICATE OF ANALYSIS SD21046863**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>PREP DUPLICATES</b>							
1357		12.1	334	50.8			
1357 PREP DUP		12.9	347	51.2			





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**CERTIFICATE SD21046865**

Project: Shining Tree  
 P.O. No.: STR21003  
 This report is for 46 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26-FEB-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree

**CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
1389		2.05	0.48	6.07	17.0	30	1.16	0.94	4.58	0.07	33.5	56.0	1	0.56	350	9.37
1390		2.00	0.24	6.48	10.7	80	1.01	0.44	2.92	0.02	31.3	68.4	<1	0.48	68.9	12.30
1391		2.99	0.64	6.47	9.8	90	0.97	3.01	4.41	0.06	32.5	51.5	<1	0.69	197.0	10.75
1392		1.83	0.17	6.46	10.1	150	0.82	0.09	4.16	0.18	32.0	51.0	1	1.35	40.8	11.65
1393		2.61	1.92	6.81	6.9	130	1.02	3.12	3.04	1.21	31.8	41.6	12	0.60	28.4	11.30
1394		1.64	0.22	6.97	12.1	150	0.89	0.09	2.87	1.73	29.8	46.9	16	1.56	39.8	11.10
1395		1.68	0.28	7.56	20.0	140	0.91	0.31	5.13	0.45	30.5	43.1	4	0.86	248	8.39
1396		2.04	0.19	7.51	8.4	150	0.89	0.05	3.50	0.23	28.9	39.2	3	0.84	39.2	8.76
1397		1.94	0.35	7.65	12.3	210	1.01	0.80	4.12	0.07	28.1	41.1	3	0.77	108.0	8.30
1398		1.59	0.14	7.73	8.2	200	0.91	0.12	4.00	0.11	34.4	42.3	4	0.69	38.7	9.40
1399		0.76	0.49	7.05	70.9	120	1.01	1.02	6.57	0.05	37.0	78.1	2	0.67	249	7.19
1400		0.94	0.35	7.14	81.6	120	1.04	0.88	6.63	0.05	35.9	78.7	3	0.65	219	6.94
1401		<0.02	0.78	7.14	2.4	260	0.97	0.06	5.36	0.77	38.6	>10000	163	0.68	1830	7.04
1402		1.70	0.13	7.35	7.1	170	0.82	0.07	3.68	0.08	34.0	58.4	2	0.60	58.8	9.21
1403		2.06	0.27	7.31	10.8	170	0.87	0.14	3.85	0.28	32.4	50.5	2	0.99	97.6	9.43
1404		2.14	0.65	7.34	12.1	160	0.87	1.17	4.52	0.46	36.2	42.8	3	0.82	47.0	8.86
1405		0.94	1.35	7.50	7.6	150	0.88	2.35	4.25	0.21	35.5	41.9	3	0.42	177.0	8.79
1406		1.75	0.49	6.35	40.7	150	0.91	1.11	6.90	0.03	42.7	55.5	3	0.75	133.0	7.21
1407		1.87	0.16	6.42	6.8	130	1.10	0.16	4.37	0.02	28.9	36.5	4	1.06	183.0	7.81
1408		1.68	0.40	7.21	6.6	140	0.69	0.61	4.21	0.05	24.4	43.3	5	0.54	122.5	8.87
1409		1.92	0.21	7.05	8.4	150	0.64	0.19	4.50	0.03	23.6	43.8	5	0.55	153.5	8.33
1410		1.02	0.39	6.71	285	200	1.15	1.72	7.76	0.05	32.0	215	5	1.14	86.1	6.45
1411		2.51	0.16	7.29	10.6	170	0.75	0.05	3.93	0.08	22.1	50.5	5	0.87	109.0	8.19
1412		1.26	0.41	7.06	93.7	220	1.01	0.54	6.84	0.18	23.2	78.2	22	1.75	221	6.63
1413		2.00	0.25	7.28	15.0	210	0.88	0.17	5.95	0.21	23.6	54.4	28	1.98	140.0	7.79
1414		2.02	0.32	7.15	15.6	120	1.04	0.11	6.04	0.07	26.5	50.4	35	2.16	260	7.88
1415		2.13	0.22	6.92	8.6	140	0.73	0.12	5.65	0.16	19.20	48.3	37	1.85	138.5	6.74
1416		2.02	0.15	7.36	9.5	170	0.75	0.11	6.10	0.09	19.10	46.8	40	1.48	133.5	6.72
1417		1.89	0.12	7.23	3.2	160	0.79	0.06	6.17	0.11	19.65	43.9	40	1.61	139.5	6.49
1418		2.15	0.12	6.84	3.2	140	0.64	0.07	4.81	0.29	17.70	49.8	46	1.80	139.5	7.08
1419		0.78	0.12	7.15	3.6	180	0.55	0.04	5.44	0.12	18.40	50.5	46	1.64	144.5	7.05
1420		1.07	0.12	7.00	3.9	180	0.52	0.04	5.48	0.12	16.95	50.9	48	1.58	144.5	7.18
1421		<0.02	0.81	6.66	3.3	240	1.15	0.05	5.07	0.67	36.8	>10000	155	0.68	1700	6.65
1422		1.94	0.18	7.32	14.6	140	0.96	0.13	5.62	0.19	17.75	59.5	47	2.55	199.0	7.25
1423		1.92	0.20	7.15	12.6	170	0.99	0.07	6.69	0.53	18.75	49.3	45	2.77	213	6.66
1424		1.97	0.20	7.31	34.5	110	1.91	1.34	9.15	0.02	27.3	49.5	48	1.41	112.0	4.86
1425		0.51	0.01	0.08	<0.2	10	0.06	0.01	31.3	<0.02	0.98	1.4	1	<0.05	3.3	0.14
1426		1.03	0.15	7.36	4.6	120	1.10	0.18	7.65	0.06	29.1	39.6	49	1.84	947	6.73
1427		0.84	0.11	7.33	25.8	130	1.12	0.19	6.94	0.07	31.1	48.7	52	2.07	336	6.65
1428		1.63	0.11	7.90	2.2	210	0.51	0.04	6.14	0.09	17.25	48.2	63	1.54	148.5	7.52



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**CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
1389		25.2	0.10	3.3	0.108	0.24	14.7	39.5	2.30	1280	0.93	2.81	6.8	28.1	570	44.8
1390		24.1	0.09	3.3	0.106	0.59	14.8	16.8	2.34	1880	0.71	3.34	6.2	29.8	580	15.0
1391		23.7	0.10	3.1	0.107	0.63	14.4	23.0	2.37	1680	1.08	3.13	5.7	34.2	580	44.2
1392		22.5	0.10	3.2	0.116	1.08	14.5	15.7	2.18	1900	0.57	2.98	5.4	36.5	530	12.5
1393		24.3	0.09	3.1	0.166	0.84	13.8	28.6	2.48	1880	1.38	3.40	5.9	46.8	510	389
1394		24.5	0.09	2.8	0.101	0.93	14.2	25.4	2.29	2060	0.56	3.27	5.3	47.8	500	402
1395		22.0	0.09	3.0	0.138	1.14	13.3	22.2	2.18	1660	0.69	3.54	4.8	26.3	630	106.5
1396		23.0	0.10	2.7	0.107	1.22	13.6	24.7	2.38	1380	0.51	3.34	4.7	26.9	500	183.5
1397		23.5	0.10	2.8	0.136	1.27	12.4	32.0	2.10	1160	4.15	3.39	5.0	29.8	510	33.2
1398		24.2	0.09	2.7	0.107	1.45	16.7	22.5	2.07	1340	0.63	3.26	5.0	29.2	530	25.5
1399		22.7	0.09	2.8	0.132	0.81	17.2	37.9	1.84	1170	3.44	3.19	5.1	38.1	530	15.4
1400		23.1	0.09	2.9	0.127	0.80	16.6	38.3	1.80	1190	3.79	3.23	5.1	41.3	540	15.1
1401		20.2	0.12	3.1	0.063	0.66	19.3	6.2	3.60	939	2.77	2.13	23.0	>10000	1380	16.7
1402		23.5	0.10	2.9	0.091	1.27	16.0	16.1	1.98	1340	0.53	3.37	5.3	43.6	550	11.5
1403		22.6	0.09	3.1	0.117	1.22	15.5	16.8	2.06	1500	0.69	3.52	5.5	30.4	550	80.2
1404		23.3	0.11	3.6	0.177	1.25	16.6	15.9	2.03	1400	0.98	3.28	5.7	28.8	540	122.5
1405		23.4	0.10	3.1	0.117	1.23	16.2	16.0	1.90	1240	0.64	3.50	5.4	31.4	520	148.5
1406		20.8	0.10	3.4	0.220	1.10	19.9	25.6	1.56	1480	6.78	2.58	5.0	35.9	510	23.4
1407		21.5	0.09	4.0	0.103	0.99	13.2	30.6	2.16	978	0.56	2.41	5.2	34.4	350	12.1
1408		20.6	0.09	2.2	0.082	1.65	11.5	19.1	2.50	1240	0.53	2.44	3.5	45.0	420	19.7
1409		20.9	0.09	2.3	0.068	1.67	10.9	20.3	2.49	1330	0.63	2.34	3.9	48.6	410	8.8
1410		17.65	0.15	2.2	0.162	1.45	15.4	36.8	1.96	1430	11.10	2.19	4.0	68.6	370	19.0
1411		19.60	0.13	2.3	0.067	1.54	10.1	35.0	2.67	1480	0.75	2.39	4.1	48.0	410	164.5
1412		17.10	0.10	1.8	0.111	1.64	11.1	49.9	2.41	1300	0.61	2.00	3.2	76.1	360	61.9
1413		17.20	0.12	1.9	0.096	1.79	11.2	34.7	3.25	1460	0.52	2.03	3.3	86.2	320	32.2
1414		16.50	0.13	1.6	0.094	1.64	11.7	52.9	3.78	1560	0.49	1.79	3.0	93.1	370	33.7
1415		16.85	0.12	1.7	0.080	1.87	8.9	35.6	3.19	1300	0.39	1.80	3.1	92.7	280	10.4
1416		16.45	0.12	1.7	0.077	2.01	9.1	32.6	3.23	1320	0.69	1.86	3.0	91.3	300	5.9
1417		16.35	0.13	1.6	0.071	1.98	9.1	35.7	3.16	1280	0.39	1.77	3.0	92.6	300	6.8
1418		16.50	0.11	1.7	0.060	1.77	8.2	38.9	3.67	1280	0.34	1.88	3.1	97.7	300	39.6
1419		17.05	0.11	1.7	0.051	2.05	8.7	34.8	3.62	1340	0.46	1.61	3.1	100.0	310	13.4
1420		17.15	0.13	1.6	0.054	2.09	7.8	36.8	3.66	1370	0.40	1.63	3.0	102.5	300	13.2
1421		19.00	0.20	3.0	0.061	0.61	18.3	7.6	3.44	892	2.55	2.00	22.5	>10000	1320	15.4
1422		16.55	0.12	1.6	0.072	1.64	8.4	63.3	3.77	1680	0.38	1.83	2.9	118.5	290	213
1423		16.45	0.12	1.6	0.074	1.49	9.2	61.2	3.34	1500	0.41	1.59	2.9	103.5	280	253
1424		16.90	0.11	1.6	0.164	1.29	13.2	59.7	1.79	1800	6.86	2.45	2.8	82.2	270	9.8
1425		0.28	0.06	<0.1	<0.005	0.01	1.1	1.4	1.44	131	0.07	0.03	0.1	0.7	60	1.1
1426		16.60	0.09	1.5	0.132	1.54	13.4	49.8	3.58	1850	0.77	1.83	2.8	92.5	270	6.4
1427		16.45	0.11	1.6	0.090	1.60	14.1	51.3	3.27	1600	0.81	1.71	2.8	93.4	540	12.9
1428		16.50	0.09	1.6	0.055	2.00	8.1	26.3	3.98	1370	0.36	1.71	2.9	106.0	290	7.8



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**CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1389		8.1	0.002	0.14	0.25	37.3	1	1.7	51.9	0.43	<0.05	3.58	1.015	0.05	1.4	554
1390		26.4	0.003	0.19	0.25	38.6	1	1.5	78.3	0.43	<0.05	3.64	1.100	0.11	1.3	630
1391		28.2	0.004	0.15	0.25	37.1	1	1.4	89.0	0.41	<0.05	3.51	1.025	0.12	1.4	548
1392		50.6	0.002	0.16	0.32	38.0	1	1.1	147.0	0.38	<0.05	3.52	0.979	0.24	1.2	589
1393		41.9	0.002	0.09	0.41	33.1	1	1.8	125.0	0.41	<0.05	3.53	1.110	0.14	1.6	784
1394		48.9	0.002	0.15	0.34	30.9	1	1.4	133.5	0.37	<0.05	3.12	1.020	0.18	1.3	733
1395		50.4	0.003	0.12	0.34	29.2	1	0.7	123.5	0.33	<0.05	3.48	0.706	0.16	1.5	292
1396		53.3	0.002	0.14	0.35	30.5	1	0.7	144.0	0.33	<0.05	3.07	0.665	0.22	1.2	274
1397		58.7	0.002	0.07	0.28	29.7	<1	0.8	138.5	0.34	<0.05	3.15	0.670	0.19	1.5	278
1398		70.1	0.002	0.07	0.39	32.5	1	0.9	167.5	0.34	<0.05	3.11	0.682	0.24	1.2	281
1399		37.2	0.002	0.12	0.20	30.0	1	0.9	101.5	0.36	<0.05	3.18	0.694	0.13	1.2	279
1400		37.9	0.003	0.12	0.20	29.9	1	0.8	101.5	0.36	<0.05	3.36	0.668	0.13	1.2	273
1401		21.3	<0.002	2.57	1.97	18.7	1	1.4	395	1.13	<0.05	2.37	0.974	0.09	0.6	141
1402		54.7	0.002	0.12	0.23	30.5	1	0.8	148.5	0.38	<0.05	3.35	0.702	0.20	1.2	277
1403		55.2	0.003	0.17	0.37	31.2	1	0.8	149.5	0.40	<0.05	3.71	0.747	0.22	1.4	290
1404		61.5	0.003	0.15	0.51	32.2	1	0.8	151.0	0.42	<0.05	4.23	0.715	0.21	2.3	278
1405		59.1	0.002	0.17	0.44	30.5	1	0.9	151.0	0.38	<0.05	3.82	0.684	0.23	1.4	267
1406		57.1	0.003	0.14	0.28	24.6	1	1.1	126.5	0.39	<0.05	4.15	0.488	0.18	1.9	183
1407		49.5	0.002	0.14	0.32	24.6	1	1.0	98.5	0.42	<0.05	4.56	0.449	0.14	1.8	186
1408		70.7	<0.002	0.13	0.46	30.0	1	0.9	128.5	0.26	<0.05	2.32	0.522	0.22	0.8	235
1409		62.9	<0.002	0.11	0.38	29.5	1	0.8	131.5	0.28	<0.05	2.33	0.543	0.29	0.8	233
1410		68.8	0.003	0.15	0.91	30.3	1	0.7	132.0	0.26	<0.05	2.45	0.513	0.26	1.0	212
1411		60.4	0.002	0.10	0.42	30.3	1	0.6	151.0	0.28	<0.05	2.29	0.555	0.31	0.7	227
1412		87.1	0.002	0.11	0.45	31.0	1	0.8	171.0	0.22	<0.05	1.96	0.451	0.39	0.6	210
1413		92.2	0.002	0.09	0.33	33.2	1	0.8	185.5	0.23	<0.05	2.01	0.468	0.38	0.7	221
1414		81.6	0.002	0.11	0.33	32.2	1	0.7	127.0	0.19	<0.05	1.79	0.436	0.29	0.6	212
1415		87.9	<0.002	0.08	0.39	32.3	1	0.7	151.5	0.21	<0.05	1.89	0.419	0.38	0.6	201
1416		88.1	0.002	0.06	0.26	32.4	1	0.7	158.5	0.20	<0.05	1.86	0.432	0.32	0.6	212
1417		96.7	<0.002	0.07	0.28	31.7	1	0.7	156.0	0.20	<0.05	1.83	0.422	0.35	0.6	205
1418		82.1	<0.002	0.09	0.37	32.6	1	0.7	146.0	0.22	<0.05	1.85	0.410	0.33	0.6	200
1419		95.5	0.002	0.07	0.39	33.4	1	0.7	167.0	0.20	<0.05	1.84	0.418	0.36	0.6	205
1420		72.4	<0.002	0.08	0.41	32.5	1	0.7	170.0	0.20	<0.05	1.68	0.423	0.36	0.5	207
1421		20.7	<0.002	2.40	1.80	20.3	1	1.3	372	1.06	<0.05	2.35	0.905	0.08	0.6	133
1422		69.8	<0.002	0.09	0.44	32.0	<1	0.7	140.0	0.20	<0.05	1.76	0.419	0.29	0.6	206
1423		73.5	<0.002	0.07	0.42	32.6	1	0.7	147.0	0.19	<0.05	1.87	0.400	0.28	0.5	198
1424		58.6	0.002	0.08	0.27	31.6	1	0.7	113.0	0.20	<0.05	1.81	0.401	0.25	0.7	205
1425		0.5	<0.002	0.01	0.06	0.3	1	<0.2	77.7	<0.05	<0.05	0.07	0.006	<0.02	0.1	2
1426		78.2	<0.002	0.17	0.29	31.3	1	0.7	115.5	0.19	<0.05	1.73	0.401	0.26	0.6	200
1427		77.4	<0.002	0.11	0.35	30.5	1	0.7	137.0	0.19	<0.05	1.89	0.403	0.29	0.6	204
1428		71.3	0.002	0.08	0.23	31.7	1	0.7	179.0	0.20	<0.05	1.79	0.426	0.34	0.5	212



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**CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Ni-OG62	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Co	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%
		0.1	0.1	2	0.5	0.0005	0.001	0.01	0.01
1389		0.5	28.6	159	122.0			78.9	92.5
1390		0.4	27.0	132	123.5				98.2
1391		0.4	28.2	149	116.0				
1392		0.3	27.1	127	117.0				
1393		0.3	25.8	353	119.5				
1394		0.4	22.9	550	104.5				
1395		0.3	25.3	203	115.5				
1396		0.3	24.2	155	102.0			82.3	
1397		0.3	24.5	113	106.0				
1398		0.3	26.1	110	105.0				
1399		0.4	27.4	90	109.5				
1400		0.4	28.1	87	111.0				
1401		1.6	21.3	125	136.5	2.06	2.23		
1402		0.3	26.5	108	112.0				
1403		0.3	26.8	144	121.0				
1404		0.3	29.1	155	135.0				
1405		0.3	26.3	124	120.5				
1406		0.4	35.1	48	128.0				
1407		0.3	24.7	76	149.5				
1408		0.3	21.0	91	83.5				
1409		0.3	19.9	83	84.1				
1410		0.3	29.7	64	85.5				
1411		0.3	20.4	110	88.5				
1412		0.4	19.9	119	68.9				
1413		0.4	20.6	115	71.6				
1414		0.3	19.6	74	63.1				
1415		0.4	16.5	96	68.2				
1416		0.3	17.0	74	67.1				
1417		0.3	17.3	85	66.3				
1418		0.3	15.9	145	65.8				
1419		0.3	15.6	89	65.4				
1420		0.3	15.0	93	64.4				
1421		1.5	20.9	118	137.0	2.06	2.23		
1422		0.3	15.8	149	63.6				
1423		0.3	16.1	245	64.5				
1424		0.5	25.4	45	64.1				
1425		<0.1	1.9	3	1.6				
1426		0.4	21.2	63	61.7				
1427		0.3	22.7	68	61.3				92.0
1428		0.3	14.8	86	62.8			72.8	91.4





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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1429		1.26	0.15	7.01	38.5	160	0.99	0.27	7.93	0.12	21.0	55.0	54	1.91	180.0	5.86
1430		1.72	0.10	7.37	3.7	190	0.49	0.04	5.97	0.14	16.95	46.7	65	1.52	145.5	6.71
1431		1.35	0.16	7.01	11.3	140	0.99	0.11	5.10	0.32	15.05	48.7	83	2.05	236	7.02
1432		2.52	0.09	7.53	38.3	140	0.88	0.23	6.13	0.07	15.15	59.1	94	1.52	187.5	7.03
1433		2.30	0.11	7.73	160.5	90	0.92	0.51	6.45	0.04	17.95	123.5	97	1.83	314	6.92
1434		3.13	0.10	7.79	1.7	160	0.62	0.06	6.13	0.10	16.70	50.8	107	1.20	155.0	7.28



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**CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
1429		15.65	0.10	1.6	0.106	1.57	10.3	32.5	2.95	1540	0.92	1.51	2.7	95.7	240	21.9
1430		16.80	0.11	1.6	0.050	2.04	7.8	30.1	3.56	1200	0.39	1.60	2.9	101.0	260	16.9
1431		17.75	0.09	1.5	0.072	1.54	6.4	54.6	3.86	1200	0.69	1.88	2.8	108.0	230	364
1432		17.15	0.10	1.5	0.070	1.81	6.7	44.7	3.52	1190	0.98	1.77	2.6	110.5	270	5.3
1433		16.95	0.11	1.4	0.087	1.37	8.2	64.6	3.42	1240	2.12	2.37	2.5	120.5	260	10.3
1434		17.15	0.10	1.5	0.053	2.03	7.7	32.1	3.88	1220	0.38	1.73	2.9	117.0	300	8.2

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



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm 0.1	Re ppm 0.002	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 1	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.05	Te ppm 0.05	Th ppm 0.01	Ti % 0.005	Tl ppm 0.02	U ppm 0.1	V ppm 1
1429		75.3	<0.002	0.07	0.31	30.7	1	0.7	154.5	0.19	<0.05	1.80	0.373	0.30	0.6	183
1430		80.4	0.002	0.07	0.23	32.4	1	0.6	166.5	0.19	<0.05	1.73	0.405	0.34	0.5	205
1431		45.8	0.002	0.09	0.33	28.7	1	1.1	128.5	0.18	<0.05	1.37	0.365	0.30	0.6	191
1432		59.7	<0.002	0.08	0.26	30.7	1	0.6	135.0	0.18	<0.05	1.46	0.368	0.35	0.5	195
1433		61.4	<0.002	0.09	0.30	31.3	1	0.6	108.0	0.16	0.05	1.56	0.371	0.26	0.5	194
1434		70.7	0.002	0.13	0.27	30.4	1	0.7	156.0	0.18	<0.05	1.63	0.392	0.38	0.6	208



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Ni-OG62 Ni %	CRU-QC Pass2mm %	PUL-QC Pass75um %
		0.1	0.1	2	0.5	0.0005	0.001	0.01	0.01
1429		0.3	20.4	80	61.4				
1430		0.3	14.5	88	63.5				
1431		0.4	13.9	185	57.4				
1432		0.3	13.6	73	57.9				
1433		0.4	15.1	63	55.6				
1434		0.3	14.3	82	59.6				



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**CERTIFICATE OF ANALYSIS SD21046865**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 17%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 17%;">Ni-OG62</td> </tr> </table>	Co-OG62	ME-MS61	ME-OG62	Ni-OG62				
Co-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**QC CERTIFICATE SD21046865**

Project: Shining Tree  
 P.O. No.: STR21003  
 This report is for 46 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26-FEB-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree

**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.47	4.33	6980	240	0.80	0.07	6.20	0.89	41.9	9.2	53	6.73	26.1	2.92	10.60
Target Range – Lower Bound		0.41	4.02	6260	180	0.68	0.08	5.35	0.86	38.6	8.5	51	6.25	25.0	2.69	9.76
Upper Bound		0.53	4.94	7660	260	0.96	0.13	6.57	1.10	47.2	10.6	65	7.75	29.2	3.31	12.05
EMOG-17		68.9	4.77	601	150	2.00	5.51	1.89	19.30	49.2	771	57	7.53	8190	4.96	12.65
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.26	7.25	32.9	1100	3.02	0.59	2.54	2.17	68.2	22.1	89	12.20	605	3.84	20.2
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 905		0.67	7.46	34.2	2800	2.87	5.14	0.59	0.32	97.1	14.3	23	6.99	1500	4.01	26.7
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.11	7.40	5.1	540	2.82	0.66	0.46	0.05	93.2	17.1	80	8.78	107.0	3.83	20.3
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-134b																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.11	3.5	0.054	1.01	21.6	19.6	2.79	445	4.14	0.03	4.8	48.1	330	12.4	48.3
Target Range – Lower Bound		<0.05	3.6	0.038	0.89	19.4	17.8	2.47	388	3.97	<0.01	4.4	43.6	300	11.9	45.9
Upper Bound		0.21	4.6	0.063	1.11	24.8	22.2	3.05	486	4.97	0.05	5.6	53.8	380	15.7	56.3
EMOG-17		0.17	1.8	0.930	1.66	25.8	28.9	0.97	743	1060	1.09	15.7	7610	800	7310	115.5
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.15	2.9	0.163	2.98	33.0	30.6	1.29	546	14.65	1.92	21.8	682	990	1050	187.0
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 905		0.16	6.4	0.640	2.86	47.7	19.6	0.27	374	3.17	2.34	18.9	11.4	270	30.2	139.5
Target Range – Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.18	4.3	0.080	2.68	45.8	30.5	1.28	559	0.46	0.60	18.1	39.9	690	24.6	178.0
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-134b																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																





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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.003	2.54	102.0	8.4	1	1.8	76.7	0.47	0.06	4.04	0.240	17.30	2.2	140	31.3
Target Range – Lower Bound		<0.002	2.38	83.9	8.0	<1	1.5	69.1	0.38	<0.05	3.88	0.229	17.00	2.2	125	27.5
Upper Bound		0.007	2.94	113.5	10.0	4	2.5	84.9	0.63	0.18	4.76	0.291	23.0	2.9	155	37.5
EMOG-17		0.324	3.25	777	8.0	8	2.5	200	0.88	1.39	11.70	0.310	2.07	3.0	74	3.6
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.009	0.29	4.27	11.5	1	3.7	289	1.42	<0.05	18.20	0.472	0.94	4.9	106	4.4
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 905		<0.002	0.07	1.94	4.5	3	3.7	152.5	1.22	0.08	14.80	0.117	0.63	4.6	10	2.5
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.44	13.7	1	4.7	79.4	1.27	<0.05	19.40	0.438	0.82	3.5	90	2.9
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-134b																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Ni-OG62
		Y ppm	Zn ppm	Zr ppm	Co %	Ni %
		0.1	2	0.5	0.0005	0.001
<b>STANDARDS</b>						
AMIS0160					3.15	0.004
Target Range – Lower Bound					2.99	<0.001
Upper Bound					3.21	0.005
DS-1		23.2	215	145.5		
Target Range – Lower Bound		22.2	195	137.0		
Upper Bound		27.3	243	186.5		
EMOG-17		17.2	7330	67.8		
Target Range – Lower Bound		14.3	6800	55.6		
Upper Bound		17.7	8320	76.4		
EMOG-17					0.0753	0.760
Target Range – Lower Bound					0.0730	0.730
Upper Bound					0.0794	0.785
MGeo08		25.3	783	103.0		
Target Range – Lower Bound		23.8	722	92.2		
Upper Bound		29.3	886	126.0		
OREAS 905		15.7	137	246		
Target Range – Lower Bound		14.0	122	214		
Upper Bound		17.4	154	290		
OREAS 920		33.5	111	157.0		
Target Range – Lower Bound		29.8	102	128.0		
Upper Bound		36.6	130	174.0		
OREAS-133a					0.0019	0.002
Target Range – Lower Bound					0.0010	<0.001
Upper Bound					0.0030	0.004
OREAS-134b					0.0108	0.002
Target Range – Lower Bound					0.0098	<0.001
Upper Bound					0.0116	0.004
OREAS-74a					0.0556	3.03
Target Range – Lower Bound						3.03
Upper Bound						3.25



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>BLANKS</b>																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		0.06	7.21	2.0	790	1.59	0.06	1.16	0.11	41.3	1.9	2	2.18	3.0	1.72	17.20
DUP		0.08	7.37	1.9	810	1.40	0.06	1.20	0.13	40.8	2.1	3	2.16	3.1	1.78	17.35
Target Range – Lower Bound		0.06	6.92	1.7	730	1.37	0.05	1.11	0.09	39.0	1.8	<1	2.01	2.7	1.65	16.35
Upper Bound		0.08	7.66	2.2	870	1.62	0.07	1.25	0.15	43.1	2.2	4	2.33	3.4	1.85	18.20
1419		0.12	7.15	3.6	180	0.55	0.04	5.44	0.12	18.40	50.5	46	1.64	144.5	7.05	17.05
DUP		0.12	7.54	3.5	190	0.52	0.04	5.71	0.12	19.25	51.7	48	1.68	152.0	7.45	17.30
Target Range – Lower Bound		0.10	6.97	3.2	160	0.46	0.03	5.29	0.09	17.85	48.4	44	1.53	143.0	6.88	16.25
Upper Bound		0.14	7.72	3.9	210	0.61	0.05	5.86	0.15	19.80	53.8	50	1.79	153.5	7.62	18.10



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>BLANKS</b>																
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	0.3	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		0.13	3.3	0.025	2.35	20.3	17.5	0.27	594	0.86	3.27	7.9	0.5	400	10.9	64.9
DUP		0.12	3.3	0.025	2.38	20.1	14.1	0.28	604	0.86	3.35	7.6	0.8	410	10.5	65.7
Target Range – Lower Bound		0.07	3.0	0.019	2.24	18.7	14.8	0.25	564	0.77	3.13	7.3	0.4	370	9.7	61.9
Upper Bound		0.18	3.6	0.031	2.49	21.7	16.8	0.30	634	0.95	3.49	8.2	0.9	440	11.7	68.7
1419		0.11	1.7	0.051	2.05	8.7	34.8	3.62	1340	0.46	1.61	3.1	100.0	310	13.4	95.5
DUP		0.13	1.8	0.054	2.18	8.9	35.6	3.83	1420	0.39	1.70	3.1	104.5	320	13.9	96.1
Target Range – Lower Bound		0.06	1.6	0.045	2.00	7.9	33.2	3.53	1305	0.35	1.56	2.8	96.9	290	12.5	90.9
Upper Bound		0.18	1.9	0.060	2.23	9.7	37.2	3.92	1455	0.50	1.75	3.4	107.5	340	14.8	100.5



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
<b>BLANKS</b>																
BLANK		<0.002	<0.01	0.08	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		<0.002	<0.01	0.94	3.3	<1	1.1	227	0.49	<0.05	4.72	0.180	0.41	2.2	17	0.6
DUP		<0.002	<0.01	0.91	3.2	1	1.1	233	0.48	<0.05	4.56	0.187	0.39	2.1	18	0.6
Target Range – Lower Bound		<0.002	<0.01	0.81	3.0	<1	0.8	218	0.41	<0.05	4.40	0.169	0.35	1.9	16	0.5
Upper Bound		0.004	0.02	1.04	3.5	2	1.4	242	0.56	0.10	4.88	0.198	0.45	2.4	19	0.7
1419		0.002	0.07	0.39	33.4	1	0.7	167.0	0.20	<0.05	1.84	0.418	0.36	0.6	205	0.3
DUP		<0.002	0.07	0.39	33.4	1	0.7	175.5	0.21	<0.05	1.87	0.439	0.37	0.6	213	0.3
Target Range – Lower Bound		<0.002	0.06	0.31	31.6	<1	0.5	162.5	0.14	<0.05	1.75	0.402	0.32	0.5	198	0.2
Upper Bound		0.004	0.08	0.47	35.2	2	0.9	180.0	0.27	0.10	1.96	0.455	0.41	0.7	220	0.4



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**QC CERTIFICATE OF ANALYSIS SD21046865**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Ni-OG62 Ni % 0.001
<b>BLANKS</b>						
BLANK		<0.1	<2	<0.5		
BLANK		<0.1	<2	<0.5		
Target Range – Lower Bound		<0.1	<2	<0.5		
Upper Bound		0.2	4	1.0		
BLANK					<0.0005	<0.001
Target Range – Lower Bound					<0.0005	<0.001
Upper Bound					0.0010	0.002
<b>DUPLICATES</b>						
ORIGINAL		16.6	56	125.0		
DUP		16.7	58	126.5		
Target Range – Lower Bound		15.7	52	116.0		
Upper Bound		17.6	62	135.5		
1419		15.6	89	65.4		
DUP		16.2	94	68.6		
Target Range – Lower Bound		15.0	85	61.5		
Upper Bound		16.8	98	72.5		



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Project: Shining Tree  
**QC CERTIFICATE OF ANALYSIS SD21046865**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0" style="width: 100%;"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0" style="width: 100%;"> <tr> <td>Co-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> </table>	Co-OG62	ME-MS61	ME-OG62	Ni-OG62				
Co-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**CERTIFICATE SD21046867**

Project: Shinig Tree  
 P.O. No.: STR21004  
 This report is for 33 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26-FEB-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login – Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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Project: Shinig Tree  
**CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
1435		2.69	0.29	7.34	62.2	180	0.78	0.42	6.27	0.32	22.2	74.6	56	1.29	154.5	7.16
1436		1.69	0.26	5.90	31.3	190	1.00	0.28	15.60	0.07	40.8	42.4	37	1.25	271	4.60
1437		2.03	0.21	7.71	13.6	170	0.78	0.06	5.55	0.55	17.95	47.1	63	2.04	156.5	7.60
1438		2.14	0.22	7.53	11.7	160	0.73	0.07	4.58	2.10	18.15	48.1	65	1.85	184.0	7.58
1439		1.26	0.15	7.76	10.3	170	0.55	0.07	5.61	0.17	17.30	43.7	65	1.35	144.5	7.13
1440		1.01	0.16	7.99	11.0	170	0.58	0.07	5.62	0.21	18.10	45.7	68	1.41	150.5	7.23
1441		<0.02	0.79	6.80	3.6	240	1.07	0.11	5.37	0.79	37.2	>10000	166	0.76	1855	6.92
1442		1.75	0.22	7.52	10.5	220	1.04	0.29	7.14	0.05	27.1	56.8	58	2.25	144.5	7.43
1443		1.58	0.51	6.97	19.1	120	1.72	0.36	8.88	0.04	32.1	41.6	52	1.95	1130	6.33
1444		2.32	0.16	7.92	81.6	160	0.77	0.46	6.52	0.27	19.65	84.2	72	1.44	150.5	6.85
1445		2.08	0.13	7.91	6.5	190	0.60	0.09	5.98	0.12	17.25	44.1	78	1.26	171.0	7.48
1446		2.28	0.20	7.45	70.7	130	0.82	0.84	7.86	0.08	19.95	69.7	76	1.37	161.5	6.13
1447		1.84	0.21	7.76	6.2	170	0.45	0.05	6.29	0.11	16.05	43.3	144	0.64	142.5	6.59
1448		1.41	1.55	7.60	6.6	150	0.62	0.18	6.03	0.08	23.6	56.6	161	0.65	1480	6.94
1449		1.32	1.26	7.43	4.6	110	0.96	0.17	5.31	0.08	25.4	39.0	142	0.68	509	5.99
1450		2.01	0.25	7.81	6.5	190	0.75	0.15	7.95	0.06	22.6	39.3	164	0.55	244	5.70
1451		1.47	1.11	7.61	7.0	130	0.78	0.27	4.04	0.08	26.7	65.9	154	0.41	1260	6.15
1452		2.35	0.30	7.60	9.3	120	0.70	0.22	5.34	0.05	16.95	50.7	168	0.41	327	6.47
1453		1.84	0.16	7.92	6.1	130	0.72	0.12	5.46	0.04	16.10	43.1	195	0.40	183.0	6.48
1454		0.94	0.50	7.80	45.8	90	0.72	0.39	6.39	0.03	19.30	54.3	197	0.24	85.3	3.61
1455		1.11	0.42	7.20	9.5	80	0.53	0.30	9.31	0.03	17.75	32.3	166	0.28	139.5	3.64
1456		1.84	0.45	7.24	7.6	130	0.55	0.45	8.12	0.04	19.95	34.3	164	0.29	668	4.29
1457		1.16	0.28	7.34	5.9	150	0.52	0.20	8.54	0.03	21.0	33.9	180	0.35	167.5	4.31
1458		2.01	0.14	7.66	4.3	200	0.35	0.11	5.35	0.04	14.05	45.0	195	0.55	126.5	6.79
1459		0.84	0.21	7.72	4.4	310	0.29	0.12	4.86	0.04	13.65	48.4	205	0.46	176.5	7.02
1460		0.98	0.16	7.66	4.5	300	0.29	0.13	4.63	0.05	12.60	50.6	206	0.49	70.0	7.35
1461		0.12	4.11	5.46	14.6	110	0.57	0.92	3.40	2.18	17.65	955	269	0.85	>10000	18.30
1462		2.10	0.20	7.86	4.8	590	1.72	0.20	5.83	0.02	15.85	35.5	169	0.28	219	6.63
1463		0.98	0.21	7.04	4.8	170	0.50	0.26	7.17	0.12	17.45	40.8	46	0.19	473	7.70
1464		1.99	0.11	7.32	5.3	140	0.34	0.13	5.72	0.03	18.85	50.9	52	0.23	105.0	7.49
1465		2.19	0.11	7.15	5.3	110	0.44	0.11	5.36	0.05	16.65	50.8	53	0.26	146.5	7.27
1466		2.04	0.14	7.27	5.2	110	0.44	0.18	4.60	0.04	17.25	52.6	61	0.40	44.4	7.23
1467		1.30	0.33	7.30	17.7	140	0.69	1.52	8.76	0.03	23.8	44.2	58	0.65	183.0	5.38



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Project: Shinig Tree

**CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1435		18.40	0.17	1.8	0.092	1.62	10.6	58.1	3.86	1480	2.64	2.20	3.3	98.4	300	99.7
1436		14.35	0.16	1.4	0.339	1.51	19.8	43.1	2.11	2790	0.82	1.59	2.6	65.2	250	62.7
1437		18.70	0.14	1.8	0.069	1.80	8.3	58.3	4.31	1480	0.46	2.14	3.3	105.5	310	636
1438		18.35	0.14	1.8	0.067	1.57	8.3	61.0	4.76	1500	0.47	2.34	3.3	104.0	320	680
1439		18.55	0.14	1.9	0.063	2.04	8.0	36.8	3.98	1560	0.43	1.99	3.3	101.0	300	46.3
1440		19.45	0.14	2.0	0.061	2.05	8.1	38.9	4.08	1590	0.52	2.07	3.5	105.0	320	54.4
1441		20.1	0.22	3.4	0.064	0.64	18.5	7.5	3.53	928	3.40	2.11	21.6	>10000	1440	18.0
1442		19.75	0.13	1.8	0.103	1.64	12.7	58.5	3.56	1650	1.62	1.86	3.2	115.5	410	9.8
1443		18.05	0.13	1.6	0.249	1.20	15.7	55.3	3.40	2860	0.74	1.90	2.9	93.9	290	8.8
1444		19.10	0.14	1.8	0.079	2.17	9.2	38.9	3.71	1610	1.13	1.95	3.2	109.5	320	29.0
1445		19.25	0.13	1.8	0.071	2.31	7.6	32.5	3.96	1420	0.50	1.81	3.3	106.5	290	14.6
1446		18.70	0.15	1.6	0.144	1.57	9.5	49.8	3.19	1350	3.50	2.38	2.9	101.5	270	82.0
1447		17.90	0.14	1.6	0.050	1.61	7.5	42.4	4.14	1370	0.35	2.15	2.8	124.0	280	43.5
1448		18.50	0.15	1.5	0.088	1.47	10.3	43.3	4.35	1300	0.43	2.26	3.0	131.0	250	23.6
1449		20.1	0.13	3.5	0.132	0.82	12.1	48.6	3.07	878	0.78	3.12	4.7	94.3	250	9.0
1450		17.95	0.15	1.7	0.142	1.53	10.9	38.6	3.48	1160	0.70	2.79	3.0	113.5	270	11.2
1451		19.90	0.13	3.3	0.092	0.93	12.8	41.2	3.39	890	0.40	3.31	4.5	115.5	270	31.4
1452		18.95	0.13	2.1	0.081	1.16	8.0	41.1	3.79	1070	0.42	2.95	3.2	123.0	270	36.0
1453		19.30	0.13	1.8	0.077	1.47	7.4	35.8	3.94	1140	0.37	2.82	3.1	130.5	280	6.3
1454		18.05	0.15	1.6	0.111	1.00	9.1	29.4	2.05	611	3.16	4.06	2.8	90.6	240	12.3
1455		15.35	0.12	1.4	0.091	0.83	8.0	27.2	2.06	631	2.75	3.64	2.5	76.7	270	8.9
1456		16.35	0.14	2.2	0.120	1.00	8.6	30.0	2.41	722	6.11	3.43	3.6	87.5	250	18.3
1457		15.60	0.13	1.5	0.157	1.10	9.0	29.5	2.61	778	1.65	3.37	2.5	87.4	250	11.2
1458		17.50	0.12	1.5	0.047	1.43	6.4	46.5	4.12	1140	0.47	2.62	2.7	127.0	260	10.0
1459		18.05	0.12	1.6	0.044	1.79	6.3	47.0	4.14	1080	0.32	2.65	2.9	141.5	260	9.0
1460		18.65	0.12	1.6	0.040	1.72	5.8	49.9	4.34	1140	0.35	2.66	2.9	149.5	290	12.6
1461		13.50	0.32	1.4	0.135	0.31	8.0	9.8	3.88	977	5.39	1.20	5.5	>10000	480	15.4
1462		18.95	0.13	1.7	0.123	2.59	6.9	31.7	2.88	4150	0.54	2.18	3.1	127.0	290	10.2
1463		20.3	0.10	1.8	0.097	1.06	8.6	25.5	3.86	1600	0.37	2.26	3.1	105.5	280	30.8
1464		17.75	0.11	1.9	0.059	0.99	8.8	30.5	4.26	1240	0.39	3.08	3.4	101.5	330	11.6
1465		17.15	0.12	1.8	0.050	0.97	7.5	35.6	4.20	1280	0.41	2.99	3.2	95.2	310	9.8
1466		16.60	0.13	1.8	0.057	0.85	8.2	34.8	4.00	1280	0.37	3.48	3.4	104.5	330	6.9
1467		17.15	0.13	1.8	0.168	1.17	11.2	36.4	2.59	1340	7.55	2.99	3.1	85.1	310	10.9



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 Account: BMRPLLW

Project: Shinig Tree

**CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
1435		71.2	<0.002	0.09	0.70	34.5	1	0.7	139.0	0.23	0.05	2.13	0.452	0.34	0.7	221
1436		66.9	<0.002	0.07	0.23	31.7	1	0.6	153.0	0.19	<0.05	1.69	0.356	0.31	0.6	171
1437		69.6	<0.002	0.08	0.46	34.4	1	0.8	164.5	0.23	0.05	2.02	0.462	0.34	0.6	225
1438		58.9	<0.002	0.06	0.45	34.1	1	0.8	153.5	0.23	0.06	2.04	0.455	0.27	0.6	224
1439		68.4	<0.002	0.08	0.51	33.6	1	0.8	168.0	0.24	<0.05	1.98	0.463	0.39	0.7	228
1440		65.5	<0.002	0.08	0.50	34.4	1	0.8	171.0	0.24	0.05	2.03	0.468	0.37	0.7	230
1441		20.8	<0.002	2.57	2.13	19.6	1	1.4	403	1.24	<0.05	2.68	0.975	0.11	0.7	141
1442		81.1	0.002	0.09	0.41	31.8	1	0.8	136.5	0.22	<0.05	2.18	0.425	0.38	0.8	223
1443		60.4	<0.002	0.20	0.31	32.1	1	0.8	116.0	0.21	<0.05	1.91	0.389	0.27	0.7	194
1444		86.1	0.002	0.08	0.47	34.1	1	0.8	165.5	0.23	<0.05	1.96	0.449	0.42	0.6	225
1445		74.2	0.002	0.08	0.45	33.3	1	0.9	184.5	0.23	<0.05	1.81	0.445	0.42	0.7	222
1446		72.1	<0.002	0.08	0.24	32.9	1	0.8	152.0	0.21	<0.05	1.81	0.406	0.30	0.7	215
1447		63.6	<0.002	0.07	0.27	34.0	1	0.7	164.5	0.21	0.05	1.78	0.400	0.30	0.6	208
1448		59.8	<0.002	0.25	0.33	31.9	1	1.2	167.5	0.20	0.06	1.82	0.371	0.26	0.6	194
1449		33.8	<0.002	0.11	0.14	27.0	1	1.0	93.3	0.39	<0.05	4.21	0.345	0.15	1.8	162
1450		59.9	<0.002	0.09	0.20	33.6	1	0.7	154.0	0.21	0.05	2.00	0.392	0.24	0.7	200
1451		30.5	<0.002	0.26	0.12	28.0	1	1.1	113.0	0.35	0.05	3.80	0.366	0.17	1.7	170
1452		33.5	<0.002	0.11	0.17	30.4	1	0.8	136.5	0.25	0.05	2.15	0.377	0.20	0.9	190
1453		42.5	<0.002	0.08	0.22	31.8	1	0.7	139.0	0.23	0.06	1.73	0.408	0.27	0.6	211
1454		36.1	0.002	0.07	0.13	29.6	<1	0.7	107.5	0.20	<0.05	1.76	0.392	0.18	1.0	221
1455		34.0	<0.002	0.06	0.11	27.8	1	0.6	101.0	0.18	<0.05	1.64	0.349	0.14	0.9	183
1456		37.5	0.002	0.12	0.16	27.2	1	0.7	116.5	0.27	<0.05	2.61	0.354	0.18	1.2	183
1457		40.9	<0.002	0.06	0.10	30.8	1	0.6	126.0	0.19	<0.05	1.68	0.356	0.19	0.8	195
1458		37.0	<0.002	0.07	0.17	30.3	1	0.6	148.5	0.20	<0.05	1.51	0.378	0.24	0.5	194
1459		32.5	<0.002	0.08	0.14	29.0	<1	0.6	141.5	0.21	0.05	1.45	0.395	0.27	0.6	206
1460		29.5	<0.002	0.07	0.15	28.3	1	0.6	147.0	0.21	0.05	1.28	0.396	0.27	0.5	212
1461		12.0	0.047	8.51	3.10	9.5	23	2.7	186.5	0.35	4.36	1.13	0.526	0.18	0.4	78
1462		37.0	<0.002	0.07	0.27	31.3	1	0.8	517	0.22	0.07	1.50	0.435	0.34	0.6	214
1463		30.2	<0.002	0.11	0.45	31.9	1	0.8	677	0.21	<0.05	1.96	0.425	0.15	0.6	218
1464		30.3	<0.002	0.09	0.22	33.7	1	0.8	180.5	0.24	<0.05	1.99	0.468	0.16	0.6	224
1465		29.3	<0.002	0.10	0.19	32.1	1	0.7	143.5	0.23	<0.05	1.95	0.462	0.18	0.6	218
1466		18.6	<0.002	0.08	0.18	32.1	1	0.8	146.0	0.24	0.05	1.69	0.479	0.18	0.7	230
1467		54.0	0.002	0.07	0.17	32.2	1	0.7	171.0	0.21	0.06	1.95	0.429	0.28	0.8	226



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 Account: BMRPLLW

Project: Shinig Tree

CERTIFICATE OF ANALYSIS SD21046867
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Sample Description	Method Analyte Units LOD	ME–MS61 W ppm 0.1	ME–MS61 Y ppm 0.1	ME–MS61 Zn ppm 2	ME–MS61 Zr ppm 0.5	Co–OG62 Co % 0.0005	Cu–OG62 Cu % 0.001	Ni–OG62 Ni % 0.001	CRU–QC Pass2mm % 0.01	PUL–QC Pass75um % 0.01
1435		0.5	18.6	141	63.8				78.7	87.4
1436		0.4	48.9	83	49.8					
1437		0.3	15.5	242	63.9					
1438		0.4	15.4	661	64.3					
1439		0.3	14.4	134	66.3					
1440		0.3	14.7	144	70.4					
1441		1.7	20.7	120	137.0	1.970		2.13		
1442		0.4	20.8	71	62.2					
1443		0.5	25.4	51	57.4					
1444		0.4	16.2	112	63.9					87.0
1445		0.3	15.2	100	63.8					96.1
1446		0.3	20.6	78	58.0					
1447		0.3	13.6	119	55.4					
1448		0.8	22.1	131	55.8					
1449		0.4	20.7	146	127.5					
1450		0.4	21.8	123	61.1					
1451		0.4	18.3	154	117.0					
1452		0.3	14.9	142	73.1					
1453		0.3	14.2	130	61.8					
1454		0.6	16.4	81	57.4					
1455		0.5	16.9	84	51.3					
1456		0.4	23.4	98	78.3					
1457		0.4	26.2	92	51.8				84.1	
1458		0.3	12.9	135	52.6					
1459		0.3	11.9	145	58.1					
1460		0.3	10.9	154	56.6					
1461		2.4	10.4	140	55.8		1.565	4.46		
1462		0.4	14.4	192	61.0					
1463		0.4	15.9	140	63.6					
1464		0.4	15.8	133	67.0					
1465		0.4	14.7	122	63.0					
1466		0.4	14.2	127	65.4					
1467		0.5	22.8	88	63.8					



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Project: Shinig Tree

<b>CERTIFICATE OF ANALYSIS SD21046867</b>
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	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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**QC CERTIFICATE SD21046867**

Project: Shinig Tree  
 P.O. No.: STR21004  
 This report is for 33 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 26–FEB–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login – Rcvd with Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		66.6	4.69	593	400	1.79	6.08	1.90	21.8	48.8	762	56	7.91	8500	4.87	13.25
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.31	7.07	36.0	1070	3.35	0.69	2.58	2.36	65.4	21.8	93	12.35	626	3.80	21.0
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 920		0.09	7.63	5.8	550	2.78	0.70	0.48	0.05	92.4	16.7	82	9.12	111.0	3.94	21.5
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.01	<0.01	0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	0.3	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.17	2.0	0.987	1.68	24.5	28.5	0.95	742	1075	1.12	15.4	7850	820	7460	116.5
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.23	3.5	0.182	3.06	30.0	33.6	1.28	549	15.35	1.95	21.9	708	1050	1080	178.0
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 920		0.24	5.1	0.085	2.86	44.7	32.3	1.30	583	0.41	0.63	18.1	40.4	740	23.8	170.5
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.09	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																





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 Account: BMRPLLBW

**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.331	3.33	829	8.7	7	2.8	212	0.98	1.36	11.55	0.325	2.29	3.4	73	4.2
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.009	0.30	4.78	12.2	1	4.1	303	1.64	<0.05	17.15	0.493	1.06	5.1	108	5.0
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 920		<0.002	0.03	1.51	14.5	<1	4.9	81.9	1.41	<0.05	19.55	0.471	0.91	3.9	94	3.4
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	0.03	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62
		Y ppm	Zn ppm	Zr ppm	Co %	Cu %	Ni %
		0.1	2	0.5	0.0005	0.001	0.001
<b>STANDARDS</b>							
AMIS0160					3.12	2.02	0.003
Target Range – Lower Bound					2.99	1.970	<0.001
Upper Bound					3.21	2.11	0.005
EMOG-17		16.7	7540	69.4			
Target Range – Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
EMOG-17					0.0738	0.811	0.741
Target Range – Lower Bound					0.0730	0.803	0.730
Upper Bound					0.0794	0.863	0.785
MP-1b					0.0007	3.03	<0.001
Target Range – Lower Bound					<0.0005	2.96	<0.001
Upper Bound					0.0014	3.18	0.002
MGeo08		25.5	798	112.5			
Target Range – Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 920		32.7	115	160.5			
Target Range – Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS 932					0.0061	6.04	0.004
Target Range – Lower Bound						5.91	
Upper Bound						6.35	
OREAS-133a					0.0016	0.031	0.002
Target Range – Lower Bound					0.0010	0.030	<0.001
Upper Bound					0.0030	0.034	0.004
OREAS-74a					0.0544	0.116	3.02
Target Range – Lower Bound							3.03
Upper Bound							3.25
<b>BLANKS</b>							
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK					<0.0005	<0.001	<0.001
Target Range – Lower Bound					<0.0005	<0.001	<0.001
Upper Bound					0.0010	0.002	0.002



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Project: Shinig Tree

<b>QC CERTIFICATE OF ANALYSIS SD21046867</b>
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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
		<b>DUPLICATES</b>														
1307		0.08	4.16	1.3	60	0.62	0.11	19.10	<0.02	54.0	7.5	3	0.21	409	2.19	12.05
DUP		0.08	4.21	1.5	60	0.60	0.10	19.40	<0.02	53.4	7.4	4	0.21	415	2.23	12.00
Target Range – Lower Bound		0.07	3.97	1.1	50	0.53	0.09	18.30	<0.02	51.0	7.0	2	0.15	397	2.09	11.35
Upper Bound		0.09	4.40	1.7	70	0.69	0.12	20.2	0.04	56.4	7.9	5	0.27	427	2.33	12.70
1438		0.22	7.53	11.7	160	0.73	0.07	4.58	2.10	18.15	48.1	65	1.85	184.0	7.58	18.35
DUP		0.21	7.38	11.2	160	0.64	0.06	4.46	2.10	16.85	47.0	62	1.73	182.0	7.46	18.40
Target Range – Lower Bound		0.19	7.07	10.7	140	0.60	0.05	4.28	1.98	16.60	45.1	59	1.65	176.5	7.13	17.40
Upper Bound		0.24	7.84	12.2	180	0.77	0.08	4.76	2.23	18.40	50.0	68	1.93	189.5	7.91	19.35

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



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Project: Shinig Tree

**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
	<b>DUPLICATES</b>															
1307		0.14	2.1	0.453	0.52	22.4	16.6	0.43	2870	0.20	2.16	2.9	22.7	360	4.8	25.0
DUP		0.15	2.1	0.449	0.53	22.6	16.7	0.43	2880	0.25	2.19	2.9	22.8	360	4.9	24.6
Target Range – Lower Bound		0.09	1.9	0.423	0.49	20.9	15.6	0.40	2730	0.16	2.06	2.7	21.4	330	4.1	23.5
Upper Bound		0.20	2.3	0.479	0.56	24.1	17.7	0.46	3020	0.29	2.29	3.1	24.1	390	5.6	26.1
1438		0.14	1.8	0.067	1.57	8.3	61.0	4.76	1500	0.47	2.34	3.3	104.0	320	680	58.9
DUP		0.12	1.8	0.058	1.55	7.7	56.2	4.65	1460	0.42	2.29	3.2	103.5	310	670	48.1
Target Range – Lower Bound		0.07	1.6	0.054	1.47	7.1	55.5	4.46	1400	0.37	2.19	3.0	98.4	290	641	50.7
Upper Bound		0.19	2.0	0.071	1.65	8.9	61.7	4.95	1560	0.52	2.44	3.5	109.0	340	709	56.3

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Project: Shinig Tree

**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
		<b>DUPLICATES</b>														
1307		<0.002	0.05	0.12	25.1	1	0.5	98.5	0.23	<0.05	2.56	0.365	0.11	1.0	126	0.4
DUP		<0.002	0.05	0.12	24.7	<1	0.5	98.8	0.22	<0.05	2.61	0.372	0.11	1.0	127	0.4
Target Range – Lower Bound		<0.002	0.04	0.06	23.6	<1	0.3	93.5	0.16	<0.05	2.45	0.345	0.08	0.9	119	0.3
Upper Bound		0.004	0.06	0.18	26.2	2	0.7	104.0	0.29	0.10	2.72	0.392	0.14	1.2	134	0.5
1438		<0.002	0.06	0.45	34.1	1	0.8	153.5	0.23	0.06	2.04	0.455	0.27	0.6	224	0.4
DUP		<0.002	0.06	0.42	32.9	1	0.8	151.0	0.24	<0.05	1.75	0.449	0.25	0.6	220	0.4
Target Range – Lower Bound		<0.002	0.05	0.35	31.7	<1	0.6	144.5	0.17	<0.05	1.79	0.424	0.22	0.5	210	0.3
Upper Bound		0.004	0.07	0.52	35.3	2	1.0	160.0	0.30	0.10	2.00	0.480	0.30	0.7	234	0.5



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**QC CERTIFICATE OF ANALYSIS SD21046867**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>DUPLICATES</b>							
1307		66.3	11	76.3			
DUP		65.1	11	74.8			
Target Range - Lower Bound		62.3	8	69.4			
Upper Bound		69.1	14	81.7			
1438		15.4	661	64.3			
DUP		14.8	645	62.8			
Target Range - Lower Bound		14.2	618	58.3			
Upper Bound		16.0	688	68.8			



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**QC CERTIFICATE OF ANALYSIS SD21046867**

	<b>CERTIFICATE COMMENTS</b>								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-23</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-23	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-23						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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 26-APR-2021  
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**CERTIFICATE SD21064973**

Project: Shining Tree-STR21-005  
 P.O. No.: STR21-005  
 This report is for 63 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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Project: Shining Tree-STR21-005

**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
1468		1.00	0.30	7.84	11.3	240	0.80	0.63	6.13	0.09	20.5	58.5	76	0.80	118.0	7.58
1469		1.10	0.85	6.24	103.0	140	0.64	0.99	10.20	0.06	27.5	101.5	56	0.65	687	5.54
1470		2.11	0.29	7.84	5.9	240	0.55	0.14	6.85	0.07	18.20	45.7	82	0.90	189.0	7.11
1471		1.30	0.48	7.77	17.0	260	0.56	0.27	7.06	0.06	21.3	58.9	81	0.75	290	6.67
1472		1.18	0.27	8.12	4.9	230	0.51	0.08	7.01	0.12	18.55	43.7	86	0.93	175.5	7.30
1473		1.46	0.28	8.10	6.1	240	0.51	0.06	6.51	0.08	18.30	44.7	85	0.96	155.5	7.28
1474		2.10	0.30	7.97	5.0	260	0.53	0.06	6.58	0.11	16.40	40.6	91	1.13	153.5	6.92
1475		0.49	0.01	0.10	<0.2	20	0.06	0.01	33.6	<0.02	0.90	1.0	2	<0.05	2.4	0.15
1476		1.49	0.44	7.50	7.5	150	0.71	0.26	5.39	0.05	17.00	47.3	95	1.81	364	7.06
1477		1.68	0.27	7.95	5.4	260	0.67	0.06	6.16	0.26	18.45	40.0	97	1.23	154.0	6.86
1478		2.23	0.22	7.84	5.7	270	0.55	0.06	5.43	0.06	17.40	44.1	89	1.35	162.0	7.07
1479		0.91	0.19	7.99	6.1	280	0.48	0.03	5.93	0.07	18.15	44.5	87	1.06	182.5	6.93
1480		1.09	0.22	8.20	7.8	270	0.56	0.04	5.80	0.06	19.10	47.2	88	1.14	176.5	6.93
1481		0.02	1.13	4.59	10.7	100	0.68	0.16	3.59	3.54	25.9	>10000	123	0.51	8800	4.53
1482		1.94	0.25	8.05	6.3	390	0.52	0.05	5.70	0.08	15.25	43.2	88	1.12	154.0	7.03
1483		1.97	0.28	7.58	7.8	670	0.55	0.08	5.01	0.12	17.55	49.1	70	1.12	181.0	7.90
1484		1.82	0.31	7.47	6.4	490	0.45	0.22	4.75	0.26	19.40	56.9	55	0.73	107.5	8.41
1485		1.87	0.21	7.29	6.5	290	0.45	0.12	5.64	0.13	18.20	53.4	49	0.48	306	7.91
1486		1.40	0.17	7.38	6.0	220	0.68	0.07	5.90	0.09	18.25	47.8	50	0.54	130.5	7.52
1487		1.64	0.18	7.54	6.3	220	0.57	0.04	5.39	0.09	20.0	45.9	51	1.26	152.5	7.50
1488		2.02	0.14	7.79	9.5	160	0.80	0.09	5.79	0.06	20.3	54.4	52	0.53	170.5	7.73
1489		1.54	0.12	7.37	5.9	190	0.51	0.05	6.20	0.06	18.35	45.9	53	0.75	157.0	7.61
1490		2.16	0.20	7.70	6.8	190	0.53	0.06	6.43	0.06	19.10	50.6	57	1.16	157.5	7.78
1491		2.13	0.22	7.42	11.2	160	0.57	0.10	6.32	0.07	22.0	58.8	57	0.90	181.0	7.97
1492		2.08	0.12	7.54	4.3	230	0.49	0.06	5.59	0.08	18.55	45.6	62	0.90	139.0	7.70
1493		2.09	0.19	7.92	5.2	210	0.56	0.07	6.60	0.07	19.85	43.6	65	0.82	184.5	7.69
1494		1.93	0.17	7.91	4.6	190	0.48	0.05	6.64	0.06	17.85	43.8	82	1.02	182.5	7.07
1495		2.06	0.24	7.75	5.4	210	0.45	0.05	6.78	0.06	16.35	41.5	91	0.94	156.5	7.06
1496		1.49	0.27	8.43	8.0	180	0.51	0.05	7.23	0.08	17.70	43.8	99	1.16	166.0	7.23
1497		0.81	3.81	7.46	1585	160	0.82	26.6	9.59	0.33	22.1	1115	84	1.41	102.5	6.24
1498		1.55	0.22	7.87	16.4	270	0.54	0.23	6.68	0.08	18.95	49.8	95	1.46	141.0	6.91
1499		0.52	0.35	7.24	6.7	160	0.66	0.55	10.75	0.04	23.9	27.6	91	0.91	81.0	4.24
1500		0.72	0.20	6.94	4.5	150	0.69	0.70	11.15	0.03	26.3	22.1	84	0.77	75.7	3.52
1501		0.02	1.01	4.26	7.8	110	0.61	0.14	3.36	3.15	23.6	>10000	118	0.50	8220	4.25
1502		1.54	0.15	8.01	4.1	220	0.51	0.05	6.68	0.08	16.40	43.2	122	1.30	155.5	6.85
1503		1.42	0.19	7.42	3.2	180	0.64	0.07	6.08	0.09	17.70	40.8	108	0.99	249	6.64
1504		1.20	0.12	7.78	3.4	190	0.47	0.05	6.37	0.13	16.95	45.7	138	1.38	151.0	6.62
1505		2.30	0.12	7.76	4.1	180	0.55	0.11	6.64	0.16	16.20	44.1	145	2.11	155.0	6.75
1506		2.07	0.08	8.11	3.6	180	0.44	0.04	6.66	0.08	15.55	43.8	194	2.26	106.5	6.76
1507		2.04	0.15	8.11	41.5	140	0.85	0.96	7.26	0.07	17.55	57.6	196	2.05	246	6.13



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**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1468		17.15	0.10	1.8	0.101	2.00	9.7	38.2	3.99	1500	0.99	2.33	3.0	104.5	330	21.9
1469		14.40	0.08	1.6	0.104	1.16	11.6	41.4	2.65	1020	1.96	2.18	2.5	98.9	530	39.6
1470		16.70	0.09	1.7	0.060	1.96	7.8	38.1	3.81	1380	0.50	2.19	2.9	107.0	310	20.5
1471		16.85	0.11	1.9	0.064	1.90	9.5	36.9	3.50	1260	0.82	2.37	3.0	108.5	340	17.7
1472		17.80	0.08	1.7	0.056	1.96	8.1	36.9	3.88	1460	0.40	2.15	2.9	108.5	300	26.4
1473		17.05	0.10	1.6	0.055	1.97	7.9	39.3	3.85	1420	0.36	2.16	2.8	106.5	330	12.3
1474		17.00	0.11	1.6	0.053	1.93	7.3	37.6	3.69	1420	0.38	2.15	2.7	107.5	290	18.5
1475		0.30	0.10	<0.1	<0.005	0.02	1.0	1.4	2.02	144	0.06	0.03	0.1	1.5	60	0.5
1476		15.80	0.08	1.5	0.098	1.18	7.0	66.7	3.64	953	0.41	2.45	2.5	102.0	270	67.0
1477		16.45	0.09	1.6	0.050	1.96	7.7	40.5	3.75	1540	0.37	2.37	2.7	104.0	270	59.5
1478		16.30	0.10	1.9	0.057	1.90	7.5	40.7	3.74	1280	0.36	2.77	2.9	105.5	310	11.6
1479		16.75	0.10	1.8	0.054	2.11	7.6	38.0	3.87	1380	0.32	2.62	3.0	109.5	350	5.2
1480		16.90	0.10	1.8	0.062	2.07	8.1	39.1	3.90	1350	0.34	2.71	3.0	110.5	320	5.2
1481		11.50	0.35	1.6	0.041	0.42	13.4	5.0	2.23	600	7.03	1.40	15.3	>10000	890	24.2
1482		17.25	0.13	1.6	0.052	2.48	6.1	38.5	3.78	1340	0.38	2.24	2.8	111.0	310	12.9
1483		17.60	0.16	1.5	0.059	3.22	7.0	40.2	4.03	1280	0.39	1.88	2.7	107.0	320	18.5
1484		15.70	0.09	1.8	0.054	2.34	9.0	35.0	4.24	1340	0.40	2.56	3.1	102.5	340	45.7
1485		16.70	0.09	1.6	0.058	1.78	8.5	31.5	4.09	1260	0.36	2.58	2.9	94.4	300	19.2
1486		16.30	0.07	1.7	0.053	1.53	8.2	31.9	4.28	1350	0.44	2.82	3.0	94.3	310	45.3
1487		16.35	0.09	1.8	0.051	1.67	9.2	35.0	3.94	1280	0.36	2.74	3.2	98.1	340	6.3
1488		16.70	0.10	1.8	0.064	1.28	9.3	39.9	4.04	1240	0.35	2.69	3.2	98.5	370	59.8
1489		16.00	0.09	1.6	0.053	1.50	8.4	35.1	3.88	1380	0.40	2.12	3.0	98.2	320	5.7
1490		16.60	0.09	1.7	0.055	1.65	8.7	38.4	3.92	1410	0.41	2.20	3.1	103.5	330	8.6
1491		16.15	0.10	1.7	0.072	1.37	10.0	34.1	3.88	1350	0.46	2.26	3.0	101.5	330	17.6
1492		16.35	0.09	1.7	0.060	1.72	8.4	36.2	3.84	1260	0.39	2.24	3.0	97.9	320	33.7
1493		16.30	0.09	1.9	0.070	1.74	9.3	33.4	3.86	1310	0.38	2.27	3.0	98.9	350	13.8
1494		16.40	0.09	1.6	0.053	1.86	7.9	35.5	3.76	1250	0.34	2.25	2.9	105.5	310	9.8
1495		15.80	0.08	1.6	0.052	1.96	7.4	34.5	3.80	1220	0.37	2.16	2.7	101.5	290	12.7
1496		17.10	0.09	1.6	0.055	1.99	8.4	37.2	3.90	1340	0.33	2.18	2.9	109.0	320	17.0
1497		14.90	0.09	1.4	0.120	1.66	10.5	43.0	3.12	1080	157.0	2.30	2.5	212	250	113.5
1498		16.45	0.10	1.7	0.074	2.26	8.7	36.9	3.66	1220	1.37	2.24	2.9	108.5	300	7.0
1499		14.15	0.08	1.4	0.185	1.38	10.6	24.8	2.14	854	2.95	3.03	2.4	68.9	280	14.8
1500		13.25	0.08	1.3	0.256	1.26	12.2	20.3	1.74	732	3.83	3.19	2.3	55.2	240	17.2
1501		10.50	0.18	1.5	0.040	0.39	12.1	4.2	2.08	559	5.55	1.30	12.7	>10000	840	21.2
1502		17.70	0.12	1.5	0.052	2.19	6.7	41.0	3.83	1330	0.35	1.97	2.6	119.5	280	7.6
1503		17.55	0.13	2.3	0.057	1.63	6.9	39.3	3.56	1180	0.42	2.40	3.3	104.0	310	12.5
1504		15.55	0.09	1.5	0.048	1.80	7.4	37.6	4.00	1320	0.31	2.21	2.7	119.5	260	15.7
1505		14.65	0.08	1.4	0.052	1.61	7.0	40.5	4.23	1180	0.35	2.02	2.4	124.5	270	22.6
1506		15.00	0.08	1.4	0.045	2.11	6.9	36.6	4.47	1230	0.32	1.73	2.4	130.5	290	4.8
1507		15.50	0.07	1.5	0.079	1.81	8.2	39.8	3.64	1180	4.46	2.26	2.4	126.5	270	6.7



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**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1468		75.3	0.002	0.06	0.29	34.9	<1	0.8	170.0	0.21	0.05	1.79	0.498	0.39	0.6	241
1469		46.7	<0.002	0.12	0.39	26.5	1	0.6	117.0	0.18	<0.05	1.77	0.353	0.19	0.7	181
1470		74.0	<0.002	0.09	0.26	34.3	1	0.7	181.5	0.20	<0.05	1.71	0.476	0.33	0.5	228
1471		72.2	<0.002	0.10	0.26	34.4	1	0.7	167.5	0.21	0.06	1.84	0.453	0.32	0.6	221
1472		75.2	0.002	0.09	0.31	36.5	1	0.7	208	0.20	<0.05	1.76	0.475	0.32	0.5	227
1473		77.0	0.002	0.10	0.26	35.1	1	0.7	191.0	0.20	0.05	1.75	0.468	0.38	0.5	225
1474		75.8	<0.002	0.07	0.31	34.5	1	0.7	204	0.20	<0.05	1.66	0.456	0.34	0.5	222
1475		0.6	<0.002	<0.01	0.10	0.3	1	<0.2	81.2	<0.05	<0.05	0.06	0.007	<0.02	0.1	2
1476		49.9	<0.002	0.11	0.15	32.8	<1	0.6	132.0	0.18	<0.05	1.57	0.411	0.22	0.5	207
1477		81.7	0.002	0.08	0.37	33.8	1	0.7	199.0	0.21	0.05	1.70	0.443	0.40	0.5	219
1478		52.1	<0.002	0.09	0.21	32.6	1	0.7	181.5	0.21	<0.05	1.77	0.468	0.34	0.6	229
1479		52.3	<0.002	0.10	0.24	36.1	1	0.7	194.0	0.21	<0.05	1.67	0.502	0.35	0.6	241
1480		67.8	<0.002	0.11	0.27	37.3	1	0.7	188.5	0.21	0.05	1.83	0.493	0.34	0.6	237
1481		12.2	<0.002	>10.0	0.11	12.2	2	0.9	249	0.58	<0.05	1.26	0.664	0.15	0.3	95
1482		61.8	0.002	0.09	0.27	36.3	1	0.7	198.5	0.20	<0.05	1.46	0.461	0.39	0.6	229
1483		76.0	<0.002	0.09	0.27	34.4	1	0.7	294	0.18	<0.05	1.56	0.438	0.42	0.6	217
1484		47.5	<0.002	0.09	0.19	31.8	<1	0.7	209	0.22	<0.05	1.97	0.514	0.27	0.6	242
1485		42.5	<0.002	0.11	0.29	31.3	1	0.7	319	0.21	<0.05	1.86	0.476	0.22	0.6	228
1486		44.1	<0.002	0.09	0.25	32.5	1	0.7	190.0	0.21	<0.05	1.95	0.501	0.22	0.6	228
1487		60.2	<0.002	0.09	0.25	33.5	1	0.7	175.5	0.22	<0.05	2.10	0.529	0.28	0.6	243
1488		53.0	<0.002	0.12	0.18	33.3	<1	0.8	171.0	0.22	<0.05	2.06	0.521	0.23	0.7	244
1489		64.7	<0.002	0.09	0.24	31.7	1	0.7	228	0.21	<0.05	1.92	0.490	0.27	0.6	226
1490		71.4	0.002	0.14	0.23	33.3	1	0.7	224	0.22	<0.05	2.04	0.508	0.31	0.6	236
1491		57.2	0.002	0.25	0.28	31.2	1	0.8	294	0.22	<0.05	2.03	0.481	0.32	0.6	224
1492		58.9	<0.002	0.09	0.19	31.9	1	0.7	257	0.21	<0.05	1.99	0.503	0.31	0.6	236
1493		67.6	<0.002	0.09	0.23	31.7	1	0.8	246	0.22	<0.05	2.12	0.488	0.34	0.7	232
1494		66.2	<0.002	0.09	0.21	32.7	1	0.7	226	0.20	<0.05	1.89	0.462	0.31	0.6	226
1495		59.8	<0.002	0.07	0.25	31.2	1	0.6	230	0.20	<0.05	1.81	0.451	0.29	0.6	219
1496		73.1	0.002	0.10	0.29	32.9	1	0.7	212	0.21	0.05	1.90	0.483	0.31	0.6	231
1497		61.1	0.009	0.22	0.90	31.7	1	0.6	168.0	0.18	<0.05	1.65	0.415	1.10	3.5	214
1498		79.4	0.002	0.10	0.21	33.4	1	0.7	188.0	0.21	0.05	1.84	0.461	0.39	0.6	226
1499		51.9	0.002	0.06	0.14	27.3	1	0.7	153.5	0.17	<0.05	1.69	0.382	0.23	0.9	214
1500		47.6	0.003	0.04	0.10	24.9	1	0.7	142.5	0.17	<0.05	1.67	0.381	0.23	1.0	214
1501		11.3	<0.002	>10.0	0.10	10.2	2	0.9	235	0.55	<0.05	1.27	0.627	0.16	0.3	89
1502		81.2	0.003	0.08	0.27	37.4	1	0.7	209	0.19	<0.05	1.57	0.423	0.34	0.6	212
1503		57.2	0.002	0.07	0.21	32.2	1	0.8	196.5	0.26	<0.05	2.64	0.376	0.28	1.1	181
1504		73.0	<0.002	0.08	0.26	30.8	<1	0.6	202	0.18	<0.05	1.73	0.424	0.32	0.5	206
1505		65.8	<0.002	0.07	0.19	27.8	1	0.6	197.0	0.18	0.05	1.60	0.410	0.30	0.5	201
1506		81.1	<0.002	0.07	0.19	29.6	<1	0.6	191.5	0.17	<0.05	1.63	0.425	0.35	0.5	209
1507		72.8	<0.002	0.09	0.22	28.0	1	0.6	161.0	0.19	<0.05	1.77	0.413	0.32	0.6	203



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Co % 0.0005	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
1468		0.5	19.6	124	68.8				78.5	94.2
1469		0.3	24.5	117	65.7					86.2
1470		0.4	15.5	122	63.8					
1471		0.3	18.2	125	72.0					
1472		0.3	15.2	129	65.0					
1473		0.3	15.4	118	63.8					
1474		0.3	14.2	118	62.4					
1475		<0.1	1.9	4	1.6					
1476		0.2	14.1	167	58.9					
1477		0.3	15.1	148	63.2					
1478		0.3	14.8	122	71.4					
1479		0.3	15.5	114	68.8					
1480		0.3	16.8	113	69.0					
1481		4.8	12.7	175	90.1	10.00		10.80		
1482		0.3	13.6	123	64.9					
1483		0.3	15.7	185	59.9					
1484		0.4	15.7	224	66.9					
1485		0.4	15.3	182	61.8					
1486		0.3	15.4	159	65.5					
1487		0.4	16.1	125	68.7					
1488		0.3	16.4	145	66.5					
1489		0.3	15.3	100	62.3					
1490		0.3	15.8	103	66.1					
1491		0.3	17.1	105	63.7					
1492		0.3	15.5	126	63.2					
1493		0.3	15.9	107	68.8					
1494		0.3	15.1	99	62.3					
1495		0.3	13.8	101	57.6					
1496		0.3	14.9	91	61.9					
1497		0.3	19.9	121	53.8					
1498		0.3	16.3	85	61.9					
1499		0.4	27.0	57	52.7					
1500		0.4	33.9	46	50.0					
1501		4.5	12.1	164	77.1	9.95		10.70		
1502		0.3	14.0	95	61.1					
1503		0.3	16.4	104	91.8					
1504		0.3	13.5	105	56.8					
1505		0.3	13.1	104	51.3					
1506		0.2	12.7	72	51.6					92.7
1507		0.4	14.0	71	54.1				84.2	92.2



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 Account: BMRPLLBW

Project: Shining Tree-STR21-005

**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1508		2.07	0.07	7.74	3.3	170	0.41	0.05	6.22	0.09	15.80	43.8	196	2.12	92.1	6.59
1509		2.14	0.08	7.69	3.1	160	0.51	0.06	6.36	0.07	16.35	45.1	201	2.10	114.0	6.96
1510		2.16	0.17	7.84	3.0	180	0.64	0.09	6.38	0.05	16.40	46.8	196	2.02	211	6.86
1511		2.02	0.08	7.73	3.2	160	0.47	0.07	6.59	0.08	14.95	54.8	205	1.60	116.0	6.81
1512		2.02	0.28	6.96	2.0	80	0.83	0.17	6.05	0.07	17.00	31.8	168	0.98	1415	6.47
1513		1.77	0.18	6.76	2.3	80	0.91	0.09	5.61	0.06	16.95	27.2	133	1.46	778	5.62
1514		2.05	0.09	7.66	8.0	150	0.68	0.12	6.88	0.06	14.50	42.7	241	1.64	309	6.44
1515		1.55	0.69	8.19	3.5	200	0.86	1.28	8.55	0.06	16.80	39.7	137	0.49	273	8.12
1516		0.93	0.26	8.26	8.3	160	0.86	0.15	7.45	0.06	17.70	45.8	235	1.32	126.0	6.43
1517		2.02	0.11	7.57	5.9	120	0.76	0.08	6.78	0.04	19.50	38.5	238	1.73	517	6.72
1518		1.44	0.10	7.10	104.0	90	0.90	0.62	10.40	0.05	20.4	93.6	236	1.76	122.0	5.71
1519		0.59	0.29	7.20	84.3	70	0.90	0.51	8.46	0.11	18.40	79.8	291	0.80	286	6.47
1520		0.69	0.18	7.47	71.6	70	0.96	0.50	7.61	0.09	16.15	78.1	298	0.77	133.0	6.85
1521		0.02	1.63	2.79	11.8	70	0.37	0.21	2.19	4.87	17.45	>10000	79	0.39	>10000	2.87
1522		1.84	0.10	7.50	6.1	100	0.81	0.06	6.63	0.08	13.85	44.3	377	0.59	124.5	6.54
1523		1.02	0.12	7.05	3.5	140	0.56	0.07	7.20	0.07	26.2	44.9	426	0.59	116.5	7.25
1524		1.13	0.34	8.15	3.2	140	0.64	0.18	6.26	0.09	20.1	60.4	87	0.53	519	7.44
1525		0.53	<0.01	0.10	0.8	50	0.05	0.01	32.2	<0.02	0.95	10.5	2	<0.05	3.9	0.15
1526		1.82	0.16	7.70	3.3	110	0.70	0.21	6.36	1.12	15.10	45.3	96	0.98	113.5	6.87
1527		1.10	0.18	5.73	12.0	30	0.87	0.59	15.30	0.03	25.0	32.9	66	0.54	33.0	4.26
1528		0.87	0.54	7.72	3.6	120	0.97	0.11	7.18	0.06	15.60	41.8	96	0.84	907	6.87
1529		1.52	0.25	7.91	13.1	190	0.61	0.70	7.20	0.22	15.05	46.8	84	1.36	112.0	7.07
1530		1.54	0.18	4.34	56.2	50	0.54	1.49	20.6	0.03	34.7	49.0	42	0.76	55.2	3.87



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Project: Shining Tree-STR21-005

**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1508		15.25	0.08	1.4	0.052	2.00	6.9	41.3	4.32	1200	0.33	1.81	2.5	129.5	280	3.7
1509		15.20	0.08	1.4	0.049	1.95	7.2	39.0	4.51	1200	0.32	1.72	2.5	134.5	270	10.2
1510		15.65	0.08	1.4	0.058	1.91	7.4	40.2	4.33	1110	0.28	1.95	2.5	128.5	260	9.4
1511		14.60	0.07	1.4	0.048	1.66	6.6	43.0	4.57	1380	0.31	1.95	2.3	142.5	260	19.0
1512		14.75	0.07	2.1	0.071	0.87	8.3	41.6	3.63	1020	0.32	2.54	3.1	91.7	250	12.8
1513		15.75	0.07	4.9	0.073	1.07	7.9	31.3	2.80	943	0.43	2.47	5.0	72.7	230	3.9
1514		14.25	0.07	1.3	0.053	1.84	6.6	37.6	4.13	1240	0.31	1.91	2.2	127.5	240	7.6
1515		21.1	0.07	1.2	0.112	0.88	8.3	30.2	3.78	2680	0.29	1.99	2.0	110.0	220	316
1516		16.00	0.08	1.5	0.077	1.73	8.3	44.9	3.78	1260	0.36	2.32	2.5	134.5	270	91.1
1517		15.90	0.08	2.4	0.067	1.53	9.0	34.7	3.75	1070	0.46	2.03	3.7	123.0	300	6.5
1518		14.15	0.07	1.2	0.106	1.53	9.4	38.8	3.55	1480	2.73	1.66	2.2	134.0	250	4.3
1519		14.40	0.06	1.3	0.136	0.81	8.6	57.7	3.37	1090	1.06	2.47	2.2	128.0	260	62.5
1520		15.40	0.06	1.3	0.111	0.79	7.6	68.8	3.58	1120	0.90	2.62	2.3	132.0	270	59.0
1521		6.92	0.26	0.9	0.026	0.26	9.3	3.5	1.30	370	3.50	0.86	8.0	>10000	490	30.4
1522		15.80	0.15	1.3	0.064	1.28	5.8	44.0	4.17	1240	0.31	2.49	2.3	140.0	240	66.7
1523		15.45	0.13	1.4	0.062	1.46	12.5	34.2	4.45	1260	0.53	1.94	2.3	130.0	250	5.2
1524		16.40	0.06	1.4	0.070	1.31	9.0	38.7	4.15	1380	0.39	2.53	2.3	117.5	270	25.0
1525		0.30	0.07	0.1	<0.005	0.02	1.1	1.2	2.82	134	0.05	0.04	0.1	11.0	40	1.2
1526		15.25	0.06	1.4	0.075	1.41	6.7	43.0	3.82	1210	0.34	2.43	2.3	91.5	250	249
1527		11.40	0.06	0.9	0.252	0.43	11.0	42.8	1.55	1160	1.69	2.65	1.6	53.9	170	13.6
1528		14.70	0.07	1.4	0.095	1.59	6.9	27.1	3.28	1320	0.33	2.42	2.4	88.1	260	6.4
1529		15.30	0.07	1.4	0.065	1.63	6.5	43.8	3.74	1370	0.31	1.97	2.4	105.5	270	111.0
1530		10.70	0.08	0.7	0.375	0.45	14.4	28.2	1.47	2460	5.98	1.70	1.4	60.5	140	34.4



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Project: Shining Tree-STR21-005

**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
1508		66.9	<0.002	0.06	0.20	29.5	1	0.6	181.5	0.18	<0.05	1.64	0.406	0.35	0.5	199
1509		79.8	<0.002	0.08	0.26	29.6	1	0.6	176.5	0.18	<0.05	1.61	0.402	0.38	0.5	205
1510		81.2	<0.002	0.12	0.30	28.4	1	0.7	185.5	0.18	<0.05	1.65	0.400	0.35	0.6	196
1511		60.5	<0.002	0.06	0.29	28.1	<1	0.5	180.5	0.16	<0.05	1.59	0.398	0.27	0.5	196
1512		31.8	<0.002	0.19	0.22	20.0	1	0.6	96.8	0.23	<0.05	2.57	0.340	0.13	1.2	150
1513		45.6	<0.002	0.12	0.23	17.1	1	0.8	98.3	0.47	<0.05	6.19	0.301	0.19	2.8	117
1514		65.0	<0.002	0.09	0.20	27.3	1	0.5	172.0	0.16	<0.05	1.49	0.385	0.28	0.5	195
1515		24.7	0.002	0.08	0.32	24.8	1	0.7	1030	0.15	<0.05	1.32	0.352	0.14	0.6	224
1516		79.1	<0.002	0.07	0.25	31.1	<1	0.6	168.0	0.18	<0.05	1.77	0.415	0.34	0.5	204
1517		69.2	<0.002	0.10	0.33	26.0	<1	0.8	131.0	0.28	<0.05	2.99	0.375	0.27	1.4	175
1518		70.0	0.002	0.06	0.31	27.8	<1	0.5	118.5	0.16	<0.05	1.50	0.353	0.26	1.7	188
1519		35.1	<0.002	0.11	0.28	26.2	<1	0.6	107.0	0.17	<0.05	1.56	0.374	0.14	0.6	191
1520		34.0	<0.002	0.07	0.24	27.2	<1	0.6	103.5	0.17	<0.05	1.49	0.385	0.16	0.5	195
1521		7.7	<0.002	>10.0	0.12	6.4	2	0.7	147.5	0.33	<0.05	0.78	0.413	0.21	0.2	59
1522		55.1	0.003	0.07	0.31	34.3	1	0.7	146.5	0.16	<0.05	1.50	0.361	0.22	0.6	197
1523		71.1	0.003	0.07	0.34	36.0	1	1.2	159.5	0.16	<0.05	1.66	0.370	0.32	0.6	201
1524		57.7	<0.002	0.17	0.21	29.1	1	1.0	173.5	0.16	<0.05	1.32	0.411	0.25	0.6	207
1525		0.7	<0.002	<0.01	0.07	0.3	1	<0.2	75.0	<0.05	<0.05	0.08	0.007	<0.02	0.1	2
1526		55.5	<0.002	0.08	0.18	30.5	<1	0.7	160.0	0.16	<0.05	1.47	0.410	0.26	0.5	210
1527		19.2	<0.002	0.03	0.09	27.7	<1	0.5	63.4	0.10	<0.05	0.88	0.296	0.07	0.4	146
1528		71.8	<0.002	0.18	0.23	28.6	<1	0.7	147.5	0.17	<0.05	1.39	0.426	0.25	0.5	208
1529		76.5	<0.002	0.07	0.24	30.0	<1	0.6	163.5	0.17	<0.05	1.43	0.441	0.33	0.5	214
1530		22.2	0.003	0.03	0.12	30.7	1	0.4	84.7	0.09	<0.05	0.76	0.237	0.11	0.5	135



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Project: Shining Tree-STR21-005

**CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
1508		0.3	12.8	80	53.8					
1509		0.3	13.0	75	51.1					
1510		0.3	13.4	68	51.2					
1511		0.3	12.3	98	49.8					
1512		0.3	11.8	106	81.2					
1513		0.4	16.2	64	189.5					
1514		0.3	12.0	79	48.0					
1515		0.3	17.7	151	44.0					
1516		0.4	13.8	87	53.8					
1517		0.4	15.4	55	91.9					
1518		0.3	18.5	55	48.0					
1519		0.3	15.2	102	46.6					
1520		0.3	13.6	108	49.5					
1521		6.4	7.5	207	50.8	14.90	1.265	15.85		
1522		0.2	10.7	111	53.2					
1523		0.7	11.9	86	57.0					
1524		0.6	14.1	153	53.9					
1525		0.1	1.7	4	1.8					
1526		0.3	14.0	266	55.4					
1527		0.3	32.9	77	35.3					
1528		0.3	13.8	102	55.7					
1529		0.2	13.9	121	53.5					
1530		0.2	54.2	37	28.3					





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**CERTIFICATE OF ANALYSIS SD21064973**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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 26-APR-2021  
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**QC CERTIFICATE SD21064973**

Project: Shining Tree-STR21-005  
 P.O. No.: STR21-005  
 This report is for 63 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		69.8	4.91	618	130	2.00	5.76	2.03	21.3	48.1	789	57	7.17	8400	5.01	12.20
EMOG-17		68.6	4.82	613	160	1.78	5.63	2.01	20.0	46.2	774	56	7.27	8370	4.94	11.75
EMOG-17		68.6	4.60	593	770	1.70	5.31	1.90	19.70	44.4	756	54	6.82	8500	4.82	11.75
Target Range - Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.20	7.44	33.7	1110	3.24	0.62	2.72	2.17	82.2	20.8	90	12.95	629	3.99	17.90
Target Range - Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.49	7.59	34.7	2840	2.92	5.49	0.62	0.32	93.7	15.2	18	6.74	1505	4.11	23.5
Target Range - Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.12	7.92	5.0	570	2.69	0.62	0.53	0.05	96.0	14.4	84	8.30	106.5	4.12	19.75
OREAS 920		0.08	8.14	5.4	590	2.61	0.63	0.53	0.06	98.3	17.6	86	9.25	114.5	4.26	20.1
Target Range - Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																

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



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Project: Shining Tree-STR21-005  
**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.11	1.9	0.959	1.71	25.6	28.4	0.99	759	1105	1.13	15.5	7510	860	7200	112.5
EMOG-17		0.11	1.8	0.930	1.67	23.7	26.8	0.98	746	1095	1.11	14.4	7400	830	7140	110.5
EMOG-17		0.12	1.7	0.888	1.65	22.0	25.2	0.95	742	1075	1.09	13.0	7800	830	7410	106.5
Target Range - Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.17	3.2	0.172	3.17	40.1	32.5	1.33	550	13.70	2.00	20.7	681	1070	1060	205
Target Range - Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.16	6.4	0.635	2.92	46.1	18.8	0.27	369	3.14	2.47	18.2	10.0	280	30.6	136.5
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.20	4.6	0.082	2.91	47.1	28.6	1.36	593	0.40	0.65	16.9	38.9	770	23.3	170.5
OREAS 920		0.17	4.8	0.081	3.01	49.6	32.1	1.40	609	0.39	0.66	17.9	41.4	780	24.8	183.5
Target Range - Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																



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Project: Shining Tree-STR21-005  
**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.337	3.48	837	8.5	7	2.6	216	0.91	1.37	11.70	0.346	2.26	2.9	76	4.1
EMOG-17		0.309	3.42	841	7.4	6	2.6	210	0.89	1.24	10.85	0.343	2.17	3.1	76	3.7
EMOG-17		0.301	3.25	813	8.0	6	2.6	213	0.81	1.34	11.55	0.319	2.02	3.0	73	3.3
Target Range - Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.009	0.32	4.41	12.6	1	3.9	313	1.45	<0.05	22.0	0.520	1.01	5.8	112	4.6
Target Range - Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		<0.002	0.07	2.09	4.5	3	3.7	163.0	1.23	0.08	14.75	0.127	0.70	4.8	10	2.5
Target Range - Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.56	14.4	1	4.9	81.0	1.30	<0.05	18.75	0.504	0.88	3.3	100	3.1
OREAS 920		<0.002	0.03	1.47	13.6	1	5.0	86.9	1.35	<0.05	19.55	0.517	0.94	3.6	103	3.1
Target Range - Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>STANDARDS</b>							
AMIS0160					3.09	2.01	0.004
Target Range – Lower Bound					2.99	1.970	<0.001
Upper Bound					3.21	2.11	0.005
CCU-1e					0.0316	23.2	0.001
Target Range – Lower Bound					0.0285	22.1	
Upper Bound					0.0317	23.7	
EMOG-17		16.6	7850	68.9			
EMOG-17		15.8	7740	63.5			
EMOG-17		15.5	7420	63.0			
Target Range – Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
GBM903-13					0.0047	2.87	2.46
Target Range – Lower Bound					0.0041	2.79	2.35
Upper Bound					0.0059	3.00	2.52
MP-1b					<0.0005	3.00	0.001
Target Range – Lower Bound					<0.0005	2.96	<0.001
Upper Bound					0.0014	3.18	0.002
MRGeo08		27.9	803	107.5			
Target Range – Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 621					0.0050	0.359	0.005
Target Range – Lower Bound					0.0020	0.349	<0.001
Upper Bound					0.0039	0.377	0.005
OREAS 905		15.7	141	258			
Target Range – Lower Bound		14.0	122	214			
Upper Bound		17.4	154	290			
OREAS 920		32.8	120	165.0			
OREAS 920		33.3	123	166.0			
Target Range – Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS-76a					0.1170	0.288	7.06
Target Range – Lower Bound					0.1145	0.274	7.03
Upper Bound					0.1240	0.296	7.55



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>BLANKS</b>																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		0.02	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	0.1	<1	<0.05	0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1493		0.19	7.92	5.2	210	0.56	0.07	6.60	0.07	19.85	43.6	65	0.82	184.5	7.69	16.30
DUP		0.13	7.69	4.8	210	0.54	0.07	6.55	0.08	19.85	43.6	64	0.85	188.0	7.69	16.50
Target Range – Lower Bound		0.14	7.40	4.6	180	0.47	0.06	6.24	0.05	18.85	41.3	60	0.74	179.5	7.30	15.55
Upper Bound		0.18	8.21	5.5	240	0.63	0.08	6.91	0.10	20.9	45.9	69	0.93	193.0	8.08	17.25
1523		0.12	7.05	3.5	140	0.56	0.07	7.20	0.07	26.2	44.9	426	0.59	116.5	7.25	15.45
DUP		0.10	7.33	4.0	150	0.63	0.08	7.48	0.07	26.0	45.4	436	0.62	124.0	7.56	15.75
Target Range – Lower Bound		0.09	6.82	3.4	120	0.52	0.06	6.96	0.05	24.8	42.8	408	0.52	116.0	7.02	14.75
Upper Bound		0.13	7.56	4.1	170	0.67	0.09	7.72	0.09	27.4	47.5	454	0.69	124.5	7.79	16.45
1529		0.25	7.91	13.1	190	0.61	0.70	7.20	0.22	15.05	46.8	84	1.36	112.0	7.07	15.30
DUP		0.13	7.78	12.0	190	0.56	0.32	7.09	0.22	14.40	44.7	86	1.33	111.5	6.97	14.75
Target Range – Lower Bound		0.17	7.44	11.7	170	0.51	0.47	6.78	0.19	14.00	43.4	80	1.23	107.5	6.66	14.20
Upper Bound		0.21	8.25	13.4	210	0.66	0.55	7.51	0.25	15.45	48.1	90	1.46	116.0	7.38	15.85
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL		0.06	7.31	9.6	390	0.83	0.02	4.98	0.05	31.5	21.3	34	8.71	32.1	4.22	17.00
DUP		0.06	7.37	10.1	380	0.76	0.02	4.85	0.05	31.2	23.8	34	8.43	31.9	4.13	16.05
Target Range – Lower Bound		0.05	6.96	9.2	350	0.71	<0.01	4.66	0.03	29.8	21.3	31	8.09	30.7	3.96	15.65
Upper Bound		0.07	7.72	10.5	420	0.88	0.03	5.17	0.07	32.9	23.8	37	9.05	33.3	4.39	17.40



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
Sample Description	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	
	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1	
<b>BLANKS</b>																
BLANK	<0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	
BLANK	0.07	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	
BLANK	0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	
BLANK	0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	
Target Range – Lower Bound	<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1	
Upper Bound	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2	
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1493	0.09	1.9	0.070	1.74	9.3	33.4	3.86	1310	0.38	2.27	3.0	98.9	350	13.8	67.6	
DUP	0.07	1.9	0.068	1.73	9.3	31.5	3.83	1300	0.42	2.28	3.1	99.2	340	14.3	65.3	
Target Range – Lower Bound	<0.05	1.7	0.061	1.64	8.3	30.6	3.64	1235	0.33	2.15	2.8	93.9	320	12.8	63.0	
Upper Bound	0.10	2.1	0.077	1.83	10.3	34.3	4.05	1375	0.47	2.40	3.3	104.0	370	15.3	69.9	
1523	0.13	1.4	0.062	1.46	12.5	34.2	4.45	1260	0.53	1.94	2.3	130.0	250	5.2	71.1	
DUP	0.09	1.5	0.058	1.51	11.5	34.1	4.62	1300	0.59	2.02	2.3	132.0	260	5.1	72.0	
Target Range – Lower Bound	<0.05	1.3	0.052	1.40	10.9	32.2	4.30	1210	0.48	1.87	2.1	124.5	230	4.4	67.9	
Upper Bound	0.17	1.6	0.068	1.57	13.1	36.1	4.77	1350	0.64	2.09	2.5	138.0	280	5.9	75.2	
1529	0.07	1.4	0.065	1.63	6.5	43.8	3.74	1370	0.31	1.97	2.4	105.5	270	111.0	76.5	
DUP	0.08	1.4	0.067	1.60	6.3	46.1	3.68	1360	0.26	1.94	2.3	102.0	270	101.5	73.6	
Target Range – Lower Bound	<0.05	1.2	0.058	1.52	5.6	42.5	3.51	1290	0.22	1.85	2.1	98.4	250	100.5	71.2	
Upper Bound	0.10	1.6	0.074	1.71	7.2	47.4	3.91	1440	0.35	2.06	2.6	109.0	290	112.0	78.9	
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL	0.13	2.8	0.029	1.70	14.9	92.0	2.32	564	1.01	1.20	3.0	37.6	420	4.0	43.3	
DUP	0.09	2.8	0.024	1.69	15.6	86.8	2.28	553	0.84	1.16	2.8	38.6	410	3.8	44.7	
Target Range – Lower Bound	<0.05	2.6	0.020	1.60	14.0	84.7	2.18	526	0.83	1.11	2.7	36.0	380	3.2	41.7	
Upper Bound	0.17	3.0	0.033	1.79	16.5	94.1	2.43	591	1.02	1.25	3.1	40.2	450	4.6	46.3	





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 Account: BMRPLLBW

Project: Shining Tree-STR21-005

**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	0.07	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1493		<0.002	0.09	0.23	31.7	1	0.8	246	0.22	<0.05	2.12	0.488	0.34	0.7	232	0.3
DUP		<0.002	0.09	0.25	32.3	1	0.8	246	0.22	<0.05	2.15	0.483	0.34	0.7	232	0.3
Target Range – Lower Bound		<0.002	0.08	0.17	30.3	<1	0.6	234	0.16	<0.05	2.02	0.456	0.29	0.6	219	0.2
Upper Bound		0.004	0.10	0.31	33.7	2	1.0	259	0.28	0.10	2.25	0.515	0.39	0.8	245	0.4
1523		0.003	0.07	0.34	36.0	1	1.2	159.5	0.16	<0.05	1.66	0.370	0.32	0.6	201	0.7
DUP		0.002	0.07	0.35	37.2	1	1.3	167.5	0.17	<0.05	1.66	0.374	0.31	0.6	206	0.8
Target Range – Lower Bound		<0.002	0.06	0.27	34.7	<1	1.0	155.0	0.11	<0.05	1.57	0.348	0.27	0.5	192	0.6
Upper Bound		0.004	0.08	0.42	38.5	2	1.5	172.0	0.22	0.10	1.75	0.396	0.36	0.7	215	0.9
1529		<0.002	0.07	0.24	30.0	<1	0.6	163.5	0.17	<0.05	1.43	0.441	0.33	0.5	214	0.2
DUP		<0.002	0.07	0.22	29.7	1	0.6	160.5	0.16	<0.05	1.36	0.429	0.31	0.5	212	0.2
Target Range – Lower Bound		<0.002	0.06	0.16	28.3	<1	0.4	153.5	0.11	<0.05	1.32	0.408	0.28	0.4	201	<0.1
Upper Bound		0.004	0.08	0.30	31.4	2	0.8	170.5	0.22	0.10	1.47	0.462	0.36	0.6	225	0.3
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL		0.002	0.06	1.24	12.1	1	0.6	265	0.32	<0.05	2.31	0.111	0.37	0.7	76	1.5
DUP		0.002	0.07	1.16	11.5	1	0.5	260	0.30	<0.05	2.27	0.106	0.37	0.7	75	1.5
Target Range – Lower Bound		<0.002	0.05	1.06	11.1	<1	0.3	249	0.24	<0.05	2.17	0.098	0.32	0.6	71	1.3
Upper Bound		0.004	0.08	1.34	12.5	2	0.8	276	0.38	0.10	2.41	0.119	0.42	0.8	80	1.7

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



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Project: Shining Tree-STR21-005  
**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>BLANKS</b>							
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK					<0.0005	<0.001	<0.001
Target Range – Lower Bound					<0.0005	<0.001	<0.001
Upper Bound					0.0010	0.002	0.002
<b>DUPLICATES</b>							
1493		15.9	107	68.8			
DUP		16.6	108	68.5			
Target Range – Lower Bound		15.3	100	63.0			
Upper Bound		17.2	115	74.3			
1523		11.9	86	57.0			
DUP		12.2	89	56.0			
Target Range – Lower Bound		11.3	81	51.8			
Upper Bound		12.8	94	61.2			
1529		13.9	121	53.5			
DUP		13.4	119	53.0			
Target Range – Lower Bound		12.9	112	48.8			
Upper Bound		14.4	128	57.7			
ORIGINAL						1.265	
DUP						1.200	
Target Range – Lower Bound						1.200	
Upper Bound						1.265	
ORIGINAL		7.8	85	111.0			
DUP		7.5	82	108.0			
Target Range – Lower Bound		7.2	77	101.0			
Upper Bound		8.1	90	118.0			



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Project: Shining Tree-STR21-005

<b>QC CERTIFICATE OF ANALYSIS</b>	<b>SD21064973</b>
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Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>PREP DUPLICATES</b>																
1527		0.18	5.73	12.0	30	0.87	0.59	15.30	0.03	25.0	32.9	66	0.54	33.0	4.26	11.40
1527 PREP DUP		0.15	5.92	11.4	40	0.87	0.55	16.55	0.02	27.5	40.5	65	0.56	43.1	4.28	11.55

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



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
<b>PREP DUPLICATES</b>																
1527		0.06	0.9	0.252	0.43	11.0	42.8	1.55	1160	1.69	2.65	1.6	53.9	170	13.6	19.2
1527 PREP DUP		0.06	1.0	0.273	0.48	12.0	41.5	1.59	1320	1.33	2.70	1.6	64.7	200	14.3	22.0

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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
		<b>PREP DUPLICATES</b>														
1527		<0.002	0.03	0.09	27.7	<1	0.5	63.4	0.10	<0.05	0.88	0.296	0.07	0.4	146	0.3
1527 PREP DUP		<0.002	0.04	0.09	29.0	<1	0.4	70.0	0.11	<0.05	0.95	0.307	0.08	0.4	148	0.4



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**QC CERTIFICATE OF ANALYSIS SD21064973**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>PREP DUPLICATES</b>							
1527 1527 PREP DUP		32.9	77	35.3			
		36.4	74	35.4			



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<b>QC CERTIFICATE OF ANALYSIS SD21064973</b>
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	<b>CERTIFICATE COMMENTS</b>
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	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
Applies to Method:	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0"> <tr> <td>Co-OG62</td> <td>Cu-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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 26-APR-2021  
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**CERTIFICATE SD21064978**

Project: Shining Tree-STR21-006  
 P.O. No.: STR21-006  
 This report is for 55 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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 Account: BMRPLLBW

Project: Shining Tree-STR21-006

**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1531		1.35	2.57	7.40	291	180	1.03	1.26	7.16	0.07	27.0	241	31	1.63	676	7.73
1532		2.01	0.35	7.58	12.6	170	0.58	0.22	5.83	0.54	19.65	48.2	32	1.00	157.0	8.36
1533		2.08	0.30	7.69	8.3	210	0.64	0.16	6.14	0.08	20.9	48.6	31	0.88	152.0	8.12
1534		1.92	0.52	7.27	6.8	190	0.46	0.09	6.29	0.08	20.9	49.7	35	0.71	127.0	8.29
1535		1.96	0.38	7.63	4.3	190	0.63	0.09	5.25	0.28	20.5	48.5	29	1.00	175.5	8.76
1536		0.95	2.36	7.30	6.6	170	1.02	0.08	6.15	0.05	35.6	32.1	26	0.92	1240	6.43
1537		1.13	0.91	6.63	384	110	0.97	2.78	10.60	0.03	25.9	293	24	0.96	98.2	6.34
1538		2.01	0.35	7.43	8.6	190	0.54	0.09	5.95	0.79	19.95	47.9	31	0.87	172.0	8.29
1539		0.81	0.37	7.43	6.9	160	0.48	0.09	6.44	0.38	19.90	49.1	27	0.73	191.0	8.32
1540		1.07	0.42	7.66	5.8	160	0.50	0.08	6.27	0.20	19.60	57.3	27	0.74	185.5	8.55
1541		0.02	0.74	7.17	2.4	260	0.94	0.06	5.78	0.78	35.9	>10000	165	0.71	1880	7.22
1542		1.00	0.40	8.01	9.6	130	0.47	0.06	3.15	4.31	18.90	77.1	30	4.10	159.5	9.42
1543		1.41	0.35	7.42	7.3	210	0.56	0.06	4.98	1.15	19.60	53.8	28	2.70	164.5	8.57
1544		0.96	0.66	6.43	309	140	1.14	2.07	9.58	0.24	23.8	237	24	1.75	147.0	5.73
1545		0.93	0.57	7.16	3.3	210	0.58	0.76	6.34	0.10	18.40	44.3	31	0.88	195.0	8.94
1546		1.66	0.36	7.46	6.5	220	0.61	0.11	5.80	0.29	19.15	47.7	34	1.00	333	8.45
1547		1.71	1.32	7.12	1140	140	0.85	4.49	6.24	0.23	17.50	782	52	2.08	108.5	7.20
1548		1.17	0.44	7.37	14.3	140	0.82	0.14	6.32	0.24	19.15	42.8	53	2.44	179.0	7.15
1549		1.96	0.26	7.39	7.0	200	0.57	0.05	5.22	0.47	16.75	43.4	58	2.15	142.5	7.29
1550		1.06	0.71	6.92	3.0	160	0.83	0.19	9.34	0.31	35.6	47.9	175	1.44	2780	7.44
1551		1.60	0.08	7.71	29.5	130	0.79	0.35	8.28	0.11	18.90	43.5	153	1.59	117.0	6.00
1552		0.97	0.05	5.50	6.0	30	2.12	0.26	17.80	<0.02	35.8	16.7	82	0.77	31.3	4.30
1553		1.26	0.14	7.11	39.8	130	0.65	0.35	7.38	0.07	21.0	54.3	180	1.33	144.5	6.61
1554		1.05	0.37	7.75	19.7	170	0.50	0.63	6.79	0.08	18.40	57.6	71	0.82	447	7.53
1555		1.05	2.28	7.42	2.1	150	0.82	0.27	5.53	0.17	22.4	44.4	78	0.91	5880	7.87
1556		1.47	0.14	7.17	14.3	220	0.37	0.05	5.30	0.34	12.30	51.0	83	2.41	128.5	7.79
1557		1.82	0.15	6.99	4.6	200	0.34	0.04	5.65	0.69	12.75	51.1	78	1.87	120.0	7.52
1558		1.50	0.13	7.09	18.8	190	0.71	0.05	6.27	0.78	13.05	49.6	72	2.64	103.0	7.29
1559		0.71	0.13	7.58	2.2	150	1.36	0.08	6.86	1.58	13.75	43.6	84	2.03	179.0	7.14
1560		1.00	0.14	7.63	3.2	140	1.27	0.10	7.30	1.48	14.55	45.2	86	2.03	257	7.23
1561		0.02	1.04	4.40	7.7	110	0.54	0.15	3.48	2.91	22.8	>10000	121	0.46	8430	4.42
1562		2.02	0.12	6.57	1.1	30	1.03	0.08	8.29	<0.02	14.90	30.1	62	0.97	253	5.87
1563		2.01	0.10	7.30	2.1	210	0.81	0.10	6.34	0.25	16.15	43.6	62	1.88	125.0	7.48
1564		2.11	0.19	7.32	10.7	140	1.00	0.19	6.49	0.55	20.6	43.1	61	1.71	404	9.15
1565		1.77	0.17	7.59	22.2	240	0.86	0.07	6.25	0.51	16.70	49.2	63	2.36	121.5	7.73
1566		1.01	0.31	7.43	2.1	100	0.58	0.10	6.53	0.15	15.10	47.0	68	0.50	118.5	8.09
1567		1.99	0.21	6.96	14.6	90	1.01	0.27	6.69	0.82	16.75	59.1	67	2.07	203	7.79
1568		1.67	0.12	7.35	2.0	90	0.89	0.26	6.94	0.06	17.75	41.8	70	1.92	459	6.55
1569		2.06	0.15	7.49	1.8	90	0.87	0.38	7.50	0.04	15.00	33.2	85	1.10	339	5.91
1570		2.06	0.16	7.13	5.4	100	1.02	0.30	6.34	0.04	16.60	54.0	82	1.49	293	7.42



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**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
1531		16.25	0.07	1.7	0.148	1.36	12.2	40.8	3.27	1270	4.62	2.59	2.8	87.2	320	127.5
1532		16.45	0.08	1.9	0.067	1.71	9.3	28.8	3.60	1560	0.58	2.53	3.2	82.0	370	75.4
1533		17.40	0.08	1.9	0.065	1.70	9.7	27.9	3.53	1380	0.63	2.37	3.3	82.4	340	28.2
1534		17.00	0.09	1.9	0.064	1.44	9.7	26.9	3.67	1380	0.56	2.33	3.5	84.2	380	23.6
1535		16.85	0.08	2.0	0.072	1.32	9.6	35.1	3.56	1460	0.54	2.82	3.4	75.4	370	106.0
1536		16.80	0.10	2.8	0.194	1.20	15.7	26.0	2.42	1100	0.44	3.24	3.0	59.0	280	9.7
1537		14.15	0.07	1.6	0.179	0.99	11.6	32.3	2.46	1250	13.50	2.77	2.7	90.3	310	48.8
1538		16.95	0.07	1.9	0.064	1.66	9.1	29.7	3.55	1630	0.43	2.46	3.2	83.2	370	62.8
1539		16.50	0.09	1.8	0.063	1.49	9.5	27.2	3.52	1560	0.48	2.56	3.1	76.4	350	60.9
1540		16.85	0.08	1.8	0.063	1.49	9.2	27.5	3.61	1580	0.38	2.77	3.1	88.6	360	66.7
1541		17.50	0.10	3.1	0.056	0.67	18.0	6.8	3.78	962	2.42	2.19	20.7	>10000	1490	17.4
1542		17.90	0.08	1.9	0.073	1.18	8.5	94.4	4.77	1260	0.51	2.62	3.4	105.0	380	287
1543		16.25	0.07	1.8	0.061	1.78	9.2	55.4	3.70	1480	0.56	2.17	3.1	84.3	360	323
1544		15.10	0.07	1.7	0.154	1.15	11.3	48.3	2.03	1490	10.80	2.29	2.7	84.7	310	82.0
1545		15.95	0.07	1.8	0.068	1.54	8.5	28.6	3.40	1470	1.31	2.09	2.9	78.6	330	72.3
1546		16.70	0.08	1.8	0.071	1.59	8.6	34.7	3.69	1740	0.46	2.26	3.1	82.4	360	86.9
1547		16.70	0.08	1.6	0.095	1.10	7.2	60.6	3.13	1100	7.43	2.61	2.7	218	300	198.5
1548		16.40	0.09	1.9	0.126	1.07	8.9	64.2	3.23	1180	0.53	2.66	2.9	88.9	300	165.0
1549		15.50	0.08	1.6	0.052	1.47	7.7	58.2	3.68	1440	0.37	2.41	2.7	91.5	320	282
1550		17.55	0.08	1.6	0.204	1.17	14.9	43.5	4.06	1380	0.61	2.08	2.8	117.0	310	14.5
1551		16.25	0.07	1.6	0.120	1.26	8.9	44.5	2.89	1480	0.41	2.75	2.7	106.0	310	12.4
1552		16.40	0.10	1.3	0.386	0.30	15.9	38.5	1.13	2760	0.50	2.72	2.1	81.7	230	14.0
1553		15.95	0.07	1.9	0.100	1.07	10.1	39.4	2.81	1470	0.57	2.61	3.2	98.5	340	180.0
1554		15.95	0.08	1.5	0.075	1.73	8.4	32.8	3.90	1460	0.85	2.07	2.5	92.3	280	19.3
1555		18.80	0.09	1.4	0.186	1.28	10.4	34.4	3.82	1120	0.82	2.21	2.4	96.4	260	9.1
1556		14.10	0.07	1.3	0.053	1.87	5.2	44.1	5.25	1470	0.33	1.46	2.1	148.0	240	62.9
1557		14.00	0.07	1.2	0.050	1.97	5.3	36.0	5.02	1420	0.35	1.44	2.1	150.5	230	184.0
1558		13.75	0.07	1.2	0.047	1.35	5.6	65.7	4.49	1710	0.30	1.69	2.0	140.0	230	307
1559		14.80	0.06	1.2	0.074	1.13	6.2	62.6	3.54	1760	0.31	2.45	2.1	139.0	250	267
1560		15.10	0.07	1.2	0.078	1.03	6.7	64.9	3.54	1790	0.26	2.58	2.2	145.0	250	153.0
1561		10.55	0.19	1.5	0.036	0.40	11.6	4.3	2.16	582	5.69	1.34	12.7	>10000	860	21.6
1562		17.25	0.07	1.3	0.141	0.24	6.3	45.8	2.15	1480	0.32	3.21	2.0	116.0	270	7.3
1563		17.70	0.12	1.6	0.085	1.47	6.5	45.7	3.30	1660	0.36	2.12	2.5	100.0	300	26.2
1564		16.85	0.05	1.4	0.088	0.96	9.2	48.9	3.35	1560	0.30	2.56	3.1	100.5	380	146.5
1565		17.30	0.13	1.5	0.056	1.78	6.9	50.4	3.96	1760	0.38	2.03	2.7	94.9	320	135.0
1566		16.45	0.12	1.5	0.060	1.12	6.1	31.1	3.83	2020	0.43	2.15	2.5	100.5	300	320
1567		16.75	0.08	1.4	0.112	1.17	6.9	48.5	4.97	1580	0.48	1.85	2.4	213	270	139.0
1568		17.05	0.12	1.4	0.138	0.90	7.3	52.3	3.33	1680	0.39	2.63	2.2	114.0	250	8.1
1569		15.25	0.09	1.2	0.098	1.16	6.5	35.4	3.28	1760	0.28	2.58	1.9	103.0	250	12.5
1570		17.50	0.11	1.3	0.065	1.18	7.4	51.4	4.79	1620	0.36	1.94	2.2	188.0	270	12.8



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**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
1531		50.5	<0.002	0.16	0.54	28.8	1	0.9	118.0	0.21	<0.05	1.93	0.513	0.24	0.8	234
1532		69.7	<0.002	0.11	0.57	31.4	1	0.9	155.5	0.24	<0.05	2.03	0.549	0.30	0.6	246
1533		69.4	<0.002	0.09	0.29	31.7	<1	0.9	200	0.23	<0.05	2.11	0.539	0.28	0.7	244
1534		56.7	0.002	0.10	0.27	32.8	<1	0.9	231	0.25	<0.05	2.18	0.573	0.24	0.7	251
1535		54.4	<0.002	0.11	0.27	32.2	1	0.8	227	0.24	<0.05	2.18	0.576	0.23	0.7	253
1536		48.9	<0.002	0.17	0.25	27.0	<1	0.9	126.5	0.26	<0.05	3.29	0.481	0.22	1.1	215
1537		41.7	<0.002	0.09	0.44	29.4	<1	0.6	121.0	0.20	<0.05	1.65	0.465	0.26	0.6	210
1538		67.0	<0.002	0.10	0.40	32.1	1	0.9	179.5	0.24	<0.05	2.03	0.539	0.27	0.6	246
1539		59.2	0.002	0.11	0.28	30.2	1	0.8	180.0	0.23	<0.05	1.94	0.531	0.25	0.6	237
1540		60.0	<0.002	0.11	0.29	30.6	<1	0.8	184.5	0.23	<0.05	1.99	0.532	0.21	0.6	242
1541		19.7	<0.002	2.73	2.36	17.8	1	1.3	422	1.15	<0.05	2.35	1.070	0.10	0.6	149
1542		59.8	<0.002	0.14	0.15	32.4	1	0.8	130.0	0.24	<0.05	2.05	0.573	0.26	0.6	252
1543		78.8	0.002	0.11	0.38	30.3	1	0.8	160.0	0.22	<0.05	1.96	0.532	0.35	0.6	239
1544		53.2	0.002	0.06	0.74	29.8	<1	0.7	126.0	0.20	<0.05	1.73	0.463	0.29	0.6	211
1545		68.4	0.002	0.09	0.27	29.5	<1	1.7	191.5	0.22	<0.05	2.05	0.469	0.36	0.7	230
1546		72.4	<0.002	0.13	0.39	31.8	<1	1.1	199.0	0.22	<0.05	1.93	0.525	0.33	0.6	240
1547		48.8	<0.002	0.12	1.28	28.4	1	0.7	110.0	0.20	<0.05	1.85	0.448	0.23	0.7	214
1548		52.8	<0.002	0.07	0.27	29.6	<1	0.7	121.5	0.23	<0.05	2.27	0.447	0.21	0.7	213
1549		64.5	<0.002	0.07	0.31	29.4	1	0.6	157.5	0.20	<0.05	1.75	0.465	0.27	0.5	221
1550		55.8	0.002	0.50	0.20	27.3	1	0.7	132.0	0.20	<0.05	1.85	0.445	0.26	0.8	213
1551		58.9	<0.002	0.06	0.25	30.0	<1	0.6	143.5	0.20	<0.05	1.86	0.468	0.26	0.7	228
1552		14.6	<0.002	0.01	<0.05	33.4	<1	0.4	64.7	0.16	<0.05	1.36	0.358	0.06	0.8	221
1553		50.8	<0.002	0.07	0.17	29.8	<1	0.7	125.0	0.23	<0.05	2.12	0.491	0.23	0.7	222
1554		81.2	0.002	0.20	0.30	31.6	1	0.7	219	0.18	<0.05	1.57	0.481	0.36	0.6	236
1555		62.0	<0.002	0.68	0.48	31.5	1	2.0	271	0.18	<0.05	1.38	0.421	0.30	0.7	229
1556		81.7	<0.002	0.06	0.46	32.1	<1	0.6	173.0	0.15	<0.05	1.24	0.409	0.40	0.4	209
1557		86.9	<0.002	0.07	0.38	31.0	<1	0.5	165.5	0.14	<0.05	1.24	0.396	0.41	0.4	202
1558		65.9	<0.002	0.07	0.33	30.2	1	0.5	146.0	0.15	<0.05	1.22	0.394	0.32	0.4	200
1559		55.7	<0.002	0.10	0.16	32.2	<1	0.6	139.0	0.14	<0.05	1.24	0.402	0.23	0.4	204
1560		51.4	<0.002	0.15	0.17	32.5	<1	0.6	133.5	0.15	<0.05	1.25	0.403	0.20	0.4	204
1561		11.0	<0.002	>10.0	0.10	10.4	1	0.9	242	0.55	<0.05	1.23	0.645	0.16	0.3	92
1562		11.3	0.003	0.04	0.18	28.2	1	0.5	57.7	0.14	<0.05	1.28	0.379	0.06	0.5	232
1563		72.9	0.002	0.07	0.49	36.7	1	0.8	152.0	0.17	<0.05	1.38	0.455	0.32	0.5	239
1564		47.0	<0.002	0.15	0.24	28.2	<1	0.9	127.5	0.20	<0.05	1.86	0.466	0.19	0.6	215
1565		88.4	0.003	0.07	0.38	38.8	1	0.7	188.5	0.19	<0.05	1.47	0.490	0.37	0.5	239
1566		50.5	0.002	0.07	0.26	36.3	1	0.7	369	0.16	<0.05	1.31	0.443	0.20	0.5	221
1567		55.0	0.002	0.09	0.35	34.4	1	0.7	122.0	0.16	<0.05	1.34	0.427	0.24	0.5	217
1568		43.5	0.003	0.10	0.20	39.4	1	0.7	94.7	0.15	<0.05	1.19	0.407	0.19	0.4	219
1569		48.2	0.003	0.09	0.22	35.8	1	0.6	98.4	0.13	<0.05	1.05	0.392	0.21	0.4	214
1570		56.8	0.002	0.08	0.53	36.0	1	0.7	119.5	0.15	<0.05	1.20	0.395	0.21	0.6	208



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Co % 0.0005	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
1531		0.3	22.1	137	65.5			80.5	89.9
1532		0.4	17.0	179	70.5				92.8
1533		0.4	16.9	120	74.0				
1534		0.4	17.6	121	75.3				
1535		0.4	17.4	184	75.3				
1536		0.3	21.1	65	108.5				
1537		0.4	33.8	72	58.5				
1538		0.5	17.0	221	69.3				
1539		0.4	16.3	157	67.6				
1540		0.4	16.5	139	66.9				
1541		1.6	19.5	127	133.0	1.995	2.17		
1542		0.4	16.6	1470	69.6				
1543		0.3	16.3	453	68.1				
1544		0.4	23.6	113	62.4				
1545		1.4	15.4	109	66.0				
1546		0.7	16.2	157	69.0				
1547		0.3	16.1	143	62.8				
1548		0.3	18.3	151	71.5				
1549		0.3	14.1	267	61.2				
1550		0.3	26.5	143	60.4				
1551		0.5	18.7	95	60.4				
1552		0.5	53.6	28	47.5				
1553		0.4	16.4	75	70.0				
1554		0.3	15.7	95	57.4				
1555		0.7	16.1	101	53.4				
1556		0.2	11.7	167	49.3				
1557		0.3	11.8	274	46.8				
1558		0.2	11.3	382	46.0				
1559		0.3	12.3	791	47.4				
1560		0.3	12.8	721	47.6				
1561		4.4	11.6	168	79.7	9.92	10.70		
1562		0.3	14.4	69	52.5				
1563		0.4	16.2	153	61.5				
1564		0.2	20.6	315	53.1				
1565		0.3	16.2	287	61.4				
1566		0.3	14.4	174	58.9				
1567		0.3	16.3	333	56.0				
1568		0.3	13.3	68	54.1				
1569		0.2	11.5	62	45.4				90.6
1570		0.3	13.5	94	51.9			73.3	86.9



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**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
1571		1.41	0.11	6.87	7.0	100	0.49	0.09	5.84	0.07	14.00	60.7	73	1.29	122.5	7.91
1572		1.71	0.43	6.67	118.5	100	0.82	1.04	6.47	0.14	15.00	122.0	58	1.26	134.0	7.84
1573		1.80	0.13	7.07	29.9	80	1.23	0.28	7.99	0.03	14.80	54.2	73	2.39	227	7.44
1574		1.92	0.13	6.72	6.7	100	1.03	0.16	8.09	0.15	13.30	45.4	67	2.22	225	7.16
1575		0.50	0.01	0.11	0.2	20	0.08	0.01	35.0	<0.02	1.05	1.1	2	<0.05	3.2	0.17
1576		1.33	0.13	7.15	21.4	140	0.38	0.04	7.20	0.21	13.00	55.7	70	2.01	120.5	7.98
1577		1.97	0.20	7.16	66.9	120	0.58	0.46	7.66	0.09	14.95	72.9	71	0.97	117.0	7.43
1578		1.62	0.20	7.04	706	60	0.60	1.96	4.71	0.02	14.45	473	55	0.27	95.4	3.83
1579		0.64	0.02	6.34	1.7	20	0.42	0.11	1.04	<0.02	8.73	62.4	37	0.09	14.4	1.10
1580		0.87	0.02	5.97	1.4	20	0.48	0.09	0.81	<0.02	6.31	54.2	36	0.09	13.8	0.99
1581		0.02	0.76	5.69	4.5	190	0.74	0.09	4.55	1.64	30.2	>10000	135	0.59	4490	5.78
1582		1.24	0.02	5.85	<0.2	20	0.53	0.04	0.95	0.04	8.18	38.3	33	0.08	132.0	0.92
1583		1.37	0.03	5.71	0.9	20	0.48	0.03	1.11	0.03	6.47	43.4	36	0.08	319	0.95
1584		1.23	0.04	6.70	0.9	90	1.21	0.04	1.99	<0.02	44.0	40.4	71	0.57	339	1.72
1585		0.90	0.01	8.43	0.8	370	2.30	0.02	1.35	<0.02	65.7	19.1	113	1.73	64.2	4.43



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Project: Shining Tree-STR21-006

**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
1571		15.75	0.12	1.4	0.063	1.33	5.4	49.0	5.43	1680	0.34	1.81	2.2	209	260	29.9
1572		16.65	0.12	1.3	0.065	1.01	6.2	45.4	5.48	1440	1.80	1.66	2.1	262	250	53.1
1573		13.90	0.06	1.4	0.104	0.90	6.7	53.0	3.88	1600	0.32	1.95	2.2	167.0	280	9.1
1574		13.65	0.06	1.3	0.087	0.92	6.1	48.5	3.25	1620	0.28	1.85	2.0	176.5	250	29.0
1575		0.28	0.06	<0.1	<0.005	0.02	1.2	1.5	1.98	149	0.06	0.03	0.1	1.8	60	0.6
1576		14.25	0.06	1.4	0.051	1.25	5.5	43.4	4.98	1530	0.30	1.54	2.3	172.0	270	97.0
1577		14.75	0.06	1.4	0.086	1.39	6.5	28.1	4.21	1400	0.42	1.76	2.2	140.5	270	30.2
1578		13.80	0.06	1.5	0.052	0.63	6.2	14.3	2.11	789	11.85	3.78	1.9	126.0	260	24.1
1579		11.95	0.11	1.9	0.015	0.10	3.8	5.9	0.36	161	1.13	4.85	1.9	18.9	370	1.2
1580		11.55	0.10	2.0	0.013	0.09	2.9	6.0	0.34	137	1.64	4.67	1.7	18.0	300	1.1
1581		14.40	0.13	2.3	0.049	0.54	14.9	5.3	2.93	760	2.57	1.76	17.4	>10000	1160	15.8
1582		12.20	0.18	1.5	0.014	0.09	3.9	6.7	0.28	152	0.94	4.51	1.8	18.1	210	7.5
1583		11.00	0.08	1.3	0.025	0.09	3.0	5.2	0.32	165	1.01	4.48	1.9	17.8	160	4.3
1584		17.10	0.13	2.0	0.071	1.07	21.4	10.9	0.54	279	1.28	3.94	5.1	27.2	410	2.1
1585		22.9	0.14	2.8	0.034	1.87	31.4	44.1	1.90	313	1.57	3.17	9.8	59.9	710	3.2

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**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
1571		60.1	0.004	0.07	0.67	36.7	1	0.7	124.0	0.15	<0.05	1.20	0.403	0.26	0.4	207
1572		47.0	0.003	0.07	0.90	32.3	1	0.9	116.0	0.15	<0.05	1.17	0.396	0.19	0.7	200
1573		41.5	<0.002	0.09	0.23	32.4	<1	0.7	110.5	0.15	<0.05	1.28	0.436	0.18	0.4	219
1574		42.1	<0.002	0.09	0.26	30.7	<1	0.6	116.0	0.14	<0.05	1.19	0.405	0.19	0.4	205
1575		0.5	<0.002	0.01	0.06	0.4	<1	<0.2	86.2	<0.05	<0.05	0.07	0.008	<0.02	0.1	3
1576		54.7	<0.002	0.08	0.39	33.0	<1	0.6	151.5	0.16	<0.05	1.31	0.441	0.27	0.4	221
1577		59.6	<0.002	0.09	0.24	33.7	<1	0.6	153.0	0.17	<0.05	1.29	0.446	0.25	0.4	224
1578		27.6	0.002	0.08	0.34	23.7	<1	0.8	117.0	0.15	<0.05	1.64	0.329	0.13	0.8	166
1579		3.2	<0.002	0.21	<0.05	4.2	<1	0.3	34.7	0.16	<0.05	4.28	0.092	0.02	0.7	27
1580		2.8	<0.002	0.18	<0.05	3.5	1	0.2	32.6	0.14	<0.05	4.15	0.079	<0.02	0.6	25
1581		15.7	<0.002	6.43	0.53	15.5	1	1.1	328	0.86	<0.05	1.85	0.844	0.12	0.5	119
1582		2.8	0.002	0.11	0.09	3.5	<1	0.2	33.5	0.15	<0.05	3.19	0.082	0.02	3.9	20
1583		2.6	<0.002	0.15	0.06	3.0	<1	0.2	35.1	0.17	<0.05	3.36	0.084	<0.02	4.3	19
1584		57.3	<0.002	0.14	0.12	8.7	<1	1.1	52.0	0.46	<0.05	7.37	0.214	0.18	2.0	76
1585		94.5	0.002	0.02	0.21	15.0	<1	2.0	154.5	0.79	<0.05	13.65	0.359	0.33	5.2	107

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Project: Shining Tree-STR21-006

**CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Ni-OG62 Ni %	CRU-QC Pass2mm %	PUL-QC Pass75um %
1571		0.3	12.6	120	54.7				
1572		0.2	16.0	123	52.3				
1573		0.3	14.3	69	52.1				
1574		0.3	13.0	117	48.6				
1575		<0.1	2.2	3	1.6				
1576		0.2	13.4	143	53.5				
1577		0.3	15.2	91	52.6				
1578		0.4	13.8	39	54.8				
1579		0.3	3.7	3	75.2				
1580		0.3	3.5	3	73.2				
1581		2.9	16.0	134	111.0	5.20	5.64		
1582		0.2	3.6	10	62.7				
1583		0.2	3.8	7	51.6				
1584		0.6	10.0	6	73.2				
1585		1.0	14.5	22	101.5				

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**CERTIFICATE OF ANALYSIS SD21064978**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0" style="width: 100%;"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0" style="width: 100%;"> <tr> <td>Co-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> </table>	Co-OG62	ME-MS61	ME-OG62	Ni-OG62				
Co-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**QC CERTIFICATE SD21064978**

Project: Shining Tree-STR21-006  
 P.O. No.: STR21-006  
 This report is for 55 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		68.6	4.82	613	160	1.78	5.63	2.01	20.0	46.2	774	56	7.27	8370	4.94	11.75
EMOG-17		68.6	4.60	593	770	1.70	5.31	1.90	19.70	44.4	756	54	6.82	8500	4.82	11.75
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.46	7.57	34.4	1120	3.20	0.63	2.74	2.16	76.5	20.8	93	12.80	632	4.00	18.25
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 920		0.08	8.14	5.4	590	2.61	0.63	0.53	0.06	98.3	17.6	86	9.25	114.5	4.26	20.1
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.11	1.8	0.930	1.67	23.7	26.8	0.98	746	1095	1.11	14.4	7400	830	7140	110.5
EMOG-17		0.12	1.7	0.888	1.65	22.0	25.2	0.95	742	1075	1.09	13.0	7800	830	7410	106.5
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.15	3.0	0.164	3.15	36.5	35.0	1.34	559	14.20	2.01	21.3	684	1080	1050	195.0
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 920		0.17	4.8	0.081	3.01	49.6	32.1	1.40	609	0.39	0.66	17.9	41.4	780	24.8	183.5
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.309	3.42	841	7.4	6	2.6	210	0.89	1.24	10.85	0.343	2.17	3.1	76	3.7
EMOG-17		0.301	3.25	813	8.0	6	2.6	213	0.81	1.34	11.55	0.319	2.02	3.0	73	3.3
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.007	0.32	4.46	11.6	1	3.9	315	1.44	<0.05	20.9	0.515	1.05	5.3	113	4.5
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 920		<0.002	0.03	1.47	13.6	1	5.0	86.9	1.35	<0.05	19.55	0.517	0.94	3.6	103	3.1
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																

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



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Project: Shining Tree-STR21-006  
**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Ni-OG62
		Y ppm	Zn ppm	Zr ppm	Co %	Ni %
		0.1	2	0.5	0.0005	0.001
<b>STANDARDS</b>						
AMIS0160					3.09	0.004
Target Range - Lower Bound					2.99	<0.001
Upper Bound					3.21	0.005
CCU-1e					0.0316	0.001
Target Range - Lower Bound					0.0285	
Upper Bound					0.0317	
EMOG-17		15.8	7740	63.5		
EMOG-17		15.5	7420	63.0		
Target Range - Lower Bound		14.3	6800	55.6		
Upper Bound		17.7	8320	76.4		
GBM903-13					0.0047	2.46
Target Range - Lower Bound					0.0041	2.35
Upper Bound					0.0059	2.52
MP-1b					<0.0005	0.001
Target Range - Lower Bound					<0.0005	<0.001
Upper Bound					0.0014	0.002
MRGeo08		26.3	825	108.0		
Target Range - Lower Bound		23.8	722	92.2		
Upper Bound		29.3	886	126.0		
OREAS 621					0.0050	0.005
Target Range - Lower Bound					0.0020	<0.001
Upper Bound					0.0039	0.005
OREAS 920		33.3	123	166.0		
Target Range - Lower Bound		29.8	102	128.0		
Upper Bound		36.6	130	174.0		
OREAS-76a					0.1170	7.06
Target Range - Lower Bound					0.1145	7.03
Upper Bound					0.1240	7.55

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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>BLANKS</b>																
BLANK		0.02	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	0.1	<1	<0.05	0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1523		0.12	7.05	3.5	140	0.56	0.07	7.20	0.07	26.2	44.9	426	0.59	116.5	7.25	15.45
DUP		0.10	7.33	4.0	150	0.63	0.08	7.48	0.07	26.0	45.4	436	0.62	124.0	7.56	15.75
Target Range – Lower Bound		0.09	6.82	3.4	120	0.52	0.06	6.96	0.05	24.8	42.8	408	0.52	116.0	7.02	14.75
Upper Bound		0.13	7.56	4.1	170	0.67	0.09	7.72	0.09	27.4	47.5	454	0.69	124.5	7.79	16.45
1529		0.25	7.91	13.1	190	0.61	0.70	7.20	0.22	15.05	46.8	84	1.36	112.0	7.07	15.30
DUP		0.13	7.78	12.0	190	0.56	0.32	7.09	0.22	14.40	44.7	86	1.33	111.5	6.97	14.75
Target Range – Lower Bound		0.17	7.44	11.7	170	0.51	0.47	6.78	0.19	14.00	43.4	80	1.23	107.5	6.66	14.20
Upper Bound		0.21	8.25	13.4	210	0.66	0.55	7.51	0.25	15.45	48.1	90	1.46	116.0	7.38	15.85
1564		0.19	7.32	10.7	140	1.00	0.19	6.49	0.55	20.6	43.1	61	1.71	404	9.15	16.85
DUP		0.28	6.85	11.4	120	0.98	0.20	6.08	0.58	20.7	47.1	57	1.68	378	8.61	17.05
Target Range – Lower Bound		0.21	6.72	10.3	110	0.89	0.18	5.96	0.52	19.60	42.7	55	1.56	377	8.43	16.05
Upper Bound		0.26	7.45	11.8	150	1.09	0.21	6.61	0.61	21.7	47.5	63	1.83	405	9.33	17.85



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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>BLANKS</b>																
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1523		0.13	1.4	0.062	1.46	12.5	34.2	4.45	1260	0.53	1.94	2.3	130.0	250	5.2	71.1
DUP		0.09	1.5	0.058	1.51	11.5	34.1	4.62	1300	0.59	2.02	2.3	132.0	260	5.1	72.0
Target Range – Lower Bound		<0.05	1.3	0.052	1.40	10.9	32.2	4.30	1210	0.48	1.87	2.1	124.5	230	4.4	67.9
Upper Bound		0.17	1.6	0.068	1.57	13.1	36.1	4.77	1350	0.64	2.09	2.5	138.0	280	5.9	75.2
1529		0.07	1.4	0.065	1.63	6.5	43.8	3.74	1370	0.31	1.97	2.4	105.5	270	111.0	76.5
DUP		0.08	1.4	0.067	1.60	6.3	46.1	3.68	1360	0.26	1.94	2.3	102.0	270	101.5	73.6
Target Range – Lower Bound		<0.05	1.2	0.058	1.52	5.6	42.5	3.51	1290	0.22	1.85	2.1	98.4	250	100.5	71.2
Upper Bound		0.10	1.6	0.074	1.71	7.2	47.4	3.91	1440	0.35	2.06	2.6	109.0	290	112.0	78.9
1564		0.05	1.4	0.088	0.96	9.2	48.9	3.35	1560	0.30	2.56	3.1	100.5	380	146.5	47.0
DUP		0.08	1.4	0.086	0.90	9.2	52.0	3.14	1480	0.27	2.39	3.2	103.0	350	136.0	47.5
Target Range – Lower Bound		<0.05	1.2	0.078	0.87	8.2	47.7	3.07	1440	0.22	2.34	2.9	96.5	340	133.5	44.8
Upper Bound		0.10	1.6	0.096	0.99	10.2	53.2	3.42	1600	0.35	2.61	3.4	107.0	390	149.0	49.7





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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	0.07	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1523		0.003	0.07	0.34	36.0	1	1.2	159.5	0.16	<0.05	1.66	0.370	0.32	0.6	201	0.7
DUP		0.002	0.07	0.35	37.2	1	1.3	167.5	0.17	<0.05	1.66	0.374	0.31	0.6	206	0.8
Target Range – Lower Bound		<0.002	0.06	0.27	34.7	<1	1.0	155.0	0.11	<0.05	1.57	0.348	0.27	0.5	192	0.6
Upper Bound		0.004	0.08	0.42	38.5	2	1.5	172.0	0.22	0.10	1.75	0.396	0.36	0.7	215	0.9
1529		<0.002	0.07	0.24	30.0	<1	0.6	163.5	0.17	<0.05	1.43	0.441	0.33	0.5	214	0.2
DUP		<0.002	0.07	0.22	29.7	1	0.6	160.5	0.16	<0.05	1.36	0.429	0.31	0.5	212	0.2
Target Range – Lower Bound		<0.002	0.06	0.16	28.3	<1	0.4	153.5	0.11	<0.05	1.32	0.408	0.28	0.4	201	<0.1
Upper Bound		0.004	0.08	0.30	31.4	2	0.8	170.5	0.22	0.10	1.47	0.462	0.36	0.6	225	0.3
1564		<0.002	0.15	0.24	28.2	<1	0.9	127.5	0.20	<0.05	1.86	0.466	0.19	0.6	215	0.2
DUP		<0.002	0.15	0.24	28.7	<1	0.9	123.5	0.20	<0.05	2.04	0.437	0.19	0.6	204	0.2
Target Range – Lower Bound		<0.002	0.13	0.17	26.9	<1	0.7	119.0	0.14	<0.05	1.84	0.424	0.16	0.5	198	<0.1
Upper Bound		0.004	0.17	0.31	30.0	2	1.1	132.0	0.26	0.10	2.06	0.479	0.22	0.7	221	0.3



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**QC CERTIFICATE OF ANALYSIS SD21064978**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Ni-OG62 Ni %
		0.1	2	0.5	0.0005	0.001
<b>BLANKS</b>						
BLANK		<0.1	<2	<0.5		
BLANK		<0.1	<2	0.9		
BLANK		<0.1	<2	<0.5		
Target Range - Lower Bound		<0.1	<2	<0.5		
Upper Bound		0.2	4	1.0		
BLANK					<0.0005	<0.001
Target Range - Lower Bound					<0.0005	<0.001
Upper Bound					0.0010	0.002
<b>DUPLICATES</b>						
1523		11.9	86	57.0		
DUP		12.2	89	56.0		
Target Range - Lower Bound		11.3	81	51.8		
Upper Bound		12.8	94	61.2		
1529		13.9	121	53.5		
DUP		13.4	119	53.0		
Target Range - Lower Bound		12.9	112	48.8		
Upper Bound		14.4	128	57.7		
1564		20.6	315	53.1		
DUP		20.5	295	53.4		
Target Range - Lower Bound		19.4	288	48.8		
Upper Bound		21.7	322	57.7		



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**QC CERTIFICATE OF ANALYSIS SD21064978**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0"> <tr> <td>Co-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> </table>	Co-OG62	ME-MS61	ME-OG62	Ni-OG62				
Co-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**CERTIFICATE SD21064988**

Project: Shining Tree-STR21-007  
 P.O. No.: STR21-007  
 This report is for 70 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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To: NORTH AMERICAN COBALT – BATTERY  
 MINERALS RESOURCES  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

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 Finalized Date: 13-APR-2021  
 Account: BMRPLLW

Project: Shining Tree-STR21-007

**CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	0.01	
R1586		1.82	0.13	6.52	21.1	90	1.13	0.10	7.93	0.21	15.05	55.6	54	2.15	146.5	7.04
R1587		1.81	0.23	6.22	4.3	50	1.54	0.25	9.71	0.06	18.60	40.2	55	1.41	700	6.83
R1588		1.98	0.10	6.15	3.0	60	1.76	0.21	10.85	<0.02	18.85	39.6	53	1.41	354	6.15
R1589		1.02	0.10	6.69	3.8	60	1.60	0.16	9.57	<0.02	23.4	38.8	60	1.66	330	6.37
R1590		1.43	0.04	6.82	1.9	40	1.30	0.24	10.45	<0.02	17.05	28.2	62	0.70	146.0	5.65
R1591		1.16	0.05	6.74	2.0	60	1.28	0.12	13.40	<0.02	21.6	24.7	57	0.73	95.6	4.34
R1592		1.91	0.07	6.54	2.5	90	1.36	0.11	9.82	<0.02	17.55	39.0	56	1.39	163.5	6.12
R1593		1.98	0.09	6.56	3.1	100	1.16	0.11	10.15	<0.02	21.0	37.3	54	1.04	235	5.81
R1594		1.46	0.11	6.94	3.5	150	0.96	0.16	6.65	0.13	16.30	48.9	61	1.90	149.0	7.27
R1595		2.19	0.13	6.54	3.0	100	1.05	0.12	8.94	0.03	19.75	44.2	53	1.39	282	6.55
R1596		1.88	0.08	7.10	4.0	140	0.52	0.05	4.67	0.03	13.90	55.4	60	1.79	126.0	7.90
R1597		1.36	0.07	6.91	3.4	120	1.06	0.08	7.23	0.06	15.65	52.0	55	1.68	135.5	7.42
R1598		1.89	0.11	6.63	3.3	90	0.79	0.12	6.15	<0.02	17.40	52.6	53	1.64	121.0	7.56
R1599		0.39	0.24	7.00	2.4	70	1.24	0.40	8.42	<0.02	23.6	40.3	60	0.93	543	6.30
R1600		0.45	0.32	6.62	2.3	80	1.64	0.26	9.87	<0.02	27.5	41.0	56	1.02	1025	6.59
R1601		0.12	4.06	5.45	13.5	120	0.52	0.83	3.56	1.95	17.10	993	281	0.75	>10000	18.20
R1602		1.13	0.10	6.78	1.7	40	1.11	0.11	12.95	<0.02	23.5	23.9	57	0.56	225	4.62
R1603		1.61	0.10	6.78	2.8	90	1.31	0.11	6.95	<0.02	16.50	47.7	53	1.19	186.5	7.12
R1604		1.58	0.12	6.74	2.8	70	1.00	0.13	5.98	0.04	17.65	54.2	54	1.38	353	7.63
R1605		1.94	0.06	6.53	1.9	40	0.98	0.17	9.57	<0.02	21.8	21.7	64	0.42	247	4.26
R1606		0.84	0.05	6.10	1.8	40	0.91	0.09	10.60	<0.02	23.9	14.3	65	0.31	204	2.87
R1607		1.34	0.11	6.66	3.1	50	1.07	0.28	9.12	<0.02	21.3	32.0	63	0.58	655	5.94
R1608		1.49	0.14	7.16	3.9	90	0.79	0.12	5.61	<0.02	15.40	44.5	72	0.40	201	6.45
R1609		0.78	0.25	7.07	160.0	130	1.08	0.77	5.88	0.02	25.2	157.0	39	0.77	141.0	6.90
R1610		2.20	0.17	6.84	7.3	170	0.68	0.08	5.03	0.07	17.70	50.2	39	0.71	155.0	7.78
R1611		2.01	0.18	7.20	8.1	200	0.68	0.05	4.67	0.11	18.70	48.5	39	1.20	175.0	8.05
R1612		2.17	0.15	7.53	8.1	200	0.54	0.04	4.44	0.32	19.85	48.2	34	2.26	150.0	8.48
R1613		1.22	0.50	6.05	348	110	0.98	2.74	12.40	0.03	27.4	258	26	1.43	96.7	6.85
R1614		1.21	0.27	7.46	37.9	220	1.31	0.33	5.26	0.07	21.7	64.8	38	2.01	257	8.08
R1615		1.25	0.72	7.25	10.3	400	0.71	0.08	5.67	0.43	21.2	50.3	38	1.74	510	8.55
R1616		1.85	0.35	6.56	18.9	100	0.97	0.18	5.02	0.08	30.5	58.6	13	0.97	167.5	10.65
R1617		1.46	0.26	6.36	23.9	110	1.08	0.15	5.66	0.07	36.3	62.2	2	1.27	181.0	11.15
R1618		1.12	0.22	6.21	50.8	90	1.16	0.22	6.72	0.04	34.3	70.9	2	1.60	98.5	10.30
R1619		0.47	0.15	6.64	12.7	160	1.12	0.12	4.50	0.05	30.9	56.9	3	2.72	72.8	12.55
R1620		0.74	0.13	6.47	10.8	160	1.05	0.10	4.35	0.04	29.1	52.4	2	2.48	63.0	12.15
R1621		<0.02	0.91	7.17	2.7	260	0.99	0.08	5.71	0.82	36.8	>10000	170	0.74	1980	7.38
R1622		0.91	0.43	5.87	13.8	100	1.72	0.44	9.94	0.05	41.4	75.7	4	1.22	222	8.99
R1623		1.43	0.14	6.48	15.3	150	1.17	0.12	4.52	0.10	37.9	52.8	4	1.88	72.1	10.60
R1624		1.68	0.40	6.15	19.5	120	1.45	0.25	5.85	0.09	32.7	48.0	4	1.83	176.5	9.47
R1625		0.57	<0.01	0.09	<0.2	10	0.06	0.02	35.1	<0.02	0.88	1.3	1	<0.05	1.7	0.15



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Project: Shining Tree-STR21-007

**CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1586		14.15	0.08	1.2	0.076	0.88	6.9	68.4	4.63	1500	0.41	1.61	2.1	247	250	128.0
R1587		14.75	0.09	1.2	0.150	0.54	9.5	50.3	2.57	1900	0.22	2.26	1.9	244	230	12.7
R1588		15.00	0.07	1.1	0.159	0.68	10.0	51.8	2.29	1980	0.20	2.36	1.9	236	220	5.8
R1589		16.65	0.09	1.4	0.153	0.94	12.0	56.2	2.64	1900	0.26	2.62	2.1	202	260	5.7
R1590		24.4	0.08	1.3	0.140	0.79	8.8	43.8	1.54	1830	0.16	2.90	2.2	211	230	4.1
R1591		17.40	0.08	1.3	0.209	1.18	11.4	37.7	1.58	2270	0.16	2.83	2.2	140.5	250	5.5
R1592		15.00	0.07	1.2	0.132	1.10	9.0	54.3	3.02	1880	0.22	2.08	2.0	190.5	250	6.6
R1593		15.80	0.09	1.2	0.129	1.05	10.1	50.9	2.94	1800	0.25	2.40	2.2	176.0	330	9.4
R1594		15.85	0.09	1.3	0.102	1.10	8.0	81.2	4.73	1970	0.28	2.00	2.2	194.5	260	33.5
R1595		15.15	0.09	1.3	0.128	0.97	9.4	63.9	3.75	1850	0.31	2.08	2.2	175.5	270	34.7
R1596		15.20	0.08	1.4	0.056	1.28	5.7	73.9	5.71	1960	0.36	1.95	2.4	199.0	270	24.3
R1597		15.20	0.09	1.4	0.088	1.14	7.1	73.9	4.37	1960	0.28	1.95	2.3	195.5	270	29.7
R1598		16.25	0.08	1.3	0.076	0.84	8.1	82.4	5.51	2100	0.27	1.99	2.2	215	250	28.4
R1599		24.7	0.09	1.3	0.160	0.76	11.3	57.7	3.46	1780	0.18	3.06	2.4	187.0	590	7.1
R1600		21.4	0.09	1.2	0.190	0.68	13.1	59.6	3.76	2010	0.22	2.67	2.0	181.5	650	10.0
R1601		11.60	0.20	1.2	0.119	0.31	7.4	9.1	4.04	1020	5.32	1.20	4.9	>10000	480	13.1
R1602		18.85	0.07	1.3	0.199	0.76	13.0	36.5	1.49	1670	0.20	3.42	2.2	179.0	260	1.9
R1603		14.40	0.08	1.4	0.106	1.00	8.2	67.8	4.24	1790	0.25	2.13	2.1	215	260	14.5
R1604		15.05	0.07	1.4	0.089	0.88	8.5	90.5	5.13	1950	0.25	1.89	2.2	249	260	21.4
R1605		16.65	0.08	1.4	0.121	0.62	9.7	31.3	1.39	1000	0.23	3.38	2.3	96.6	270	1.6
R1606		13.80	0.07	1.3	0.102	0.61	10.6	22.3	0.95	808	0.24	3.57	2.5	74.3	260	1.4
R1607		17.25	0.07	1.3	0.163	0.80	9.6	41.9	2.21	1010	0.26	2.74	2.3	133.0	260	1.9
R1608		16.70	0.07	1.5	0.076	0.69	7.2	47.3	3.61	1260	0.26	2.93	2.6	113.5	280	3.3
R1609		16.60	0.08	1.8	0.088	0.93	11.1	55.9	3.63	1560	2.46	2.66	3.0	121.0	310	20.1
R1610		18.15	0.08	1.7	0.061	1.22	7.9	43.4	4.25	1820	0.41	2.47	3.0	91.3	310	111.0
R1611		18.70	0.08	1.8	0.059	1.60	8.3	49.1	4.20	1740	0.47	2.38	3.3	98.2	350	44.7
R1612		17.70	0.09	1.9	0.059	1.43	9.0	74.3	4.63	1650	0.43	2.14	3.3	89.0	360	98.7
R1613		17.25	0.09	1.5	0.236	0.80	12.4	55.3	2.77	2020	16.10	1.98	2.6	133.0	290	36.1
R1614		17.85	0.09	1.8	0.091	1.41	10.0	55.3	3.77	1530	0.78	2.34	3.2	90.8	340	38.2
R1615		19.00	0.08	1.7	0.085	1.62	9.5	53.8	4.43	1560	0.98	2.00	3.1	88.4	340	539
R1616		22.5	0.10	2.7	0.101	0.60	14.1	25.4	2.71	1730	0.79	3.19	5.4	54.5	550	49.0
R1617		23.1	0.10	3.2	0.116	0.74	17.0	22.7	2.11	1820	0.67	2.86	5.7	36.6	620	18.8
R1618		20.4	0.11	3.1	0.127	0.70	16.4	32.7	1.96	1780	1.83	2.50	5.3	38.6	610	11.7
R1619		21.9	0.12	3.5	0.111	0.80	13.8	31.4	2.42	1740	0.91	2.82	5.5	41.5	640	28.7
R1620		20.6	0.10	3.2	0.102	0.81	13.1	28.4	2.37	1680	0.66	2.76	5.1	38.2	620	25.2
R1621		18.90	0.14	3.4	0.057	0.68	18.2	7.1	3.71	974	2.80	2.24	22.6	>10000	1560	18.0
R1622		20.5	0.10	3.0	0.207	0.44	18.1	36.2	1.93	2040	3.04	2.66	4.8	89.9	560	47.3
R1623		20.8	0.12	3.6	0.110	0.75	19.0	35.4	2.06	1430	0.80	2.90	5.8	36.8	710	36.6
R1624		21.8	0.11	3.0	0.174	0.58	15.1	49.9	2.12	1600	0.96	2.77	5.3	51.6	610	80.5
R1625		0.31	0.08	<0.1	<0.005	0.01	1.0	1.5	1.81	121	0.07	0.03	0.1	0.6	70	0.8



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		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
R1586		46.0	0.002	0.08	0.33	29.7	1	0.6	104.5	0.14	<0.05	1.15	0.383	0.19	0.4	196
R1587		27.6	0.002	0.10	0.27	29.0	1	0.6	70.5	0.14	<0.05	1.13	0.356	0.13	0.4	188
R1588		33.9	0.002	0.07	0.27	28.3	1	0.5	72.1	0.14	<0.05	1.10	0.349	0.14	0.4	184
R1589		40.4	<0.002	0.08	0.29	30.5	1	0.7	61.5	0.15	<0.05	1.21	0.381	0.16	0.6	195
R1590		36.8	0.002	0.04	0.21	29.2	1	0.8	58.3	0.16	<0.05	1.24	0.398	0.12	0.6	222
R1591		53.3	<0.002	0.05	0.20	32.3	1	0.8	81.6	0.16	<0.05	1.30	0.406	0.18	0.7	194
R1592		53.6	0.002	0.07	0.25	30.9	1	0.6	96.1	0.14	<0.05	1.19	0.378	0.21	0.5	197
R1593		48.8	0.002	0.10	0.31	30.7	1	0.7	96.6	0.15	<0.05	1.21	0.387	0.18	0.5	200
R1594		53.0	0.002	0.06	0.44	32.4	1	0.7	103.0	0.16	<0.05	1.26	0.422	0.22	0.4	214
R1595		47.8	<0.002	0.08	0.34	33.1	1	0.6	98.5	0.16	<0.05	1.22	0.394	0.17	0.4	203
R1596		61.7	0.002	0.08	0.70	33.6	1	0.6	98.6	0.17	<0.05	1.30	0.426	0.28	0.4	218
R1597		56.6	0.002	0.07	0.40	34.0	1	0.6	99.4	0.16	<0.05	1.25	0.412	0.21	0.4	211
R1598		42.0	0.002	0.08	0.66	31.7	1	0.6	68.4	0.15	<0.05	1.19	0.398	0.17	0.5	205
R1599		29.0	0.002	0.17	0.30	30.9	1	0.7	62.3	0.17	0.05	1.46	0.395	0.11	0.8	204
R1600		28.4	<0.002	0.19	0.33	30.9	1	0.6	68.2	0.15	<0.05	1.33	0.360	0.11	0.7	201
R1601		11.6	0.051	8.47	2.97	9.2	22	2.5	186.0	0.30	4.45	0.98	0.526	0.17	0.3	80
R1602		33.9	0.002	0.07	0.15	33.3	1	0.7	73.2	0.15	0.05	1.20	0.407	0.12	0.6	207
R1603		48.1	0.002	0.08	0.31	32.1	1	0.6	76.5	0.16	<0.05	1.29	0.399	0.17	0.5	210
R1604		43.4	<0.002	0.10	0.20	31.9	1	0.7	61.1	0.16	<0.05	1.34	0.403	0.14	0.6	207
R1605		28.7	<0.002	0.07	0.18	31.0	1	0.7	61.5	0.16	<0.05	1.35	0.420	0.12	0.7	206
R1606		24.0	<0.002	0.03	0.18	28.9	<1	0.7	57.3	0.18	<0.05	1.67	0.398	0.09	1.0	174
R1607		35.8	0.002	0.13	0.20	31.6	1	0.6	70.2	0.16	<0.05	1.26	0.411	0.12	0.7	211
R1608		26.1	0.002	0.08	0.17	30.8	1	0.6	78.8	0.19	<0.05	1.56	0.410	0.11	0.7	209
R1609		40.2	0.002	0.08	0.35	32.2	1	0.7	104.5	0.22	<0.05	2.04	0.461	0.16	0.7	233
R1610		35.5	0.002	0.08	0.66	33.7	1	0.7	153.5	0.20	<0.05	1.76	0.459	0.25	0.6	228
R1611		46.7	0.002	0.10	0.67	35.3	1	0.8	160.0	0.23	<0.05	1.80	0.489	0.29	0.6	233
R1612		68.3	0.002	0.08	0.56	35.0	1	0.8	136.5	0.23	<0.05	2.01	0.524	0.27	0.7	244
R1613		38.3	0.002	0.06	0.77	31.7	1	0.6	98.3	0.18	<0.05	1.64	0.411	0.20	0.7	201
R1614		65.1	0.003	0.09	0.28	34.2	1	0.8	136.0	0.22	<0.05	1.92	0.498	0.27	0.7	240
R1615		57.4	0.002	0.13	0.36	33.3	1	1.1	153.5	0.22	<0.05	1.91	0.478	0.27	0.6	228
R1616		27.9	0.003	0.13	0.34	38.7	1	1.0	95.8	0.37	<0.05	2.91	0.985	0.13	1.1	578
R1617		36.2	0.003	0.15	0.22	39.1	1	1.1	109.5	0.41	<0.05	3.42	1.095	0.16	1.1	648
R1618		32.4	0.003	0.16	0.53	38.7	1	1.0	101.0	0.40	<0.05	3.38	1.065	0.17	1.1	624
R1619		37.7	0.003	0.16	0.49	42.8	1	1.0	133.5	0.41	<0.05	3.48	1.105	0.20	1.1	653
R1620		35.7	0.002	0.16	0.43	39.5	1	0.9	128.5	0.39	<0.05	3.35	1.055	0.17	1.1	631
R1621		19.1	<0.002	2.73	2.26	19.6	1	1.5	419	1.20	<0.05	2.44	1.035	0.09	0.6	147
R1622		20.1	0.008	0.12	0.29	37.7	<1	1.0	101.5	0.35	<0.05	3.21	0.940	0.10	1.2	592
R1623		33.2	0.003	0.14	0.57	34.9	1	1.2	118.5	0.43	<0.05	4.12	1.025	0.15	1.3	536
R1624		27.9	0.002	0.12	0.43	38.2	1	1.1	105.0	0.39	<0.05	3.12	1.050	0.12	1.3	626
R1625		0.2	<0.002	0.01	0.08	0.3	1	<0.2	89.5	<0.05	<0.05	0.06	0.009	<0.02	0.1	4



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Co	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%
		0.1	0.1	2	0.5	0.0005	0.001	0.001	0.01	0.01
R1586		0.3	14.6	114	45.9				77.6	89.2
R1587		0.5	17.6	68	46.0					87.0
R1588		0.6	18.4	59	43.3					
R1589		0.5	21.8	66	52.0					
R1590		0.7	19.1	35	51.4					
R1591		0.8	28.2	34	50.4					
R1592		0.5	18.9	64	48.2					
R1593		0.6	20.9	60	47.8					
R1594		0.4	16.5	157	51.6					
R1595		0.5	22.4	109	48.2					
R1596		0.3	14.3	122	52.4					
R1597		0.4	18.1	111	52.4					
R1598		0.3	16.4	123	49.7					
R1599		0.4	23.4	80	52.4					
R1600		0.3	28.5	86	43.9					
R1601		2.4	9.9	145	50.6		1.665	4.71		
R1602		0.9	25.7	46	50.5					
R1603		0.4	16.2	135	51.8					
R1604		0.5	16.1	167	51.5					
R1605		0.9	22.1	40	53.6					
R1606		0.8	23.0	30	52.2					
R1607		0.6	21.0	93	51.8					
R1608		0.4	15.7	152	56.8					
R1609		0.5	19.2	156	66.9					
R1610		0.3	15.6	163	66.3					
R1611		0.3	17.0	167	67.8					
R1612		0.3	16.8	228	74.3					
R1613		0.3	32.7	91	57.9					
R1614		0.4	17.8	147	67.0					
R1615		0.4	16.8	277	67.2					
R1616		0.5	24.8	158	106.0					
R1617		0.4	28.6	150	121.0					
R1618		0.5	28.8	133	118.0					
R1619		0.5	26.3	101	125.5					
R1620		0.4	24.4	98	116.5					
R1621		1.7	20.7	125	143.0	2.08		2.28		
R1622		0.5	36.8	85	116.5					
R1623		0.5	28.1	111	137.0					
R1624		0.4	26.7	92	116.5					
R1625		0.1	1.9	4	1.4					





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**CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1626		2.27	0.36	6.51	6.9	120	0.92	0.23	4.13	0.27	29.6	51.2	10	2.50	428	12.00
R1627		1.05	0.19	6.63	15.7	120	1.06	0.34	5.25	0.05	29.9	48.8	16	2.52	84.6	10.55
R1628		1.18	0.43	7.00	7.5	130	1.10	0.08	4.97	0.86	33.8	41.5	4	1.17	25.5	9.29
R1629		1.08	0.39	7.90	11.7	130	0.82	0.04	3.60	3.19	27.9	48.5	3	2.02	37.8	9.94
R1630		1.30	0.93	6.18	522	30	0.67	1.87	6.57	0.08	23.4	348	8	0.71	60.1	4.64
R1631		0.78	0.32	7.48	2.1	110	0.76	0.07	3.36	0.35	16.15	56.7	60	3.27	320	9.96
R1632		1.59	0.15	7.34	6.8	170	0.67	0.07	5.68	0.18	15.75	43.1	50	1.09	145.5	7.75
R1633		1.61	0.47	7.50	1.9	70	1.27	0.23	6.35	0.37	16.55	47.0	416	1.14	439	6.91
R1634		1.22	0.40	5.94	14.2	70	0.75	0.14	6.65	0.20	17.35	54.1	44	3.22	593	7.91
R1635		2.07	0.08	6.58	2.4	100	0.36	0.05	5.65	0.08	12.80	69.4	54	2.99	101.5	8.45
R1636		1.07	0.35	6.76	10.6	80	1.12	0.34	8.04	0.09	27.3	64.8	43	2.56	835	7.68
R1637		1.00	0.28	6.28	6.6	50	1.00	0.13	8.44	0.35	20.7	57.6	45	2.22	724	8.04
R1638		1.75	0.43	6.79	12.8	110	0.79	0.27	6.36	0.91	18.85	54.6	58	2.44	478	8.20
R1639		1.88	0.07	6.56	1.9	120	0.29	0.05	6.37	0.08	12.15	57.2	56	2.66	103.5	7.86
R1640		0.79	0.07	6.82	3.6	120	0.30	0.05	6.06	0.07	12.05	56.7	60	2.17	115.5	8.08
R1641		<0.02	0.86	5.75	5.0	200	0.80	0.10	4.55	1.83	30.2	>10000	139	0.64	4490	5.99
R1642		0.89	0.09	6.79	3.5	120	0.34	0.04	6.06	0.08	11.60	91.5	56	2.19	122.0	8.05
R1643		1.35	0.14	6.75	11.6	60	1.32	0.20	10.75	<0.02	17.50	32.7	54	1.40	837	5.87
R1644		1.33	0.09	7.31	2.0	50	1.59	0.20	11.50	<0.02	18.45	24.1	67	0.91	455	6.12
R1645		1.33	0.19	7.01	2.3	50	1.17	0.26	11.65	<0.02	18.45	18.9	58	0.66	1230	5.64
R1646		1.44	0.06	7.41	1.1	30	1.46	0.18	8.22	<0.02	15.85	28.4	71	0.88	325	6.50
R1647		1.29	0.12	7.91	2.1	30	1.48	0.27	6.59	<0.02	15.80	29.8	84	0.77	780	6.08
R1648		0.74	0.05	8.60	2.0	170	1.32	0.12	3.29	<0.02	53.8	24.8	116	1.16	121.0	5.10
R1649		1.43	0.02	9.23	1.4	130	1.30	0.01	1.17	<0.02	82.9	6.9	143	0.39	5.6	3.32
R1650		1.89	0.02	9.58	1.1	400	1.82	0.02	1.70	<0.02	87.4	10.8	140	1.58	101.5	3.66
R1651		1.98	0.05	8.67	1.6	50	2.20	0.24	3.83	<0.02	27.6	36.3	105	1.39	1190	6.86
R1652		0.95	0.09	9.26	1.1	30	1.78	0.05	1.60	<0.02	40.6	6.4	140	0.49	479	2.03
R1653		1.91	0.02	8.84	0.7	60	1.28	0.01	2.94	<0.02	72.1	5.0	142	0.41	135.5	2.39
R1654		1.65	0.04	7.24	1.1	40	1.19	0.06	3.15	<0.02	50.2	5.8	136	0.38	2050	1.64
R1655		1.19	0.01	6.24	0.6	30	1.00	0.02	5.08	<0.02	51.3	3.1	109	0.30	539	1.39



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1626		20.4	0.09	3.0	0.112	0.95	13.5	28.7	2.25	1550	0.58	2.82	5.3	46.9	590	45.4
R1627		20.6	0.10	2.8	0.135	0.84	14.9	29.9	2.17	1640	0.50	2.74	4.5	47.1	550	67.7
R1628		20.4	0.10	3.1	0.131	1.04	14.8	26.0	2.29	1610	0.82	3.26	5.3	30.4	580	481
R1629		21.5	0.09	2.9	0.079	1.22	13.5	28.8	2.51	1480	0.59	3.29	5.1	31.9	570	341
R1630		19.70	0.06	5.3	0.140	0.27	10.3	31.6	1.27	651	5.37	3.53	4.4	73.9	290	96.2
R1631		18.95	0.11	1.9	0.069	0.91	6.5	80.7	5.02	1030	0.59	2.26	3.1	111.5	360	398
R1632		15.30	0.09	1.6	0.069	1.48	6.4	36.1	4.02	1230	0.47	1.99	2.6	96.0	310	76.1
R1633		16.15	0.08	1.6	0.096	0.67	7.5	51.6	3.24	1110	0.32	3.22	2.5	141.5	290	19.7
R1634		13.70	0.10	1.2	0.071	0.71	6.8	78.6	5.93	1160	0.44	1.26	2.1	245	250	137.0
R1635		14.10	0.10	1.4	0.053	1.37	5.4	32.8	6.52	1320	0.27	1.20	2.3	325	260	8.6
R1636		14.05	0.09	1.3	0.094	0.90	12.4	34.7	5.34	1660	0.46	1.43	2.2	292	640	17.9
R1637		15.35	0.10	1.4	0.153	0.57	9.3	45.4	4.95	1790	0.32	1.70	2.1	287	250	31.6
R1638		16.00	0.09	1.5	0.079	1.11	7.7	54.3	5.50	1300	0.37	1.62	2.3	243	270	36.2
R1639		13.45	0.10	1.4	0.047	1.24	4.9	54.8	5.85	1290	0.27	1.29	2.1	250	260	8.2
R1640		13.55	0.10	1.4	0.054	1.23	4.9	37.1	5.69	1310	0.31	1.30	2.1	245	270	8.3
R1641		15.15	0.24	2.5	0.051	0.54	15.1	5.9	2.91	777	2.90	1.79	18.2	>10000	1230	16.0
R1642		13.30	0.08	1.4	0.053	1.21	4.8	38.8	5.67	1290	0.31	1.30	2.1	287	260	7.8
R1643		16.65	0.07	1.4	0.176	0.86	7.9	38.5	1.98	2090	0.29	2.47	2.1	186.5	260	11.8
R1644		17.20	0.07	1.5	0.171	1.17	9.1	29.0	1.27	2230	0.29	2.87	2.2	191.0	290	2.4
R1645		16.75	0.06	1.4	0.180	1.02	9.6	25.1	1.12	2270	0.21	3.05	2.3	148.0	260	2.5
R1646		19.65	0.08	1.6	0.136	0.68	7.4	45.4	1.60	1680	0.33	3.39	2.3	173.5	320	3.8
R1647		19.05	0.08	1.7	0.113	0.62	7.2	42.7	1.54	1220	0.40	4.22	2.5	146.5	340	3.8
R1648		19.80	0.15	2.6	0.057	1.06	26.0	40.8	1.94	694	0.25	4.69	4.5	89.3	600	7.1
R1649		21.8	0.22	3.8	0.020	0.93	41.4	22.4	1.01	244	0.38	6.56	7.8	67.8	910	3.8
R1650		29.2	0.23	3.9	0.050	3.24	41.7	31.4	1.29	263	0.28	3.51	7.8	74.6	960	7.1
R1651		25.8	0.13	2.3	0.095	0.49	16.9	35.6	3.05	1020	0.17	4.66	3.9	130.0	550	4.2
R1652		20.5	0.20	3.9	0.035	0.60	19.6	17.3	0.70	277	0.08	7.16	6.5	43.9	530	1.9
R1653		18.65	0.23	3.6	0.060	0.59	34.3	8.6	0.60	575	0.14	7.12	8.6	32.0	660	1.9
R1654		17.60	0.13	3.6	0.069	0.52	22.8	3.2	0.25	433	0.14	6.71	8.2	14.2	1630	2.1
R1655		16.10	0.13	3.2	0.061	0.35	23.4	6.0	0.22	466	0.09	6.57	7.4	17.5	700	1.1



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1626		43.9	0.004	0.18	0.52	33.9	1	1.1	117.5	0.39	<0.05	3.05	1.185	0.24	1.1	780
R1627		39.1	0.003	0.11	0.38	30.5	1	1.1	113.5	0.35	<0.05	3.12	1.010	0.23	1.0	676
R1628		48.5	0.005	0.12	0.80	32.0	1	0.8	132.0	0.39	<0.05	3.20	0.834	0.19	1.3	315
R1629		58.0	0.003	0.13	0.35	31.3	1	0.8	162.5	0.36	<0.05	3.07	0.781	0.22	1.1	293
R1630		11.1	0.002	0.04	0.37	15.2	1	0.5	49.0	0.44	<0.05	6.93	0.383	0.06	2.5	172
R1631		46.7	<0.002	0.06	0.18	37.0	1	0.8	125.0	0.23	<0.05	1.94	0.498	0.20	0.6	223
R1632		64.4	<0.002	0.07	0.24	31.8	1	0.7	169.0	0.19	<0.05	1.83	0.470	0.32	0.5	226
R1633		34.8	<0.002	0.08	0.15	35.2	1	0.7	92.5	0.19	<0.05	1.63	0.414	0.18	0.5	217
R1634		35.4	<0.002	0.11	0.51	26.1	1	0.7	94.0	0.14	<0.05	1.26	0.339	0.15	0.5	175
R1635		65.3	0.002	0.07	0.25	29.8	<1	0.6	123.0	0.16	<0.05	1.32	0.395	0.28	0.4	192
R1636		44.5	<0.002	0.15	0.36	27.6	1	0.7	126.0	0.15	<0.05	1.38	0.374	0.21	0.5	179
R1637		28.6	<0.002	0.11	0.26	27.7	1	0.5	93.4	0.16	<0.05	1.34	0.353	0.14	0.4	175
R1638		52.0	0.002	0.13	0.31	32.2	<1	0.8	128.0	0.17	<0.05	1.35	0.405	0.21	0.6	209
R1639		54.9	0.002	0.05	0.24	29.5	1	0.6	124.5	0.16	<0.05	1.17	0.400	0.26	0.4	197
R1640		50.7	<0.002	0.07	0.30	29.7	1	0.6	126.5	0.15	<0.05	1.25	0.410	0.26	0.4	206
R1641		14.4	<0.002	6.11	0.62	15.0	2	1.2	326	0.87	<0.05	1.88	0.831	0.10	0.5	118
R1642		52.4	0.002	0.08	0.32	31.1	1	0.6	126.5	0.15	<0.05	1.21	0.403	0.25	0.4	200
R1643		40.0	<0.002	0.13	0.36	29.9	1	0.7	88.3	0.17	<0.05	1.23	0.389	0.16	0.4	205
R1644		51.7	<0.002	0.10	0.32	32.0	1	0.7	83.2	0.16	<0.05	1.30	0.417	0.19	0.5	224
R1645		45.7	<0.002	0.21	0.28	30.7	1	0.8	72.6	0.15	<0.05	1.32	0.421	0.16	0.6	215
R1646		30.9	0.002	0.08	0.24	32.6	<1	0.7	51.9	0.18	0.05	1.43	0.457	0.11	0.6	240
R1647		17.6	0.002	0.10	0.22	35.6	1	0.6	42.7	0.18	<0.05	1.50	0.492	0.08	0.8	244
R1648		33.0	<0.002	0.04	0.29	27.3	1	0.7	79.0	0.40	<0.05	8.05	0.396	0.14	2.1	197
R1649		30.4	<0.002	0.01	0.23	19.3	<1	0.8	59.5	0.75	<0.05	17.45	0.345	0.10	3.0	144
R1650		100.5	<0.002	0.01	0.26	21.1	1	1.0	40.0	0.73	<0.05	17.25	0.356	0.30	4.1	165
R1651		24.0	<0.002	0.14	0.41	33.0	1	0.9	51.3	0.34	<0.05	5.55	0.435	0.06	3.0	240
R1652		46.4	<0.002	0.05	0.26	17.1	1	2.0	40.0	0.65	0.10	16.15	0.290	0.10	2.8	93
R1653		28.2	<0.002	0.02	0.29	18.0	1	1.8	52.4	0.80	<0.05	13.55	0.379	0.09	2.3	115
R1654		23.0	<0.002	0.24	0.30	13.9	1	1.6	39.1	0.78	<0.05	10.25	0.325	0.09	1.9	114
R1655		11.8	<0.002	0.06	0.23	14.3	<1	1.2	40.6	0.67	<0.05	8.95	0.301	0.07	1.4	89



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**CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Cu-OG62 Cu %	Ni-OG62 Ni %	CRU-QC Pass2mm %	PUL-QC Pass75um %
R1626		0.7	24.1	135	110.0				76.4	87.8
R1627		0.5	24.3	117	106.5					94.6
R1628		0.4	26.1	320	114.0					
R1629		0.3	22.5	865	113.0					
R1630		0.4	22.4	61	197.5					
R1631		0.4	13.6	245	72.0					
R1632		0.3	14.0	118	63.1					
R1633		0.3	11.4	101	58.9					
R1634		0.5	15.3	136	47.0					
R1635		0.3	12.3	85	51.0					
R1636		0.3	18.3	75	55.5					92.7
R1637		0.4	17.9	113	53.0					88.7
R1638		0.3	15.0	238	53.5					
R1639		0.2	12.2	84	50.3					
R1640		0.2	12.1	89	51.7					
R1641		3.0	16.6	141	114.0	5.02		5.43		
R1642		0.2	12.5	89	52.8					
R1643		0.4	18.7	40	52.5					
R1644		0.7	19.3	28	56.1					
R1645		0.9	19.7	25	54.5					
R1646		0.9	17.6	32	59.4					
R1647		0.8	18.0	31	64.9					
R1648		0.9	16.6	36	100.0					
R1649		1.6	15.4	10	138.5					
R1650		1.4	18.7	9	142.0					
R1651		0.5	18.0	37	86.6					
R1652		0.7	16.0	12	145.0					
R1653		0.8	18.7	7	137.0					
R1654		0.9	18.2	3	132.5					
R1655		0.8	14.3	5	115.5					



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**CERTIFICATE OF ANALYSIS SD21064988**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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**QC CERTIFICATE SD21064988**

Project: Shining Tree-STR21-007  
 P.O. No.: STR21-007  
 This report is for 70 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		70.3	4.79	614	260	1.88	5.78	2.00	19.85	50.8	777	60	7.43	8520	4.98	12.55
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
EMOG-17																
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.82	7.71	34.2	1120	3.37	0.64	2.71	2.40	76.7	21.7	94	12.95	634	4.05	19.25
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 905		0.56	7.51	36.3	2800	2.88	5.47	0.61	0.37	93.6	14.1	20	6.89	1510	4.10	24.8
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.11	7.74	5.6	570	2.95	0.63	0.50	0.05	100.0	15.8	85	8.88	116.5	4.10	19.50
OREAS 920		0.09	7.81	5.6	570	2.73	0.62	0.51	0.07	98.6	14.6	87	8.47	116.0	4.20	19.75
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS 932																
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-134b																
OREAS-134b																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.12	1.9	0.948	1.65	25.3	29.0	0.96	767	1105	1.12	15.6	7810	840	7480	117.0
Target Range - Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
EMOG-17																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.21	3.1	0.179	3.20	38.6	33.0	1.35	562	15.35	2.04	22.1	738	1090	1130	205
Target Range - Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 905		0.19	6.8	0.672	2.93	46.5	20.4	0.27	370	3.37	2.44	19.2	10.0	290	30.5	134.0
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.16	4.6	0.089	2.87	48.4	32.3	1.35	607	0.41	0.65	18.2	40.4	760	26.2	186.0
OREAS 920		0.14	4.5	0.091	2.87	49.9	27.6	1.35	614	0.39	0.65	18.1	41.3	770	23.6	173.5
Target Range - Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS 932																
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-134b																
OREAS-134b																
Target Range - Lower Bound																
Upper Bound																
OREAS-74a																
OREAS-74a																
Target Range - Lower Bound																
Upper Bound																





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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.327	3.34	820	8.1	7	2.7	211	0.92	1.38	12.15	0.330	2.20	3.3	75	3.9
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
EMOG-17																
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.009	0.31	4.58	12.2	1	4.1	314	1.46	<0.05	21.8	0.509	1.03	5.3	111	4.6
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 905		<0.002	0.07	2.06	4.9	3	4.0	161.0	1.27	0.07	15.45	0.124	0.72	4.5	10	2.7
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.45	14.5	<1	5.1	83.6	1.35	<0.05	21.0	0.482	0.89	3.8	99	3.2
OREAS 920		<0.002	0.03	1.55	13.0	1	5.0	82.3	1.33	<0.05	20.6	0.480	0.92	3.6	100	3.0
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS 932																
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
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Target Range – Lower Bound																
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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62
		Y ppm	Zn ppm	Zr ppm	Co %	Cu %	Ni %
		0.1	2	0.5	0.0005	0.001	0.001
<b>STANDARDS</b>							
AMIS0160					3.18		0.004
Target Range - Lower Bound					2.99		<0.001
Upper Bound					3.21		0.005
EMOG-17		16.8	7640	65.3			
Target Range - Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
EMOG-17						0.849	0.770
EMOG-17					0.0759		0.778
Target Range - Lower Bound					0.0730		0.730
Upper Bound					0.0794		0.785
MP-1b					0.0008		<0.001
Target Range - Lower Bound					<0.0005		<0.001
Upper Bound					0.0014		0.002
MRGeo08		28.2	815	110.5			
Target Range - Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 905		16.2	141	264			
Target Range - Lower Bound		14.0	122	214			
Upper Bound		17.4	154	290			
OREAS 920		35.3	123	162.0			
OREAS 920		34.3	123	159.0			
Target Range - Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS 932						6.18	0.003
OREAS 932					0.0063		0.003
Target Range - Lower Bound							
Upper Bound							
OREAS-133a						0.041	0.002
OREAS-133a					0.0019		0.002
Target Range - Lower Bound					0.0010		<0.001
Upper Bound					0.0030		0.004
OREAS-134b						0.137	0.002
OREAS-134b					0.0100		0.002
Target Range - Lower Bound					0.0098		<0.001
Upper Bound					0.0116		0.004
OREAS-74a						0.122	3.10
OREAS-74a					0.0567		3.13
Target Range - Lower Bound							3.03
Upper Bound							3.25



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>BLANKS</b>																
BLANK		<0.01	<0.01	0.4	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		0.01	<0.01	<0.2	<10	<0.05	0.02	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2	<0.01	<0.05
BLANK		<0.01	<0.01	0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1591		0.05	6.74	2.0	60	1.28	0.12	13.40	<0.02	21.6	24.7	57	0.73	95.6	4.34	17.40
DUP		0.05	6.72	1.9	60	1.17	0.12	13.35	<0.02	21.0	24.2	58	0.70	94.4	4.36	17.05
Target Range – Lower Bound		0.04	6.38	1.7	50	1.11	0.10	12.70	<0.02	20.2	23.1	54	0.63	91.5	4.12	16.30
Upper Bound		0.06	7.08	2.2	70	1.34	0.14	14.05	0.04	22.4	25.8	61	0.80	98.5	4.58	18.15
R1627		0.19	6.63	15.7	120	1.06	0.34	5.25	0.05	29.9	48.8	16	2.52	84.6	10.55	20.6
DUP		0.19	6.95	14.8	120	1.15	0.32	5.42	0.05	31.0	51.2	17	2.60	93.0	11.00	22.1
Target Range – Lower Bound		0.17	6.44	14.3	100	1.00	0.30	5.06	0.03	28.9	47.4	15	2.38	85.5	10.25	20.2
Upper Bound		0.21	7.14	16.2	140	1.21	0.36	5.61	0.07	32.0	52.6	18	2.74	92.1	11.30	22.5
R1805		0.16	5.21	15.9	90	3.72	0.17	3.42	0.02	48.8	26.8	5	5.18	94.3	10.25	19.30
DUP		0.19	5.38	16.6	90	3.35	0.19	3.56	0.03	48.5	27.5	6	5.25	99.2	10.60	20.2
Target Range – Lower Bound		0.16	5.02	15.2	70	3.31	0.16	3.31	<0.02	46.2	25.7	4	4.90	93.2	9.89	18.70
Upper Bound		0.19	5.57	17.3	110	3.76	0.20	3.67	0.04	51.1	28.6	7	5.53	100.5	10.95	20.8



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm	ME-MS61 Pb ppm	ME-MS61 Rb ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
<b>BLANKS</b>																
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.07	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1591		0.08	1.3	0.209	1.18	11.4	37.7	1.58	2270	0.16	2.83	2.2	140.5	250	5.5	53.3
DUP		0.07	1.3	0.208	1.18	11.2	34.8	1.58	2280	0.16	2.82	2.2	138.0	250	5.2	52.9
Target Range – Lower Bound		<0.05	1.1	0.193	1.11	10.2	34.2	1.49	2160	0.10	2.67	2.0	132.0	230	4.6	50.3
Upper Bound		0.10	1.5	0.224	1.25	12.4	38.3	1.67	2390	0.22	2.98	2.4	146.5	270	6.1	55.9
R1627		0.10	2.8	0.135	0.84	14.9	29.9	2.17	1640	0.50	2.74	4.5	47.1	550	67.7	39.1
DUP		0.13	3.0	0.140	0.87	15.0	33.1	2.25	1680	0.48	2.87	4.8	51.3	580	70.2	41.6
Target Range – Lower Bound		0.06	2.7	0.126	0.80	13.7	29.7	2.09	1570	0.42	2.65	4.3	46.5	530	65.0	38.2
Upper Bound		0.17	3.1	0.149	0.91	16.2	33.3	2.33	1750	0.56	2.96	5.0	51.9	600	72.9	42.5
R1805		0.10	5.0	0.322	0.37	19.9	27.4	1.75	1420	1.15	2.51	9.2	1.4	1940	18.8	16.5
DUP		0.10	5.2	0.317	0.38	20.1	25.1	1.81	1480	1.21	2.57	9.4	1.1	2000	18.8	17.3
Target Range – Lower Bound		<0.05	4.7	0.299	0.35	18.5	24.7	1.68	1375	1.07	2.40	8.7	1.0	1860	17.4	16.0
Upper Bound		0.16	5.5	0.340	0.40	21.5	27.8	1.88	1530	1.29	2.68	9.9	1.5	2080	20.2	17.8



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>BLANKS</b>																
BLANK		<0.002	<0.01	0.09	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	0.1
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1591		<0.002	0.05	0.20	32.3	1	0.8	81.6	0.16	<0.05	1.30	0.406	0.18	0.7	194	0.8
DUP		<0.002	0.05	0.18	32.1	1	0.8	79.9	0.16	<0.05	1.30	0.411	0.18	0.7	195	0.7
Target Range – Lower Bound		<0.002	0.04	0.13	30.5	<1	0.6	76.5	0.10	<0.05	1.23	0.383	0.15	0.6	184	0.6
Upper Bound		0.004	0.06	0.25	33.9	2	1.0	85.0	0.22	0.10	1.38	0.434	0.21	0.8	205	0.9
R1627		0.003	0.11	0.38	30.5	1	1.1	113.5	0.35	<0.05	3.12	1.010	0.23	1.0	676	0.5
DUP		0.002	0.11	0.36	33.3	1	1.0	119.5	0.35	<0.05	3.13	1.040	0.26	1.0	689	0.5
Target Range – Lower Bound		<0.002	0.09	0.29	30.2	<1	0.8	110.5	0.28	<0.05	2.96	0.969	0.21	0.9	647	0.4
Upper Bound		0.004	0.13	0.45	33.6	2	1.3	122.5	0.42	0.10	3.29	1.080	0.28	1.2	718	0.6
R1805		<0.002	0.05	0.27	18.3	<1	1.3	44.4	0.65	<0.05	6.36	0.657	0.09	2.1	4	0.5
DUP		<0.002	0.05	0.27	19.5	<1	1.3	46.8	0.68	<0.05	6.46	0.672	0.08	2.1	4	0.5
Target Range – Lower Bound		<0.002	0.04	0.20	17.9	<1	1.0	43.1	0.58	<0.05	6.08	0.626	0.06	1.9	3	0.4
Upper Bound		0.004	0.06	0.34	19.9	2	1.6	48.1	0.75	0.10	6.74	0.703	0.11	2.3	5	0.6



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Co-OG62 Co %	Cu-OG62 Cu %	Ni-OG62 Ni %
		0.1	2	0.5	0.0005	0.001	0.001
<b>BLANKS</b>							
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK						<0.001	<0.001
BLANK					<0.0005		<0.001
Target Range – Lower Bound					<0.0005		<0.001
Upper Bound					0.0010		0.002
<b>DUPLICATES</b>							
ORIGINAL						1.035	
DUP						1.030	0.002
Target Range – Lower Bound						1.005	<0.001
Upper Bound						1.060	0.003
R1591		28.2	34	50.4			
DUP		27.9	34	50.5			
Target Range – Lower Bound		26.5	30	46.2			
Upper Bound		29.6	38	54.7			
R1627		24.3	117	106.5			
DUP		25.4	121	115.0			
Target Range – Lower Bound		23.5	111	102.0			
Upper Bound		26.2	127	119.5			
R1805		50.6	111	189.5			
DUP		51.7	116	201			
Target Range – Lower Bound		48.5	106	180.0			
Upper Bound		53.8	121	210			



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05
		<b>PREP DUPLICATES</b>														
R1644		0.09	7.31	2.0	50	1.59	0.20	11.50	<0.02	18.45	24.1	67	0.91	455	6.12	17.20
R1644 PREP DUP		0.09	6.83	2.1	50	1.84	0.22	11.05	<0.02	19.15	21.9	60	0.82	448	5.56	16.00



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5	Rb ppm 0.1
		<b>PREP DUPLICATES</b>														
R1644		0.07	1.5	0.171	1.17	9.1	29.0	1.27	2230	0.29	2.87	2.2	191.0	290	2.4	51.7
R1644 PREP DUP		0.09	1.4	0.166	1.09	9.4	30.0	1.15	2150	0.29	2.72	2.2	168.0	250	2.4	51.8





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Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61				
					Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	
					ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
					0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1	0.1
	<b>PREP DUPLICATES</b>																			
R1644					<0.002	0.10	0.32	32.0	1	0.7	83.2	0.16	<0.05	1.30	0.417	0.19	0.5	224	0.7	0.7
R1644 PREP DUP					<0.002	0.09	0.32	28.7	1	0.7	78.8	0.16	<0.05	1.33	0.404	0.19	0.5	210	0.7	0.7

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



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**QC CERTIFICATE OF ANALYSIS SD21064988**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
		<b>PREP DUPLICATES</b>					
R1644		19.3	28	56.1			
R1644 PREP DUP		18.3	26	50.0			



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<b>QC CERTIFICATE OF ANALYSIS</b>	<b>SD21064988</b>
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	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 15%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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**CERTIFICATE SD21065000**

Project: Shining Tree-STR21-007 Au  
 P.O. No.: STR21-007  
 This report is for 4 samples of Drill Core submitted to our lab in Sudbury, ON,  
 Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	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:   
 Saa Traxler, General Manager, North Vancouver



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 Account: BMRPLLBW

Project: Shining Tree-STR21-007 Au

<b>CERTIFICATE OF ANALYSIS SD21065000</b>
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
R1830		2.06	0.01	9.53	1.1	200	1.16	<0.01	1.65	0.03	100.5	4.6	131	0.39	3.0	1.94
R1831		1.69	<0.01	9.37	1.0	150	1.05	<0.01	1.02	<0.02	89.0	4.9	135	0.31	0.8	1.43
R1832		2.20	<0.01	9.24	0.8	150	1.27	<0.01	1.15	<0.02	95.9	4.3	127	0.38	0.5	1.54
R1833		1.87	0.01	9.09	0.4	30	1.72	0.01	1.12	<0.02	78.8	5.5	135	0.59	178.5	2.31



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 Account: BMRPLLBW

Project: Shining Tree-STR21-007 Au

**CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1830		21.3	0.08	3.9	0.028	0.87	51.7	16.9	0.84	265	0.25	6.54	8.3	51.9	790	4.2
R1831		21.2	0.11	4.0	0.028	0.82	45.5	19.8	0.93	193	0.11	6.79	6.8	43.4	720	15.1
R1832		20.8	0.08	4.1	0.032	0.84	49.2	20.5	0.88	223	0.10	6.56	8.2	39.1	710	4.5
R1833		20.7	0.07	3.9	0.034	0.75	40.6	14.2	0.62	223	0.13	6.60	8.4	39.3	590	1.9



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Project: Shining Tree-STR21-007 Au

**CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1830		31.8	<0.002	0.01	0.44	19.2	1	1.1	72.6	0.80	<0.05	17.40	0.332	0.10	3.2	113
R1831		31.2	<0.002	0.01	0.43	18.6	1	1.9	61.5	0.67	<0.05	17.25	0.288	0.07	2.7	94
R1832		39.1	<0.002	<0.01	0.33	18.2	1	2.0	64.7	0.81	<0.05	17.35	0.314	0.09	3.2	103
R1833		61.3	<0.002	0.02	0.24	17.8	<1	2.6	45.8	0.84	<0.05	17.00	0.312	0.16	2.9	120



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Project: Shining Tree-STR21-007 Au  
**CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-ICP21	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.01	0.01
R1830		0.4	16.6	9	133.0	<0.001	75.6	95.4
R1831		0.5	15.5	8	134.5	<0.001		96.9
R1832		0.5	15.8	7	137.5	<0.001		
R1833		0.6	16.6	7	133.0	<0.001		





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Project: Shining Tree-STR21-007 Au

**CERTIFICATE OF ANALYSIS SD21065000**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REEs may not be totally soluble in this method.  
 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
 CRU-31 CRU-QC LOG-22 PUL-31  
 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
 Au-ICP21 ME-MS61



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**QC CERTIFICATE SD21065000**

Project: Shining Tree-STR21-007 Au  
 P.O. No.: STR21-007  
 This report is for 4 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree-STR21-007 Au

**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
<b>STANDARDS</b>																
DS-1		0.44	4.36	6730	230	0.78	0.08	6.46	0.96	43.8	8.9	56	7.07	26.2	2.97	11.05
Target Range – Lower Bound		0.41	4.02	6260	180	0.68	0.08	5.35	0.86	38.6	8.5	51	6.25	25.0	2.69	9.76
Upper Bound		0.53	4.94	7660	260	0.96	0.13	6.57	1.10	47.2	10.6	65	7.75	29.2	3.31	12.05
MRGeo08		4.72	7.90	34.8	1140	3.30	0.69	2.77	2.37	77.6	20.8	97	13.20	631	4.17	20.3
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.54	7.31	35.5	2740	2.82	5.76	0.59	0.32	91.2	14.8	19	6.89	1465	4.05	24.9
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
Target Range – Lower Bound																
Upper Bound																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	0.06
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10



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Project: Shining Tree-STR21-007 Au  
**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
DS-1		0.08	4.0	0.048	1.05	23.2	19.8	2.90	455	3.99	0.03	5.2	48.8	350	11.5	49.4
Target Range – Lower Bound		<0.05	3.6	0.038	0.89	19.4	17.8	2.47	388	3.97	<0.01	4.4	43.6	300	11.9	45.9
Upper Bound		0.21	4.6	0.063	1.11	24.8	22.2	3.05	486	4.97	0.05	5.6	53.8	380	15.7	56.3
MRGeo08		0.23	3.6	0.183	3.27	37.7	35.0	1.41	578	16.10	2.07	22.3	736	1110	1180	204
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.15	7.3	0.666	2.86	47.5	19.8	0.26	372	3.16	2.43	17.6	9.5	270	31.1	137.5
Target Range – Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
Target Range – Lower Bound																
Upper Bound																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2



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 Account: BMRPLLBW

Project: Shining Tree-STR21-007 Au

**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
DS-1		0.002	2.70	100.0	9.1	1	1.9	82.4	0.55	0.09	4.55	0.259	19.40	2.4	146	32.8
Target Range – Lower Bound		<0.002	2.38	83.9	8.0	<1	1.5	69.1	0.38	<0.05	3.88	0.229	17.00	2.2	125	27.5
Upper Bound		0.007	2.94	113.5	10.0	4	2.5	84.9	0.63	0.18	4.76	0.291	23.0	2.9	155	37.5
MRGeo08		0.012	0.32	4.94	12.6	2	4.4	317	1.76	<0.05	20.9	0.520	1.12	5.8	113	5.3
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		<0.002	0.07	2.09	4.9	3	4.0	156.5	1.42	0.09	15.40	0.119	0.77	4.8	10	2.9
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
Target Range – Lower Bound																
Upper Bound																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2



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 Account: BMRPLLW

**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
<b>STANDARDS</b>					
DS-1		25.1	220	152.0	
Target Range - Lower Bound		22.2	195	137.0	
Upper Bound		27.3	243	186.5	
MGeo08		28.2	833	114.0	
Target Range - Lower Bound		23.8	722	92.2	
Upper Bound		29.3	886	126.0	
OREAS 682					0.076
Target Range - Lower Bound					
Upper Bound					
OREAS 905		16.4	138	258	
Target Range - Lower Bound		14.0	122	214	
Upper Bound		17.4	154	290	
PK03					5.37
Target Range - Lower Bound					4.73
Upper Bound					5.34
PMP-18					0.305
Target Range - Lower Bound					0.289
Upper Bound					0.327
SJ95					2.81
Target Range - Lower Bound					2.63
Upper Bound					2.97
<b>BLANKS</b>					
BLANK					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
BLANK		<0.1	<2	<0.5	
Target Range - Lower Bound		<0.1	<2	<0.5	
Upper Bound		0.2	4	1.0	



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 Account: BMRPLLBW

**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
<b>DUPLICATES</b>																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.09 0.05 0.06 0.08	1.59 1.62 1.51 1.70	2.2 2.5 2.0 2.7	190 190 170 210	0.32 0.29 0.24 0.37	0.03 0.03 0.02 0.04	29.0 30.1 28.1 31.0	0.10 0.09 0.07 0.12	22.4 23.1 21.6 23.9	2.4 2.4 2.2 2.6	9 9 8 10	0.88 0.91 0.80 0.99	4.2 4.1 3.8 4.5	0.53 0.55 0.50 0.58	3.85 3.96 3.66 4.15

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



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**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound	0.08 0.10 <0.05 0.10	0.8 0.8 0.7 0.9	0.010 0.007 <0.005 0.010	1.10 1.10 1.04 1.17	9.2 9.6 8.4 10.4	6.7 7.4 6.5 7.6	2.15 2.22 2.07 2.30	143 145 132 156	0.27 0.24 0.19 0.32	0.26 0.27 0.24 0.29	2.0 2.0 1.8 2.2	4.6 4.8 4.3 5.1	350 370 330 390	7.7 7.2 6.6 8.3	26.4 28.1 25.8 28.7	

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**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<0.002	0.10	0.15	2.1	1	0.3	250	0.12	<0.05	1.58	0.070	0.10	0.5	10	0.1	
	<0.002	0.10	0.12	2.1	1	0.3	260	0.12	<0.05	1.68	0.071	0.10	0.5	11	0.1	
	<0.002	0.09	0.07	1.9	<1	<0.2	242	0.06	<0.05	1.54	0.062	0.07	0.4	9	<0.1	
	0.004	0.12	0.20	2.3	2	0.4	268	0.18	0.10	1.72	0.079	0.13	0.6	12	0.2	

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Project: Shining Tree-STR21-007 Au  
**QC CERTIFICATE OF ANALYSIS SD21065000**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Au-ICP21 Au ppm
		0.1	2	0.5	0.001
<b>DUPLICATES</b>					
ORIGINAL					0.042
DUP					0.046
Target Range - Lower Bound					0.041
Upper Bound					0.047
ORIGINAL					<0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL					<0.001
DUP					<0.001
Target Range - Lower Bound					<0.001
Upper Bound					0.002
ORIGINAL		7.8	37	27.9	
DUP		8.1	37	31.6	
Target Range - Lower Bound		7.5	33	27.0	
Upper Bound		8.4	41	32.5	



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Project: Shining Tree-STR21-007 Au

**QC CERTIFICATE OF ANALYSIS SD21065000**

	<b>CERTIFICATE COMMENTS</b>										
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method. ME-MS61</p> <p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table><tr><td>CRU-31</td><td>CRU-QC</td><td>LOG-22</td><td>PUL-31</td></tr><tr><td>PUL-QC</td><td>SPL-21</td><td>WEI-21</td><td></td></tr></table> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au-ICP21</td><td>ME-MS61</td></tr></table>	CRU-31	CRU-QC	LOG-22	PUL-31	PUL-QC	SPL-21	WEI-21		Au-ICP21	ME-MS61
CRU-31	CRU-QC	LOG-22	PUL-31								
PUL-QC	SPL-21	WEI-21									
Au-ICP21	ME-MS61										



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 26-APR-2021  
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**CERTIFICATE SD21065008**

Project: Shining Tree-STR21-008  
 P.O. No.: SDR21-008  
 This report is for 48 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree-STR21-008

**CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
R1 744		0.99	<0.01	6.61	1.1	160	0.47	<0.01	4.24	<0.02	11.05	41.7	7	0.53	1.8	7.94
R1 745		2.22	<0.01	7.07	0.8	150	0.21	0.01	6.00	0.03	3.96	34.3	108	0.28	6.6	6.97
R1 746		1.99	<0.01	6.86	0.5	190	0.23	<0.01	6.84	<0.02	3.84	39.6	114	0.45	25.6	6.96
R1 747		2.21	<0.01	6.78	0.2	340	0.31	0.01	8.11	0.03	4.96	33.5	98	1.13	16.0	6.48
R1 748		1.25	0.03	6.96	<0.2	310	0.58	0.01	5.05	0.02	7.67	37.7	114	1.22	3.3	7.64
R1 749		1.18	0.20	5.12	6.4	110	0.46	0.43	13.15	<0.02	15.45	46.5	79	0.62	1230	6.99
R1 750		1.42	0.13	7.20	7.7	140	0.57	0.42	3.85	0.04	7.59	74.6	126	0.81	326	10.55
R1 751		1.51	0.04	5.62	23.0	70	0.33	0.03	8.50	0.09	7.87	40.8	82	0.27	108.0	11.85
R1 752		0.98	0.11	3.92	15.9	20	0.26	0.09	11.70	0.62	11.15	40.1	63	0.08	207	13.20
R1 753		0.83	0.05	5.54	40.6	50	0.32	0.03	7.06	0.14	7.25	44.8	89	0.17	78.8	14.35
R1 754		0.89	0.03	5.50	38.0	20	0.27	0.03	6.98	0.07	9.10	39.7	81	0.11	105.5	13.40
R1 755		0.83	0.04	6.59	63.2	140	0.41	0.02	8.16	0.02	8.83	49.6	102	0.55	95.0	10.65
R1 756		0.81	0.06	6.15	28.3	210	0.47	0.06	3.01	<0.02	11.15	31.4	81	1.05	82.9	7.67
R1 757		1.32	0.06	5.38	6.1	370	0.67	0.20	1.19	0.02	26.4	10.8	8	1.30	55.2	2.15
R1 758		1.22	0.29	4.36	48.5	80	0.44	0.16	5.90	1.45	32.0	79.2	340	0.39	548	8.17
R1 759		0.77	0.10	6.60	11.9	200	0.43	0.02	9.48	1.27	15.15	54.3	314	0.78	151.5	6.86
R1 760		0.94	0.11	6.93	19.8	220	0.46	0.01	8.72	1.06	11.45	55.6	326	0.82	149.5	6.74
R1 761		0.12	3.97	5.47	13.8	120	0.54	0.86	3.38	2.24	17.00	960	245	0.77	>10000	17.85
R1 762		2.15	0.08	6.96	9.1	230	0.29	0.01	6.83	0.49	7.78	51.6	182	0.71	148.0	6.56
R1 763		2.01	0.07	6.99	6.6	90	0.24	0.01	7.98	0.03	6.41	48.6	175	0.80	107.5	5.64
R1 764		2.03	0.11	6.90	6.8	40	0.29	0.01	7.18	0.02	6.03	52.2	175	0.21	104.0	5.94
R1 765		2.16	0.07	6.35	1.3	10	0.15	0.01	9.56	0.78	7.18	46.4	170	0.11	96.2	9.56
R1 766		2.11	0.07	6.75	0.8	30	0.20	0.01	7.83	0.13	6.58	50.5	230	0.14	96.2	6.93
R1 767		2.18	0.02	6.79	2.0	30	0.28	0.02	6.76	<0.02	7.63	45.8	156	0.13	81.9	7.97
R1 768		2.13	0.02	6.73	1.0	20	0.22	0.01	6.54	0.02	7.85	41.7	93	0.16	110.0	8.62
R1 769		1.46	0.02	6.63	2.4	20	0.28	0.02	6.43	<0.02	7.96	49.5	70	0.17	131.0	6.96
R1 770		2.11	0.02	7.07	2.0	30	0.30	0.01	6.47	<0.02	7.98	46.4	81	0.17	67.5	6.61
R1 771		2.15	0.05	7.15	2.4	30	0.34	0.01	6.72	<0.02	8.73	45.1	111	0.17	131.0	6.81
R1 772		1.89	0.06	6.65	8.7	30	0.33	0.04	7.31	0.03	8.92	48.2	149	0.11	140.5	7.97
R1 773		1.88	0.03	6.97	0.7	20	0.37	0.04	6.17	<0.02	8.25	40.6	157	0.14	96.3	7.01
R1 774		1.84	0.03	7.25	1.6	30	0.28	0.01	6.25	<0.02	8.38	44.0	172	0.26	141.0	6.31
R1 775		0.49	<0.01	0.12	<0.2	10	0.06	0.01	31.6	0.02	1.01	1.1	3	<0.05	3.2	0.19
R1 776		1.99	0.05	7.94	6.5	50	0.65	0.03	3.30	0.10	7.88	51.4	206	0.78	151.0	6.74
R1 777		1.91	0.07	7.40	6.6	30	0.70	0.10	5.41	<0.02	10.75	42.6	179	0.35	115.5	6.99
R1 778		2.05	0.28	6.71	21.7	70	1.09	0.29	6.16	0.05	32.2	52.9	61	3.15	151.5	11.80
R1 779		0.83	0.14	8.44	43.9	100	0.65	0.05	3.83	0.03	11.65	56.7	136	1.43	122.0	8.63
R1 780		1.07	0.17	8.42	52.2	90	0.58	0.05	4.51	0.02	12.15	63.1	134	1.32	135.0	8.65
R1 781		0.12	4.33	5.56	15.8	120	0.56	0.85	3.42	2.43	17.40	984	250	0.85	>10000	18.10
R1 782		1.79	0.18	7.45	72.0	100	0.42	0.01	6.56	0.04	10.80	53.1	117	1.06	118.5	7.94
R1 783		2.13	0.17	7.67	96.6	130	0.47	0.02	6.68	0.07	11.85	65.8	124	1.43	124.5	9.62



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Project: Shining Tree-STR21-008

**CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
R1 744		17.60	0.08	1.4	0.092	0.59	4.0	32.2	1.63	1240	0.48	1.72	2.6	42.6	560	<0.5
R1 745		13.00	0.07	0.6	0.040	0.31	1.5	46.1	3.13	1380	0.28	1.96	1.0	57.3	200	<0.5
R1 746		12.40	0.06	0.5	0.035	0.36	1.5	43.3	3.66	1410	0.14	1.66	1.0	75.2	90	<0.5
R1 747		12.45	0.05	0.7	0.045	1.29	2.0	27.7	3.11	1590	0.15	0.83	1.0	68.4	260	<0.5
R1 748		13.45	0.06	0.6	0.055	1.22	3.2	29.0	3.44	1200	0.19	0.64	0.8	73.9	220	0.5
R1 749		10.95	<0.05	0.7	0.140	0.89	6.4	31.1	2.41	2380	0.58	0.04	0.9	52.5	180	5.6
R1 750		16.15	0.06	0.9	0.075	1.14	3.1	42.4	3.46	1370	0.78	0.05	1.3	86.5	250	4.7
R1 751		11.40	<0.05	0.7	0.053	0.40	3.5	25.7	3.01	4100	0.34	0.03	0.9	72.9	190	1.2
R1 752		8.44	<0.05	0.6	0.081	0.06	5.4	14.3	3.09	5970	0.49	0.01	0.7	55.4	120	5.2
R1 753		11.20	<0.05	0.7	0.061	0.25	3.3	22.1	3.25	5460	0.30	0.03	0.8	76.2	170	6.4
R1 754		11.95	<0.05	0.9	0.053	0.10	4.0	24.9	2.81	3850	0.26	0.01	0.9	72.3	160	2.6
R1 755		13.55	<0.05	0.9	0.067	0.84	3.8	31.0	2.22	2960	0.30	0.05	0.9	91.9	230	1.4
R1 756		13.95	<0.05	1.4	0.060	1.39	5.0	25.0	1.45	1100	0.79	0.08	1.2	62.1	220	3.4
R1 757		13.85	0.05	3.2	0.055	2.26	13.9	6.9	0.44	328	0.93	0.12	3.3	21.6	260	3.6
R1 758		14.80	0.08	3.1	0.443	0.55	14.6	20.1	1.89	2190	4.18	0.07	3.9	230	350	20.8
R1 759		15.35	<0.05	1.4	0.150	1.40	6.0	36.4	2.12	2030	0.65	0.17	2.8	127.5	290	3.6
R1 760		14.80	<0.05	1.4	0.123	1.56	4.5	32.5	2.12	1940	0.56	0.18	2.5	128.5	290	2.6
R1 761		11.40	0.31	1.4	0.123	0.31	7.3	8.7	3.78	901	4.34	1.19	5.1	>10000	430	13.5
R1 762		14.85	0.10	1.1	0.110	1.11	3.2	41.2	2.56	1320	0.40	0.80	2.0	99.4	270	1.3
R1 763		13.50	0.09	1.1	0.058	0.73	2.5	35.2	3.32	1410	0.20	1.32	1.6	94.8	240	0.9
R1 764		14.05	0.08	1.1	0.059	0.26	2.4	27.7	3.72	1360	0.23	1.99	1.6	106.5	240	1.1
R1 765		12.65	0.08	0.8	0.055	0.02	2.8	17.3	4.14	2240	0.25	0.39	1.4	97.9	210	7.7
R1 766		14.40	0.08	1.0	0.063	0.08	2.6	23.8	3.88	2030	0.19	1.38	1.6	105.5	230	2.2
R1 767		13.95	0.08	1.0	0.059	0.05	3.0	19.0	3.58	1980	0.21	1.63	1.8	70.8	260	1.0
R1 768		14.40	0.07	1.1	0.063	0.05	3.1	18.1	3.47	2260	0.22	1.51	1.9	56.2	290	1.0
R1 769		15.70	0.08	1.2	0.066	0.02	3.2	18.8	3.56	1460	0.26	1.97	2.0	54.1	290	1.1
R1 770		15.70	0.07	1.2	0.059	0.04	3.1	20.6	3.60	1520	0.18	2.31	2.1	72.7	300	0.5
R1 771		15.05	<0.05	1.3	0.067	0.04	3.4	23.2	3.86	1550	0.25	2.20	2.2	66.8	300	0.9
R1 772		14.70	<0.05	1.2	0.053	0.04	3.4	24.3	3.06	1980	0.28	1.96	1.9	71.2	270	3.4
R1 773		14.85	<0.05	1.2	0.047	0.06	3.1	29.5	3.26	1640	0.23	2.29	2.0	65.9	280	1.0
R1 774		15.25	<0.05	1.2	0.051	0.20	3.3	34.5	3.41	1400	0.16	2.41	2.0	73.4	280	0.8
R1 775		0.34	<0.05	0.1	<0.005	0.01	1.2	1.4	1.97	140	0.05	0.04	0.2	0.7	80	0.8
R1 776		16.05	<0.05	1.1	0.070	0.12	2.9	37.3	4.25	1400	0.21	3.54	2.1	90.0	300	1.5
R1 777		15.35	<0.05	1.6	0.074	0.12	4.2	31.1	3.77	1150	0.29	3.14	2.3	81.1	300	1.7
R1 778		18.10	0.06	3.9	0.109	0.35	13.8	27.4	2.95	1860	0.55	1.98	7.1	66.8	920	4.2
R1 779		19.05	0.05	1.2	0.082	0.40	4.5	34.8	2.88	1840	0.16	3.40	2.8	147.0	370	2.9
R1 780		19.30	<0.05	1.2	0.093	0.38	4.7	34.1	2.88	1850	0.13	3.40	2.8	150.0	380	3.7
R1 781		12.45	0.37	1.5	0.128	0.32	7.8	9.0	3.85	915	4.71	1.21	5.5	>10000	440	14.7
R1 782		17.05	<0.05	1.0	0.077	0.68	4.1	42.6	2.24	1900	0.25	1.82	2.3	135.0	380	2.7
R1 783		17.80	0.05	0.8	0.083	1.02	4.6	60.1	2.46	2180	0.23	0.67	2.1	142.5	330	2.7



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
R1744		18.1	<0.002	<0.01	0.19	40.8	<1	0.5	29.0	0.17	<0.05	0.49	0.733	0.04	0.1	317
R1745		8.0	<0.002	<0.01	0.11	38.4	<1	0.2	66.7	0.07	<0.05	0.17	0.390	0.03	<0.1	229
R1746		10.9	<0.002	0.01	0.14	39.1	<1	0.2	66.3	0.06	<0.05	0.17	0.344	0.04	<0.1	212
R1747		34.5	<0.002	0.01	0.08	36.8	<1	0.3	52.9	0.06	<0.05	0.20	0.332	0.08	<0.1	232
R1748		35.5	<0.002	<0.01	0.13	38.7	<1	0.4	56.0	0.06	<0.05	0.20	0.291	0.13	<0.1	237
R1749		25.5	0.002	0.74	0.81	40.1	2	0.8	64.4	0.05	<0.05	0.16	0.256	0.18	0.1	168
R1750		24.4	0.004	1.14	0.61	42.2	3	1.0	25.2	0.08	0.08	0.22	0.347	0.17	0.1	237
R1751		11.1	0.002	0.04	0.15	35.6	<1	0.5	57.4	0.06	<0.05	0.17	0.255	0.06	0.1	178
R1752		1.8	<0.002	1.90	0.65	23.2	2	0.4	78.7	0.05	0.17	0.22	0.153	0.04	0.1	117
R1753		6.9	0.003	0.57	0.34	31.7	1	0.5	52.3	0.06	0.06	0.18	0.225	0.06	0.1	173
R1754		2.7	0.002	0.44	0.39	31.6	1	0.3	51.3	0.06	<0.05	0.26	0.176	0.04	0.1	159
R1755		23.5	0.002	0.17	0.27	40.8	1	0.6	77.8	0.06	<0.05	0.21	0.242	0.21	0.1	210
R1756		39.1	<0.002	0.71	0.67	24.7	1	0.9	32.7	0.10	0.06	0.54	0.138	0.39	0.2	140
R1757		63.9	<0.002	0.55	0.43	3.5	<1	1.5	16.1	0.30	0.06	1.43	0.100	0.55	0.5	17
R1758		16.4	0.010	1.59	0.97	15.0	4	2.9	37.1	0.30	0.38	2.15	0.203	0.14	0.7	78
R1759		49.1	0.002	0.16	0.23	41.3	1	1.3	55.3	0.18	0.05	0.66	0.415	0.31	0.2	220
R1760		52.1	0.002	0.12	0.20	40.8	1	1.2	50.5	0.16	<0.05	0.47	0.435	0.34	0.1	230
R1761		10.5	0.049	8.13	3.00	8.4	21	2.9	171.5	0.30	4.26	1.03	0.499	0.17	0.3	72
R1762		36.8	0.003	0.14	0.15	37.6	1	0.8	42.8	0.12	<0.05	0.36	0.427	0.29	0.1	223
R1763		21.7	0.002	0.04	0.08	39.0	<1	0.4	67.7	0.10	<0.05	0.22	0.390	0.17	0.1	222
R1764		8.0	<0.002	0.09	0.20	39.0	1	0.4	53.4	0.10	<0.05	0.22	0.384	0.05	0.1	224
R1765		0.3	0.002	0.53	0.75	33.8	1	0.3	139.0	0.09	<0.05	0.18	0.326	0.02	0.1	189
R1766		1.9	0.002	0.10	0.14	38.0	1	0.5	83.6	0.08	<0.05	0.23	0.337	0.02	0.1	205
R1767		1.3	0.002	0.27	0.12	41.6	1	0.4	76.5	0.11	<0.05	0.23	0.419	0.02	0.1	245
R1768		0.8	0.002	0.24	0.14	39.0	<1	0.4	68.1	0.11	<0.05	0.26	0.463	0.02	0.1	256
R1769		0.5	0.002	0.21	0.33	39.7	1	0.4	101.0	0.12	0.05	0.27	0.453	<0.02	0.1	252
R1770		1.1	0.003	0.02	0.19	43.6	<1	0.4	94.5	0.12	<0.05	0.27	0.485	<0.02	0.1	269
R1771		1.2	0.002	0.08	0.29	46.0	<1	0.5	113.0	0.13	<0.05	0.28	0.485	<0.02	0.1	271
R1772		1.4	0.002	0.22	0.20	47.1	1	0.4	49.7	0.12	<0.05	0.27	0.420	0.02	0.1	246
R1773		2.4	0.003	0.10	0.13	46.9	1	0.4	59.3	0.12	<0.05	0.26	0.442	0.02	0.1	253
R1774		8.9	0.002	0.08	0.15	45.4	<1	0.4	67.9	0.12	<0.05	0.26	0.450	0.04	0.1	257
R1775		0.2	<0.002	<0.01	0.09	0.7	<1	<0.2	78.7	<0.05	<0.05	0.07	0.008	<0.02	0.2	3
R1776		2.6	0.002	0.11	0.16	47.0	1	0.6	95.0	0.13	<0.05	0.28	0.486	0.03	0.1	277
R1777		1.9	0.003	0.19	0.17	41.8	1	1.1	76.6	0.15	<0.05	0.52	0.457	0.02	0.1	243
R1778		10.2	0.004	0.44	0.52	41.5	1	1.5	51.1	0.46	0.07	2.53	1.010	0.10	0.7	367
R1779		14.6	0.003	0.32	0.40	45.7	1	1.0	72.6	0.18	<0.05	0.32	0.684	0.16	0.1	314
R1780		14.3	0.003	0.43	0.48	48.4	1	0.9	65.7	0.16	<0.05	0.31	0.673	0.15	0.1	318
R1781		11.5	0.054	8.23	3.28	9.4	23	3.0	177.5	0.35	4.66	1.10	0.501	0.20	0.4	73
R1782		30.0	0.003	0.17	0.37	41.3	<1	0.6	40.1	0.14	<0.05	0.26	0.563	0.38	0.1	275
R1783		42.1	0.002	0.10	0.46	42.0	<1	0.7	42.6	0.12	<0.05	0.25	0.521	0.45	0.1	282



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		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
R1744		0.4	22.7	68	60.4			78.1	92.8
R1745		0.1	10.0	58	27.2				92.7
R1746		0.2	11.0	51	22.2				
R1747		0.5	11.0	48	27.2				
R1748		1.3	12.1	62	22.3				
R1749		0.9	22.5	82	23.4				
R1750		1.7	12.0	131	32.6				
R1751		0.3	9.1	105	23.2				
R1752		0.3	13.0	150	21.0				
R1753		0.8	7.4	126	23.0				
R1754		1.7	7.4	126	32.0				
R1755		2.6	8.1	118	30.2				
R1756		1.8	6.3	83	50.3				
R1757		0.5	8.0	19	116.5				
R1758		0.5	14.1	716	112.5				
R1759		0.4	14.5	570	53.9				
R1760		0.4	11.5	520	49.3				
R1761		2.3	9.6	135	52.6	1.615	4.68		
R1762		0.4	11.8	278	40.2				
R1763		0.4	12.0	71	37.0				
R1764		0.2	12.8	71	37.0				
R1765		0.1	19.2	161	27.2				
R1766		0.1	14.7	84	30.8				
R1767		0.1	17.3	71	32.5				
R1768		0.1	17.0	73	33.8			76.4	
R1769		0.3	17.2	79	39.6				
R1770		0.3	18.2	77	39.3				
R1771		0.3	17.8	87	42.5				
R1772		0.2	19.7	84	40.0				
R1773		0.2	20.1	69	41.6				
R1774		0.2	17.6	72	43.0				
R1775		<0.1	2.2	3	2.0				
R1776		0.9	17.1	171	37.3				
R1777		1.5	18.7	115	48.2				
R1778		1.8	41.7	134	142.0				
R1779		2.2	25.2	110	40.8				
R1780		1.9	26.1	108	41.4				
R1781		2.7	10.4	139	55.7	1.620	4.64		
R1782		1.9	21.7	102	38.2				90.6
R1783		3.3	19.4	118	28.0			77.4	89.7





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		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1784		1.82	0.18	7.08	65.8	120	0.47	0.01	7.52	0.14	10.05	54.1	116	0.82	94.9	10.20
R1785		1.87	0.31	6.53	46.8	150	0.41	0.06	7.82	0.10	10.55	54.6	116	0.66	138.5	9.88
R1786		1.60	0.33	5.89	39.8	110	0.36	0.07	8.38	0.09	12.05	52.0	87	0.58	134.0	9.50
R1787		1.13	1.27	6.49	14.0	140	0.45	0.02	6.62	2.25	13.50	45.9	54	0.86	112.5	8.51
R1788		1.16	0.06	4.46	3.4	20	0.15	0.01	13.15	0.10	6.89	42.6	30	0.24	87.2	6.47
R1789		1.06	0.05	6.17	1.5	30	0.26	0.01	9.41	0.54	10.80	49.3	59	0.17	70.4	8.59
R1790		1.97	0.07	6.33	6.3	40	0.27	0.02	7.00	0.11	8.05	58.6	44	0.28	78.4	8.58
R1791		2.11	0.03	6.97	1.3	50	0.33	<0.01	8.06	0.05	9.40	37.6	100	0.20	116.5	7.90

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		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1784		15.80	<0.05	0.9	0.077	0.75	3.8	68.3	2.39	2740	0.26	0.21	2.0	113.0	270	21.0
R1785		15.05	0.10	0.8	0.080	0.76	3.9	75.3	2.19	2270	0.93	0.18	1.8	124.5	280	12.1
R1786		14.85	0.10	0.8	0.074	0.58	4.4	69.1	2.01	2310	0.60	0.24	1.8	89.4	330	6.4
R1787		17.40	0.09	1.1	0.091	0.75	4.9	64.3	2.41	1560	0.33	0.55	2.7	62.0	430	107.5
R1788		10.50	0.07	1.0	0.068	0.02	2.6	14.1	3.17	1410	0.40	0.86	1.6	100.0	250	1.1
R1789		15.80	0.07	1.3	0.062	0.03	4.0	13.5	3.89	1560	0.28	1.17	2.0	127.0	310	4.1
R1790		14.10	0.08	1.2	0.054	0.04	3.1	25.0	4.43	1340	0.50	1.52	1.9	158.0	320	1.7
R1791		15.90	0.07	1.2	0.072	0.12	3.6	17.6	3.24	2060	0.27	1.53	2.1	58.6	360	1.0



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		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1784		30.2	0.002	0.10	0.42	40.0	<1	0.6	49.1	0.13	<0.05	0.24	0.508	0.37	0.1	261
R1785		27.3	<0.002	0.58	1.01	35.3	1	0.7	52.2	0.11	0.12	0.28	0.450	0.34	0.1	250
R1786		21.8	0.003	0.52	0.77	36.0	1	0.6	44.3	0.12	0.11	0.29	0.448	0.33	0.1	249
R1787		31.0	0.002	0.27	0.97	40.0	1	0.9	53.3	0.17	<0.05	0.35	0.642	0.31	0.1	302
R1788		0.8	<0.002	0.13	0.12	20.9	1	0.5	64.4	0.10	<0.05	0.22	0.352	0.02	0.1	149
R1789		0.8	<0.002	0.32	0.37	29.8	1	0.6	232	0.12	<0.05	0.28	0.467	<0.02	0.1	219
R1790		1.4	0.003	0.23	0.20	27.7	1	0.4	104.0	0.11	<0.05	0.27	0.474	0.02	0.1	210
R1791		3.8	0.002	0.17	0.49	39.7	1	0.6	116.0	0.13	<0.05	0.27	0.551	0.03	0.1	277

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**CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Cu-OG62 Cu %	Ni-OG62 Ni %	CRU-QC Pass2mm %	PUL-QC Pass75um %
R1784		1.8	17.3	123	30.8				
R1785		2.3	15.5	128	27.2				
R1786		2.3	15.7	114	32.4				
R1787		3.9	15.6	490	44.1				
R1788		0.1	14.3	73	34.6				
R1789		0.1	18.6	131	47.9				
R1790		0.1	15.9	90	46.3				
R1791		0.2	19.8	89	44.1				

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



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**CERTIFICATE OF ANALYSIS SD21065008**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 33%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**QC CERTIFICATE SD21065008**

Project: Shining Tree-STR21-008  
 P.O. No.: SDR21-008  
 This report is for 48 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree-STR21-008  
**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		66.3	4.71	594	190	1.87	5.60	2.00	22.0	47.3	748	56	7.51	8380	4.88	12.30
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.46	7.57	34.4	1120	3.20	0.63	2.74	2.16	76.5	20.8	93	12.80	632	4.00	18.25
MRGeo08		4.52	7.31	33.3	1100	3.31	0.62	2.68	2.34	67.7	19.4	91	12.15	642	3.95	18.75
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.56	7.41	34.4	2780	2.87	5.61	0.60	0.36	92.9	15.6	18	6.69	1530	4.06	24.3
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.09	7.93	6.2	560	2.78	0.77	0.53	0.07	96.1	17.0	86	8.98	109.5	4.08	22.5
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5	Rb ppm 0.1
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.12	1.9	0.976	1.67	24.6	24.2	0.97	716	1030	1.12	15.4	7420	790	7020	112.0
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MGeo08		0.15	3.0	0.164	3.15	36.5	35.0	1.34	559	14.20	2.01	21.3	684	1080	1050	195.0
MGeo08		0.15	3.0	0.176	3.18	31.6	30.9	1.33	556	14.30	2.00	21.0	724	1070	1105	179.5
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.21	6.5	0.652	2.92	46.3	20.1	0.27	369	3.07	2.41	18.0	10.5	280	31.5	131.0
Target Range – Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.18	4.9	0.096	2.94	49.1	27.1	1.40	592	0.50	0.69	19.0	43.9	740	25.7	179.0
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																





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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
EMOG-17		0.323	3.23	781	8.0	6	3.0	202	0.99	1.29	10.70	0.320	2.14	3.4	70	4.5
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.007	0.32	4.46	11.6	1	3.9	315	1.44	<0.05	20.9	0.515	1.05	5.3	113	4.5
MRGeo08		0.007	0.30	4.67	11.8	1	4.4	310	1.46	<0.05	17.85	0.489	1.03	4.9	107	4.8
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		<0.002	0.07	2.06	4.6	2	4.3	159.5	1.26	0.09	14.25	0.120	0.73	4.9	9	2.8
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.68	14.2	<1	5.7	84.0	1.37	<0.05	20.0	0.484	1.00	4.1	95	3.4
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Cu-OG62	Ni-OG62	Pb-OG62	Zn-OG62
		Y ppm	Zn ppm	Zr ppm	Ag ppm	Co %	Cu %	Ni %	Pb %	Zn %
		0.1	2	0.5	1	0.0005	0.001	0.001	0.001	0.001
<b>STANDARDS</b>										
AMIS0160					<1	3.07	2.03	0.004	0.002	0.012
Target Range – Lower Bound					<1	2.99	1.970	<0.001	<0.001	0.010
Upper Bound					2	3.21	2.11	0.005	0.004	0.014
CCU-1e					207	0.0305	22.7	0.002	0.694	2.92
Target Range – Lower Bound					197	0.0285	22.1		0.677	2.91
Upper Bound					213	0.0317	23.7		0.729	3.13
EMOG-17		16.4	7120	65.2						
Target Range – Lower Bound		14.3	6800	55.6						
Upper Bound		17.7	8320	76.4						
GBM903-13					24	0.0046	2.87	2.44	2.13	0.939
Target Range – Lower Bound					22	0.0041	2.79	2.35	2.07	0.901
Upper Bound					26	0.0059	3.00	2.52	2.23	0.968
MRGeo08		26.3	825	108.0						
MRGeo08		24.4	814	104.5						
Target Range – Lower Bound		23.8	722	92.2						
Upper Bound		29.3	886	126.0						
OREAS 621					69	0.0026	0.364	0.003	1.345	5.28
Target Range – Lower Bound					66	0.0020	0.349	<0.001	1.310	5.04
Upper Bound					72	0.0039	0.377	0.005	1.410	5.40
OREAS 905		15.1	141	251						
Target Range – Lower Bound		14.0	122	214						
Upper Bound		17.4	154	290						
OREAS 920		35.7	116	160.0						
Target Range – Lower Bound		29.8	102	128.0						
Upper Bound		36.6	130	174.0						
OREAS-76a					2	0.1165	0.286	7.23	0.001	0.008
Target Range – Lower Bound						0.1145	0.274	7.03		
Upper Bound						0.1240	0.296	7.55		



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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
<b>BLANKS</b>																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.3	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1564		0.19	7.32	10.7	140	1.00	0.19	6.49	0.55	20.6	43.1	61	1.71	404	9.15	16.85
DUP		0.28	6.85	11.4	120	0.98	0.20	6.08	0.58	20.7	47.1	57	1.68	378	8.61	17.05
Target Range – Lower Bound		0.21	6.72	10.3	110	0.89	0.18	5.96	0.52	19.60	42.7	55	1.56	377	8.43	16.05
Upper Bound		0.26	7.45	11.8	150	1.09	0.21	6.61	0.61	21.7	47.5	63	1.83	405	9.33	17.85
R1758		0.29	4.36	48.5	80	0.44	0.16	5.90	1.45	32.0	79.2	340	0.39	548	8.17	14.80
DUP		0.31	4.44	51.1	80	0.47	0.16	5.95	1.57	33.7	81.6	338	0.39	550	8.29	15.20
Target Range – Lower Bound		0.28	4.17	47.1	60	0.38	0.14	5.62	1.41	31.2	76.3	321	0.32	530	7.81	14.20
Upper Bound		0.33	4.63	52.5	100	0.53	0.18	6.23	1.61	34.5	84.5	357	0.46	568	8.65	15.80
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		0.01	7.07	1.1	400	0.75	0.07	2.39	0.03	40.2	8.6	8	1.19	2.4	2.76	18.05
DUP		0.01	7.37	0.8	410	0.64	0.07	2.42	0.02	40.7	9.2	8	1.14	2.7	2.80	17.50
Target Range – Lower Bound		<0.01	6.85	0.7	360	0.61	0.06	2.27	<0.02	38.4	8.4	7	1.06	2.3	2.63	16.85
Upper Bound		0.02	7.59	1.2	450	0.78	0.08	2.54	0.04	42.5	9.4	9	1.27	2.8	2.93	18.70



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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>BLANKS</b>																
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.07	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.07	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1564		0.05	1.4	0.088	0.96	9.2	48.9	3.35	1560	0.30	2.56	3.1	100.5	380	146.5	47.0
DUP		0.08	1.4	0.086	0.90	9.2	52.0	3.14	1480	0.27	2.39	3.2	103.0	350	136.0	47.5
Target Range – Lower Bound		<0.05	1.2	0.078	0.87	8.2	47.7	3.07	1440	0.22	2.34	2.9	96.5	340	133.5	44.8
Upper Bound		0.10	1.6	0.096	0.99	10.2	53.2	3.42	1600	0.35	2.61	3.4	107.0	390	149.0	49.7
R1758		0.08	3.1	0.443	0.55	14.6	20.1	1.89	2190	4.18	0.07	3.9	230	350	20.8	16.4
DUP		0.07	3.3	0.466	0.56	15.4	19.7	1.92	2210	4.50	0.07	4.0	236	350	21.6	17.2
Target Range – Lower Bound		<0.05	2.9	0.427	0.52	13.8	18.7	1.80	2090	4.07	0.06	3.7	221	320	19.6	15.9
Upper Bound		0.10	3.5	0.482	0.59	16.3	21.1	2.01	2320	4.61	0.08	4.2	245	380	22.8	17.7
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		0.12	2.5	0.029	1.34	19.3	10.7	0.62	387	1.11	3.29	4.1	8.2	450	3.4	35.5
DUP		0.11	2.4	0.028	1.37	19.9	8.8	0.65	392	1.08	3.36	4.1	8.9	470	3.5	38.0
Target Range – Lower Bound		0.06	2.2	0.022	1.28	18.1	9.1	0.59	365	0.99	3.15	3.8	7.9	430	2.8	34.8
Upper Bound		0.17	2.7	0.035	1.43	21.1	10.4	0.68	414	1.20	3.50	4.4	9.2	490	4.1	38.7



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 Account: BMRPLLBW

Project: Shining Tree-STR21-008

**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
1564		<0.002	0.15	0.24	28.2	<1	0.9	127.5	0.20	<0.05	1.86	0.466	0.19	0.6	215	0.2
DUP		<0.002	0.15	0.24	28.7	<1	0.9	123.5	0.20	<0.05	2.04	0.437	0.19	0.6	204	0.2
Target Range – Lower Bound		<0.002	0.13	0.17	26.9	<1	0.7	119.0	0.14	<0.05	1.84	0.424	0.16	0.5	198	<0.1
Upper Bound		0.004	0.17	0.31	30.0	2	1.1	132.0	0.26	0.10	2.06	0.479	0.22	0.7	221	0.3
R1758		0.010	1.59	0.97	15.0	4	2.9	37.1	0.30	0.38	2.15	0.203	0.14	0.7	78	0.5
DUP		0.012	1.61	0.94	15.3	4	3.1	39.0	0.30	0.36	2.18	0.206	0.15	0.7	79	0.5
Target Range – Lower Bound		0.008	1.51	0.83	14.3	3	2.7	35.9	0.24	0.30	2.05	0.189	0.11	0.6	74	0.4
Upper Bound		0.014	1.69	1.08	16.0	5	3.4	40.2	0.37	0.44	2.28	0.220	0.18	0.8	83	0.6
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		<0.002	0.02	0.17	7.3	<1	1.1	135.5	0.39	<0.05	3.70	0.219	0.17	0.9	53	0.9
DUP		<0.002	0.02	0.15	7.0	1	1.0	134.0	0.40	<0.05	3.79	0.235	0.18	0.9	54	0.8
Target Range – Lower Bound		<0.002	<0.01	0.10	6.7	<1	0.8	128.0	0.33	<0.05	3.55	0.211	0.14	0.8	50	0.7
Upper Bound		0.004	0.03	0.22	7.6	2	1.3	141.5	0.46	0.10	3.94	0.243	0.21	1.0	57	1.0



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**QC CERTIFICATE OF ANALYSIS SD21065008**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Cu-OG62	Ni-OG62	Pb-OG62	Zn-OG62
		Y ppm	Zn ppm	Zr ppm	Ag ppm	Co %	Cu %	Ni %	Pb %	Zn %
		0.1	2	0.5	1	0.0005	0.001	0.001	0.001	0.001
<b>BLANKS</b>										
BLANK		<0.1	<2	0.9						
BLANK		<0.1	<2	<0.5						
BLANK		<0.1	<2	<0.5						
Target Range – Lower Bound		<0.1	<2	<0.5						
Upper Bound		0.2	4	1.0						
BLANK					<1	<0.0005	<0.001	<0.001	<0.001	<0.001
Target Range – Lower Bound					<1	<0.0005	<0.001	<0.001	<0.001	<0.001
Upper Bound					2	0.0010	0.002	0.002	0.002	0.002
<b>DUPLICATES</b>										
1564		20.6	315	53.1						
DUP		20.5	295	53.4						
Target Range – Lower Bound		19.4	288	48.8						
Upper Bound		21.7	322	57.7						
R1758		14.1	716	112.5						
DUP		14.8	727	118.0						
Target Range – Lower Bound		13.6	683	106.0						
Upper Bound		15.3	760	124.5						
R1781							1.620	4.64		
DUP					4	0.0976	1.620	4.69	0.001	0.010
Target Range – Lower Bound					3	0.0947	1.580	4.55	<0.001	0.009
Upper Bound					5	0.1005	1.660	4.78	0.002	0.011
R1658		10.5	39	91.6						
DUP		10.3	39	89.5						
Target Range – Lower Bound		9.8	35	83.3						
Upper Bound		11.0	43	97.8						



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**QC CERTIFICATE OF ANALYSIS SD21065008**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0"> <tr> <td>Cu-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



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 26-APR-2021  
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**CERTIFICATE SD21065013**

Project: Shining Tree-STR21-009  
 P.O. No.: STR21-009  
 This report is for 88 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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Project: Shining Tree–STR21–009

**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	WEI–21	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1656		1.42	0.02	6.12	0.5	320	0.59	0.05	5.45	0.06	35.1	7.7	10	0.95	4.2	2.67
R1657		1.49	0.01	7.19	1.1	470	0.71	0.06	2.33	0.02	41.1	8.3	8	1.32	5.2	2.70
R1658		1.50	0.01	7.07	1.1	400	0.75	0.07	2.39	0.03	40.2	8.6	8	1.19	2.4	2.76
R1659		0.62	0.01	6.58	0.8	400	0.71	0.08	3.35	<0.02	33.9	8.1	7	1.10	32.8	2.67
R1660		0.72	0.01	6.92	0.9	410	0.76	0.07	3.02	0.02	36.3	10.7	8	1.15	19.1	2.75
R1661		0.02	1.10	4.29	10.2	60	0.67	0.14	3.38	3.42	24.2	>10000	118	0.51	8540	4.37
R1662		1.81	0.04	7.16	1.6	350	0.71	0.03	2.25	0.04	36.2	9.9	8	0.93	5.5	2.74
R1663		0.78	0.02	7.67	1.8	130	0.46	0.10	3.90	<0.02	62.5	42.9	52	0.74	68.1	7.19
R1664		0.97	0.02	7.28	2.3	80	0.38	0.06	4.39	<0.02	162.5	40.8	44	0.46	166.0	6.72
R1665		0.93	0.02	7.29	7.0	70	0.54	0.10	3.80	<0.02	117.5	48.9	19	0.38	197.0	6.82
R1666		1.78	0.01	7.13	3.1	60	0.33	0.04	4.82	<0.02	45.8	38.9	33	0.29	36.2	7.13
R1667		1.81	0.01	6.94	3.1	50	0.44	0.05	6.40	<0.02	123.5	34.2	49	1.00	12.2	7.44
R1668		1.98	0.01	7.55	1.1	70	0.45	0.02	5.35	<0.02	167.5	29.9	62	0.42	68.1	7.80
R1669		0.93	0.01	7.06	2.6	60	0.45	0.09	4.91	<0.02	25.0	37.5	10	0.46	256	9.22
R1670		0.78	<0.01	7.70	2.0	60	0.51	0.04	3.73	<0.02	15.85	39.9	5	0.42	164.5	9.58
R1671		0.91	0.01	6.90	3.5	40	0.61	0.06	3.78	<0.02	12.35	40.0	2	0.31	160.0	9.49
R1672		0.87	0.01	7.47	2.9	50	0.59	0.04	4.14	<0.02	9.67	37.6	3	0.33	152.5	8.59
R1673		2.10	0.01	7.33	2.1	70	0.35	0.04	5.58	<0.02	7.03	36.8	54	0.28	90.5	7.68
R1674		2.06	0.01	7.45	2.3	120	0.29	0.04	4.76	<0.02	9.02	39.2	53	0.30	79.2	8.07
R1675		0.47	<0.01	0.12	0.3	20	<0.05	0.01	34.9	<0.02	1.06	1.1	2	0.05	1.9	0.16
R1676		2.13	0.01	7.77	2.2	100	0.31	0.04	4.99	0.02	8.41	39.6	67	0.29	55.3	8.50
R1677		1.13	0.01	6.93	4.3	30	0.32	0.05	5.35	<0.02	10.00	38.0	24	0.22	109.0	9.24
R1678		1.08	0.01	6.52	5.0	30	0.37	0.04	4.83	0.02	15.05	33.9	4	0.19	100.5	8.97
R1679		0.49	0.05	6.61	2.5	30	0.31	0.03	5.74	0.02	11.50	36.2	3	0.20	149.0	9.81
R1680		0.52	0.01	6.80	2.2	20	0.28	0.03	5.91	0.02	11.50	40.6	3	0.21	119.0	10.05
R1681		0.02	1.65	2.63	14.2	60	0.36	0.21	2.04	5.13	17.15	>10000	77	0.37	>10000	2.75
R1682		1.06	0.01	7.25	1.1	50	0.26	0.03	6.00	0.02	5.59	41.2	81	0.25	2.9	7.45
R1683		2.06	0.01	6.60	1.9	130	0.25	0.04	8.23	0.02	6.75	33.7	47	0.64	24.0	7.18
R1684		2.08	0.01	6.62	1.0	200	0.29	0.03	7.71	0.04	3.74	28.7	81	0.61	34.9	5.38
R1685		0.93	0.01	6.17	1.3	350	0.41	0.08	7.32	0.06	5.40	20.5	62	1.49	29.0	5.58
R1686		1.28	0.01	7.03	2.0	180	0.33	0.06	4.50	0.03	9.08	42.8	4	0.44	11.9	9.02
R1687		1.03	0.02	5.96	2.3	140	0.24	0.27	7.73	0.04	9.01	34.4	6	0.39	46.4	6.87
R1688		2.04	0.02	6.71	2.8	220	0.23	0.05	6.60	0.04	5.27	38.9	96	0.80	77.8	6.59
R1689		2.08	0.04	6.89	27.8	410	0.36	0.11	7.03	0.02	5.81	39.4	48	1.22	44.8	7.46
R1690		2.11	0.04	6.04	36.5	410	0.62	0.10	8.21	0.02	19.20	27.3	11	1.31	166.5	4.78
R1691		2.13	0.03	6.62	14.5	480	0.69	0.08	4.52	0.02	32.9	12.5	9	1.66	20.5	2.93
R1692		1.87	0.02	7.46	2.3	360	0.68	0.05	3.22	0.05	40.3	10.0	12	1.25	14.5	2.95
R1693		1.94	0.01	7.22	1.7	370	0.66	0.04	3.32	0.02	36.5	11.2	12	1.33	8.3	3.24
R1694		0.89	0.01	7.46	7.5	440	0.86	0.03	3.32	0.02	46.0	10.5	10	0.99	42.0	2.78
R1695		1.69	0.01	7.27	0.7	520	0.77	0.02	3.55	<0.02	39.4	8.0	7	1.41	8.6	2.73



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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1656		15.80	0.11	2.2	0.033	1.41	17.5	11.0	0.61	723	1.26	2.61	3.7	7.5	410	2.3
R1657		17.80	0.13	2.6	0.027	1.44	19.9	10.3	0.64	377	0.59	3.18	4.0	7.9	460	4.9
R1658		18.05	0.12	2.5	0.029	1.34	19.3	10.7	0.62	387	1.11	3.29	4.1	8.2	450	3.4
R1659		17.15	0.14	2.3	0.030	1.52	16.3	9.4	0.58	492	0.75	2.95	4.2	7.6	430	2.5
R1660		17.65	0.14	2.6	0.030	1.57	17.8	9.6	0.60	459	0.74	2.98	4.3	10.8	440	2.6
R1661		11.60	0.53	1.6	0.042	0.41	12.4	4.9	2.09	577	5.46	1.35	13.2	>10000	920	23.4
R1662		16.95	0.18	2.6	0.040	1.16	16.4	10.1	0.74	386	1.25	3.69	4.3	10.4	450	4.7
R1663		17.10	0.12	1.1	0.058	0.44	27.2	35.9	3.39	1030	0.13	2.54	1.5	55.1	300	0.8
R1664		16.10	0.18	1.1	0.065	0.22	87.6	31.1	3.28	1020	0.24	2.53	1.4	59.2	290	0.8
R1665		16.75	0.17	1.2	0.068	0.16	69.1	30.1	3.07	971	0.33	2.67	1.7	67.9	340	1.0
R1666		15.90	0.10	1.1	0.043	0.12	29.1	31.2	3.24	1120	0.19	2.56	1.4	56.5	380	0.7
R1667		15.85	0.18	1.1	0.059	0.27	68.1	35.0	3.32	1240	0.14	1.92	1.3	47.4	350	0.7
R1668		17.05	0.21	1.0	0.073	0.18	104.0	32.4	3.24	1210	0.15	2.32	1.2	52.9	240	0.8
R1669		16.20	0.08	1.4	0.054	0.21	19.6	36.4	3.42	1400	0.30	1.57	1.6	39.9	330	0.7
R1670		18.45	0.10	1.3	0.069	0.16	10.1	36.2	3.22	1320	0.23	1.77	1.7	32.9	330	0.7
R1671		19.80	0.09	2.0	0.081	0.09	5.9	33.9	2.84	1260	0.57	1.31	2.7	21.8	510	0.9
R1672		19.30	0.08	1.7	0.084	0.10	4.0	31.1	2.72	1190	0.49	1.74	2.2	28.1	460	0.9
R1673		15.90	0.07	1.2	0.076	0.09	2.7	26.5	3.31	1460	0.63	1.96	1.4	49.3	300	0.8
R1674		16.30	0.09	1.1	0.077	0.13	3.6	29.5	3.74	1720	0.20	1.66	1.5	56.2	350	0.9
R1675		0.33	0.10	<0.1	0.005	0.02	1.2	1.3	2.09	137	0.06	0.03	0.1	2.2	80	0.6
R1676		15.95	0.06	1.0	0.080	0.11	3.4	29.6	4.21	1940	0.25	1.59	1.5	57.0	300	0.8
R1677		17.65	0.08	1.5	0.079	0.03	4.0	22.0	3.11	1690	0.42	0.91	2.1	29.8	450	0.9
R1678		19.65	0.09	2.5	0.105	0.02	5.8	17.8	2.41	1510	0.53	1.09	3.3	12.8	670	1.0
R1679		17.90	0.08	1.7	0.091	0.03	4.4	19.7	2.86	1740	0.40	0.70	2.3	24.5	490	0.8
R1680		18.95	0.08	1.5	0.096	0.03	4.2	20.6	2.97	1790	0.32	0.68	2.2	27.7	450	0.9
R1681		7.06	0.66	0.9	0.029	0.25	8.6	2.9	1.22	355	2.94	0.83	8.0	>10000	560	32.2
R1682		14.05	0.09	1.0	0.053	0.07	2.2	27.9	3.88	1570	0.35	1.94	1.2	62.8	240	0.8
R1683		14.55	0.05	1.1	0.055	0.33	2.5	21.6	2.55	1530	0.25	2.17	1.4	42.6	300	<0.5
R1684		12.65	0.07	0.7	0.047	0.65	1.3	16.8	3.16	1220	0.27	2.05	0.6	54.6	60	1.0
R1685		19.20	0.09	0.7	0.055	1.29	2.1	14.6	2.15	1060	0.37	1.23	0.9	34.5	70	1.9
R1686		19.95	0.08	1.4	0.083	0.45	3.4	18.4	2.45	1160	1.58	2.09	2.3	32.4	470	2.1
R1687		16.45	0.07	1.4	0.069	0.33	3.4	14.0	1.90	1120	1.20	2.12	2.4	19.6	460	1.5
R1688		14.30	0.06	0.7	0.053	0.70	2.0	21.1	4.11	1250	0.35	1.34	1.0	72.8	220	0.9
R1689		16.00	0.08	1.1	0.059	1.71	2.2	26.3	3.52	1220	0.80	0.10	1.3	62.7	260	1.0
R1690		15.05	0.09	1.8	0.050	2.20	8.9	14.3	1.70	1200	1.67	0.04	2.2	30.9	360	1.0
R1691		18.45	0.12	2.7	0.034	2.97	15.7	8.8	0.83	661	1.08	0.67	4.4	12.5	530	1.4
R1692		19.35	0.13	2.9	0.030	1.57	20.0	8.1	0.70	519	0.83	3.17	4.9	11.0	560	2.0
R1693		19.20	0.10	3.0	0.027	1.67	17.4	7.6	0.78	574	0.70	3.02	4.9	12.2	560	2.1
R1694		18.85	0.14	2.9	0.033	1.41	22.9	8.9	0.55	495	1.20	3.42	4.6	10.0	500	3.3
R1695		19.20	0.13	2.8	0.028	2.38	18.7	10.8	0.58	525	0.69	1.82	4.5	8.5	460	2.1



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Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1656		34.7	<0.002	0.01	0.14	6.3	<1	0.9	117.5	0.36	<0.05	3.00	0.202	0.16	0.7	48
R1657		38.0	<0.002	0.01	0.17	6.9	<1	0.9	141.5	0.40	<0.05	3.76	0.219	0.16	0.9	53
R1658		35.5	<0.002	0.02	0.17	7.3	<1	1.1	135.5	0.39	<0.05	3.70	0.219	0.17	0.9	53
R1659		36.5	<0.002	0.02	0.17	6.4	<1	0.9	124.0	0.40	<0.05	3.11	0.226	0.19	0.7	52
R1660		40.5	<0.002	0.02	0.18	6.8	<1	0.9	123.5	0.40	<0.05	3.55	0.232	0.19	0.9	53
R1661		11.8	<0.002	>10.0	0.11	11.6	2	1.0	234	0.59	<0.05	1.39	0.605	0.17	0.4	89
R1662		26.3	<0.002	0.01	0.52	7.4	<1	0.9	129.0	0.40	<0.05	3.38	0.223	0.13	0.9	55
R1663		13.3	<0.002	0.08	0.19	37.3	<1	0.3	75.7	0.11	<0.05	0.50	0.360	0.05	0.2	228
R1664		5.9	0.003	0.08	0.25	41.3	1	0.3	99.2	0.08	<0.05	0.27	0.408	0.02	0.1	249
R1665		3.9	0.003	0.18	0.34	46.0	1	0.3	110.0	0.11	<0.05	0.32	0.496	0.02	0.1	285
R1666		2.8	0.003	0.05	0.20	40.4	<1	0.3	87.2	0.10	<0.05	0.29	0.406	<0.02	0.1	248
R1667		4.4	0.002	0.08	0.24	37.9	1	0.3	74.0	0.09	<0.05	0.26	0.398	<0.02	0.1	238
R1668		4.8	0.002	0.01	0.31	43.0	<1	0.3	125.5	0.08	<0.05	0.24	0.387	0.03	0.2	241
R1669		4.1	0.003	0.11	0.30	42.0	<1	0.3	88.8	0.12	<0.05	0.44	0.512	0.02	0.2	318
R1670		3.9	0.002	0.03	0.39	43.3	1	0.4	114.0	0.11	<0.05	0.35	0.547	0.02	0.1	324
R1671		2.0	0.005	0.11	0.46	45.9	1	0.5	108.5	0.17	<0.05	0.51	0.766	<0.02	0.1	385
R1672		2.4	0.004	0.02	0.56	39.8	<1	0.3	135.5	0.14	<0.05	0.39	0.636	<0.02	0.1	341
R1673		2.1	0.005	0.02	0.40	41.7	<1	0.2	136.0	0.09	<0.05	0.32	0.443	<0.02	0.1	271
R1674		3.7	0.002	0.06	0.51	42.5	1	0.4	167.5	0.09	<0.05	0.31	0.442	0.02	0.1	263
R1675		0.6	<0.002	<0.01	0.06	0.5	1	<0.2	88.7	<0.05	<0.05	0.06	0.008	<0.02	0.1	3
R1676		2.6	<0.002	0.01	0.58	42.1	1	0.4	205	0.09	<0.05	0.27	0.439	<0.02	0.1	274
R1677		0.7	0.003	0.22	0.56	40.7	<1	0.4	179.5	0.13	<0.05	0.41	0.599	<0.02	0.1	304
R1678		0.5	0.002	0.27	0.56	36.2	<1	0.5	166.0	0.20	<0.05	0.63	0.747	<0.02	0.2	216
R1679		0.7	<0.002	0.14	0.58	39.7	1	0.3	187.0	0.16	<0.05	0.44	0.706	<0.02	0.1	378
R1680		0.6	0.004	0.10	0.57	42.6	<1	0.4	196.5	0.15	<0.05	0.41	0.696	<0.02	0.1	359
R1681		7.5	<0.002	>10.0	0.14	6.8	2	0.7	141.0	0.32	0.06	0.82	0.372	0.20	0.2	56
R1682		1.4	<0.002	<0.01	0.50	42.2	<1	0.3	212	0.09	<0.05	0.23	0.366	<0.02	<0.1	235
R1683		9.9	0.002	0.04	0.20	39.1	<1	0.3	73.4	0.09	<0.05	0.26	0.455	0.03	0.1	279
R1684		17.5	<0.002	0.07	0.24	35.0	<1	0.5	122.5	0.05	<0.05	0.21	0.236	0.07	<0.1	186
R1685		38.4	<0.002	0.18	0.43	33.5	<1	0.7	104.5	0.07	<0.05	0.15	0.315	0.13	<0.1	274
R1686		12.6	0.009	0.04	0.25	47.2	1	0.6	104.0	0.14	<0.05	0.38	0.679	0.05	0.1	373
R1687		9.5	<0.002	0.20	0.24	33.4	1	0.6	129.5	0.16	<0.05	0.44	0.515	0.04	0.1	198
R1688		20.5	<0.002	0.05	0.23	39.6	1	0.2	88.4	0.06	<0.05	0.20	0.292	0.07	0.1	214
R1689		49.5	<0.002	0.01	0.16	43.3	1	0.6	68.0	0.08	0.06	0.22	0.383	0.14	0.1	254
R1690		57.0	<0.002	0.05	0.22	23.1	<1	0.5	44.9	0.19	<0.05	1.47	0.286	0.18	0.4	158
R1691		58.0	<0.002	0.01	0.24	7.6	1	0.9	65.5	0.39	<0.05	2.77	0.263	0.25	0.8	65
R1692		38.2	<0.002	0.03	0.16	8.6	1	0.9	109.5	0.42	<0.05	3.39	0.282	0.15	0.8	69
R1693		36.9	<0.002	0.03	0.14	8.4	<1	0.9	115.5	0.44	<0.05	3.06	0.291	0.15	0.7	70
R1694		37.1	<0.002	0.02	0.14	7.9	<1	0.9	167.0	0.42	<0.05	3.84	0.256	0.21	0.9	55
R1695		59.6	<0.002	0.01	0.15	7.1	<1	0.9	87.2	0.43	<0.05	3.70	0.228	0.30	0.9	55



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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W	Y	Zn	Zr	Co	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%
		0.1	0.1	2	0.5	0.0005	0.001	0.001	0.01	0.01
R1656		0.6	12.9	47	79.1				74.0	97.1
R1657		0.6	10.1	38	90.6					92.6
R1658		0.9	10.5	39	91.6					
R1659		1.1	9.5	35	83.6					
R1660		1.1	9.7	35	88.8					
R1661		5.1	12.3	168	82.1	9.23		10.10		
R1662		0.7	11.6	36	93.7					
R1663		0.3	17.0	108	39.1					
R1664		0.2	16.9	104	38.8					
R1665		0.4	21.9	105	48.3					
R1666		0.3	19.7	110	42.6					
R1667		0.2	19.3	112	40.5					
R1668		0.2	18.0	112	38.3					
R1669		0.2	18.8	131	47.2					
R1670		0.2	19.8	130	47.4					
R1671		0.3	25.0	125	76.3					
R1672		0.3	22.0	116	60.9					
R1673		0.1	18.6	111	42.0					
R1674		0.1	19.7	110	40.5					
R1675		<0.1	2.3	4	1.9					
R1676		0.1	18.9	101	32.7				84.4	
R1677		0.1	24.0	82	53.1					
R1678		0.1	30.5	70	83.4					
R1679		0.2	27.4	77	60.5					
R1680		0.1	27.4	78	55.9					
R1681		6.8	7.5	200	50.8	14.50	1.280	15.75		
R1682		0.2	17.1	78	37.5					
R1683		0.3	16.5	49	40.3					
R1684		2.9	7.6	40	29.1					
R1685		5.9	7.6	39	26.1					
R1686		2.8	15.2	52	58.2					
R1687		2.3	15.1	40	57.9					
R1688		0.7	9.6	51	31.6					
R1689		8.1	10.8	54	39.3					
R1690		5.3	13.8	48	62.9					
R1691		3.1	10.9	39	96.8					
R1692		1.0	11.9	42	106.0					
R1693		0.8	10.1	44	104.0					
R1694		11.1	10.8	43	97.2					95.2
R1695		1.0	9.9	43	93.3				83.0	95.8



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Sample Description	Method Analyte Units LOD	WEI–21	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1696		1.68	0.01	7.26	0.8	550	0.77	0.03	3.38	0.03	41.1	8.8	6	1.45	11.8	2.67
R1697		1.59	0.01	7.07	0.9	480	0.79	0.04	2.98	0.03	41.5	8.9	7	1.21	18.2	2.72
R1698		1.71	0.02	7.46	0.2	400	0.75	0.02	2.68	0.02	44.9	8.9	8	1.13	8.5	2.83
R1699		0.80	0.02	6.99	1.1	490	1.13	0.04	3.41	<0.02	51.5	11.5	16	1.64	10.7	3.07
R1700		1.04	0.02	7.03	1.3	510	1.11	0.04	3.14	<0.02	50.4	11.1	16	1.54	10.6	3.00
R1701		0.02	1.12	4.46	11.1	80	0.62	0.15	3.48	3.38	24.5	>10000	123	0.50	8820	4.53
R1702		1.88	0.03	6.88	1.1	240	1.16	0.07	4.47	<0.02	89.3	17.6	46	1.39	21.7	4.13
R1703		1.70	0.02	7.18	<0.2	550	1.07	0.03	3.20	0.02	43.5	10.3	8	1.47	14.7	2.63
R1704		1.98	0.03	7.18	0.7	460	0.81	0.05	3.15	0.04	43.2	10.3	8	1.23	10.1	2.20
R1705		1.83	0.01	7.17	0.7	510	0.84	0.04	3.52	0.02	41.2	9.0	8	1.17	17.1	2.41
R1706		1.53	0.02	6.93	2.4	440	0.83	0.06	3.67	<0.02	38.2	8.2	8	1.22	13.4	2.32
R1707		1.43	0.01	7.22	1.5	500	0.82	0.04	3.46	0.02	43.3	8.5	7	1.35	14.7	2.85
R1708		1.48	0.02	7.14	2.6	410	0.69	0.02	3.27	0.02	43.0	8.6	7	0.92	8.1	2.49
R1709		1.28	0.02	5.99	7.9	330	0.70	0.01	5.09	0.02	32.7	9.4	7	0.69	19.4	2.09
R1710		1.73	0.02	6.95	10.2	420	0.80	0.02	3.84	0.04	40.5	22.4	8	0.97	17.8	2.35
R1711		1.73	0.02	6.97	11.6	420	0.77	0.02	3.31	0.02	39.9	10.4	8	0.98	19.5	2.57
R1712		1.92	0.15	6.55	14.5	410	0.75	0.05	3.25	0.07	35.6	10.7	8	0.98	33.7	2.27
R1713		1.80	0.01	6.76	10.1	400	0.75	0.02	3.26	0.02	38.3	8.7	8	0.95	19.8	2.31
R1714		1.83	0.03	7.10	10.2	410	0.71	0.03	3.44	0.03	40.8	9.0	7	0.94	19.0	2.69
R1715		1.84	0.02	7.14	12.2	460	0.85	0.03	4.11	0.03	42.5	10.2	7	1.17	18.7	2.42
R1716		1.53	0.03	6.46	10.9	450	0.74	0.03	3.91	0.02	34.1	9.1	8	1.02	18.7	1.94
R1717		1.55	0.02	7.20	9.5	480	0.77	0.03	3.38	0.02	41.7	8.8	7	1.09	19.2	2.48
R1718		1.39	0.03	6.67	10.0	410	0.75	0.04	3.98	0.03	36.2	10.1	7	0.94	15.7	2.67
R1719		0.82	0.05	7.17	9.6	390	0.87	0.04	3.04	0.03	43.0	10.5	7	1.07	26.7	2.91
R1720		1.00	0.05	7.00	11.7	390	0.91	0.03	4.45	0.04	45.7	11.4	8	1.16	26.5	3.01
R1721		0.12	4.02	5.51	13.4	120	0.52	0.98	3.43	2.08	17.70	974	257	0.74	>10000	18.00
R1722		1.01	0.04	7.18	14.9	430	0.85	0.05	2.65	0.06	37.3	9.1	8	1.02	27.5	2.51
R1723		1.45	0.03	7.06	3.5	420	0.87	0.01	3.11	<0.02	35.6	9.1	8	1.05	8.0	2.74
R1724		1.98	0.05	7.35	7.4	420	0.92	0.01	2.64	0.04	42.3	9.3	9	1.37	19.3	2.62
R1725		0.51	<0.01	0.09	<0.2	40	0.05	0.01	30.8	<0.02	1.06	0.7	2	<0.05	1.6	0.12
R1726		1.91	0.05	7.12	4.5	420	0.81	0.02	2.90	0.05	40.4	7.5	7	1.39	19.1	2.61
R1727		1.95	0.06	6.95	5.1	430	0.82	0.04	4.34	<0.02	38.2	9.1	7	1.80	24.6	2.66
R1728		1.94	0.03	7.09	3.6	450	0.77	0.02	3.61	0.02	38.0	8.1	8	1.64	19.7	2.76
R1729		1.93	0.03	6.34	4.1	460	0.73	0.02	3.25	0.02	30.7	7.8	6	1.36	21.6	2.41
R1730		2.02	0.03	5.98	4.8	420	0.73	0.01	5.40	0.06	32.7	6.8	6	1.45	20.9	2.19
R1731		1.85	0.12	7.27	11.5	200	0.63	0.12	1.95	0.08	42.6	8.3	8	0.95	27.6	2.81
R1732		1.79	0.07	7.62	11.2	190	0.64	0.09	1.08	0.03	51.2	9.6	11	0.79	19.5	2.88
R1733		1.89	0.05	7.09	5.1	90	0.52	0.06	1.62	<0.02	40.2	8.1	11	0.40	13.4	2.55
R1734		1.96	0.09	7.26	2.7	140	0.52	0.05	2.34	<0.02	31.2	7.8	10	0.34	18.3	2.41
R1735		1.41	0.28	9.37	14.0	1070	0.96	0.07	1.45	0.03	25.2	33.3	53	1.62	50.7	5.21



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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
R1696		19.40	0.14	2.8	0.032	2.49	19.6	9.4	0.55	500	1.11	1.70	4.7	8.4	460	2.5
R1697		19.25	0.13	2.7	0.029	2.09	20.9	9.9	0.58	447	0.79	2.07	4.7	8.2	450	4.5
R1698		19.25	0.14	2.9	0.026	1.73	22.3	11.5	0.66	407	1.74	2.71	4.8	8.2	480	2.4
R1699		20.1	0.16	3.2	0.030	2.04	25.3	15.7	0.85	463	1.04	1.82	4.6	19.7	780	2.7
R1700		19.20	0.14	2.9	0.031	2.10	25.7	14.4	0.81	431	0.92	1.75	4.5	17.4	690	2.8
R1701		12.70	0.53	1.8	0.040	0.42	12.5	4.4	2.17	596	6.07	1.41	14.7	>10000	940	22.9
R1702		17.50	0.19	4.2	0.039	1.16	41.9	27.7	1.48	585	0.26	2.48	4.7	60.5	1800	6.2
R1703		18.25	0.20	2.6	0.044	2.31	21.1	12.4	0.63	440	0.81	1.98	4.5	9.0	450	1.8
R1704		19.60	0.17	2.9	0.031	2.10	21.0	8.5	0.48	436	4.43	2.39	5.0	11.0	470	4.4
R1705		19.50	0.13	2.6	0.029	2.12	19.8	8.7	0.48	468	0.85	2.37	4.8	8.4	460	2.2
R1706		20.0	0.14	2.8	0.031	2.41	17.6	9.2	0.36	535	0.90	1.81	5.0	7.9	460	2.8
R1707		19.60	0.14	2.7	0.028	2.40	21.5	11.5	0.50	517	0.77	1.51	4.7	8.0	460	2.3
R1708		18.75	0.16	2.6	0.024	1.67	21.3	10.0	0.56	486	1.47	2.54	4.5	8.2	450	2.4
R1709		16.15	0.15	2.5	0.030	1.47	15.2	8.6	0.41	633	1.51	2.75	4.3	8.6	420	2.7
R1710		19.70	0.16	2.8	0.031	1.96	19.7	9.5	0.43	427	0.77	2.33	4.8	22.9	460	2.9
R1711		19.30	0.13	2.8	0.028	2.03	19.1	7.8	0.54	527	0.78	2.22	4.7	8.7	460	2.4
R1712		18.50	0.15	2.8	0.028	2.08	17.0	6.7	0.51	565	7.04	2.18	4.3	20.0	440	13.6
R1713		19.20	0.16	2.7	0.025	1.99	18.8	7.5	0.52	552	0.83	2.20	4.3	8.6	440	2.1
R1714		19.20	0.15	2.7	0.033	2.02	19.7	8.9	0.61	636	0.82	2.19	4.4	7.9	460	2.3
R1715		19.60	0.15	2.8	0.031	2.43	21.5	11.1	0.45	503	0.84	1.37	4.5	8.7	470	3.0
R1716		20.0	0.15	2.7	0.031	2.14	15.8	9.2	0.34	458	1.74	1.94	4.3	8.2	440	2.9
R1717		20.1	0.17	2.8	0.030	2.16	19.3	11.4	0.44	428	0.92	1.95	4.5	8.3	460	2.1
R1718		19.50	0.15	2.8	0.029	1.77	17.9	11.4	0.48	531	1.06	2.44	4.4	8.5	450	2.7
R1719		18.70	0.17	2.7	0.029	1.91	21.0	13.1	0.51	425	1.19	1.88	4.2	10.2	460	1.9
R1720		20.0	0.17	2.8	0.036	1.93	21.9	14.3	0.53	602	1.32	1.88	4.5	10.4	460	2.1
R1721		11.35	0.26	1.2	0.125	0.32	7.2	8.7	3.86	916	5.22	1.19	5.0	>10000	430	15.4
R1722		17.05	0.10	2.4	0.028	2.01	18.1	8.8	0.47	360	1.13	2.13	3.6	18.9	430	2.0
R1723		17.50	0.10	2.4	0.026	1.61	17.0	10.7	0.62	441	1.27	2.89	4.0	8.7	450	2.2
R1724		17.30	0.10	2.5	0.031	1.90	20.6	9.2	0.60	355	1.34	2.43	3.9	8.2	440	1.8
R1725		0.27	0.13	<0.1	<0.005	0.02	1.2	1.4	2.07	117	0.08	0.04	0.1	0.9	70	0.7
R1726		17.20	0.16	2.4	0.029	2.04	19.7	8.0	0.55	368	0.92	2.01	3.8	6.6	440	1.8
R1727		16.70	0.12	2.4	0.027	2.35	18.7	8.1	0.50	478	1.08	1.32	4.3	7.7	430	2.0
R1728		17.45	0.12	2.5	0.029	2.44	18.1	7.0	0.43	447	0.82	1.55	4.7	7.8	440	1.9
R1729		17.10	0.12	2.6	0.030	2.26	13.6	5.9	0.32	409	0.85	1.81	4.7	7.4	420	2.0
R1730		16.05	0.12	2.3	0.033	2.13	15.1	6.0	0.33	612	0.78	1.60	4.2	12.3	400	1.7
R1731		17.00	0.12	2.4	0.028	1.10	21.1	20.5	1.08	397	1.09	3.60	4.6	8.3	440	3.4
R1732		17.80	0.11	2.5	0.025	0.96	26.3	20.4	1.13	384	1.17	4.03	4.7	8.1	460	2.5
R1733		16.90	0.10	2.5	0.020	0.62	19.8	18.2	1.09	404	1.00	4.43	4.6	7.5	430	1.5
R1734		16.35	0.10	2.6	0.022	1.02	14.3	18.3	1.03	411	0.97	4.61	4.8	7.9	450	5.1
R1735		20.9	0.11	3.6	0.130	3.81	10.2	52.9	2.00	744	1.56	3.01	6.7	47.6	630	6.1



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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1696		61.0	<0.002	0.02	0.15	7.2	<1	1.0	96.5	0.42	<0.05	3.53	0.238	0.28	0.9	54
R1697		52.0	<0.002	0.01	0.15	7.1	<1	1.0	111.5	0.45	<0.05	3.77	0.229	0.27	0.9	52
R1698		46.7	<0.002	0.01	0.16	7.4	<1	1.0	132.5	0.45	<0.05	3.88	0.244	0.23	1.0	55
R1699		56.9	<0.002	0.05	0.23	8.0	<1	1.2	110.0	0.40	<0.05	4.18	0.244	0.31	1.0	69
R1700		59.0	<0.002	0.06	0.22	7.7	1	1.2	103.0	0.39	<0.05	4.20	0.243	0.29	1.0	68
R1701		12.2	<0.002	>10.0	0.13	12.3	2	1.1	244	0.60	0.05	1.36	0.632	0.15	0.4	92
R1702		44.7	<0.002	0.14	0.35	9.9	1	1.1	192.5	0.27	<0.05	5.81	0.302	0.25	1.4	88
R1703		61.0	<0.002	0.02	0.17	7.7	<1	1.0	100.0	0.41	<0.05	3.39	0.228	0.35	0.8	59
R1704		53.6	<0.002	0.01	0.19	7.4	<1	1.0	119.0	0.45	<0.05	3.65	0.244	0.28	0.9	54
R1705		51.5	<0.002	0.03	0.15	7.3	<1	1.0	130.5	0.42	<0.05	3.50	0.247	0.28	0.8	57
R1706		54.4	<0.002	0.08	0.22	7.2	<1	1.0	92.5	0.46	<0.05	3.35	0.249	0.32	0.8	58
R1707		61.9	<0.002	0.02	0.22	7.1	1	1.0	86.6	0.42	<0.05	3.54	0.244	0.30	1.0	54
R1708		45.6	<0.002	0.01	0.15	6.9	<1	1.0	144.5	0.43	<0.05	3.76	0.224	0.19	0.9	53
R1709		31.8	<0.002	0.02	0.17	6.7	<1	0.9	166.5	0.39	<0.05	2.85	0.224	0.20	0.7	64
R1710		46.6	<0.002	0.03	0.18	7.2	1	1.0	139.5	0.44	<0.05	3.38	0.238	0.25	0.8	54
R1711		47.6	<0.002	0.02	0.16	7.1	<1	1.0	132.0	0.43	<0.05	3.44	0.229	0.27	0.9	54
R1712		42.9	<0.002	0.01	1.55	6.7	<1	0.9	111.5	0.41	<0.05	3.03	0.214	0.27	0.8	53
R1713		46.1	<0.002	0.01	0.19	6.9	<1	0.9	122.5	0.40	<0.05	3.31	0.213	0.24	0.8	52
R1714		47.9	<0.002	0.01	0.17	7.1	1	0.9	127.5	0.41	<0.05	3.65	0.222	0.25	0.9	53
R1715		58.6	<0.002	0.01	0.19	7.2	<1	1.0	94.8	0.42	<0.05	3.66	0.230	0.31	0.9	55
R1716		45.6	<0.002	0.01	0.21	6.8	1	0.9	111.0	0.42	<0.05	3.02	0.213	0.28	0.7	54
R1717		53.1	<0.002	0.01	0.17	7.3	1	1.0	109.5	0.43	<0.05	3.68	0.224	0.27	0.9	55
R1718		39.6	<0.002	0.06	0.19	6.9	1	0.9	136.0	0.41	<0.05	3.06	0.216	0.26	0.8	55
R1719		49.5	<0.002	0.04	0.23	7.1	1	1.0	94.7	0.40	<0.05	3.74	0.214	0.23	0.9	59
R1720		47.7	<0.002	0.03	0.24	7.7	1	1.0	105.0	0.43	<0.05	3.64	0.216	0.28	0.9	61
R1721		10.3	0.046	8.21	3.16	8.8	22	2.4	175.5	0.31	4.14	1.08	0.508	0.16	0.4	73
R1722		45.7	<0.002	0.05	0.21	7.1	<1	0.8	85.4	0.35	<0.05	3.31	0.187	0.21	0.8	58
R1723		35.8	<0.002	0.01	0.16	7.2	<1	0.8	145.5	0.39	<0.05	3.01	0.198	0.19	0.7	58
R1724		48.9	<0.002	0.01	0.21	7.6	<1	0.9	93.6	0.39	<0.05	3.58	0.193	0.22	0.9	63
R1725		0.4	<0.002	<0.01	0.09	0.2	1	<0.2	79.0	<0.05	<0.05	0.08	0.006	<0.02	0.2	1
R1726		51.9	<0.002	0.02	0.24	7.1	<1	0.8	81.8	0.37	<0.05	3.47	0.191	0.24	0.9	51
R1727		57.9	<0.002	0.06	0.25	7.1	1	0.8	65.5	0.40	<0.05	3.39	0.231	0.28	0.9	51
R1728		57.9	<0.002	0.01	0.17	7.4	1	0.8	67.8	0.42	<0.05	3.36	0.250	0.30	0.8	53
R1729		49.3	<0.002	0.01	0.16	6.4	<1	0.8	75.3	0.44	<0.05	2.65	0.247	0.28	0.7	51
R1730		50.1	<0.002	0.01	0.15	6.6	1	0.8	82.5	0.39	<0.05	2.86	0.224	0.27	0.8	48
R1731		29.2	<0.002	0.20	0.33	7.8	1	0.7	104.0	0.41	<0.05	3.61	0.235	0.19	0.9	52
R1732		27.3	<0.002	0.12	0.23	7.9	1	0.7	109.5	0.44	<0.05	4.07	0.241	0.18	1.1	53
R1733		11.5	<0.002	0.12	0.13	7.4	<1	0.6	80.8	0.42	<0.05	3.70	0.234	0.08	0.9	52
R1734		12.5	<0.002	0.19	0.14	7.7	1	0.8	88.1	0.44	<0.05	3.63	0.249	0.10	0.8	56
R1735		101.0	<0.002	0.56	0.40	13.2	2	4.6	160.0	0.59	0.09	4.46	0.360	0.63	1.2	129



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		W	Y	Zn	Zr	Co	Cu	Ni	Pass2mm	Pass75um
		ppm	ppm	ppm	ppm	%	%	%	%	%
		0.1	0.1	2	0.5	0.0005	0.001	0.001	0.01	0.01
R1696		1.2	10.0	44	94.1					
R1697		2.3	9.6	47	94.7					
R1698		3.2	9.7	49	97.3					
R1699		4.6	12.4	56	115.5					
R1700		4.2	11.5	53	105.0					
R1701		5.4	13.3	170	88.5	9.63		10.55		
R1702		4.9	16.8	85	182.0					
R1703		3.3	9.2	47	91.5					
R1704		2.5	10.0	44	99.7					
R1705		4.0	9.7	42	94.5					
R1706		4.2	9.6	34	96.2					
R1707		1.2	10.7	43	94.4					
R1708		5.0	10.5	42	91.1					
R1709		6.2	10.0	32	85.4					
R1710		3.9	9.6	38	95.8					
R1711		5.7	8.8	36	96.1					
R1712		2.3	8.3	43	93.7					
R1713		2.5	8.7	31	89.8					
R1714		2.0	9.7	36	91.1					
R1715		2.4	10.7	36	96.5					
R1716		3.6	8.2	28	94.1					
R1717		2.3	9.5	36	96.9					
R1718		3.3	9.2	37	96.2					
R1719		3.4	10.8	39	93.9					
R1720		3.5	12.5	40	100.5					
R1721		2.7	9.9	139	49.8		1.610	4.60		
R1722		3.0	8.5	48	88.9					
R1723		7.2	8.9	47	90.0					
R1724		3.7	10.4	50	90.2					
R1725		<0.1	1.9	3	1.8					
R1726		1.4	9.0	44	87.6					
R1727		1.4	11.0	33	84.0					
R1728		0.5	10.1	35	89.6					
R1729		0.8	9.1	30	89.5					
R1730		1.1	12.7	32	83.5					
R1731		2.4	11.7	55	89.2					
R1732		2.3	12.1	46	90.1					
R1733		3.1	10.4	34	87.4					
R1734		2.7	9.6	35	92.4					90.4
R1735		3.0	14.7	77	131.5				83.7	91.5





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 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1736		2.07	0.39	7.22	21.6	90	0.74	0.14	3.47	2.61	35.9	63.4	91	0.17	268	10.60
R1737		2.12	0.09	6.62	4.7	160	0.73	0.06	6.31	0.21	38.4	53.6	16	0.35	129.0	11.60
R1738		2.11	0.09	6.58	3.6	310	0.86	0.04	5.64	0.14	37.7	49.7	15	0.60	132.5	10.55
R1739		0.91	0.08	6.62	4.7	220	0.99	0.04	4.57	1.12	37.4	47.9	16	0.66	138.5	10.60
R1740		1.13	0.08	6.58	4.5	220	0.90	0.03	4.99	0.85	37.0	46.7	16	0.65	155.5	10.35
R1741		0.02	0.76	7.02	2.5	240	1.01	0.06	5.48	0.77	36.8	>10000	182	0.70	1750	7.03
R1742		1.31	0.38	6.77	50.5	170	0.80	0.46	1.54	12.40	36.2	88.1	48	0.78	280	12.60
R1743		2.31	0.11	6.81	1.1	270	0.85	0.03	6.24	0.17	35.8	56.5	56	1.08	171.5	12.25

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



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 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1736		20.6	0.10	3.6	0.431	0.69	16.1	36.9	2.98	1380	2.52	1.78	7.3	126.0	610	7.0
R1737		22.0	0.10	3.4	0.103	0.54	18.6	16.4	2.61	1880	0.70	1.27	6.8	47.3	590	6.1
R1738		18.45	0.10	3.5	0.090	0.96	17.9	16.3	2.60	1750	0.63	1.68	6.9	48.5	610	6.3
R1739		18.35	0.10	3.5	0.117	0.53	17.5	22.4	2.80	1390	0.51	2.28	7.0	50.6	630	5.1
R1740		18.45	0.10	3.5	0.111	0.54	17.4	22.9	2.78	1420	0.52	2.25	7.0	50.6	620	5.2
R1741		18.35	0.14	3.0	0.060	0.66	18.1	6.7	3.64	909	2.67	2.17	22.3	>10000	1370	16.1
R1742		22.9	0.10	3.7	0.628	0.51	16.3	36.8	2.51	790	2.18	1.71	7.6	143.5	850	44.1
R1743		19.30	0.09	3.7	0.111	0.54	16.7	14.0	3.08	1840	0.69	1.83	7.7	64.6	1000	5.3



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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1736		8.0	0.007	1.12	0.53	41.2	3	4.0	76.4	0.48	0.16	4.22	0.726	0.21	1.1	302
R1737		11.9	0.003	0.19	0.38	38.3	1	1.4	325	0.44	<0.05	4.04	0.717	0.08	1.1	303
R1738		28.8	0.002	0.16	0.26	39.3	1	1.3	204	0.47	<0.05	4.06	0.740	0.18	1.0	316
R1739		15.0	0.003	0.18	0.40	39.6	1	1.5	102.0	0.46	<0.05	4.12	0.739	0.10	1.0	313
R1740		15.4	0.002	0.16	0.41	39.0	1	1.5	108.0	0.46	<0.05	4.07	0.739	0.11	1.0	313
R1741		19.8	<0.002	2.48	2.19	20.5	1	1.3	396	1.14	<0.05	2.55	0.974	0.09	0.6	137
R1742		13.0	0.006	2.32	1.19	41.4	5	6.5	46.7	0.50	0.48	3.65	0.900	0.20	1.0	344
R1743		19.7	0.003	0.20	0.26	44.7	1	1.3	164.5	0.49	<0.05	2.95	1.090	0.14	0.7	423

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**CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
R1736		2.6	33.3	1050	146.5					
R1737		0.4	35.9	170	132.0					
R1738		0.4	35.6	129	137.5					
R1739		0.6	35.5	540	137.5					
R1740		0.7	34.9	427	138.5					
R1741		1.8	20.4	118	134.0	2.03		2.25		
R1742		2.1	38.4	5040	152.0					
R1743		0.3	40.7	160	149.5					

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**CERTIFICATE OF ANALYSIS SD21065013**

	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method.            ME-MS61</p>								
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Co-OG62	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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 This copy reported on  
 26-APR-2021  
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**QC CERTIFICATE SD21065013**

Project: Shining Tree-STR21-009  
 P.O. No.: STR21-009  
 This report is for 88 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Co-OG62	Ore Grade Co – Four Acid	
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree–STR21–009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	ME–MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU–1e																
CCU–1e																
Target Range – Lower Bound																
Upper Bound																
DS–1		0.45	4.19	6640	220	0.73	0.09	6.33	1.09	41.7	8.6	51	7.13	24.9	2.84	9.91
Target Range – Lower Bound		0.41	4.02	6260	180	0.68	0.08	5.35	0.86	38.6	8.5	51	6.25	25.0	2.69	9.76
Upper Bound		0.53	4.94	7660	260	0.96	0.13	6.57	1.10	47.2	10.6	65	7.75	29.2	3.31	12.05
EMOG–17		66.0	4.55	583	160	1.73	5.39	1.89	20.0	44.9	742	55	6.83	8240	4.80	12.50
Target Range – Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
GBM903–13																
GBM903–13																
Target Range – Lower Bound																
Upper Bound																
MP–1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.52	7.31	33.3	1100	3.31	0.62	2.68	2.34	67.7	19.4	91	12.15	642	3.95	18.75
MRGeo08		4.32	7.04	33.9	1080	3.48	0.61	2.71	2.29	66.9	20.1	95	13.10	611	3.86	18.80
MRGeo08		4.02	7.39	34.5	1060	3.21	0.66	2.66	2.36	70.5	20.3	90	12.95	588	3.83	17.75
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.56	7.41	34.4	2780	2.87	5.61	0.60	0.36	92.9	15.6	18	6.69	1530	4.06	24.3
OREAS 905		0.56	7.54	33.6	2720	2.93	5.19	0.63	0.33	94.7	14.8	21	6.74	1500	4.02	23.9
OREAS 905		0.51	7.31	36.8	2710	3.12	5.41	0.61	0.38	96.1	15.4	19	7.15	1445	3.97	24.3
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 920		0.09	7.90	6.3	570	2.63	0.76	0.50	0.06	93.4	16.2	84	8.49	119.5	4.16	21.6
Target Range – Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS–76a																



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Project: Shining Tree-STR21-009  
**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
AMIS0160																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
DS-1		0.09	3.6	0.054	1.03	21.6	18.5	2.76	437	4.07	0.03	4.8	46.0	330	12.6	47.1
Target Range - Lower Bound		<0.05	3.6	0.038	0.89	19.4	17.8	2.47	388	3.97	<0.01	4.4	43.6	300	11.9	45.9
Upper Bound		0.21	4.6	0.063	1.11	24.8	22.2	3.05	486	4.97	0.05	5.6	53.8	380	15.7	56.3
EMOG-17		0.17	1.9	0.912	1.63	23.4	25.5	0.94	719	1055	1.09	14.8	7620	810	7230	105.0
Target Range - Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
GBM903-13																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.15	3.0	0.176	3.18	31.6	30.9	1.33	556	14.30	2.00	21.0	724	1070	1105	179.5
MRGeo08		0.15	4.0	0.184	3.08	30.8	33.3	1.30	538	14.85	2.07	22.2	682	1020	1050	174.5
MRGeo08		0.19	2.9	0.174	3.09	34.3	30.2	1.33	541	15.45	1.93	20.7	676	1000	1045	194.0
Target Range - Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		0.21	6.5	0.652	2.92	46.3	20.1	0.27	369	3.07	2.41	18.0	10.5	280	31.5	131.0
OREAS 905		0.17	6.5	0.648	2.93	47.0	19.6	0.27	363	3.21	2.64	18.9	10.5	270	28.4	133.5
OREAS 905		0.26	6.6	0.689	2.91	46.8	21.3	0.27	366	3.53	2.35	19.1	9.9	260	30.1	138.5
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 920		0.20	4.7	0.088	2.98	47.2	27.4	1.36	602	0.42	0.66	18.1	42.5	760	22.7	176.5
Target Range - Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-76a																





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Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
AMIS0160																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
DS-1		0.003	2.46	98.9	8.5	1	1.9	75.3	0.49	0.07	4.22	0.244	18.85	2.4	137	29.8
Target Range - Lower Bound		<0.002	2.38	83.9	8.0	<1	1.5	69.1	0.38	<0.05	3.88	0.229	17.00	2.2	125	27.5
Upper Bound		0.007	2.94	113.5	10.0	4	2.5	84.9	0.63	0.18	4.76	0.291	23.0	2.9	155	37.5
EMOG-17		0.299	3.20	793	7.4	7	2.9	203	0.90	1.30	10.35	0.309	2.03	2.9	71	4.0
Target Range - Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
GBM903-13																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.007	0.30	4.67	11.8	1	4.4	310	1.46	<0.05	17.85	0.489	1.03	4.9	107	4.8
MRGeo08		0.009	0.30	4.53	12.0	1	4.0	297	1.48	<0.05	17.95	0.492	1.00	5.0	106	4.6
MRGeo08		0.007	0.29	4.64	11.5	1	3.9	293	1.43	<0.05	21.9	0.480	1.06	5.4	105	4.5
Target Range - Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 905		<0.002	0.07	2.06	4.6	2	4.3	159.5	1.26	0.09	14.25	0.120	0.73	4.9	9	2.8
OREAS 905		<0.002	0.07	1.94	4.9	3	3.8	155.5	1.31	0.08	14.80	0.121	0.67	4.8	9	2.7
OREAS 905		<0.002	0.06	2.09	5.1	3	3.9	156.0	1.31	0.07	15.10	0.118	0.73	4.7	9	2.7
Target Range - Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 920		<0.002	0.03	1.60	13.9	1	5.5	83.2	1.40	<0.05	19.85	0.484	0.90	3.6	98	3.3
Target Range - Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-76a																



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Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>STANDARDS</b>							
AMIS0160					3.07	2.03	0.004
AMIS0160					3.06	2.01	0.005
Target Range – Lower Bound					2.99	1.970	<0.001
Upper Bound					3.21	2.11	0.005
CCU-1e					0.0305	22.7	0.002
CCU-1e					0.0330	22.7	0.001
Target Range – Lower Bound					0.0285	22.1	
Upper Bound					0.0317	23.7	
DS-1		24.5	208	152.5			
Target Range – Lower Bound		22.2	195	137.0			
Upper Bound		27.3	243	186.5			
EMOG-17		15.6	7250	64.5			
Target Range – Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
GBM903-13					0.0046	2.87	2.44
GBM903-13					0.0045	2.89	2.44
Target Range – Lower Bound					0.0041	2.79	2.35
Upper Bound					0.0059	3.00	2.52
MP-1b					<0.0005	3.12	0.001
Target Range – Lower Bound					<0.0005	2.96	<0.001
Upper Bound					0.0014	3.18	0.002
MRGeo08		24.4	814	104.5			
MRGeo08		25.5	775	106.0			
MRGeo08		28.0	781	106.0			
Target Range – Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 621					0.0026	0.364	0.003
OREAS 621					0.0027	0.362	0.004
Target Range – Lower Bound					0.0020	0.349	<0.001
Upper Bound					0.0039	0.377	0.005
OREAS 905		15.1	141	251			
OREAS 905		15.9	134	252			
OREAS 905		17.2	135	255			
Target Range – Lower Bound		14.0	122	214			
Upper Bound		17.4	154	290			
OREAS 920		32.7	121	164.0			
Target Range – Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS-76a					0.1165	0.286	7.23



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**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	<0.2	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		32.5	3.54	263	230	0.97	0.35	8.58	23.4	38.5	16.8	193	1.26	267	5.71	8.70
DUP		31.1	3.42	241	220	0.98	0.32	8.25	22.9	37.8	17.2	172	1.27	201	5.51	8.60
Target Range – Lower Bound		30.2	3.30	239	200	0.88	0.31	7.98	22.0	36.2	16.1	172	1.15	226	5.32	8.17
Upper Bound		33.4	3.66	265	250	1.07	0.36	8.85	24.3	40.1	18.0	193	1.38	242	5.90	9.13
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		0.01	7.07	1.1	400	0.75	0.07	2.39	0.03	40.2	8.6	8	1.19	2.4	2.76	18.05
DUP		0.01	7.37	0.8	410	0.64	0.07	2.42	0.02	40.7	9.2	8	1.14	2.7	2.80	17.50
Target Range – Lower Bound		<0.01	6.85	0.7	360	0.61	0.06	2.27	<0.02	38.4	8.4	7	1.06	2.3	2.63	16.85
Upper Bound		0.02	7.59	1.2	450	0.78	0.08	2.54	0.04	42.5	9.4	9	1.27	2.8	2.93	18.70



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**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		0.07	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.08	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
BLANK		0.08	<0.1	0.006	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		0.10	2.2	0.037	1.56	20.7	8.8	4.08	4100	30.6	0.33	5.5	401	90	9550	61.7
DUP		0.08	2.1	0.036	1.47	20.0	8.6	3.94	3940	30.3	0.32	5.5	367	90	9270	60.7
Target Range – Lower Bound		<0.05	1.9	0.030	1.43	18.8	8.1	3.80	3810	28.9	0.30	5.1	365	80	8940	58.0
Upper Bound		0.10	2.4	0.043	1.60	21.9	9.3	4.22	4230	32.0	0.35	5.9	403	100	9880	64.4
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		0.12	2.5	0.029	1.34	19.3	10.7	0.62	387	1.11	3.29	4.1	8.2	450	3.4	35.5
DUP		0.11	2.4	0.028	1.37	19.9	8.8	0.65	392	1.08	3.36	4.1	8.9	470	3.5	38.0
Target Range – Lower Bound		0.06	2.2	0.022	1.28	18.1	9.1	0.59	365	0.99	3.15	3.8	7.9	430	2.8	34.8
Upper Bound		0.17	2.7	0.035	1.43	21.1	10.4	0.68	414	1.20	3.50	4.4	9.2	490	4.1	38.7



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**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL		0.003	5.61	91.1	3.5	1	7.8	49.6	0.60	<0.05	7.22	0.056	4.34	4.1	13	8.3
DUP		0.004	5.39	88.7	3.5	1	5.9	50.2	0.59	<0.05	6.74	0.053	4.14	4.2	13	6.1
Target Range – Lower Bound		<0.002	5.22	83.1	3.2	<1	6.3	47.2	0.52	<0.05	6.62	0.047	3.90	3.8	11	6.6
Upper Bound		0.004	5.79	96.7	3.8	2	7.4	52.6	0.67	0.10	7.34	0.062	4.58	4.5	15	7.8
R1781																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1658		<0.002	0.02	0.17	7.3	<1	1.1	135.5	0.39	<0.05	3.70	0.219	0.17	0.9	53	0.9
DUP		<0.002	0.02	0.15	7.0	1	1.0	134.0	0.40	<0.05	3.79	0.235	0.18	0.9	54	0.8
Target Range – Lower Bound		<0.002	<0.01	0.10	6.7	<1	0.8	128.0	0.33	<0.05	3.55	0.211	0.14	0.8	50	0.7
Upper Bound		0.004	0.03	0.22	7.6	2	1.3	141.5	0.46	0.10	3.94	0.243	0.21	1.0	57	1.0



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**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME–MS61 Y ppm 0.1	ME–MS61 Zn ppm 2	ME–MS61 Zr ppm 0.5	Co–OG62 Co % 0.0005	Cu–OG62 Cu % 0.001	Ni–OG62 Ni % 0.001
<b>STANDARDS</b>							
OREAS–76a					0.1165	0.286	7.08
Target Range – Lower Bound					0.1145	0.274	7.03
Upper Bound					0.1240	0.296	7.55
<b>BLANKS</b>							
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK					<0.0005	<0.001	<0.001
BLANK					<0.0005	<0.001	<0.001
Target Range – Lower Bound					<0.0005	<0.001	<0.001
Upper Bound					0.0010	0.002	0.002
<b>DUPLICATES</b>							
ORIGINAL		17.9	8340	77.3			
DUP		17.3	7840	77.5			
Target Range – Lower Bound		16.6	7680	71.1			
Upper Bound		18.6	8500	83.7			
R1781						1.620	4.64
DUP					0.0976	1.620	4.69
Target Range – Lower Bound					0.0947	1.580	4.55
Upper Bound					0.1005	1.660	4.78
R1658		10.5	39	91.6			
DUP		10.3	39	89.5			
Target Range – Lower Bound		9.8	35	83.3			
Upper Bound		11.0	43	97.8			



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To: NORTH AMERICAN COBALT – BATTERY  
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 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

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 Finalized Date: 16-APR-2021  
 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
		<b>DUPLICATES</b>														
R1694		0.01	7.46	7.5	440	0.86	0.03	3.32	0.02	46.0	10.5	10	0.99	42.0	2.78	18.85
DUP		0.01	7.14	7.1	430	0.76	0.03	3.20	0.03	43.9	10.9	11	0.95	42.6	2.70	18.55
Target Range - Lower Bound		<0.01	6.93	6.7	390	0.72	0.02	3.09	<0.02	42.7	10.1	9	0.87	40.6	2.59	17.70
Upper Bound		0.02	7.68	7.9	480	0.90	0.04	3.43	0.04	47.2	11.3	12	1.07	44.0	2.89	19.70
R1730		0.03	5.98	4.8	420	0.73	0.01	5.40	0.06	32.7	6.8	6	1.45	20.9	2.19	16.05
DUP		0.04	6.03	6.0	430	0.76	0.02	5.47	0.07	35.0	7.2	7	1.52	18.7	2.25	16.40
Target Range - Lower Bound		0.02	5.69	4.9	380	0.66	<0.01	5.15	0.04	32.1	6.6	5	1.36	18.9	2.10	15.35
Upper Bound		0.05	6.32	5.9	470	0.83	0.02	5.72	0.09	35.6	7.5	8	1.61	20.7	2.34	17.10
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
		<b>PREP DUPLICATES</b>														
R1714		0.03	7.10	10.2	410	0.71	0.03	3.44	0.03	40.8	9.0	7	0.94	19.0	2.69	19.20
R1714 PREP DUP		0.02	6.52	11.4	390	0.75	0.02	3.47	0.06	33.6	10.6	9	0.94	19.6	2.64	17.60

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



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 Finalized Date: 16-APR-2021  
 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	0.1
		<b>DUPLICATES</b>														
R1694		0.14	2.9	0.033	1.41	22.9	8.9	0.55	495	1.20	3.42	4.6	10.0	500	3.3	37.1
DUP		0.17	2.8	0.029	1.38	21.9	9.0	0.53	477	1.34	3.32	4.6	10.6	500	3.2	35.7
Target Range - Lower Bound		0.10	2.6	0.024	1.32	20.8	8.3	0.50	457	1.16	3.19	4.3	9.6	470	2.6	34.5
Upper Bound		0.21	3.1	0.038	1.47	24.0	9.6	0.58	515	1.38	3.55	4.9	11.0	540	3.9	38.3
R1730		0.12	2.3	0.033	2.13	15.1	6.0	0.33	612	0.78	1.60	4.2	12.3	400	1.7	50.1
DUP		0.12	2.3	0.040	2.17	16.2	6.2	0.34	624	0.95	1.63	4.3	6.2	410	2.0	53.0
Target Range - Lower Bound		0.06	2.1	0.030	2.03	14.4	5.6	0.31	582	0.77	1.52	3.9	8.6	370	1.3	48.9
Upper Bound		0.18	2.5	0.043	2.27	16.9	6.6	0.36	654	0.96	1.71	4.6	9.9	440	2.4	54.2
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
		<b>PREP DUPLICATES</b>														
R1714		0.15	2.7	0.033	2.02	19.7	8.9	0.61	636	0.82	2.19	4.4	7.9	460	2.3	47.9
R1714 PREP DUP		0.10	2.4	0.028	1.96	15.5	8.8	0.58	624	0.76	2.15	3.9	8.6	440	2.3	40.0





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 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1	0.1
		<b>DUPLICATES</b>														
R1694		<0.002	0.02	0.14	7.9	<1	0.9	167.0	0.42	<0.05	3.84	0.256	0.21	0.9	55	11.1
DUP		<0.002	0.02	0.14	7.8	1	0.9	162.5	0.43	<0.05	3.55	0.252	0.18	0.9	53	10.7
Target Range - Lower Bound		<0.002	<0.01	0.08	7.4	<1	0.7	156.5	0.35	<0.05	3.50	0.236	0.16	0.8	50	10.0
Upper Bound		0.004	0.03	0.20	8.3	2	1.1	173.0	0.50	0.10	3.89	0.272	0.23	1.0	58	11.8
R1730		<0.002	0.01	0.15	6.6	1	0.8	82.5	0.39	<0.05	2.86	0.224	0.27	0.8	48	1.1
DUP		<0.002	0.01	0.16	6.9	<1	0.8	85.8	0.39	<0.05	3.06	0.229	0.27	0.8	49	1.1
Target Range - Lower Bound		<0.002	<0.01	0.09	6.3	<1	0.6	79.7	0.32	<0.05	2.80	0.210	0.23	0.7	45	0.9
Upper Bound		0.004	0.02	0.22	7.2	2	1.0	88.6	0.46	0.10	3.12	0.243	0.31	0.9	52	1.3
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
		<b>PREP DUPLICATES</b>														
R1714		<0.002	0.01	0.17	7.1	1	0.9	127.5	0.41	<0.05	3.65	0.222	0.25	0.9	53	2.0
R1714 PREP DUP		<0.002	0.02	0.14	7.1	<1	0.8	120.5	0.38	<0.05	2.92	0.206	0.25	0.8	53	1.6



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 Account: BMRPLLBW

Project: Shining Tree-STR21-009

**QC CERTIFICATE OF ANALYSIS SD21065013**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>DUPLICATES</b>							
R1694		10.8	43	97.2			
DUP		10.8	41	98.7			
Target Range - Lower Bound		10.2	38	90.1			
Upper Bound		11.4	46	106.0			
R1730		12.7	32	83.5			
DUP		13.3	34	87.5			
Target Range - Lower Bound		12.3	29	78.6			
Upper Bound		13.8	37	92.4			
ORIGINAL						3.76	
DUP					0.0316	3.77	0.006
Target Range - Lower Bound					0.0303	3.67	0.005
Upper Bound					0.0329	3.86	0.007
<b>PREP DUPLICATES</b>							
R1714		9.7	36	91.1			
R1714 PREP DUP		8.5	49	88.0			



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**QC CERTIFICATE OF ANALYSIS SD21065013**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REEs may not be totally soluble in this method.  
 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	PUL-31	PUL-QC	SPL-21	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Co-OG62	Cu-OG62	ME-MS61	ME-OG62
	Ni-OG62			



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 This copy reported on  
 26-APR-2021  
 Account: BMRPLBW

**CERTIFICATE SD21065021**

Project: Shining Tree-STR21-010  
 P.O. No.: STR21-010  
 This report is for 7 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	

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 \*\*\*\*\*

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

Signature:   
 Saa Traxler, General Manager, North Vancouver



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 Finalized Date: 19-APR-2021  
 Account: BMRPLLBW

Project: Shining Tree-STR21-010

**CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
R1 792		1.02	0.04	8.07	1.0	80	0.21	0.01	6.40	0.02	2.48	28.6	105	0.46	6.2	5.87
R1 793		2.31	0.21	7.77	13.6	80	0.22	0.02	7.60	0.04	5.34	39.1	62	0.31	48.2	5.80
R1 794		2.02	0.02	7.25	1.1	190	0.21	0.02	7.17	<0.02	5.45	40.2	55	0.94	60.6	7.80
R1 795		2.11	0.39	7.12	3.5	280	0.35	0.03	7.36	0.02	5.99	38.6	41	1.12	48.9	7.85
R1 796		0.97	0.03	5.72	1.2	120	0.08	0.01	9.21	0.02	5.78	28.0	42	0.52	10.2	5.71
R1 797	Destroyed															
R1 798		0.99	0.02	6.13	1.3	80	0.36	0.01	7.95	0.04	9.63	28.2	4	0.67	3.6	8.90

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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Project: Shining Tree-STR21-010

**CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
R1 792		11.50	0.13	0.5	0.031	0.36	1.0	40.2	3.73	1330	0.44	2.90	0.8	55.3	40	2.0
R1 793		12.50	0.14	0.7	0.045	0.21	1.8	37.0	3.46	1280	0.49	1.99	1.1	63.4	220	20.3
R1 794		13.35	0.11	0.9	0.042	1.39	1.9	40.1	3.19	1300	0.29	0.53	1.1	54.7	250	0.5
R1 795		14.25	0.13	1.1	0.052	1.52	2.2	42.5	2.79	1480	0.35	0.36	1.1	50.7	220	0.8
R1 796		10.70	0.11	0.7	0.038	0.33	2.0	35.6	2.96	1170	0.56	1.42	1.0	39.8	150	4.3
R1 797 R1 798		17.35	0.17	1.5	0.077	0.31	3.1	25.9	2.20	1700	0.63	1.31	2.0	15.8	290	<0.5

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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**CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1 792		4.8	<0.002	0.01	3.08	45.5	1	0.3	74.0	0.05	<0.05	0.14	0.297	<0.02	<0.1	195
R1 793		4.6	0.003	0.04	0.69	40.8	1	<0.2	94.9	0.07	<0.05	0.20	0.328	0.02	0.1	208
R1 794		37.3	<0.002	0.07	0.55	39.9	1	<0.2	26.9	0.07	<0.05	0.21	0.373	0.10	0.1	228
R1 795		42.9	<0.002	0.12	0.32	43.0	1	0.2	23.5	0.07	<0.05	0.23	0.390	0.12	0.1	244
R1 796		11.1	<0.002	0.01	0.22	37.7	<1	0.8	51.4	0.06	<0.05	0.18	0.328	0.03	<0.1	202
R1 797																
R1 798		11.2	0.009	<0.01	0.19	44.4	2	1.3	44.7	0.13	0.09	0.33	0.714	0.05	0.1	379

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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Project: Shining Tree-STR21-010  
**CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	CRU-QC Pass2mm %	PUL-QC Pass75um %
R1 792		0.3	11.3	82	17.1	85.2	92.6
R1 793		0.6	14.3	62	28.1		93.0
R1 794		0.2	13.4	58	36.2		
R1 795		1.8	16.1	54	39.3		
R1 796		0.3	14.3	56	27.3		
R1 797							
R1 798		0.4	28.7	58	54.7		

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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





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<b>CERTIFICATE OF ANALYSIS SD21065021</b>
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	<b>CERTIFICATE COMMENTS</b>
--	-----------------------------

	<b>ANALYTICAL COMMENTS</b>										
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61										
Applies to Method:	<b>LABORATORY ADDRESSES</b>										
	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.										
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-22		PUL-31							
PUL-QC	SPL-21	WEI-21									
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-MS61										



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**QC CERTIFICATE SD21065021**

Project: Shining Tree-STR21-010  
 P.O. No.: STR21-010  
 This report is for 7 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	

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 \*\*\*\*\*

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

Signature:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree-STR21-010

**QC CERTIFICATE OF ANALYSIS SD21065021**

Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm	
<b>Sample Description</b>	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	
<b>STANDARDS</b>																
EMOG-17	69.6	4.72	584	280	1.81	5.95	2.00	19.30	49.9	761	58	7.67	8220	4.96	11.10	
Target Range – Lower Bound	60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75	
Upper Bound	74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25	
OREAS 920	0.07	7.86	5.7	560	2.57	0.64	0.52	0.05	97.5	17.1	86	9.32	109.5	4.12	22.0	
Target Range – Lower Bound	0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65	
Upper Bound	0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9	
<b>BLANKS</b>																
BLANK	<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05	
Target Range – Lower Bound	<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05	
Upper Bound	0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10	
<b>DUPLICATES</b>																
ORIGINAL	<0.01	0.05	0.2	10	<0.05	0.01	0.01	<0.02	6.33	0.1	3	<0.05	0.7	0.57	0.21	
DUP	0.02	0.05	0.5	10	0.12	0.02	0.02	0.03	6.34	0.1	3	<0.05	1.7	0.56	0.22	
Target Range – Lower Bound	<0.01	0.04	<0.2	<10	<0.05	<0.01	<0.01	<0.02	6.01	<0.1	2	<0.05	1.0	0.53	0.15	
Upper Bound	0.02	0.06	0.4	20	0.10	0.02	0.02	0.04	6.66	0.2	4	0.10	1.4	0.60	0.28	

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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Project: Shining Tree-STR21-010

QC CERTIFICATE OF ANALYSIS	SD21065021
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Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>																
EMOG-17		0.20	1.7	0.848	1.68	25.7	26.1	0.99	755	1075	1.13	15.4	7620	830	7260	110.5
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
OREAS 920		0.23	4.3	0.081	3.00	48.8	27.8	1.40	610	0.40	0.65	18.9	44.5	750	23.3	183.5
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
<b>BLANKS</b>																
BLANK		0.10	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
<b>DUPLICATES</b>																
ORIGINAL		0.10	0.3	<0.005	<0.01	2.9	3.3	<0.01	63	0.60	<0.01	0.2	0.6	10	1.5	0.2
DUP		0.12	0.3	0.006	<0.01	3.0	3.5	0.01	62	0.66	<0.01	0.2	0.7	10	1.7	0.2
Target Range – Lower Bound		<0.05	0.2	<0.005	<0.01	2.3	3.0	<0.01	54	0.55	<0.01	<0.1	0.4	<10	1.0	<0.1
Upper Bound		0.17	0.4	0.010	0.02	3.6	3.8	0.02	71	0.71	0.02	0.3	0.9	20	2.2	0.3

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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 Account: BMRPLLBW

Project: Shining Tree-STR21-010

**QC CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
EMOG-17		0.327	3.34	792	7.7	8	2.6	206	0.88	1.31	12.20	0.319	2.10	3.2	73	3.8
Target Range – Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
OREAS 920		<0.002	0.03	1.52	15.0	1	4.8	84.9	1.29	<0.05	19.50	0.478	0.90	3.5	98	3.0
Target Range – Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
<b>BLANKS</b>																
BLANK		<0.002	<0.01	0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
<b>DUPLICATES</b>																
ORIGINAL		<0.002	<0.01	0.12	0.2	<1	<0.2	1.6	<0.05	<0.05	1.07	0.006	<0.02	0.3	1	<0.1
DUP		0.009	<0.01	0.06	0.2	2	<0.2	1.7	<0.05	0.09	0.90	0.006	0.02	0.3	1	<0.1
Target Range – Lower Bound		0.003	<0.01	<0.05	<0.1	<1	<0.2	1.4	<0.05	<0.05	0.93	<0.005	<0.02	0.2	<1	<0.1
Upper Bound		0.008	0.02	0.10	0.3	2	0.4	1.9	0.10	0.10	1.04	0.010	0.04	0.4	2	0.2

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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Project: Shining Tree-STR21-010  
**QC CERTIFICATE OF ANALYSIS SD21065021**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
<b>STANDARDS</b>				
EMOG-17		16.5	7450	64.0
Target Range - Lower Bound		14.3	6800	55.6
Upper Bound		17.7	8320	76.4
OREAS 920		36.1	123	166.5
Target Range - Lower Bound		29.8	102	128.0
Upper Bound		36.6	130	174.0
<b>BLANKS</b>				
BLANK		<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<2	<0.5
Upper Bound		0.2	4	1.0
<b>DUPLICATES</b>				
ORIGINAL		0.8	<2	10.9
DUP		0.8	<2	10.8
Target Range - Lower Bound		0.7	<2	9.5
Upper Bound		0.9	4	12.2

Comments: \*\*\*Sample R1797 completely blended with 60g of sample R1798. Sample R1797 marked as Destroyed\*\*\*

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



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**QC CERTIFICATE OF ANALYSIS SD21065021**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REEs may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
CRU-31 CRU-QC LOG-22 PUL-31  
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-MS61



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**CERTIFICATE SD21065028**

Project: Shining Tree-STR21-011  
 P.O. No.: STR21-011  
 This report is for 31 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver





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 Account: BMRPLLBW

Project: Shining Tree-STR21-011

**CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1799		0.79	0.14	6.16	10.8	110	1.40	0.02	1.84	0.24	48.9	28.9	4	3.78	17.1	9.61
R1800		0.78	0.13	6.36	10.7	100	1.28	0.03	2.52	0.09	54.4	29.3	4	3.87	13.4	10.20
R1801		0.12	4.15	5.21	14.5	110	0.60	1.01	3.43	2.01	17.15	952	262	0.73	>10000	17.40
R1802		1.78	0.25	6.08	8.1	80	1.79	0.25	2.01	0.70	45.7	26.5	3	2.57	34.6	9.19
R1803		1.70	0.12	5.90	4.9	90	2.07	0.14	2.74	0.22	45.4	19.8	4	1.69	19.0	9.36
R1804		1.88	0.17	5.99	11.4	130	1.71	0.07	1.82	0.43	62.4	30.7	3	5.32	15.6	11.05
R1805		1.99	0.16	5.21	15.9	90	3.72	0.17	3.42	0.02	48.8	26.8	5	5.18	94.3	10.25
R1806		0.99	0.17	5.87	22.5	80	2.63	0.19	1.14	0.02	48.7	37.5	4	3.53	79.2	11.75
R1807		0.81	0.38	5.32	56.1	90	2.03	0.03	3.11	0.30	44.9	73.1	5	6.74	29.4	12.75
R1808		1.24	0.29	6.18	25.1	90	1.75	0.01	1.17	1.07	40.4	42.3	3	6.06	20.7	12.00
R1809		2.03	0.27	6.29	16.7	60	1.96	0.03	2.14	2.06	49.4	34.1	2	5.29	61.4	11.15
R1810		2.07	0.25	6.26	14.4	110	1.67	0.02	2.63	1.66	47.1	34.5	7	3.61	34.8	10.85
R1811		1.87	0.21	5.90	18.2	100	1.64	0.02	2.25	1.23	53.6	39.8	3	4.99	38.2	11.90
R1812		1.92	0.34	5.89	16.8	130	1.45	0.02	3.17	0.60	48.1	44.7	3	5.08	28.4	11.75
R1813		1.82	1.03	5.23	23.3	70	1.60	0.19	3.28	0.15	40.2	39.6	3	3.28	325	11.40
R1814		1.08	0.55	6.02	53.9	60	1.68	0.41	5.55	0.10	41.2	74.3	2	1.77	318	9.57
R1815		1.91	0.69	5.84	16.0	10	1.10	0.44	6.28	0.03	37.3	50.9	2	1.39	475	10.10
R1816		1.08	0.63	4.78	8.5	10	0.87	0.44	6.27	<0.02	31.3	44.6	5	1.17	742	9.38
R1817		2.07	0.29	6.53	14.1	110	1.30	0.23	4.24	0.47	35.1	47.7	1	3.09	161.0	10.90
R1818		1.83	0.32	6.45	36.2	120	1.70	0.09	3.44	1.65	34.6	49.4	2	3.29	144.5	11.55
R1819		0.40	1.59	5.76	34.8	30	1.94	0.17	2.23	1.33	30.5	43.7	2	3.82	198.5	11.55
R1820		0.44	1.09	5.54	22.4	40	3.47	0.24	3.44	1.90	33.6	33.7	3	3.25	212	10.25
R1821		0.12	4.00	5.30	13.6	110	0.52	1.04	3.45	2.00	16.25	962	269	0.72	>10000	17.70
R1822		2.34	0.27	7.51	5.4	140	0.80	0.05	4.88	0.29	29.2	43.9	3	1.80	112.0	9.54
R1823		1.87	0.08	7.51	1.7	110	0.52	0.13	6.71	0.10	17.20	42.7	135	0.55	129.5	7.39
R1824		1.22	0.05	5.76	0.9	30	1.10	0.04	2.42	0.12	38.6	15.6	24	0.22	286	7.90
R1825		0.55	<0.01	0.09	0.6	20	<0.05	0.02	34.6	<0.02	1.03	1.1	2	<0.05	2.3	0.15
R1826		1.25	0.11	7.60	1.8	100	1.17	0.07	6.55	0.11	25.1	44.1	221	1.23	273	7.35
R1827		0.89	0.24	6.71	3.0	70	1.00	0.17	8.31	0.07	22.1	49.6	59	0.96	1645	7.33
R1828		1.94	0.05	8.33	2.7	250	2.17	0.05	2.68	<0.02	65.7	29.6	120	1.04	415	5.73
R1829		1.59	<0.01	8.81	1.3	70	1.82	<0.01	1.64	<0.02	99.8	6.8	117	0.27	4.2	2.77



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 Account: BMRPLLBW

Project: Shining Tree-STR21-011

**CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1799		20.0	0.10	5.9	0.097	0.77	22.2	10.0	1.06	2000	1.20	3.87	10.9	2.0	1090	41.4
R1800		24.9	0.12	5.6	0.139	0.78	25.7	10.8	1.12	2110	1.14	3.64	10.6	1.3	1090	43.9
R1801		11.15	0.16	1.3	0.120	0.30	7.1	9.1	3.87	979	4.22	1.14	4.9	>10000	470	13.2
R1802		22.6	0.09	5.8	0.179	0.39	19.4	19.7	1.41	1320	1.21	3.95	10.9	14.9	1100	137.5
R1803		24.6	0.10	5.7	0.180	0.35	18.6	17.2	1.25	1310	0.97	3.68	9.7	6.9	1630	90.6
R1804		23.5	0.11	6.0	0.140	0.59	28.2	20.3	1.44	1540	1.20	3.36	11.1	1.5	2290	356
R1805		19.30	0.10	5.0	0.322	0.37	19.9	27.4	1.75	1420	1.15	2.51	9.2	1.4	1940	18.8
R1806		20.6	0.09	5.7	0.163	0.17	20.3	38.0	2.51	1060	1.34	2.32	9.1	1.3	1020	43.7
R1807		19.90	0.08	4.1	0.170	0.57	19.1	45.5	2.26	1760	0.89	2.12	7.8	1.6	740	2180
R1808		20.7	0.08	4.8	0.127	0.51	18.4	40.0	2.35	1500	0.92	2.92	8.1	1.1	880	1495
R1809		22.4	0.10	5.0	0.181	0.48	22.9	32.7	1.79	1620	0.88	3.78	9.0	2.3	940	648
R1810		22.4	0.08	4.8	0.151	0.66	21.1	30.1	1.69	1640	0.81	3.64	8.7	4.0	860	405
R1811		20.3	0.09	4.4	0.123	0.54	28.1	35.9	2.08	1780	0.89	3.00	8.3	8.8	870	718
R1812		21.4	0.09	4.5	0.116	0.71	22.7	28.8	1.93	1860	0.93	2.90	8.0	1.4	820	253
R1813		19.35	0.08	3.8	0.159	0.37	19.4	38.9	2.12	1360	0.70	1.91	6.7	2.2	690	53.5
R1814		19.90	0.08	3.4	0.144	0.37	19.5	39.5	2.03	1280	0.77	2.40	6.0	9.9	630	521
R1815		19.20	0.07	3.3	0.137	0.06	14.9	34.6	2.28	1080	0.60	2.17	5.4	11.4	620	95.1
R1816		18.55	0.07	2.9	0.135	0.05	14.6	41.0	2.09	944	0.79	1.42	4.6	20.2	500	88.4
R1817		20.7	0.08	3.9	0.122	0.71	16.2	33.3	2.07	1500	0.59	2.86	6.3	14.4	700	98.1
R1818		20.2	0.08	3.8	0.158	0.74	15.7	45.7	2.55	1620	0.65	2.79	6.3	13.2	670	692
R1819		20.4	0.06	4.5	0.252	0.23	13.7	74.6	3.26	1520	0.95	2.43	5.6	11.5	560	2800
R1820		19.35	0.08	4.5	0.250	0.22	12.9	70.9	2.83	1460	1.08	2.57	5.3	10.6	530	3580
R1821		10.85	0.15	1.2	0.110	0.30	6.8	8.4	3.93	991	4.19	1.17	4.8	>10000	470	14.8
R1822		19.85	0.08	2.8	0.101	1.01	13.8	16.9	2.03	1540	0.48	3.29	5.1	39.2	550	65.2
R1823		15.95	0.07	1.5	0.056	0.97	7.3	34.4	3.91	1160	0.44	2.14	2.7	112.5	300	20.4
R1824		20.5	0.07	6.8	0.049	0.14	16.9	17.7	1.39	521	0.78	3.55	7.6	25.9	750	23.6
R1825		0.27	<0.05	<0.1	<0.005	0.01	1.2	1.1	1.78	132	0.08	0.03	0.1	1.1	70	0.9
R1826		17.35	0.12	1.5	0.070	0.59	11.6	58.6	4.77	1200	0.43	1.88	2.5	134.0	280	43.0
R1827		15.90	0.10	1.2	0.094	0.61	10.2	38.7	5.16	1350	0.24	1.80	2.1	239	240	23.2
R1828		23.6	0.14	3.2	0.060	1.36	30.6	48.2	2.31	503	0.65	4.01	8.2	91.0	830	6.6
R1829		18.35	0.12	3.9	0.021	0.48	51.7	18.2	0.89	191	0.13	6.63	7.3	51.6	610	2.4



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Project: Shining Tree-STR21-011

**CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1799		26.2	<0.002	0.05	0.33	25.9	<1	1.3	158.0	0.76	<0.05	6.88	0.822	0.10	2.5	10
R1800		24.7	<0.002	0.04	0.64	24.9	1	1.3	328	0.71	<0.05	6.73	0.790	0.10	2.5	10
R1801		10.4	0.048	8.03	4.66	8.0	21	2.4	179.0	0.31	4.41	0.97	0.508	0.18	0.3	77
R1802		11.7	<0.002	0.04	0.26	23.2	<1	1.4	59.6	0.75	<0.05	6.97	0.748	0.07	3.0	9
R1803		9.5	<0.002	0.01	0.27	21.1	1	1.3	92.1	0.72	<0.05	7.15	0.704	0.04	3.4	14
R1804		26.7	<0.002	0.05	0.23	21.4	<1	1.4	88.7	0.80	<0.05	7.31	0.742	0.16	2.6	4
R1805		16.5	<0.002	0.05	0.27	18.3	<1	1.3	44.4	0.65	<0.05	6.36	0.657	0.09	2.1	4
R1806		7.5	<0.002	0.03	0.23	21.7	<1	1.2	19.8	0.68	<0.05	6.72	0.679	0.06	2.1	8
R1807		29.4	<0.002	0.17	0.41	26.4	1	1.0	73.0	0.54	<0.05	4.74	1.025	0.22	1.4	59
R1808		24.5	<0.002	0.12	0.34	26.7	<1	1.1	78.9	0.61	<0.05	5.77	0.970	0.16	1.7	52
R1809		24.7	<0.002	0.10	0.29	28.2	<1	1.2	76.6	0.64	<0.05	5.98	0.986	0.13	2.1	57
R1810		31.9	<0.002	0.09	0.34	29.5	1	1.2	101.0	0.65	<0.05	5.96	0.990	0.16	2.1	71
R1811		27.5	<0.002	0.11	0.30	30.4	1	1.0	82.3	0.59	<0.05	5.59	0.980	0.18	1.8	70
R1812		34.6	<0.002	0.20	0.38	29.8	1	1.0	94.7	0.58	<0.05	5.33	1.025	0.23	1.7	86
R1813		18.5	<0.002	0.10	0.37	28.3	1	1.0	60.4	0.50	<0.05	4.54	0.940	0.12	1.7	97
R1814		17.0	0.003	0.22	0.34	35.2	1	1.1	95.7	0.44	<0.05	4.08	0.931	0.10	1.3	318
R1815		2.4	0.002	0.17	0.23	32.4	1	1.0	40.1	0.40	<0.05	3.77	0.877	0.04	1.2	335
R1816		1.9	<0.002	0.18	0.28	27.6	1	0.9	31.2	0.33	<0.05	3.55	0.698	0.04	1.0	274
R1817		35.2	0.002	0.19	0.44	36.1	1	1.0	116.5	0.47	<0.05	4.46	1.020	0.19	1.5	392
R1818		36.6	0.002	0.13	0.41	35.7	1	1.1	114.5	0.46	<0.05	4.41	1.010	0.17	1.4	404
R1819		11.6	<0.002	0.10	0.40	30.3	1	1.1	40.7	0.43	<0.05	5.65	0.822	0.07	1.8	321
R1820		11.0	<0.002	0.13	0.42	28.4	1	1.1	49.2	0.40	<0.05	5.54	0.750	0.07	1.9	298
R1821		10.0	0.048	8.16	2.93	7.6	20	2.4	181.0	0.29	4.39	1.02	0.512	0.17	0.3	78
R1822		46.8	<0.002	0.14	0.32	30.1	<1	0.7	152.5	0.38	<0.05	3.33	0.767	0.24	1.1	306
R1823		46.9	<0.002	0.07	0.19	31.3	1	0.6	246	0.19	<0.05	1.74	0.422	0.27	0.5	213
R1824		6.6	<0.002	0.04	0.10	15.6	<1	1.3	67.0	0.73	<0.05	8.54	0.529	0.05	2.5	72
R1825		0.4	<0.002	<0.01	0.06	0.3	1	<0.2	81.8	<0.05	<0.05	0.08	0.007	<0.02	0.1	1
R1826		31.7	0.002	0.08	0.39	31.9	1	0.7	170.0	0.18	<0.05	1.67	0.411	0.19	0.6	212
R1827		27.2	0.002	0.23	0.32	27.1	1	0.7	133.0	0.15	0.07	1.60	0.373	0.13	0.8	205
R1828		42.8	0.002	0.07	0.41	24.9	<1	1.5	128.0	0.65	<0.05	13.75	0.429	0.18	3.4	167
R1829		24.8	<0.002	0.01	0.55	18.3	<1	1.4	38.9	0.66	<0.05	16.00	0.324	0.07	3.9	90



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**CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
R1799		0.5	39.1	141	216			76.4	90.1
R1800		0.5	42.4	119	206				89.7
R1801		2.2	9.0	138	53.6	1.655	4.66		
R1802		0.5	42.7	243	215				
R1803		0.4	53.3	142	212				
R1804		0.5	51.6	218	219				
R1805		0.5	50.6	111	189.5				
R1806		0.5	42.5	130	199.0				
R1807		0.5	44.7	244	155.0				
R1808		0.5	32.5	503	180.5				
R1809		0.6	37.9	850	186.0				
R1810		0.6	36.9	675	174.0				
R1811		0.5	35.7	552	164.0				
R1812		0.6	34.6	327	164.0				
R1813		7.6	27.1	140	140.5				
R1814		0.7	31.8	114	128.5				
R1815		0.5	28.1	77	117.0				
R1816		0.3	20.4	68	109.0				
R1817		0.5	27.6	235	140.5				
R1818		0.5	27.4	697	139.5				
R1819		0.5	26.7	597	159.0				
R1820		0.4	35.4	773	163.0				
R1821		2.0	8.6	142	48.1	1.655	4.64		
R1822		0.4	23.7	176	105.5				
R1823		0.3	14.0	92	56.8				
R1824		0.5	28.3	46	251				
R1825		<0.1	2.0	5	1.6				
R1826		0.3	16.2	89	59.9				
R1827		0.3	16.6	80	46.4				
R1828		0.5	21.1	49	121.5				
R1829		0.4	24.7	12	137.5				



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**CERTIFICATE OF ANALYSIS SD21065028**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 33%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



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**QC CERTIFICATE SD21065028**

Project: Shining Tree-STR21-011  
 P.O. No.: STR21-011  
 This report is for 31 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	

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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		<b>STANDARDS</b>														
EMOG-17		69.0	4.71	607	220	2.03	5.33	1.99	20.9	49.8	776	58	7.69	8480	4.95	12.15
Target Range - Lower Bound		60.9	4.18	522	310	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	440	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		0.09	7.81	5.6	570	2.73	0.62	0.51	0.07	98.6	14.6	87	8.47	116.0	4.20	19.75
Target Range - Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-134b																
Target Range - Lower Bound																
Upper Bound																
OREAS-74a																
Target Range - Lower Bound																
Upper Bound																
		<b>BLANKS</b>														
BLANK		<0.01	<0.01	0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
EMOG-17		0.15	1.8	0.960	1.66	25.5	27.0	0.96	764	1105	1.12	15.1	7800	840	7480	117.0
Target Range – Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
EMOG-17																
Target Range – Lower Bound																
Upper Bound																
OREAS 920		0.14	4.5	0.091	2.87	49.9	27.6	1.35	614	0.39	0.65	18.1	41.3	770	23.6	173.5
Target Range – Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS 932																
Target Range – Lower Bound																
Upper Bound																
OREAS-133a																
Target Range – Lower Bound																
Upper Bound																
OREAS-134b																
Target Range – Lower Bound																
Upper Bound																
OREAS-74a																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																





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Project: Shining Tree-STR21-011

**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm
<b>STANDARDS</b>																
EMOG-17		0.329	3.34	812	8.0	7	2.6	211	0.88	1.41	12.50	0.329	2.09	2.9	75	3.8
Target Range - Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		<0.002	0.03	1.55	13.0	1	5.0	82.3	1.33	<0.05	20.6	0.480	0.92	3.6	100	3.0
Target Range - Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
OREAS-133a																
Target Range - Lower Bound																
Upper Bound																
OREAS-134b																
Target Range - Lower Bound																
Upper Bound																
OREAS-74a																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range - Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62
		Y ppm	Zn ppm	Zr ppm	Cu %	Ni %
		0.1	2	0.5	0.001	0.001
<b>STANDARDS</b>						
EMOG-17		17.5	7660	69.2		
Target Range - Lower Bound		14.3	6800	55.6		
Upper Bound		17.7	8320	76.4		
EMOG-17					0.849	0.770
Target Range - Lower Bound					0.803	0.730
Upper Bound					0.863	0.785
OREAS 920		34.3	123	159.0		
Target Range - Lower Bound		29.8	102	128.0		
Upper Bound		36.6	130	174.0		
OREAS 932					6.18	0.003
Target Range - Lower Bound					5.91	
Upper Bound					6.35	
OREAS-133a					0.041	0.002
Target Range - Lower Bound					0.030	<0.001
Upper Bound					0.034	0.004
OREAS-134b					0.137	0.002
Target Range - Lower Bound					0.129	<0.001
Upper Bound					0.141	0.004
OREAS-74a					0.122	3.10
Target Range - Lower Bound						3.03
Upper Bound						3.25
<b>BLANKS</b>						
BLANK		<0.1	<2	<0.5		
Target Range - Lower Bound		<0.1	<2	<0.5		
Upper Bound		0.2	4	1.0		
BLANK					<0.001	<0.001
Target Range - Lower Bound					<0.001	<0.001
Upper Bound					0.002	0.002



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Project: Shining Tree-STR21-011

**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
Analyte	Units	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
LOD		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
R1805		0.16	5.21	15.9	90	3.72	0.17	3.42	0.02	48.8	26.8	5	5.18	94.3	10.25	19.30
DUP		0.19	5.38	16.6	90	3.35	0.19	3.56	0.03	48.5	27.5	6	5.25	99.2	10.60	20.2
Target Range - Lower Bound		0.16	5.02	15.2	70	3.31	0.16	3.31	<0.02	46.2	25.7	4	4.90	93.2	9.89	18.70
Upper Bound		0.19	5.57	17.3	110	3.76	0.20	3.67	0.04	51.1	28.6	7	5.53	100.5	10.95	20.8

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<b>QC CERTIFICATE OF ANALYSIS SD21065028</b>
--

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
R1805 DUP Target Range - Lower Bound Upper Bound	0.10 0.10 <0.05 0.16	5.0 5.2 4.7 5.5	0.322 0.317 0.299 0.340	0.37 0.38 0.35 0.40	19.9 20.1 18.5 21.5	27.4 25.1 24.7 27.8	1.75 1.81 1.68 1.88	1420 1480 1375 1530	1.15 1.21 1.07 1.29	2.51 2.57 2.40 2.68	9.2 9.4 8.7 9.9	1.4 1.1 1.0 1.5	1940 2000 1860 2080	18.8 18.8 17.4 20.2	16.5 17.3 16.0 17.8	

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**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
R1805		<0.002	0.05	0.27	18.3	<1	1.3	44.4	0.65	<0.05	6.36	0.657	0.09	2.1	4	0.5
DUP		<0.002	0.05	0.27	19.5	<1	1.3	46.8	0.68	<0.05	6.46	0.672	0.08	2.1	4	0.5
Target Range - Lower Bound		<0.002	0.04	0.20	17.9	<1	1.0	43.1	0.58	<0.05	6.08	0.626	0.06	1.9	3	0.4
Upper Bound		0.004	0.06	0.34	19.9	2	1.6	48.1	0.75	0.10	6.74	0.703	0.11	2.3	5	0.6



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**QC CERTIFICATE OF ANALYSIS SD21065028**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001
<b>DUPLICATES</b>						
ORIGINAL					1.035	
DUP					1.030	0.002
Target Range - Lower Bound					1.005	<0.001
Upper Bound					1.060	0.003
R1805		50.6	111	189.5		
DUP		51.7	116	201		
Target Range - Lower Bound		48.5	106	180.0		
Upper Bound		53.8	121	210		



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**QC CERTIFICATE OF ANALYSIS SD21065028**

CERTIFICATE COMMENTS									
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table border="0"> <tr> <td>CRU-31</td> <td>CRU-QC</td> <td>LOG-22</td> <td>LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table border="0"> <tr> <td>Cu-OG62</td> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



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 26-APR-2021  
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**CERTIFICATE SD21065031**

Project: Shining Tree-STR21-011 AU  
 P.O. No.: STR21-011  
 This report is for 6 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	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:   
 Saa Traxler, General Manager, North Vancouver





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**CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
R1834		2.01	<0.01	9.41	1.0	150	1.34	0.01	0.75	<0.02	87.8	5.2	121	0.28	1.9	2.43
R1835		2.02	<0.01	9.41	1.0	240	1.70	0.01	0.41	<0.02	72.2	7.4	121	0.66	2.0	3.13
R1836		1.89	<0.01	10.15	1.0	260	1.70	0.01	0.84	<0.02	79.3	8.0	148	0.72	1.0	3.90
R1837		2.14	<0.01	9.80	1.1	170	1.68	0.01	0.46	<0.02	81.5	8.2	135	0.33	1.2	2.56
R1838		1.87	<0.01	9.81	2.3	170	1.65	0.01	0.71	<0.02	101.0	6.7	137	0.39	1.5	3.02
R1839		0.12	4.24	5.47	14.1	110	0.54	0.90	3.43	2.10	17.70	967	254	0.82	>10000	18.40

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**CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
R1834		21.2	0.11	4.4	0.011	0.62	44.0	16.3	0.96	103	0.45	6.78	7.2	60.2	970	2.3
R1835		24.9	0.13	4.3	0.019	1.64	35.5	16.4	1.07	75	0.22	5.13	7.9	70.3	940	2.4
R1836		23.8	0.15	4.5	0.015	1.62	37.3	17.0	1.25	109	0.23	5.88	6.8	68.7	960	2.2
R1837		20.5	0.12	4.2	0.010	0.63	39.9	17.1	1.12	94	0.27	7.02	7.5	65.0	940	2.8
R1838		20.7	0.16	4.4	0.013	0.83	49.5	15.0	1.01	97	0.26	6.85	8.2	60.5	920	2.4
R1839		12.15	0.44	1.4	0.127	0.32	8.2	9.7	4.01	999	5.01	1.21	5.4	>10000	480	14.6



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Project: Shining Tree-STR21-011 AU

<b>CERTIFICATE OF ANALYSIS SD21065031</b>
---

Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
					ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
					0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
R1834					25.5	<0.002	<0.01	0.39	17.7	1	1.4	78.7	0.70	<0.05	17.60	0.293	0.06	3.7	95
R1835					55.5	<0.002	<0.01	0.30	18.0	1	0.8	68.4	0.78	<0.05	16.95	0.324	0.18	4.3	135
R1836					48.2	<0.002	<0.01	0.25	18.0	<1	0.9	53.6	0.69	<0.05	15.90	0.293	0.16	4.8	156
R1837					23.5	<0.002	<0.01	0.35	16.8	<1	1.4	91.5	0.72	<0.05	16.75	0.309	0.08	4.2	113
R1838					30.6	<0.002	0.01	0.39	17.6	1	1.3	86.5	0.81	<0.05	18.10	0.336	0.09	4.7	123
R1839					11.8	0.053	8.47	3.45	9.1	23	2.6	181.0	0.34	4.47	1.12	0.532	0.17	0.4	79



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<b>CERTIFICATE OF ANALYSIS SD21065031</b>
---

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Cu-OG62 Cu %	Ni-OG62 Ni %	Au-ICP21 Au ppm	CRU-QC Pass2mm %	PUL-QC Pass75um %
R1834		0.4	17.7	5	143.5			<0.001	78.3	93.6
R1835		0.4	17.0	5	142.0			<0.001		95.3
R1836		0.7	19.4	5	145.5			<0.001		
R1837		0.9	17.8	6	144.0			<0.001		
R1838		0.9	19.9	4	147.0			<0.001		
R1839		2.7	10.0	142	54.6	1.650	4.73	0.250		

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



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**CERTIFICATE OF ANALYSIS SD21065031**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Au-ICP21	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62			
Au-ICP21	Cu-OG62	ME-MS61	ME-OG62						
Ni-OG62									



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**QC CERTIFICATE SD21065031**

Project: Shining Tree-STR21-011 AU  
 P.O. No.: STR21-011  
 This report is for 6 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18-MAR-2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login – Rcd w/o Barcode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login – Rcd w/o BarCode
CRU-31	Fine crushing – 70% <2mm
SPL-21	Split sample – riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements – Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu – Four Acid	
Ni-OG62	Ore Grade Ni – Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	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:   
 Saa Traxler, General Manager, North Vancouver



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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.44	4.36	6730	230	0.78	0.08	6.46	0.96	43.8	8.9	56	7.07	26.2	2.97	11.05
Target Range – Lower Bound		0.41	4.02	6260	180	0.68	0.08	5.35	0.86	38.6	8.5	51	6.25	25.0	2.69	9.76
Upper Bound		0.53	4.94	7660	260	0.96	0.13	6.57	1.10	47.2	10.6	65	7.75	29.2	3.31	12.05
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		4.72	7.90	34.8	1140	3.30	0.69	2.77	2.37	77.6	20.8	97	13.20	631	4.17	20.3
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.54	7.31	35.5	2740	2.82	5.76	0.59	0.32	91.2	14.8	19	6.89	1465	4.05	24.9
Target Range – Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
PK03																
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
PMP-18																



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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.08	4.0	0.048	1.05	23.2	19.8	2.90	455	3.99	0.03	5.2	48.8	350	11.5	49.4
Target Range – Lower Bound		<0.05	3.6	0.038	0.89	19.4	17.8	2.47	388	3.97	<0.01	4.4	43.6	300	11.9	45.9
Upper Bound		0.21	4.6	0.063	1.11	24.8	22.2	3.05	486	4.97	0.05	5.6	53.8	380	15.7	56.3
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.23	3.6	0.183	3.27	37.7	35.0	1.41	578	16.10	2.07	22.3	736	1110	1180	204
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		0.15	7.3	0.666	2.86	47.5	19.8	0.26	372	3.16	2.43	17.6	9.5	270	31.1	137.5
Target Range – Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
PMP-18																

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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
<b>STANDARDS</b>																
AMIS0160																
Target Range – Lower Bound																
Upper Bound																
CCU-1e																
Target Range – Lower Bound																
Upper Bound																
DS-1		0.002	2.70	100.0	9.1	1	1.9	82.4	0.55	0.09	4.55	0.259	19.40	2.4	146	32.8
Target Range – Lower Bound		<0.002	2.38	83.9	8.0	<1	1.5	69.1	0.38	<0.05	3.88	0.229	17.00	2.2	125	27.5
Upper Bound		0.007	2.94	113.5	10.0	4	2.5	84.9	0.63	0.18	4.76	0.291	23.0	2.9	155	37.5
GBM903-13																
Target Range – Lower Bound																
Upper Bound																
MP-1b																
Target Range – Lower Bound																
Upper Bound																
MRGeo08		0.012	0.32	4.94	12.6	2	4.4	317	1.76	<0.05	20.9	0.520	1.12	5.8	113	5.3
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 621																
Target Range – Lower Bound																
Upper Bound																
OREAS 682																
OREAS 682																
Target Range – Lower Bound																
Upper Bound																
OREAS 905		<0.002	0.07	2.09	4.9	3	4.0	156.5	1.42	0.09	15.40	0.119	0.77	4.8	10	2.9
Target Range – Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS-76a																
Target Range – Lower Bound																
Upper Bound																
PK03																
PK03																
Target Range – Lower Bound																
Upper Bound																
PMP-18																
PMP-18																



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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	Au-ICP21
		Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Au ppm
		0.1	2	0.5	0.001	0.001	0.001
<b>STANDARDS</b>							
AMIS0160					2.01	0.004	
Target Range – Lower Bound					1.970	<0.001	
Upper Bound					2.11	0.005	
CCU-1e					23.2	0.001	
Target Range – Lower Bound					22.1		
Upper Bound					23.7		
DS-1		25.1	220	152.0			
Target Range – Lower Bound		22.2	195	137.0			
Upper Bound		27.3	243	186.5			
GBM903-13					2.87	2.46	
Target Range – Lower Bound					2.79	2.35	
Upper Bound					3.00	2.52	
MP-1b					3.00	0.001	
Target Range – Lower Bound					2.96	<0.001	
Upper Bound					3.18	0.002	
MRGeo08		28.2	833	114.0			
Target Range – Lower Bound		23.8	722	92.2			
Upper Bound		29.3	886	126.0			
OREAS 621					0.359	0.005	
Target Range – Lower Bound					0.349	<0.001	
Upper Bound					0.377	0.005	
OREAS 682							0.076
Target Range – Lower Bound							0.080
Upper Bound							
OREAS 905		16.4	138	258			
Target Range – Lower Bound		14.0	122	214			
Upper Bound		17.4	154	290			
OREAS-76a					0.288	7.06	
Target Range – Lower Bound					0.274	7.03	
Upper Bound					0.296	7.55	
PK03							5.37
Target Range – Lower Bound							5.25
Upper Bound							4.73
PMP-18							0.305
Target Range – Lower Bound							0.310
Upper Bound							



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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
<b>STANDARDS</b>																
Target Range – Lower Bound																
Upper Bound																
SJ95																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	0.06
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
BLANK																
Target Range – Lower Bound																
Upper Bound																
<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 SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
<b>STANDARDS</b>																
Target Range – Lower Bound																
Upper Bound																
SJ95																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<0.05	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																



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 Finalized Date: 14-APR-2021  
 Account: BMRPLLBW

**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
<b>STANDARDS</b>																
Target Range – Lower Bound																
Upper Bound																
SJ95																
SJ95																
Target Range – Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.002	<0.01	<0.05	<0.1	1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Target Range – Lower Bound		<0.002	<0.01	<0.05	<0.1	<1	<0.2	<0.2	<0.05	<0.05	<0.01	<0.005	<0.02	<0.1	<1	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
BLANK																
Target Range – Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range – Lower Bound																
Upper Bound																

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 Account: BMRPLLBW

**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	Au-ICP21 Au ppm 0.001
<b>STANDARDS</b>							
Target Range – Lower Bound							0.289
Upper Bound							0.327
SJ95							2.81
SJ95							2.80
Target Range – Lower Bound							2.63
Upper Bound							2.97
<b>BLANKS</b>							
BLANK							<0.001
BLANK							0.003
Target Range – Lower Bound							<0.001
Upper Bound							0.002
BLANK		<0.1	<2	<0.5			
Target Range – Lower Bound		<0.1	<2	<0.5			
Upper Bound		0.2	4	1.0			
BLANK					<0.001	<0.001	
Target Range – Lower Bound					<0.001	<0.001	
Upper Bound					0.002	0.002	
<b>DUPLICATES</b>							
ORIGINAL							0.001
DUP							<0.001
Target Range – Lower Bound							<0.001
Upper Bound							0.002
ORIGINAL							<0.001
DUP							<0.001
Target Range – Lower Bound							<0.001
Upper Bound							0.002



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 Account: BMRPLLBW

**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
ORIGINAL DUP Target Range - Lower Bound Upper Bound		<b>DUPLICATES</b>														
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.09	1.59	2.2	190	0.32	0.03	29.0	0.10	22.4	2.4	9	0.88	4.2	0.53	3.85
DUP		0.05	1.62	2.5	190	0.29	0.03	30.1	0.09	23.1	2.4	9	0.91	4.1	0.55	3.96
Target Range - Lower Bound		0.06	1.51	2.0	170	0.24	0.02	28.1	0.07	21.6	2.2	8	0.80	3.8	0.50	3.66
Upper Bound		0.08	1.70	2.7	210	0.37	0.04	31.0	0.12	23.9	2.6	10	0.99	4.5	0.58	4.15

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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1
ORIGINAL DUP Target Range – Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound																
ORIGINAL DUP Target Range – Lower Bound Upper Bound	0.08 0.10	0.8 0.8	0.010 0.007	1.10 1.10	9.2 9.6	6.7 7.4	2.15 2.22	143 145	0.27 0.24	0.26 0.27	2.0 2.0	4.6 4.8	350 370	7.7 7.2	26.4 28.1	
Target Range – Lower Bound Upper Bound	<0.05 0.10	0.7 0.9	<0.005 0.010	1.04 1.17	8.4 10.4	6.5 7.6	2.07 2.30	132 156	0.19 0.32	0.24 0.29	1.8 2.2	4.3 5.1	330 390	6.6 8.3	25.8 28.7	

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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<0.002	0.10	0.15	2.1	1	0.3	250	0.12	<0.05	1.58	0.070	0.10	0.5	10	0.1	
DUP	<0.002	0.10	0.12	2.1	1	0.3	260	0.12	<0.05	1.68	0.071	0.10	0.5	11	0.1	
Target Range - Lower Bound	<0.002	0.09	0.07	1.9	<1	<0.2	242	0.06	<0.05	1.54	0.062	0.07	0.4	9	<0.1	
Upper Bound	0.004	0.12	0.20	2.3	2	0.4	268	0.18	0.10	1.72	0.079	0.13	0.6	12	0.2	

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**QC CERTIFICATE OF ANALYSIS SD21065031**

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	Au-ICP21 Au ppm 0.001
<b>DUPLICATES</b>							
ORIGINAL							0.042
DUP							0.046
Target Range - Lower Bound							0.041
Upper Bound							0.047
ORIGINAL							0.012
DUP							0.013
Target Range - Lower Bound							0.011
Upper Bound							0.014
ORIGINAL							<0.001
DUP							<0.001
Target Range - Lower Bound							<0.001
Upper Bound							0.002
ORIGINAL							<0.001
DUP							<0.001
Target Range - Lower Bound							<0.001
Upper Bound							0.002
ORIGINAL					1.265		
DUP					1.200		
Target Range - Lower Bound					1.200		
Upper Bound					1.265		
ORIGINAL		7.8	37	27.9			
DUP		8.1	37	31.6			
Target Range - Lower Bound		7.5	33	27.0			
Upper Bound		8.4	41	32.5			



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Account: BMRPLLBW

Project: Shining Tree-STR21-011 AU

**QC CERTIFICATE OF ANALYSIS SD21065031**

### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.  
ME-MS61

#### LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	PUL-31	PUL-QC	SPL-21	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	Cu-OG62	ME-MS61	ME-OG62
	Ni-OG62			



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 Account: BMRPLLBW

**CERTIFICATE SD21065036**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–011  
 This report is for 2 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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:   
 Saa Traxler, General Manager, North Vancouver





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**CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Ge ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
R1828		0.40	0.07	238	59.8	150	0.99	3.95	2.19	1.25	23.1	4.28	<5	3.2	0.79	30.3
R1829		0.45	<0.01	67.8	106.5	160	0.24	4.92	2.62	1.49	19.0	5.46	<5	3.8	1.00	51.8



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**CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	
	Analyte	Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
R1828		0.28	7.9	25.0	6.96	42.4	5.05	1	124.5	0.7	0.71	12.40	0.30	3.73	186	1
R1829		0.34	10.1	37.6	10.70	26.3	6.75	2	35.6	0.9	0.89	15.85	0.37	3.94	103	1

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



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
R1828		18.3	1.98	123	1.5	0.05	0.006	0.024	0.001	0.12	0.3	0.02	0.03	<0.5	<0.5	29
R1829		23.6	2.60	144	0.4	<0.01	<0.005	0.011	<0.001	0.06	<0.2	<0.01	0.02	<0.5	<0.5	7





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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21065036**

		ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
Sample Description	Method Analyte Units LOD	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm
		1	10	1	1	2	1	2
R1828		404	50	1	89	15	20	59
R1829		4	20	<1	55	2	16	15



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Project: Shining Tree–March–21 Red Bed

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Account: BMRPLLBW

**CERTIFICATE OF ANALYSIS SD21065036**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06

ME-ICP06  
S-IR08



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**QC CERTIFICATE SD21065036**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–011  
 This report is for 2 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>STANDARDS</b>																
AMIS0167		91.5	2.45	3.37	0.13	0.23	0.09	0.49	0.058	0.14	0.02	0.04	<0.01	0.01		100.15
Target Range – Lower Bound		89.6	2.29	3.28	0.10	0.21	0.06	0.45	0.049	0.12	<0.01	<0.01	<0.01	<0.01		97.99
Upper Bound		93.3	2.55	3.62	0.16	0.27	0.12	0.55	0.067	0.18	0.04	0.05	0.02	0.02		>102.00
AMIS0461															38.9	
Target Range – Lower Bound															36.9	
Upper Bound															40.9	
AMIS0571															3.22	
Target Range – Lower Bound															3.18	
Upper Bound															3.54	
DS-1																
Target Range – Lower Bound																
Upper Bound																
GS313-8																
Target Range – Lower Bound																
Upper Bound																
MGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146		20.3	3.06	28.6	17.05	6.90	0.33	1.27	0.026	1.43	2.40	0.57	0.38	1.51		93.18
Target Range – Lower Bound		19.50	2.82	27.5	16.75	6.59	0.26	1.19	0.017	1.35	2.30	0.49	0.33	1.39		97.99
Upper Bound		20.7	3.12	29.1	17.85	7.15	0.34	1.37	0.031	1.53	2.56	0.59	0.41	1.59		>102.00
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4		49.4	20.7	6.12	7.84	0.51	7.29	1.62	0.002	0.28	0.10	0.13	0.14	0.04		98.73
Target Range – Lower Bound		48.7	20.1	5.95	7.74	0.49	6.81	1.56	<0.002	0.25	0.08	0.10	0.11	<0.01		97.99
Upper Bound		51.1	21.3	6.47	8.36	0.59	7.39	1.76	0.005	0.32	0.13	0.16	0.17	0.06		>102.00

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Sample Description	Method Analyte Units LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La
		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	
<b>STANDARDS</b>																
AMIS0167				78.9	40.8	430	0.99	5.65	3.05	0.68	3.1	4.42	<5	2.3	1.13	21.7
Target Range – Lower Bound																
Upper Bound																
AMIS0461																
Target Range – Lower Bound																
Upper Bound																
AMIS0571																
Target Range – Lower Bound																
Upper Bound																
DS-1		3.13	2.62													
Target Range – Lower Bound		3.01	2.51													
Upper Bound		3.25	2.71													
GS313-8		0.92	1.26													
Target Range – Lower Bound		0.90	1.19													
Upper Bound		0.98	1.29													
MGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146				>10000	4550	190	0.47	217	83.3	122.5	27.2	346	5	3.9	38.1	2470
Target Range – Lower Bound				11450	4220	160	0.47	202	78.3	114.5	26.2	323	<5	3.7	33.1	2260
Upper Bound				>10000	5160	220	0.59	246	95.7	139.5	32.2	395	15	4.7	40.5	2760
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4				314	119.0	10	1.42	18.45	14.35	1.91	35.1	12.70	<5	10.1	4.56	53.4
Target Range – Lower Bound				306	109.5	<10	1.34	16.35	12.75	1.78	33.1	12.55	<5	9.9	3.86	52.1
Upper Bound				375	134.5	30	1.66	20.1	15.65	2.22	40.7	15.45	12	12.3	4.74	63.9



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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
<b>STANDARDS</b>																
AMIS0167		0.28	4.2	16.9	4.79	15.3	4.14	1	17.6	1.5	0.95	45.8	0.41	457	65	1
Target Range – Lower Bound																
Upper Bound																
AMIS0461																
Target Range – Lower Bound																
Upper Bound																
AMIS0571																
Target Range – Lower Bound																
Upper Bound																
DS-1																
Target Range – Lower Bound																
Upper Bound																
GS313-8																
Target Range – Lower Bound																
Upper Bound																
MRGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146		6.21	404	2200	553	24.1	430	41	3030	3.8	46.3	907	9.83	2.51	156	26
Target Range – Lower Bound		5.66	349	1965	493	23.7	397	40	2790	3.6	42.5	813	8.90	2.37	140	25
Upper Bound		6.94	427	2400	603	29.5	485	52	3410	4.6	51.9	993	10.90	3.01	182	33
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4		2.04	13.3	51.6	13.60	49.4	12.05	7	1150	0.7	2.70	1.10	2.28	0.67	9	<1
Target Range – Lower Bound		1.88	11.6	51.2	13.50	49.3	11.40	6	1070	0.7	2.33	1.11	2.06	0.66	<5	<1
Upper Bound		2.32	14.4	62.8	16.50	60.7	14.00	10	1310	1.1	2.87	1.47	2.54	0.94	18	3

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Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm
<b>STANDARDS</b>															
AMIS0167		22.1	2.57	96											
Target Range – Lower Bound															
Upper Bound															
AMIS0461															
Target Range – Lower Bound															
Upper Bound															
AMIS0571															
Target Range – Lower Bound															
Upper Bound															
DS-1															
Target Range – Lower Bound															
Upper Bound															
GS313-8															
Target Range – Lower Bound															
Upper Bound															
MGeo08													4.2	2.1	20
Target Range – Lower Bound													3.2	1.1	17
Upper Bound													5.6	3.4	23
OREAS 146		896	52.1	240											
Target Range – Lower Bound		814	48.1	204											
Upper Bound		996	58.9	254											
OREAS 602													>100	26.1	10
Target Range – Lower Bound													107.5	21.7	7
Upper Bound													100.0	27.7	12
OREAS 920					5.0	0.76	<0.005	0.030	<0.001	0.69	0.3	0.02	0.16		
Target Range – Lower Bound					4.2	0.60	<0.005	0.019	<0.001	0.45	<0.2	<0.01	0.09		
Upper Bound					5.4	0.76	0.010	0.043	0.002	0.77	0.6	0.04	0.20		
OREAS-45d					7.0	0.28	0.039	0.080	<0.001	0.38	1.1	0.06	0.13		
Target Range – Lower Bound					5.8	0.26	0.025	0.071	<0.001	0.22	0.7	0.02	0.07		
Upper Bound					7.3	0.34	0.053	0.099	0.003	0.49	1.7	0.06	0.17		
SY-4		117.5	15.05	588											
Target Range – Lower Bound		107.0	13.30	543											
Upper Bound		131.0	16.30	668											



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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Cu	Li	Mo	Ni	Pb	Sc
		ppm	ppm	ppm	ppm	ppm	ppm
		1	10	1	1	2	1
							Zn
							2
<b>STANDARDS</b>							
AMIS0167	Target Range – Lower Bound						
	Upper Bound						
AMIS0461	Target Range – Lower Bound						
	Upper Bound						
AMIS0571	Target Range – Lower Bound						
	Upper Bound						
DS-1	Target Range – Lower Bound						
	Upper Bound						
GS313-8	Target Range – Lower Bound						
	Upper Bound						
MGeo08		621	30	14	713	1115	11
	Target Range – Lower Bound	586	<10	12	621	969	10
	Upper Bound	676	50	18	761	1190	15
OREAS 146	Target Range – Lower Bound						
	Upper Bound						
OREAS 602		5260	20	4	63	1065	4
	Target Range – Lower Bound	4790	<10	2	53	918	2
	Upper Bound	5510	40	7	67	1125	6
OREAS 920	Target Range – Lower Bound						
	Upper Bound						
OREAS-45d	Target Range – Lower Bound						
	Upper Bound						
SY-4	Target Range – Lower Bound						
	Upper Bound						

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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %	TOT-ICP06 Total %
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound														0.00	
	Upper Bound														<0.01	
BLANK	Target Range – Lower Bound														0.02	
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.01	<0.01	<0.01		0.02
	Upper Bound	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01		
	Upper Bound	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02	0.02	0.02	0.02	0.02		
<b>DUPLICATES</b>																
R1 828		54.2	17.70	8.45	3.68	3.98	5.65	1.66	0.021	0.74	0.06	0.20	0.01	0.03		
DUP		52.0	16.95	8.15	3.55	3.88	5.48	1.60	0.021	0.71	0.06	0.17	0.01	0.03		
Target Range – Lower Bound		51.8	16.90	8.08	3.51	3.82	5.42	1.58	0.018	0.70	0.05	0.17	<0.01	0.02		
Upper Bound		54.4	17.75	8.52	3.72	4.04	5.71	1.68	0.024	0.75	0.07	0.20	0.02	0.04		
R1 829	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 649	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 651	DUP															
Target Range – Lower Bound																
Upper Bound																

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Sample Description	Method Analyte Units LOD	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Ge ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	0.01													
	Upper Bound	<0.01	<0.01													
BLANK	Target Range – Lower Bound			<0.5	<0.1	10	0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<5	<0.1	<0.01	<0.1
	Upper Bound			1.0	0.2	20	0.02	0.10	0.06	0.04	0.2	0.10		0.2	0.02	0.2
<b>DUPLICATES</b>																
R1828				238	59.8	150	0.99	3.95	2.19	1.25	23.1	4.28	<5	3.2	0.79	30.3
DUP				233	57.2	140	1.00	3.62	1.98	1.14	21.8	3.92	<5	3.1	0.76	29.2
Target Range – Lower Bound				223	55.5	130	0.94	3.55	1.95	1.12	21.2	3.85	<5	2.9	0.73	28.2
Upper Bound				248	61.5	160	1.05	4.02	2.22	1.27	23.7	4.36	10	3.4	0.82	31.3
R1829		0.45	<0.01													
DUP		0.45	0.01													
Target Range – Lower Bound		0.43	<0.01													
Upper Bound		0.47	0.02													
R1649																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1651																
DUP																
Target Range – Lower Bound																
Upper Bound																



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Sample Description	Method Analyte Units LOD	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.1	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	<0.1	<0.1	<0.02	<0.2	<0.03	<1	0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<1
	Upper Bound	0.02	0.2	0.2	0.04	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02	0.10	10	2
<b>DUPLICATES</b>																
R1 828		0.28	7.9	25.0	6.96	42.4	5.05	1	124.5	0.7	0.71	12.40	0.30	3.73	186	1
DUP		0.29	7.7	24.3	6.64	40.0	4.79	1	113.5	0.7	0.72	11.75	0.30	3.66	164	1
	Target Range – Lower Bound	0.26	7.3	23.3	6.44	38.9	4.64	<1	113.0	0.6	0.67	11.40	0.28	3.46	161	<1
	Upper Bound	0.31	8.3	26.0	7.16	43.5	5.20	2	125.0	0.8	0.76	12.75	0.33	3.93	189	2
R1 829	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1649	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1651	DUP															
	Target Range – Lower Bound															
	Upper Bound															



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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	
<b>BLANKS</b>																	
BLANK																	
Target Range – Lower Bound														<0.5	<0.5	<1	
Upper Bound														1.0	1.0	2	
BLANK				<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02					
Target Range – Lower Bound				<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02					
Upper Bound				0.2	0.02	0.010	0.010	0.002	0.10	0.4	0.02	0.04					
BLANK																	
Target Range – Lower Bound																	
Upper Bound																	
BLANK		<0.1	<0.03	<2													
Target Range – Lower Bound		<0.1	<0.03	<2													
Upper Bound		0.2	0.06	4													
<b>DUPLICATES</b>																	
R1828		18.3	1.98	123													
DUP		17.5	1.81	116													
Target Range – Lower Bound		16.9	1.77	112													
Upper Bound		18.9	2.02	127													
R1829																	
DUP																	
Target Range – Lower Bound																	
Upper Bound																	
R1649					0.4	0.01	<0.005	0.015	<0.001	0.08	0.2	0.01	0.02				
DUP					0.4	0.01	<0.005	0.013	<0.001	0.09	<0.2	0.01	0.02				
Target Range – Lower Bound					0.3	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	<0.02				
Upper Bound					0.5	0.02	0.010	0.020	0.002	0.10	0.4	0.02	0.04				
R1651														<0.5	<0.5	27	
DUP														<0.5	<0.5	27	
Target Range – Lower Bound														<0.5	<0.5	25	
Upper Bound														1.0	1.0	29	



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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm
		1	10	1	1	2	1	2
<b>BLANKS</b>								
BLANK		<1	<10	<1	1	<2	<1	<2
Target Range – Lower Bound		<1		<1	<1	<2		<2
Upper Bound		2		2	2	4		4
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
<b>DUPLICATES</b>								
R1828 DUP								
Target Range – Lower Bound								
Upper Bound								
R1829 DUP								
Target Range – Lower Bound								
Upper Bound								
R1649 DUP								
Target Range – Lower Bound								
Upper Bound								
R1651		1110	40	<1	112	2	31	35
DUP		1140	40	<1	112	<2	31	34
Target Range – Lower Bound		1085	30	<1	105	<2	28	31
Upper Bound		1165	50	2	119	4	34	38



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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
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ORIGINAL DUP	<b>DUPLICATES</b>														
Target Range - Lower Bound															3.97
Upper Bound															3.98
															3.87
															4.08

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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method	IR07	IR08	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	
Analyte		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La
Units		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1

ORIGINAL	DUPLICATES														
DUP															
Target Range - Lower Bound															
Upper Bound															

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<b>QC CERTIFICATE OF ANALYSIS</b>	<b>SD21065036</b>
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Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81					
					Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	1

ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES
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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81																											
		Y	ppm	0.1	Yb	ppm	0.03	Zr	ppm	2	As	ppm	0.1	Bi	ppm	0.01	Hg	ppm	0.005	In	ppm	0.005	Re	ppm	0.001	Sb	ppm	0.05	Se	ppm	0.2	Te	ppm	0.01	Tl	ppm	0.02	Ag	ppm	0.5	Cd	ppm	0.5	Co	ppm	1

**DUPLICATES**

ORIGINAL  
 DUP  
 Target Range - Lower Bound  
 Upper Bound

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**QC CERTIFICATE OF ANALYSIS SD21065036**

Sample Description	Method	Analyte	Units	LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu	ppm	1		Li	ppm	10		Mo	ppm	1
						Ni	ppm	1		Pb	ppm	2
										Sc	ppm	1
										Zn	ppm	2

ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>
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**QC CERTIFICATE OF ANALYSIS SD21065036**

### CERTIFICATE COMMENTS

#### LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06

ME-ICP06  
S-IR08



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**CERTIFICATE SD21086887**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–007  
 This report is for 8 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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.

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Signature:   
 Saa Traxler, General Manager, North Vancouver



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**CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
R1648		55.0	16.95	7.17	4.41	3.27	6.50	1.26	0.020	0.77	0.09	0.16	0.01	0.02	4.27	99.90
R1649		60.4	19.35	4.96	1.71	1.79	9.19	1.13	0.026	0.73	0.03	0.23	<0.01	0.01	2.41	101.97
R1650		58.3	19.35	5.26	2.38	2.25	4.85	3.81	0.025	0.74	0.03	0.21	<0.01	0.04	3.87	101.12
R1651		49.8	16.15	9.29	4.98	4.92	6.24	0.56	0.019	0.79	0.13	0.08	<0.01	<0.01	6.34	99.30
R1652		60.5	18.90	2.98	2.21	1.20	9.69	0.70	0.027	0.71	0.03	0.11	<0.01	<0.01	2.45	99.51
R1653		59.0	18.05	3.39	3.83	1.07	9.51	0.69	0.025	0.68	0.07	0.14	<0.01	0.01	3.93	100.40
R1654		60.1	18.05	2.56	4.50	0.57	9.84	0.69	0.027	0.69	0.06	0.41	<0.01	<0.01	3.58	101.08
R1655		56.9	17.15	2.15	7.14	0.54	9.41	0.49	0.022	0.63	0.06	0.17	<0.01	<0.01	6.02	100.68

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Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La
		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1
R1648		0.65	0.03	152.5	53.8	140	1.11	3.74	1.97	1.20	19.9	4.17	<5	2.6	0.75	28.1
R1649		0.28	<0.01	117.0	80.7	190	0.38	3.48	1.73	1.46	22.2	4.55	<5	3.9	0.67	40.4
R1650		0.44	0.01	366	96.0	170	1.42	3.93	2.07	1.54	28.3	5.02	<5	3.7	0.81	45.8
R1651		1.03	0.12	41.4	25.4	130	1.27	3.06	1.91	0.87	25.5	2.92	<5	2.1	0.72	15.7
R1652		0.43	0.04	30.9	37.4	200	0.48	2.88	1.69	0.90	20.2	3.11	<5	3.6	0.64	19.1
R1653		0.88	0.01	51.0	91.9	190	0.40	4.41	2.50	1.86	18.9	5.65	<5	3.7	0.94	45.2
R1654		0.92	0.23	37.5	85.1	200	0.40	5.35	2.59	1.94	19.6	6.46	<5	3.9	1.06	40.2
R1655		1.51	0.05	32.7	75.9	150	0.31	4.01	2.10	1.49	17.4	4.69	<5	3.3	0.81	38.5

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**CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	ME–MS81	
		Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
R1648		0.25	6.7	23.0	6.21	35.1	4.44	1	70.4	0.6	0.71	9.17	0.26	2.46	213	1
R1649		0.26	10.8	32.1	8.94	28.9	6.03	1	53.7	1.0	0.70	16.35	0.27	3.28	166	2
R1650		0.29	10.7	36.2	10.05	100.0	6.63	1	35.2	0.9	0.78	16.60	0.28	4.70	182	2
R1651		0.27	4.9	11.1	2.90	24.9	2.63	1	45.4	0.4	0.54	5.67	0.28	3.25	252	1
R1652		0.27	10.6	16.6	4.49	44.9	3.58	2	34.7	1.0	0.52	14.80	0.26	3.15	97	2
R1653		0.34	10.0	36.1	9.76	38.7	6.96	2	47.2	0.9	0.89	15.65	0.37	3.21	117	1
R1654		0.31	10.7	34.4	9.31	39.1	7.67	2	38.7	0.9	1.04	15.70	0.37	3.17	127	2
R1655		0.26	8.7	31.0	8.40	23.9	5.85	1	37.5	0.8	0.75	14.10	0.30	2.20	93	1

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**CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
R1648		16.2	1.67	98	1.3	0.11	0.005	0.030	<0.001	0.12	<0.2	0.01	0.07	<0.5	<0.5	24
R1649		15.0	1.71	142	0.4	0.01	<0.005	0.015	<0.001	0.08	0.2	0.01	0.02	<0.5	<0.5	7
R1650		17.8	2.01	143	0.5	0.01	<0.005	0.017	<0.001	0.09	<0.2	0.01	0.04	<0.5	<0.5	10
R1651		16.2	1.94	81	0.4	0.26	<0.005	0.073	<0.001	0.11	0.3	0.02	<0.02	<0.5	<0.5	27
R1652		14.8	1.81	140	0.4	0.04	<0.005	0.021	<0.001	0.09	<0.2	0.05	0.02	<0.5	<0.5	7
R1653		22.0	2.35	140	0.4	0.01	<0.005	0.045	<0.001	0.07	<0.2	<0.01	0.02	<0.5	<0.5	4
R1654		25.4	2.37	149	0.7	0.06	<0.005	0.062	<0.001	0.09	0.6	0.01	0.02	<0.5	<0.5	6
R1655		19.3	1.87	125	0.4	0.02	0.005	0.050	<0.001	0.07	0.3	0.01	0.02	<0.5	<0.5	3

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





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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed  
**CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	1	1	2	1	2
R1648		124	50	<1	93	9	25	37
R1649		5	20	<1	68	4	18	9
R1650		95	30	<1	76	7	20	10
R1651		1110	40	<1	112	2	31	35
R1652		470	20	<1	44	3	17	12
R1653		132	10	<1	33	6	18	11
R1654		2250	<10	<1	18	2	15	4
R1655		543	10	<1	18	<2	15	5



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Project: Shining Tree–March–21 Red Bed

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**CERTIFICATE OF ANALYSIS SD21086887**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06

ME-ICP06  
S-IR08



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**QC CERTIFICATE SD21086887**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–007  
 This report is for 8 samples of Drill Core submitted to our lab in Sudbury, ON,  
 Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06	
		SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %			
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
<b>STANDARDS</b>																			
AMIS0167		91.5	2.45	3.37	0.13	0.23	0.09	0.49	0.058	0.14	0.02	0.04	<0.01	0.01					100.15
Target Range – Lower Bound		89.6	2.29	3.28	0.10	0.21	0.06	0.45	0.049	0.12	<0.01	<0.01	<0.01	<0.01					97.99
Upper Bound		93.3	2.55	3.62	0.16	0.27	0.12	0.55	0.067	0.18	0.04	0.05	0.02	0.02					>102.00
AMIS0461																		38.9	
Target Range – Lower Bound																		36.9	
Upper Bound																		40.9	
AMIS0571																		3.22	
Target Range – Lower Bound																		3.18	
Upper Bound																		3.54	
DS-1																			
Target Range – Lower Bound																			
Upper Bound																			
GS313-8																			
Target Range – Lower Bound																			
Upper Bound																			
MGeo08																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS 146		20.3	3.06	28.6	17.05	6.90	0.33	1.27	0.026	1.43	2.40	0.57	0.38	1.51					93.18
Target Range – Lower Bound		19.50	2.82	27.5	16.75	6.59	0.26	1.19	0.017	1.35	2.30	0.49	0.33	1.39					97.99
Upper Bound		20.7	3.12	29.1	17.85	7.15	0.34	1.37	0.031	1.53	2.56	0.59	0.41	1.59					>102.00
OREAS 602																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS 920																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS-45d																			
Target Range – Lower Bound																			
Upper Bound																			
SY-4		49.4	20.7	6.12	7.84	0.51	7.29	1.62	0.002	0.28	0.10	0.13	0.14	0.04					98.73
Target Range – Lower Bound		48.7	20.1	5.95	7.74	0.49	6.81	1.56	<0.002	0.25	0.08	0.10	0.11	<0.01					97.99
Upper Bound		51.1	21.3	6.47	8.36	0.59	7.39	1.76	0.005	0.32	0.13	0.16	0.17	0.06					>102.00

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**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81		
		C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	La ppm	
		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1	
<b>STANDARDS</b>																	
AMIS0167				78.9	40.8	430	0.99	5.65	3.05	0.68	3.1	4.42	<5	2.3	1.13	21.7	
Target Range - Lower Bound																	
Upper Bound																	
AMIS0461																	
Target Range - Lower Bound																	
Upper Bound																	
AMIS0571																	
Target Range - Lower Bound																	
Upper Bound																	
DS-1		3.13	2.62														
Target Range - Lower Bound		3.01	2.51														
Upper Bound		3.25	2.71														
GS313-8		0.92	1.26														
Target Range - Lower Bound		0.90	1.19														
Upper Bound		0.98	1.29														
MGeo08																	
Target Range - Lower Bound																	
Upper Bound																	
OREAS 146				>10000	4550	190	0.47	217	83.3	122.5	27.2	346	5	3.9	38.1	2470	
Target Range - Lower Bound				11450	4220	160	0.47	202	78.3	114.5	26.2	323	<5	3.7	33.1	2260	
Upper Bound				>10000	5160	220	0.59	246	95.7	139.5	32.2	395	15	4.7	40.5	2760	
OREAS 602																	
Target Range - Lower Bound																	
Upper Bound																	
OREAS 920																	
Target Range - Lower Bound																	
Upper Bound																	
OREAS-45d																	
Target Range - Lower Bound																	
Upper Bound																	
SY-4				314	119.0	10	1.42	18.45	14.35	1.91	35.1	12.70	<5	10.1	4.56	53.4	
Target Range - Lower Bound				306	109.5	<10	1.34	16.35	12.75	1.78	33.1	12.55	<5	9.9	3.86	52.1	
Upper Bound				375	134.5	30	1.66	20.1	15.65	2.22	40.7	15.45	12	12.3	4.74	63.9	

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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
<b>STANDARDS</b>																
AMIS0167		0.28	4.2	16.9	4.79	15.3	4.14	1	17.6	1.5	0.95	45.8	0.41	457	65	1
Target Range – Lower Bound																
Upper Bound																
AMIS0461																
Target Range – Lower Bound																
Upper Bound																
AMIS0571																
Target Range – Lower Bound																
Upper Bound																
DS-1																
Target Range – Lower Bound																
Upper Bound																
GS313-8																
Target Range – Lower Bound																
Upper Bound																
MRGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146		6.21	404	2200	553	24.1	430	41	3030	3.8	46.3	907	9.83	2.51	156	26
Target Range – Lower Bound		5.66	349	1965	493	23.7	397	40	2790	3.6	42.5	813	8.90	2.37	140	25
Upper Bound		6.94	427	2400	603	29.5	485	52	3410	4.6	51.9	993	10.90	3.01	182	33
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4		2.04	13.3	51.6	13.60	49.4	12.05	7	1150	0.7	2.70	1.10	2.28	0.67	9	<1
Target Range – Lower Bound		1.88	11.6	51.2	13.50	49.3	11.40	6	1070	0.7	2.33	1.11	2.06	0.66	<5	<1
Upper Bound		2.32	14.4	62.8	16.50	60.7	14.00	10	1310	1.1	2.87	1.47	2.54	0.94	18	3

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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm	Co ppm
		0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
<b>STANDARDS</b>																
AMIS0167		22.1	2.57	96												
Target Range – Lower Bound																
Upper Bound																
AMIS0461																
Target Range – Lower Bound																
Upper Bound																
AMIS0571																
Target Range – Lower Bound																
Upper Bound																
DS-1																
Target Range – Lower Bound																
Upper Bound																
GS313-8																
Target Range – Lower Bound																
Upper Bound																
MGeo08													4.2	2.1	20	
Target Range – Lower Bound													3.2	1.1	17	
Upper Bound													5.6	3.4	23	
OREAS 146		896	52.1	240												
Target Range – Lower Bound		814	48.1	204												
Upper Bound		996	58.9	254												
OREAS 602													>100	26.1	10	
Target Range – Lower Bound													107.5	21.7	7	
Upper Bound													100.0	27.7	12	
OREAS 920					5.0	0.76	<0.005	0.030	<0.001	0.69	0.3	0.02	0.16			
Target Range – Lower Bound					4.2	0.60	<0.005	0.019	<0.001	0.45	<0.2	<0.01	0.09			
Upper Bound					5.4	0.76	0.010	0.043	0.002	0.77	0.6	0.04	0.20			
OREAS-45d					7.0	0.28	0.039	0.080	<0.001	0.38	1.1	0.06	0.13			
Target Range – Lower Bound					5.8	0.26	0.025	0.071	<0.001	0.22	0.7	0.02	0.07			
Upper Bound					7.3	0.34	0.053	0.099	0.003	0.49	1.7	0.06	0.17			
SY-4		117.5	15.05	588												
Target Range – Lower Bound		107.0	13.30	543												
Upper Bound		131.0	16.30	668												



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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
<b>STANDARDS</b>								
AMIS0167	Target Range – Lower Bound							
	Upper Bound							
AMIS0461	Target Range – Lower Bound							
	Upper Bound							
AMIS0571	Target Range – Lower Bound							
	Upper Bound							
DS-1	Target Range – Lower Bound							
	Upper Bound							
GS313-8	Target Range – Lower Bound							
	Upper Bound							
MGeo08		621	30	14	713	1115	11	817
	Target Range – Lower Bound	586	<10	12	621	969	10	722
	Upper Bound	676	50	18	761	1190	15	886
OREAS 146	Target Range – Lower Bound							
	Upper Bound							
OREAS 602		5260	20	4	63	1065	4	4240
	Target Range – Lower Bound	4790	<10	2	53	918	2	3770
	Upper Bound	5510	40	7	67	1125	6	4610
OREAS 920	Target Range – Lower Bound							
	Upper Bound							
OREAS-45d	Target Range – Lower Bound							
	Upper Bound							
SY-4	Target Range – Lower Bound							
	Upper Bound							





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Project: Shining Tree–March–21 Red Bed  
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Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %	TOT-ICP06 Total %
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound														0.00	
	Upper Bound														<0.01	
BLANK	Target Range – Lower Bound														0.02	
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.01	<0.01	<0.01		0.02
	Upper Bound	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01		
	Upper Bound	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02	0.02	0.02	0.02	0.02		
<b>DUPLICATES</b>																
R1 828		54.2	17.70	8.45	3.68	3.98	5.65	1.66	0.021	0.74	0.06	0.20	0.01	0.03		
DUP		52.0	16.95	8.15	3.55	3.88	5.48	1.60	0.021	0.71	0.06	0.17	0.01	0.03		
Target Range – Lower Bound		51.8	16.90	8.08	3.51	3.82	5.42	1.58	0.018	0.70	0.05	0.17	<0.01	0.02		
Upper Bound		54.4	17.75	8.52	3.72	4.04	5.71	1.68	0.024	0.75	0.07	0.20	0.02	0.04		
R1 829	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 649	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 651	DUP															
Target Range – Lower Bound																
Upper Bound																

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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Ge ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm	
		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1	
<b>BLANKS</b>																	
BLANK	Target Range – Lower Bound																
	Upper Bound																
BLANK	Target Range – Lower Bound																
	Upper Bound																
BLANK	Target Range – Lower Bound																
	Upper Bound																
BLANK	Target Range – Lower Bound	<0.01	0.01														
	Upper Bound	<0.01	<0.01														
BLANK	Target Range – Lower Bound			<0.5	<0.1	10	0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<5	<0.1	<0.01	<0.1	
	Upper Bound			1.0	0.2	20	0.02	0.10	0.06	0.04	0.2	0.10		0.2	0.02	0.2	
<b>DUPLICATES</b>																	
R1828				238	59.8	150	0.99	3.95	2.19	1.25	23.1	4.28	<5	3.2	0.79	30.3	
DUP				233	57.2	140	1.00	3.62	1.98	1.14	21.8	3.92	<5	3.1	0.76	29.2	
Target Range – Lower Bound				223	55.5	130	0.94	3.55	1.95	1.12	21.2	3.85	<5	2.9	0.73	28.2	
Upper Bound				248	61.5	160	1.05	4.02	2.22	1.27	23.7	4.36	10	3.4	0.82	31.3	
R1829		0.45	<0.01														
DUP		0.45	0.01														
Target Range – Lower Bound		0.43	<0.01														
Upper Bound		0.47	0.02														
R1649																	
DUP																	
Target Range – Lower Bound																	
Upper Bound																	
R1651																	
DUP																	
Target Range – Lower Bound																	
Upper Bound																	

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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.1	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	<0.1	<0.1	<0.02	<0.2	<0.03	<1	0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<1
	Upper Bound	0.02	0.2	0.2	0.04	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02	0.10	10	2
<b>DUPLICATES</b>																
R1 828		0.28	7.9	25.0	6.96	42.4	5.05	1	124.5	0.7	0.71	12.40	0.30	3.73	186	1
DUP		0.29	7.7	24.3	6.64	40.0	4.79	1	113.5	0.7	0.72	11.75	0.30	3.66	164	1
	Target Range – Lower Bound	0.26	7.3	23.3	6.44	38.9	4.64	<1	113.0	0.6	0.67	11.40	0.28	3.46	161	<1
	Upper Bound	0.31	8.3	26.0	7.16	43.5	5.20	2	125.0	0.8	0.76	12.75	0.33	3.93	189	2
R1 829	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1 649	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1 651	DUP															
	Target Range – Lower Bound															
	Upper Bound															



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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1
<b>BLANKS</b>																
BLANK																
Target Range – Lower Bound														<0.5	<0.5	<1
Upper Bound														<0.5	<0.5	<1
BLANK					<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02			
Target Range – Lower Bound					<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02			
Upper Bound					0.2	0.02	0.010	0.010	0.002	0.10	0.4	0.02	0.04			
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.1	<0.03	<2												
Target Range – Lower Bound		<0.1	<0.03	<2												
Upper Bound		0.2	0.06	4												
<b>DUPLICATES</b>																
R1828		18.3	1.98	123												
DUP		17.5	1.81	116												
Target Range – Lower Bound		16.9	1.77	112												
Upper Bound		18.9	2.02	127												
R1829																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1649					0.4	0.01	<0.005	0.015	<0.001	0.08	0.2	0.01	0.02			
DUP					0.4	0.01	<0.005	0.013	<0.001	0.09	<0.2	0.01	0.02			
Target Range – Lower Bound					0.3	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	<0.02			
Upper Bound					0.5	0.02	0.010	0.020	0.002	0.10	0.4	0.02	0.04			
R1651														<0.5	<0.5	27
DUP														<0.5	<0.5	27
Target Range – Lower Bound														<0.5	<0.5	25
Upper Bound														1.0	1.0	29



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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
<b>BLANKS</b>								
BLANK		<1	<10	<1	1	<2	<1	<2
Target Range – Lower Bound		<1		<1	<1	<2		<2
Upper Bound		2		2	2	4		4
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
<b>DUPLICATES</b>								
R1828 DUP								
Target Range – Lower Bound								
Upper Bound								
R1829 DUP								
Target Range – Lower Bound								
Upper Bound								
R1649 DUP								
Target Range – Lower Bound								
Upper Bound								
R1651		1110	40	<1	112	2	31	35
DUP		1140	40	<1	112	<2	31	34
Target Range – Lower Bound		1085	30	<1	105	<2	28	31
Upper Bound		1165	50	2	119	4	34	38



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**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.002	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01	TOT-ICP06 Total % 0.01
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ORIGINAL DUP	<b>DUPLICATES</b>														
Target Range - Lower Bound															3.97
Upper Bound															3.98
															3.87
															4.08

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**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method	IR07	IR08	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	MS81	
Analyte		C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La
Units		%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1

**DUPLICATES**

ORIGINAL  
 DUP  
 Target Range - Lower Bound  
 Upper Bound

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<b>QC CERTIFICATE OF ANALYSIS SD21086887</b>
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Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81					
					Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	1

ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES
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**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81																											
		Y	ppm	0.1	Yb	ppm	0.03	Zr	ppm	2	As	ppm	0.1	Bi	ppm	0.01	Hg	ppm	0.005	In	ppm	0.005	Re	ppm	0.001	Sb	ppm	0.05	Se	ppm	0.2	Te	ppm	0.01	Tl	ppm	0.02	Ag	ppm	0.5	Cd	ppm	0.5	Co	ppm	1

**DUPLICATES**

ORIGINAL  
 DUP  
 Target Range - Lower Bound  
 Upper Bound

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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086887**

Sample Description	Method Analyte Units LOD	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
ORIGINAL DUP Target Range – Lower Bound Upper Bound	<b>DUPLICATES</b>							



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**QC CERTIFICATE OF ANALYSIS SD21086887**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06

ME-ICP06  
S-IR08



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**CERTIFICATE SD21086913**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–011  
 This report is for 5 samples of Drill Core submitted to our lab in Sudbury, ON, Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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.

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Signature:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %
R1834		61.2	19.70	3.74	1.12	1.73	9.67	0.76	0.023	0.76	0.01	0.23	0.01	0.02	1.63	100.60
R1835		60.8	20.5	5.00	0.63	2.03	7.80	2.10	0.024	0.78	0.01	0.23	<0.01	0.03	1.87	101.80
R1836		56.5	19.85	5.49	1.19	2.11	7.83	1.86	0.025	0.74	0.01	0.21	<0.01	0.03	2.37	98.22
R1837		60.4	19.55	3.64	0.64	1.93	9.51	0.74	0.024	0.74	0.01	0.22	0.01	0.02	1.45	98.88
R1838		60.0	19.65	4.38	1.01	1.75	9.34	0.98	0.024	0.74	0.01	0.22	0.01	0.02	1.83	99.96

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**CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Ge ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
R1834		0.14	<0.01	148.0	86.0	160	0.27	3.63	2.23	1.36	20.6	4.29	<5	3.9	0.77	44.5
R1835		0.04	<0.01	243	80.4	170	0.65	3.60	2.16	1.19	25.6	4.29	<5	4.0	0.77	41.6
R1836		0.18	<0.01	231	97.0	170	0.64	4.10	2.25	1.35	23.1	4.82	<5	3.9	0.86	45.1
R1837		0.05	<0.01	152.0	90.4	170	0.32	3.86	2.13	1.39	19.0	4.34	<5	3.9	0.81	43.1
R1838		0.13	<0.01	158.5	99.8	170	0.36	3.90	2.19	1.41	19.4	4.66	<5	3.9	0.82	46.4

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Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm 0.01	Nb ppm 0.1	Nd ppm 0.1	Pr ppm 0.02	Rb ppm 0.2	Sm ppm 0.03	Sn ppm 1	Sr ppm 0.1	Ta ppm 0.1	Tb ppm 0.01	Th ppm 0.05	Tm ppm 0.01	U ppm 0.05	V ppm 5	W ppm 1
R1834		0.30	10.5	34.1	9.79	23.3	6.01	2	72.6	0.9	0.69	17.25	0.32	3.68	103	1
R1835		0.31	10.5	32.3	9.23	54.6	5.76	1	64.2	1.0	0.67	17.40	0.31	4.41	174	1
R1836		0.32	10.3	35.0	9.95	50.8	6.36	1	47.1	0.9	0.75	16.55	0.34	4.77	149	2
R1837		0.31	10.2	33.6	9.55	23.3	6.13	2	82.7	0.9	0.74	16.15	0.33	4.21	111	2
R1838		0.32	10.3	35.9	10.20	27.0	6.32	2	75.3	0.9	0.74	16.25	0.34	4.32	122	2

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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method	MS81	MS81	MS81	MS42	MS42	MS42	MS42	MS42	MS42	MS42	MS42	4ACD81	4ACD81	4ACD81	
	Analyte	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd	Co
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5	1
R1834		17.8	2.04	148	0.5	<0.01	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	<0.02	<0.5	<0.5	6
R1835		17.5	2.23	152	0.3	0.01	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.03	<0.5	<0.5	8
R1836		19.2	2.31	142	0.4	0.01	<0.005	<0.005	<0.001	0.08	<0.2	0.01	0.02	<0.5	<0.5	9
R1837		18.1	2.20	145	0.6	<0.01	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.02	<0.5	<0.5	9
R1838		18.4	2.18	148	0.5	<0.01	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.02	<0.5	<0.5	7

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Project: Shining Tree–March–21 Red Bed

**CERTIFICATE OF ANALYSIS SD21086913**

		ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81
Sample Description	Method Analyte Units LOD	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm
		1	10	1	1	2	1	2
R1834		2	20	<1	63	<2	17	6
R1835		2	20	<1	80	2	19	6
R1836		1	20	1	74	<2	18	6
R1837		1	20	<1	67	2	16	8
R1838		1	10	<1	62	<2	18	6



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Project: Shining Tree–March–21 Red Bed

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**CERTIFICATE OF ANALYSIS SD21086913**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06

ME-ICP06  
S-IR08



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**QC CERTIFICATE SD21086913**

Project: Shining Tree–March–21 Red Bed  
 P.O. No.: STR21–011  
 This report is for 5 samples of Drill Core submitted to our lab in Sudbury, ON,  
 Canada on 18–MAR–2021.  
 The following have access to data associated with this certificate:

PETER DOYLE NICO KASTEK RYAN WELLS	MIKE HENDRICKSON FRANK PLOEGER	SEAN HICKS STEVE TRIMMER
--	-----------------------------------	-----------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND–02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME–ICP06	Whole Rock Package – ICP–AES	ICP–AES
C–IR07	Total Carbon (IR Spectroscopy)	LECO
S–IR08	Total Sulphur (IR Spectroscopy)	LECO
ME–MS81	Lithium Borate Fusion ICP–MS	ICP–MS
ME–MS42	Up to 34 elements by ICP–MS	ICP–MS
OA–GRA05	Loss on Ignition at 1000C	WST–SEQ
TOT–ICP06	Total Calculation for ICP06	
ME–4ACD81	Base Metals by 4–acid dig.	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:   
 Saa Traxler, General Manager, North Vancouver



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Project: Shining Tree–March–21 Red Bed

<b>QC CERTIFICATE OF ANALYSIS</b>	<b>SD21086913</b>
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Sample Description	Method Analyte Units LOD	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05	TOT-ICP06
		SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %	LOI %	Total %			
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
<b>STANDARDS</b>																			
AMIS0167		91.5	2.45	3.37	0.13	0.23	0.09	0.49	0.058	0.14	0.02	0.04	<0.01	0.01					100.15
Target Range – Lower Bound		89.6	2.29	3.28	0.10	0.21	0.06	0.45	0.049	0.12	<0.01	<0.01	<0.01	<0.01					97.99
Upper Bound		93.3	2.55	3.62	0.16	0.27	0.12	0.55	0.067	0.18	0.04	0.05	0.02	0.02					>102.00
AMIS0547																		38.5	
Target Range – Lower Bound																		36.6	
Upper Bound																		40.4	
CDN-W-4																		4.25	
Target Range – Lower Bound																		4.08	
Upper Bound																		4.53	
DS-1																			
Target Range – Lower Bound																			
Upper Bound																			
GS313-8																			
Target Range – Lower Bound																			
Upper Bound																			
MGeo08																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS 146		20.3	3.06	28.6	17.05	6.90	0.33	1.27	0.026	1.43	2.40	0.57	0.38	1.51					93.18
Target Range – Lower Bound		19.50	2.82	27.5	16.75	6.59	0.26	1.19	0.017	1.35	2.30	0.49	0.33	1.39					97.99
Upper Bound		20.7	3.12	29.1	17.85	7.15	0.34	1.37	0.031	1.53	2.56	0.59	0.41	1.59					>102.00
OREAS 602																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS 920																			
Target Range – Lower Bound																			
Upper Bound																			
OREAS-45d																			
Target Range – Lower Bound																			
Upper Bound																			
SY-4		49.4	20.7	6.12	7.84	0.51	7.29	1.62	0.002	0.28	0.10	0.13	0.14	0.04					98.73
Target Range – Lower Bound		48.7	20.1	5.95	7.74	0.49	6.81	1.56	<0.002	0.25	0.08	0.10	0.11	<0.01					97.99
Upper Bound		51.1	21.3	6.47	8.36	0.59	7.39	1.76	0.005	0.32	0.13	0.16	0.17	0.06					>102.00

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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		C %	S %	Ba ppm	Ce ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Ge ppm	Hf ppm	Ho ppm	La ppm
		0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1
<b>STANDARDS</b>																
AMIS0167				78.9	40.8	430	0.99	5.65	3.05	0.68	3.1	4.42	<5	2.3	1.13	21.7
Target Range – Lower Bound																
Upper Bound																
AMIS0547																
Target Range – Lower Bound																
Upper Bound																
CDN-W-4																
Target Range – Lower Bound																
Upper Bound																
DS-1		3.13	2.62													
Target Range – Lower Bound		3.01	2.51													
Upper Bound		3.25	2.71													
GS313-8		0.92	1.26													
Target Range – Lower Bound		0.90	1.19													
Upper Bound		0.98	1.29													
MGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146				>10000	4550	190	0.47	217	83.3	122.5	27.2	346	5	3.9	38.1	2470
Target Range – Lower Bound				11450	4220	160	0.47	202	78.3	114.5	26.2	323	<5	3.7	33.1	2260
Upper Bound				>10000	5160	220	0.59	246	95.7	139.5	32.2	395	15	4.7	40.5	2760
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4				314	119.0	10	1.42	18.45	14.35	1.91	35.1	12.70	<5	10.1	4.56	53.4
Target Range – Lower Bound				306	109.5	<10	1.34	16.35	12.75	1.78	33.1	12.55	<5	9.9	3.86	52.1
Upper Bound				375	134.5	30	1.66	20.1	15.65	2.22	40.7	15.45	12	12.3	4.74	63.9



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	
		Lu ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tm ppm	U ppm	V ppm	W ppm
		0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1
<b>STANDARDS</b>																
AMIS0167		0.28	4.2	16.9	4.79	15.3	4.14	1	17.6	1.5	0.95	45.8	0.41	457	65	1
Target Range – Lower Bound																
Upper Bound																
AMIS0547																
Target Range – Lower Bound																
Upper Bound																
CDN-W-4																
Target Range – Lower Bound																
Upper Bound																
DS-1																
Target Range – Lower Bound																
Upper Bound																
GS313-8																
Target Range – Lower Bound																
Upper Bound																
MRGeo08																
Target Range – Lower Bound																
Upper Bound																
OREAS 146		6.21	404	2200	553	24.1	430	41	3030	3.8	46.3	907	9.83	2.51	156	26
Target Range – Lower Bound		5.66	349	1965	493	23.7	397	40	2790	3.6	42.5	813	8.90	2.37	140	25
Upper Bound		6.94	427	2400	603	29.5	485	52	3410	4.6	51.9	993	10.90	3.01	182	33
OREAS 602																
Target Range – Lower Bound																
Upper Bound																
OREAS 920																
Target Range – Lower Bound																
Upper Bound																
OREAS-45d																
Target Range – Lower Bound																
Upper Bound																
SY-4		2.04	13.3	51.6	13.60	49.4	12.05	7	1150	0.7	2.70	1.10	2.28	0.67	9	<1
Target Range – Lower Bound		1.88	11.6	51.2	13.50	49.3	11.40	6	1070	0.7	2.33	1.11	2.06	0.66	<5	<1
Upper Bound		2.32	14.4	62.8	16.50	60.7	14.00	10	1310	1.1	2.87	1.47	2.54	0.94	18	3

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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81
		Y ppm	Yb ppm	Zr ppm	As ppm	Bi ppm	Hg ppm	In ppm	Re ppm	Sb ppm	Se ppm	Te ppm	Tl ppm	Ag ppm	Cd ppm
<b>STANDARDS</b>															
AMIS0167		22.1	2.57	96											
Target Range – Lower Bound															
Upper Bound															
AMIS0547															
Target Range – Lower Bound															
Upper Bound															
CDN-W-4															
Target Range – Lower Bound															
Upper Bound															
DS-1															
Target Range – Lower Bound															
Upper Bound															
GS313-8															
Target Range – Lower Bound															
Upper Bound															
MGeo08													4.2	2.1	20
Target Range – Lower Bound													3.2	1.1	17
Upper Bound													5.6	3.4	23
OREAS 146		896	52.1	240											
Target Range – Lower Bound		814	48.1	204											
Upper Bound		996	58.9	254											
OREAS 602													>100	26.1	10
Target Range – Lower Bound													107.5	21.7	7
Upper Bound													100.0	27.7	12
OREAS 920					5.0	0.76	<0.005	0.030	<0.001	0.69	0.3	0.02	0.16		
Target Range – Lower Bound					4.2	0.60	<0.005	0.019	<0.001	0.45	<0.2	<0.01	0.09		
Upper Bound					5.4	0.76	0.010	0.043	0.002	0.77	0.6	0.04	0.20		
OREAS-45d					7.0	0.28	0.039	0.080	<0.001	0.38	1.1	0.06	0.13		
Target Range – Lower Bound					5.8	0.26	0.025	0.071	<0.001	0.22	0.7	0.02	0.07		
Upper Bound					7.3	0.34	0.053	0.099	0.003	0.49	1.7	0.06	0.17		
SY-4		117.5	15.05	588											
Target Range – Lower Bound		107.0	13.30	543											
Upper Bound		131.0	16.30	668											



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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm
		1	10	1	1	2	1	2
<b>STANDARDS</b>								
AMIS0167	Target Range – Lower Bound							
	Upper Bound							
AMIS0547	Target Range – Lower Bound							
	Upper Bound							
CDN-W-4	Target Range – Lower Bound							
	Upper Bound							
DS-1	Target Range – Lower Bound							
	Upper Bound							
GS313-8	Target Range – Lower Bound							
	Upper Bound							
MGeo08		621	30	14	713	1115	11	817
Target Range – Lower Bound		586	<10	12	621	969	10	722
Upper Bound		676	50	18	761	1190	15	886
OREAS 146	Target Range – Lower Bound							
	Upper Bound							
OREAS 602		5260	20	4	63	1065	4	4240
Target Range – Lower Bound		4790	<10	2	53	918	2	3770
Upper Bound		5510	40	7	67	1125	6	4610
OREAS 920	Target Range – Lower Bound							
	Upper Bound							
OREAS-45d	Target Range – Lower Bound							
	Upper Bound							
SY-4	Target Range – Lower Bound							
	Upper Bound							

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**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %	TOT-ICP06 Total %
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound														-0.02	
	Upper Bound														<-0.01	
BLANK	Target Range – Lower Bound														0.02	
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	0.01	<0.01	<0.01		0.02
	Upper Bound	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<0.01	<0.01	<0.01	<0.01	<0.01		
	Upper Bound	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.004	0.02	0.02	0.02	0.02	0.02	0.02	
<b>DUPLICATES</b>																
R1 828		54.2	17.70	8.45	3.68	3.98	5.65	1.66	0.021	0.74	0.06	0.20	0.01	0.03		
DUP		52.0	16.95	8.15	3.55	3.88	5.48	1.60	0.021	0.71	0.06	0.17	0.01	0.03		
Target Range – Lower Bound		51.8	16.90	8.08	3.51	3.82	5.42	1.58	0.018	0.70	0.05	0.17	<0.01	0.02		
Upper Bound		54.4	17.75	8.52	3.72	4.04	5.71	1.68	0.024	0.75	0.07	0.20	0.02	0.04		
R1 829	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 649	DUP															
Target Range – Lower Bound																
Upper Bound																
R1 651	DUP															
Target Range – Lower Bound																
Upper Bound																

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



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm	ME-MS81 Ge ppm	ME-MS81 Hf ppm	ME-MS81 Ho ppm	ME-MS81 La ppm
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	0.01													
	Upper Bound	<0.01	<0.01													
BLANK	Target Range – Lower Bound			<0.5	<0.1	10	0.01	<0.05	<0.03	<0.02	<0.1	<0.05	<5	<0.1	<0.01	<0.1
	Upper Bound			1.0	0.2	20	0.02	0.10	0.06	0.04	0.2	0.10		0.2	0.02	0.2
<b>DUPLICATES</b>																
R1828				238	59.8	150	0.99	3.95	2.19	1.25	23.1	4.28	<5	3.2	0.79	30.3
DUP				233	57.2	140	1.00	3.62	1.98	1.14	21.8	3.92	<5	3.1	0.76	29.2
Target Range – Lower Bound				223	55.5	130	0.94	3.55	1.95	1.12	21.2	3.85	<5	2.9	0.73	28.2
Upper Bound				248	61.5	160	1.05	4.02	2.22	1.27	23.7	4.36	10	3.4	0.82	31.3
R1829		0.45	<0.01													
DUP		0.45	0.01													
Target Range – Lower Bound		0.43	<0.01													
Upper Bound		0.47	0.02													
R1649	DUP															
Target Range – Lower Bound																
Upper Bound																
R1651	DUP															
Target Range – Lower Bound																
Upper Bound																



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.1	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.02	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1
<b>BLANKS</b>																
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound															
	Upper Bound															
BLANK	Target Range – Lower Bound	<0.01	<0.1	<0.1	<0.02	<0.2	<0.03	<1	0.1	<0.1	<0.01	<0.05	<0.01	<0.05	<5	<1
	Upper Bound	0.02	0.2	0.2	0.04	0.4	0.06	2	0.2	0.2	0.02	0.10	0.02	0.10	10	2
<b>DUPLICATES</b>																
R1 828		0.28	7.9	25.0	6.96	42.4	5.05	1	124.5	0.7	0.71	12.40	0.30	3.73	186	1
DUP		0.29	7.7	24.3	6.64	40.0	4.79	1	113.5	0.7	0.72	11.75	0.30	3.66	164	1
	Target Range – Lower Bound	0.26	7.3	23.3	6.44	38.9	4.64	<1	113.0	0.6	0.67	11.40	0.28	3.46	161	<1
	Upper Bound	0.31	8.3	26.0	7.16	43.5	5.20	2	125.0	0.8	0.76	12.75	0.33	3.93	189	2
R1 829	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1 649	DUP															
	Target Range – Lower Bound															
	Upper Bound															
R1 651	DUP															
	Target Range – Lower Bound															
	Upper Bound															



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1
<b>BLANKS</b>																
BLANK																
Target Range – Lower Bound														<0.5	<0.5	<1
Upper Bound														1.0	1.0	2
BLANK				<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02				
Target Range – Lower Bound				<0.1	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02				
Upper Bound				0.2	0.02	0.010	0.010	0.002	0.10	0.4	0.02	0.04				
BLANK																
Target Range – Lower Bound																
Upper Bound																
BLANK		<0.1	<0.03	<2												
Target Range – Lower Bound		<0.1	<0.03	<2												
Upper Bound		0.2	0.06	4												
<b>DUPLICATES</b>																
R1828		18.3	1.98	123												
DUP		17.5	1.81	116												
Target Range – Lower Bound		16.9	1.77	112												
Upper Bound		18.9	2.02	127												
R1829																
DUP																
Target Range – Lower Bound																
Upper Bound																
R1649					0.4	0.01	<0.005	0.015	<0.001	0.08	0.2	0.01	0.02			
DUP					0.4	0.01	<0.005	0.013	<0.001	0.09	<0.2	0.01	0.02			
Target Range – Lower Bound					0.3	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	<0.02			
Upper Bound					0.5	0.02	0.010	0.020	0.002	0.10	0.4	0.02	0.04			
R1651														<0.5	<0.5	27
DUP														<0.5	<0.5	27
Target Range – Lower Bound														<0.5	<0.5	25
Upper Bound														1.0	1.0	29



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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm	Sc ppm	Zn ppm
		1	10	1	1	2	1	2
<b>BLANKS</b>								
BLANK		<1	<10	<1	1	<2	<1	<2
Target Range – Lower Bound		<1		<1	<1	<2		<2
Upper Bound		2		2	2	4		4
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
BLANK								
Target Range – Lower Bound								
Upper Bound								
<b>DUPLICATES</b>								
R1828 DUP								
Target Range – Lower Bound								
Upper Bound								
R1829 DUP								
Target Range – Lower Bound								
Upper Bound								
R1649 DUP								
Target Range – Lower Bound								
Upper Bound								
R1651		1110	40	<1	112	2	31	35
DUP		1140	40	<1	112	<2	31	34
Target Range – Lower Bound		1085	30	<1	105	<2	28	31
Upper Bound		1165	50	2	119	4	34	38

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



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Project: Shining Tree–March–21 Red Bed  
**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %	TOT-ICP06 Total %
		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01	0.01
R1836 DUP		<b>DUPLICATES</b>														
Target Range – Lower Bound																2.37
Upper Bound																2.39
																2.31
																2.45

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Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method	Analyte	Units	LOD	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81			
					C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho	La	
					%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.02	0.1	0.05	5	0.1	0.01	0.1	
<b>DUPLICATES</b>																				
R1836 DUP Target Range - Lower Bound Upper Bound																				



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**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81					
					Lu	Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.01	0.1	0.1	0.02	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	1

R1836 DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>
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**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method	Analyte	Units	LOD	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81	ME-4ACD81																											
		Y	ppm	0.1	Yb	ppm	0.03	Zr	ppm	2	As	ppm	0.1	Bi	ppm	0.01	Hg	ppm	0.005	In	ppm	0.005	Re	ppm	0.001	Sb	ppm	0.05	Se	ppm	0.2	Te	ppm	0.01	Tl	ppm	0.02	Ag	ppm	0.5	Cd	ppm	0.5	Co	ppm	1

**DUPLICATES**

R1836  
 DUP  
 Target Range - Lower Bound  
 Upper Bound

--	--

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 Account: BMRPLLBW

Project: Shining Tree–March–21 Red Bed

**QC CERTIFICATE OF ANALYSIS SD21086913**

Sample Description	Method Analyte Units LOD	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	
		Cu	Li	Mo	Ni	Pb	Sc	Zn
		ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	10	1	1	2	1	2
R1836 DUP Target Range – Lower Bound Upper Bound	<b>DUPLICATES</b>							



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Total # Appendix Pages: 1  
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**QC CERTIFICATE OF ANALYSIS SD21086913**

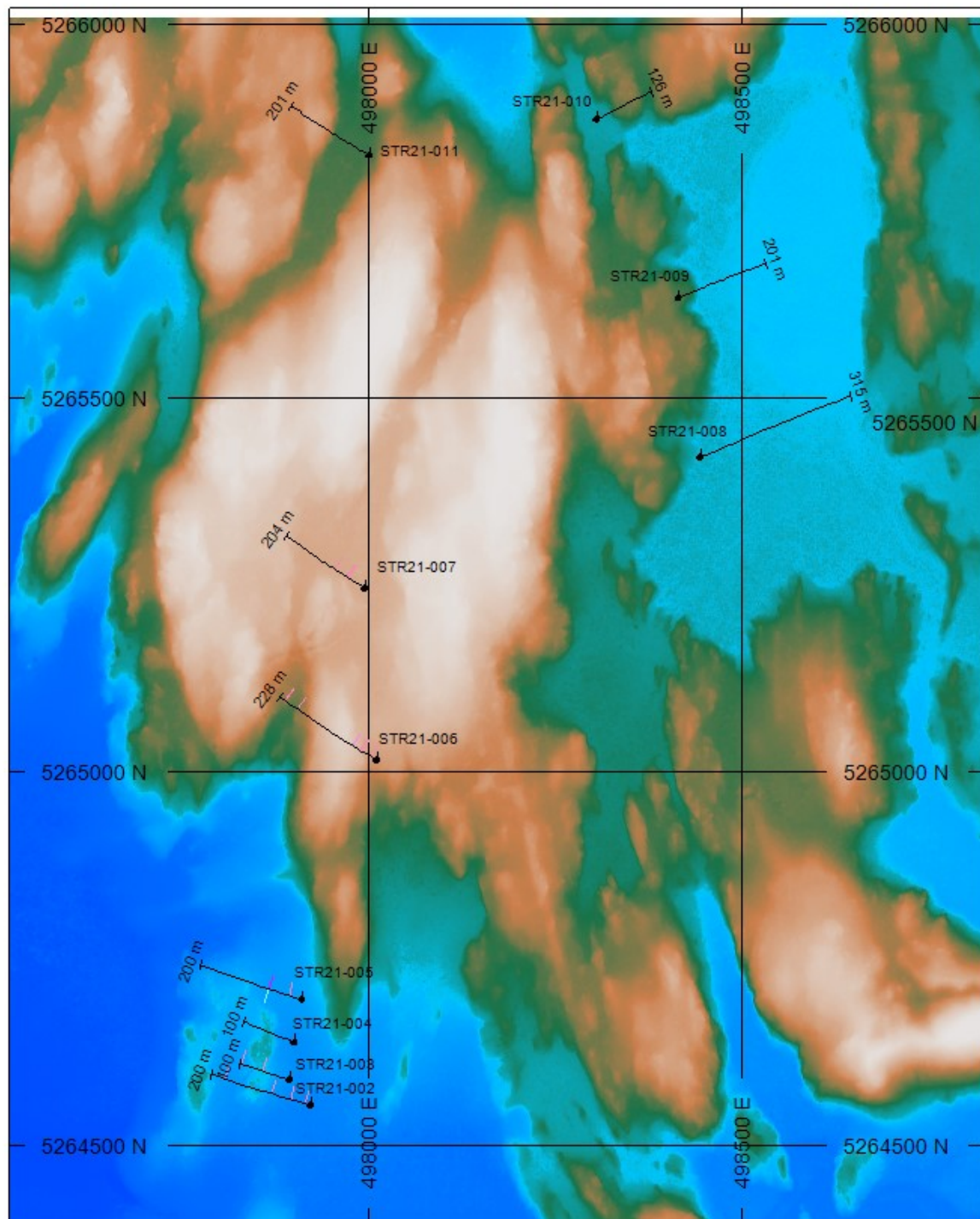
**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
C-IR07 FND-02 ME-4ACD81  
ME-MS42 ME-MS81 OA-GRA05  
TOT-ICP06



ME-ICP06  
S-IR08






## HOLES PLOTTED

TOTAL 10

STR21-002	STR21-003	STR21-004	STR21-005
STR21-006	STR21-007	STR21-008	STR21-009
STR21-010	STR21-011		

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_ppm	R		3 to 10
			10 to 30

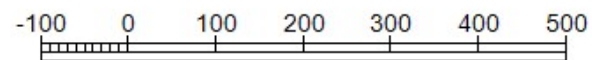
NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500
			500 to 1000
			1000 to 10000

### PLAN SPECS:

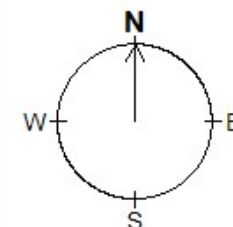
REF. PT. E, N      498200 m 5265000 m  
 EXTENTS            1304 m    1625 m

SCALE 1 : 10000

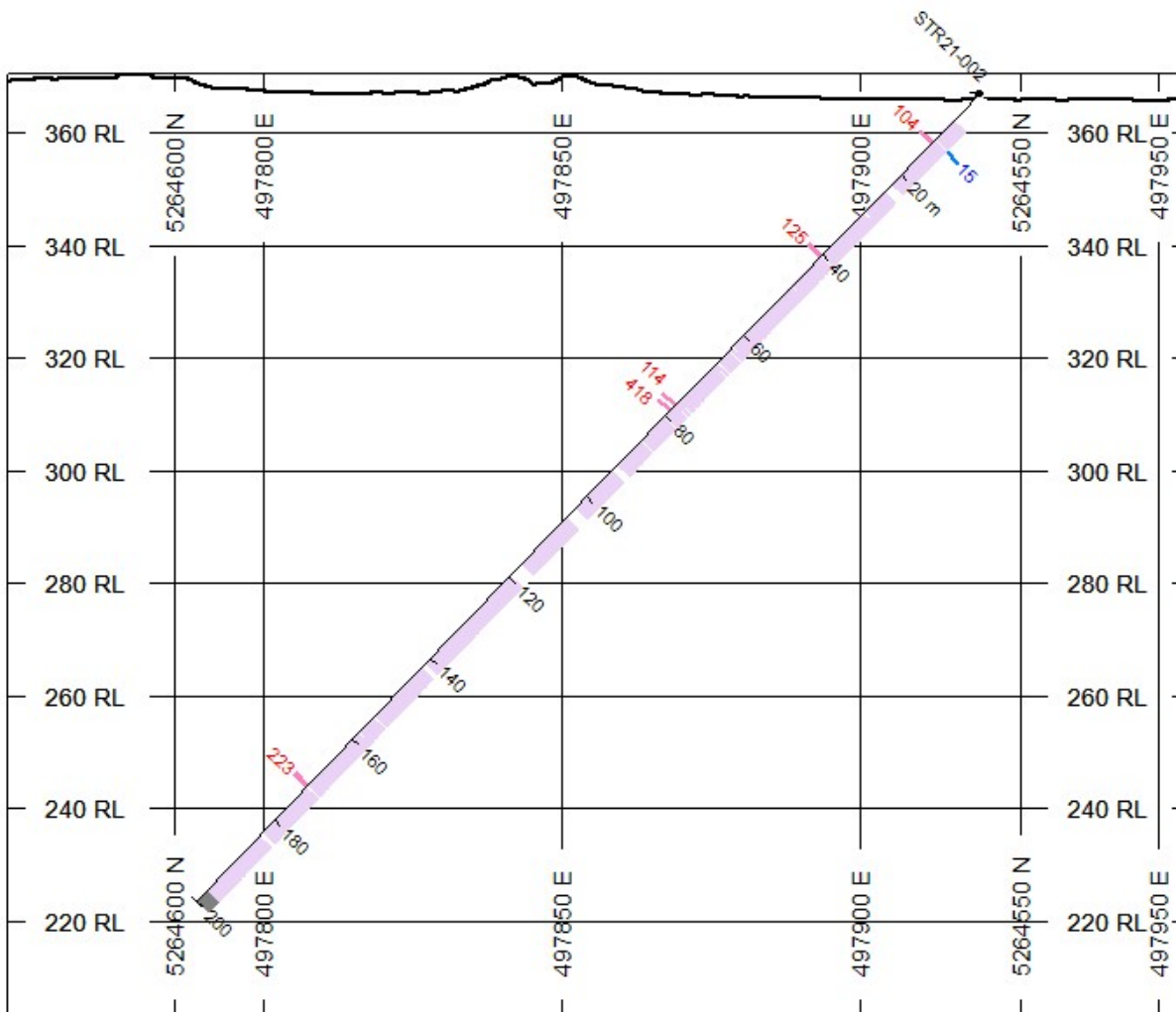
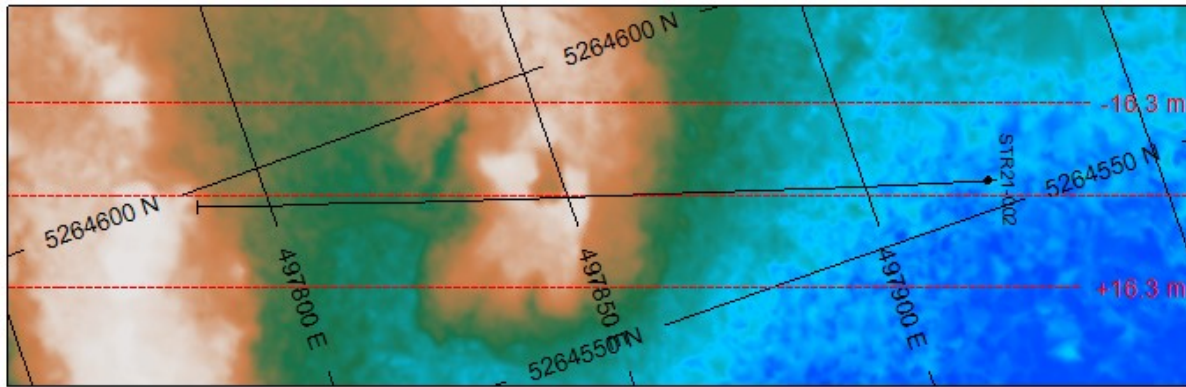
(m)



NAD83(2011) / UTM zone 17N



**Battery Mineral Resources Corp.**  
**Shining Tree**  
**Diamond Drill Holes - Plan Map**



## HOLES PLOTTED

TOTAL 1

STR21-002

### TOPOGRAPHY

— Topography.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Ag_ppm	R		10 to 30

NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500

### ROCK CODES

Lithology

PAT LABEL

Overburden  
 Nipissing Diabase  
 Quartz-Carbonate Vein  
 Fault

### ASSAYS

Lithology

L/R TEXT RANGE

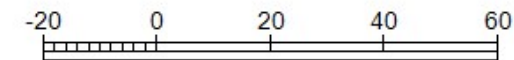
Ag\_ppm R Min 3  
 Co\_ppm L Min 100

## SECTION SPECS:

REF. PT. E, N 497856 m 5264575 m  
 EXTENTS 210.1 m 167.8 m  
 SECTION TOP, BOT 370.8 m 203 m  
 TOLERANCE +/- 16.3 m

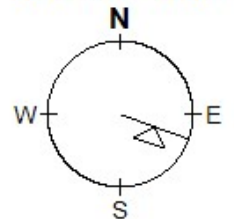
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(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 109.4°



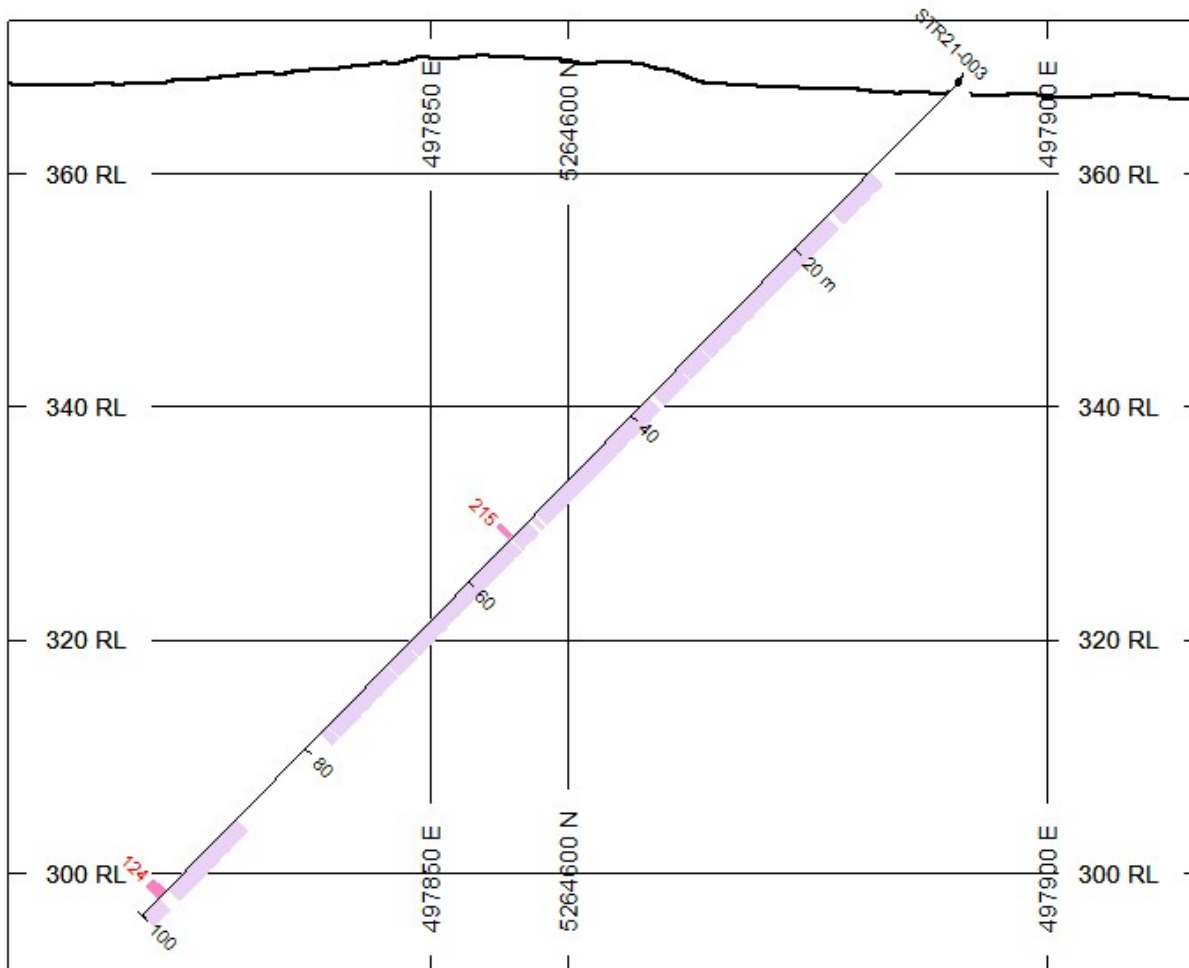
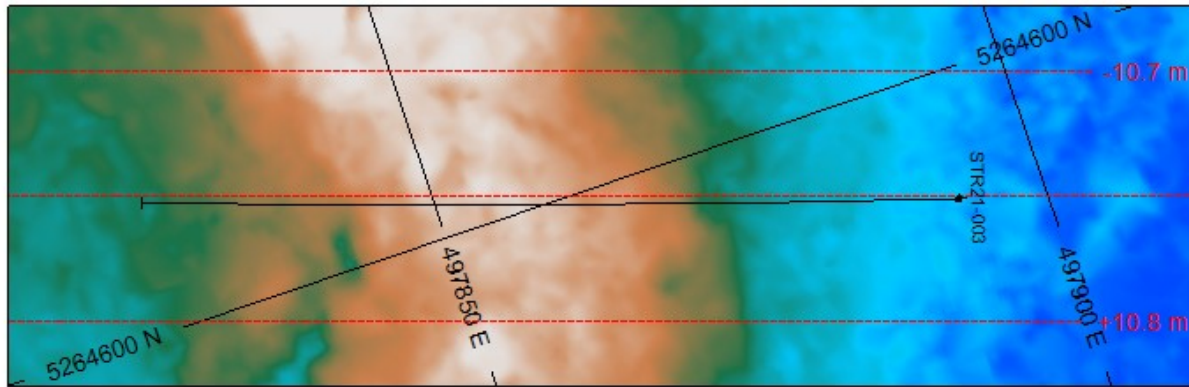
# Battery Mineral Resources

## Shining Tree

### STR21-002

Azimuth: 289 Dip: -45






## HOLES PLOTTED




TOTAL 1



STR21-003

### TOPOGRAPHY

— Topography.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Nipissing Diabase
		Quartz-Carbonate Vein

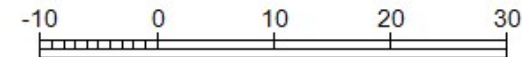
ASSAYS	L/R	TEXT	RANGE
Ag_ppm	R		Min 3
Co_ppm	L		Min 100

### SECTION SPECS:

REF. PT. E, N	497864 m	5264599 m
EXTENTS	102.3 m	81.7 m
SECTION TOP, BOT	373.2 m	291.5 m
TOLERANCE +/-	10.75 m	

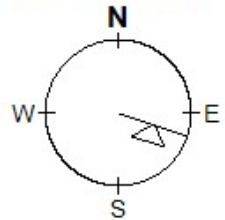
SCALE 1 : 750

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 108.7°

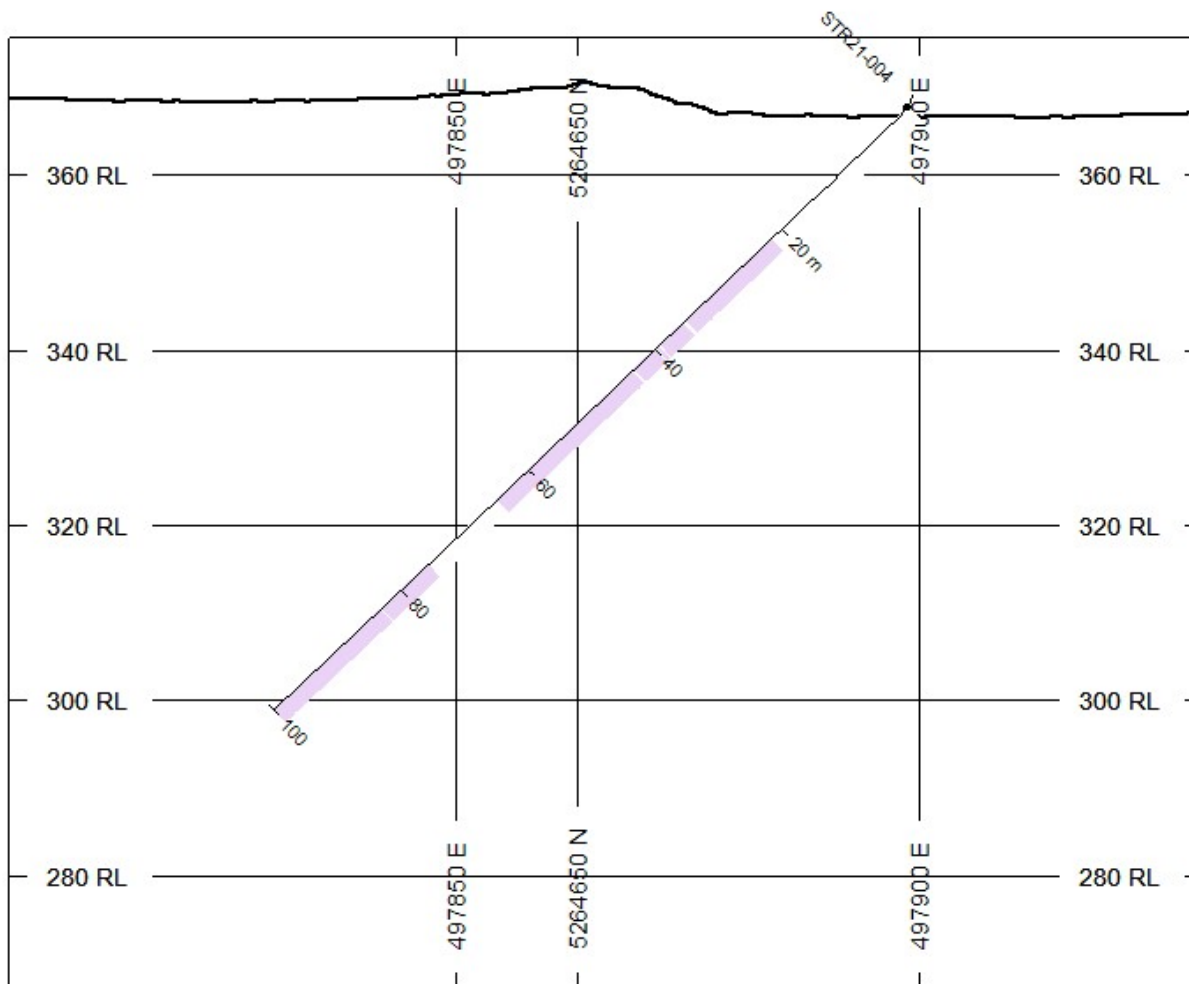
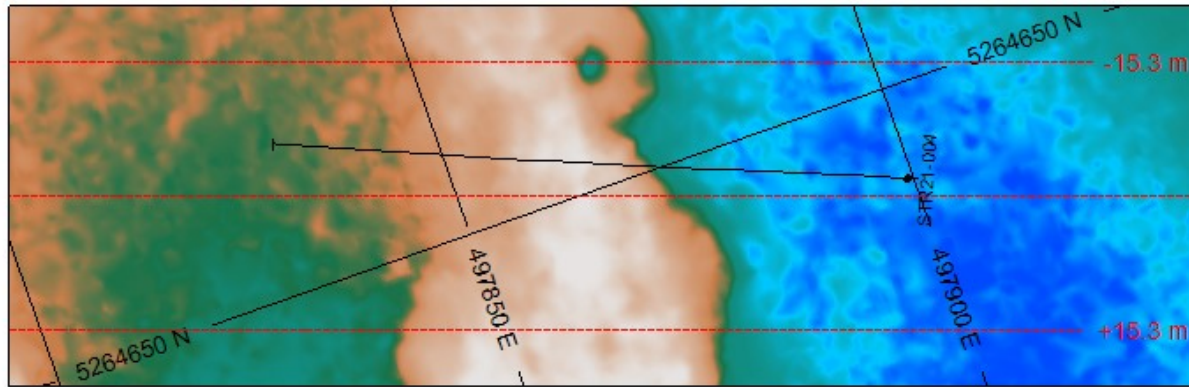


## Battery Mineral Resources

### Shining Tree

### STR21-003

Azimuth: 290 Dip: -45.5



## HOLES PLOTTED

TOTAL 1

STR21-004

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

### PAT LABEL

Overburden

Nipissing Diabase

Quartz-Carbonate Vein

### ASSAYS

Ag\_ppm

Co\_ppm

### L/R

R

L

### TEXT

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### RANGE

Min 3

Min 100

### SECTION SPECS:

REF. PT. E, N 497866 m 5264649 m

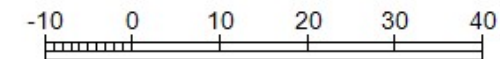
EXTENTS 136.4 m 108.9 m

SECTION TOP, BOT 375.9 m 267 m

TOLERANCE +/- 15.3 m

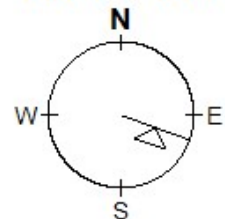
SCALE 1 : 1000

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 109.4°

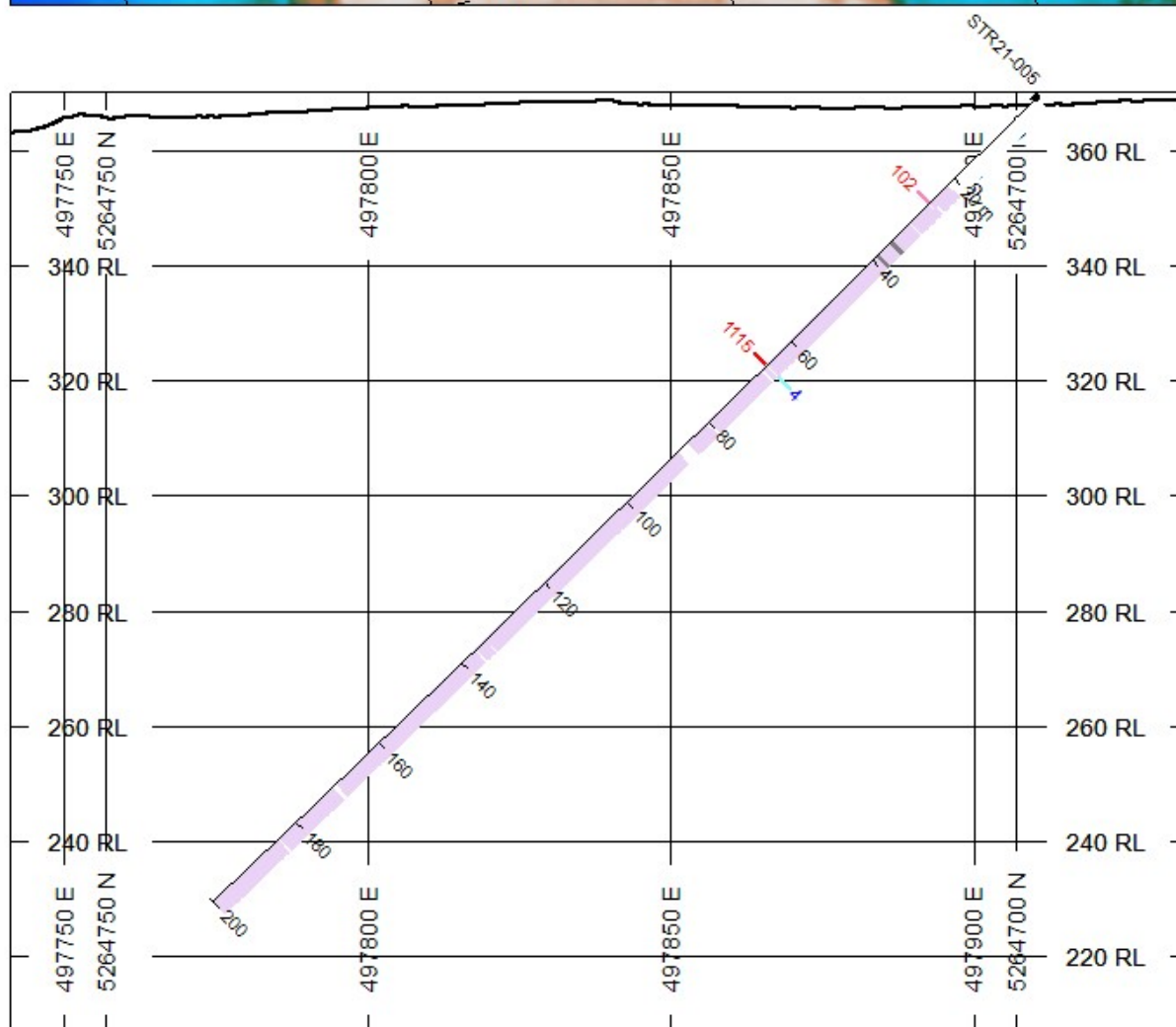
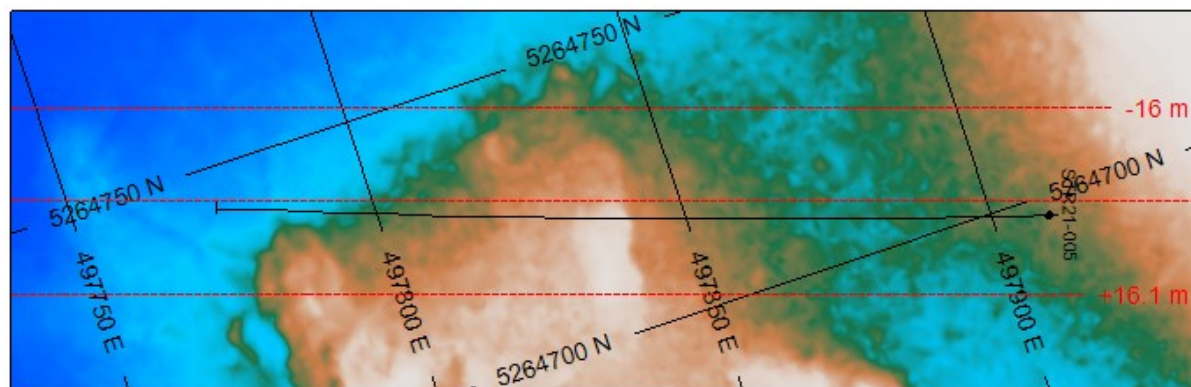


Battery Mineral Resources

Shining Tree

STR21-004

Azimuth: 2.89 Dip: -43.5




## HOLES PLOTTED


TOTAL 1

STR21-005





### TOPOGRAPHY

— Topography.GRD



NUMBER BANDS	L/R	PATTERN	RANGE
Ag_ppm	R		3 to 10

NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500
			1000 to 10000

### ROCK CODES

Lithology	PAT	LABEL
		Overburden
		Nipissing Diabase
		Quartz-Carbonate Vein
		Fault

### ASSAYS

ASSAYS	L/R	TEXT	RANGE
Ag_ppm	R		Min 3
Co_ppm	L		Min 100

## SECTION SPECS:

REF. PT. E, N 497838 m 5264723 m

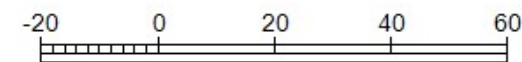
EXTENTS 204.6 m 163.4 m

SECTION TOP, BOT 370.3 m 206.9 m

TOLERANCE +/- 16.05 m

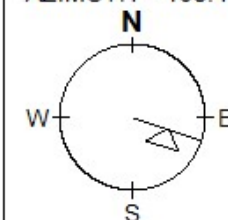
SCALE 1 : 1500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 108.4°



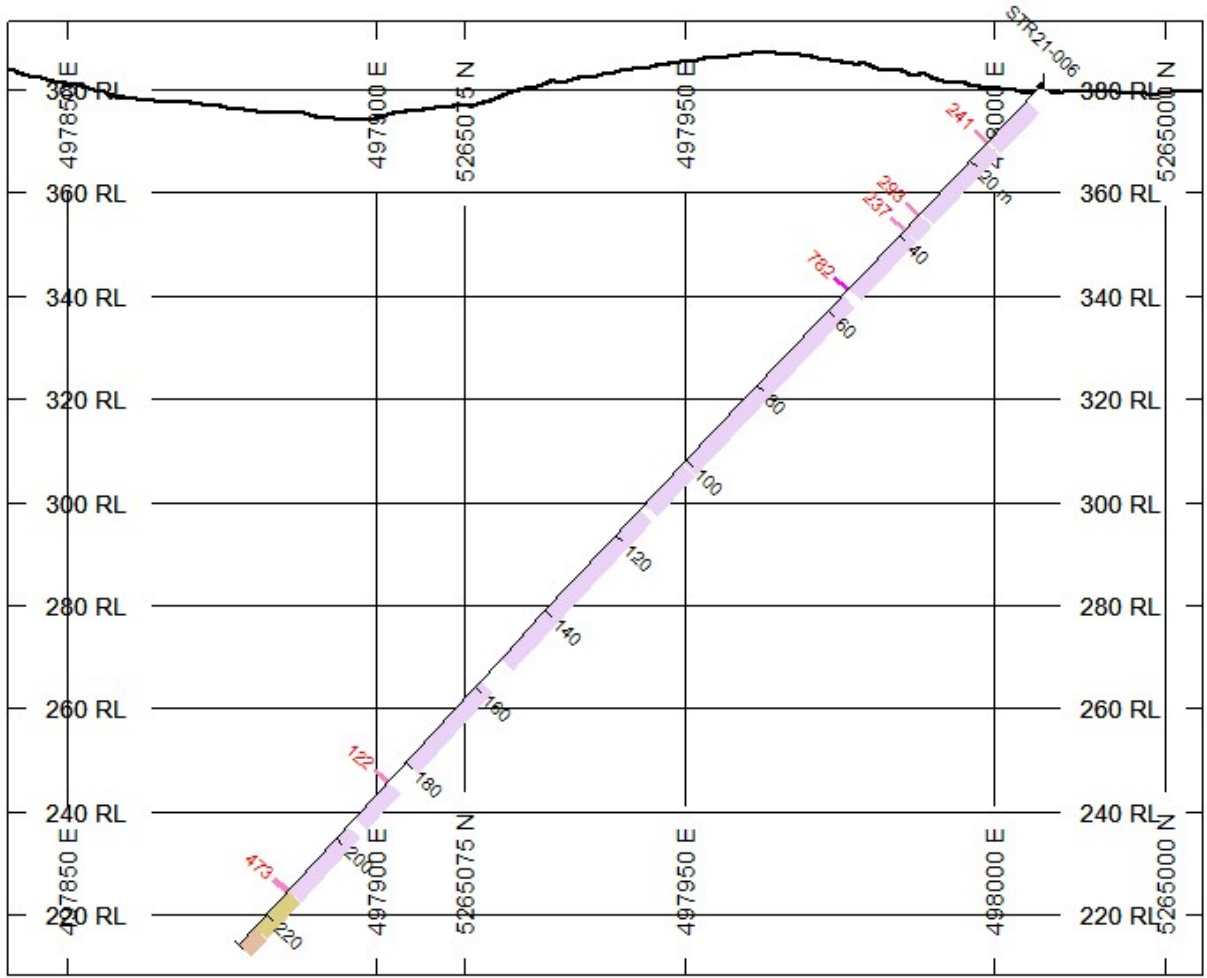
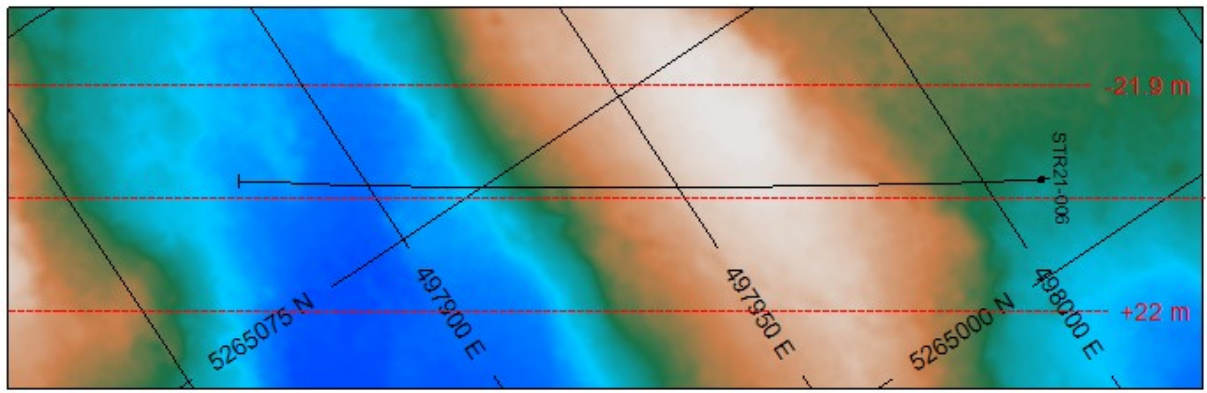
# Battery Mineral Resources

## Shining Tree

### STR21-005

Azimuth: 287 Dip: -46





# HOLES PLOTTED

TOTAL 1

STR21-006

## TOPOGRAPHY

Topography.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500 500 to 1000

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Siltstone
		Sandstone
		Nipissing Diabase
		Quartz-Carbonate Vein
		Carbonate Vein

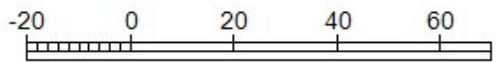
ASSAYS	L/R	TEXT	RANGE
Ag_ppm	R		Min 3
Co_ppm	L		Min 100

## SECTION SPECS:

REF. PT. E, N	497937 m	5265060 m
EXTENTS	231.9 m	185.2 m
SECTION TOP, BOT	393.5 m	208.3 m
TOLERANCE +/-	21.95 m	

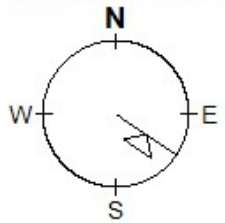
SCALE 1 : 1700

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 123.5°

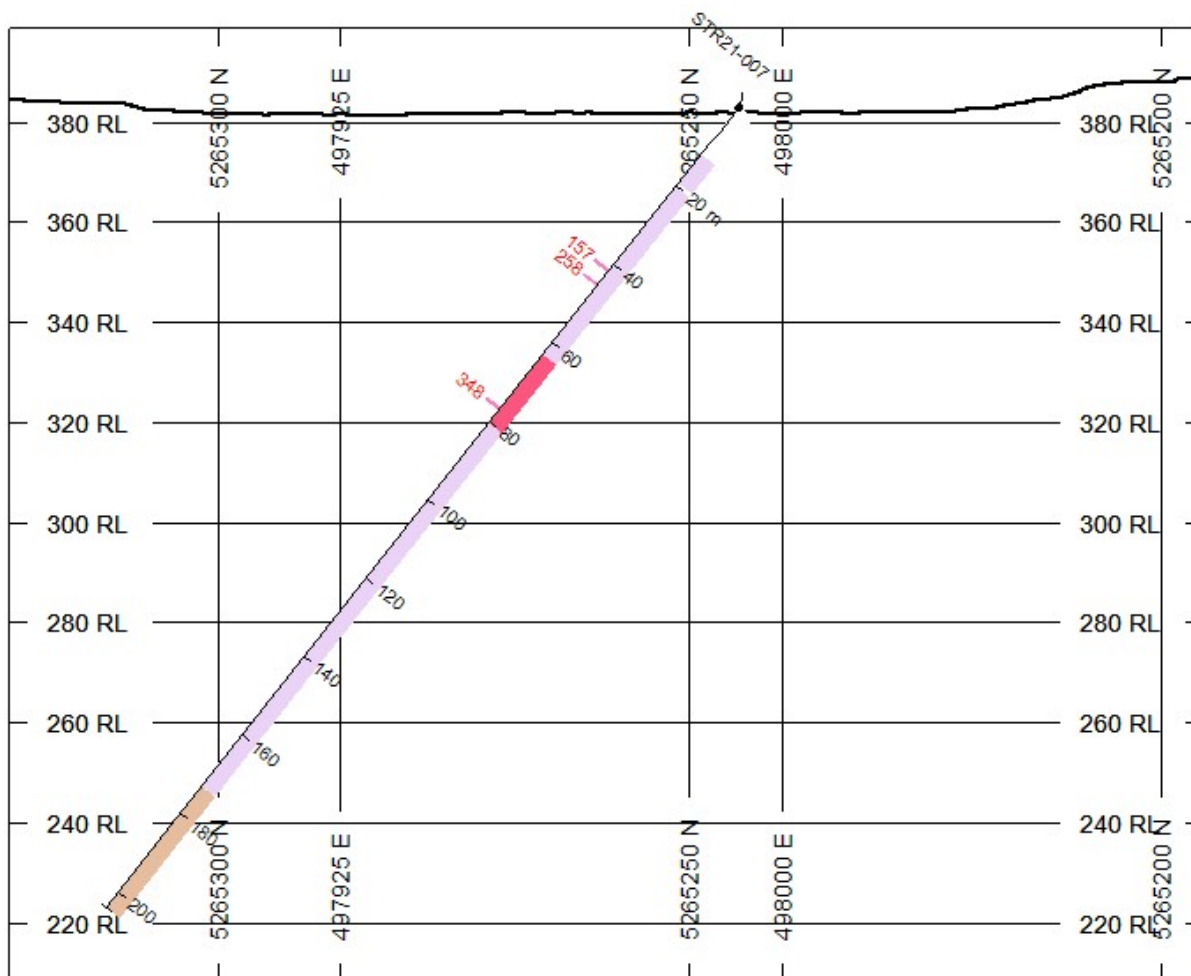
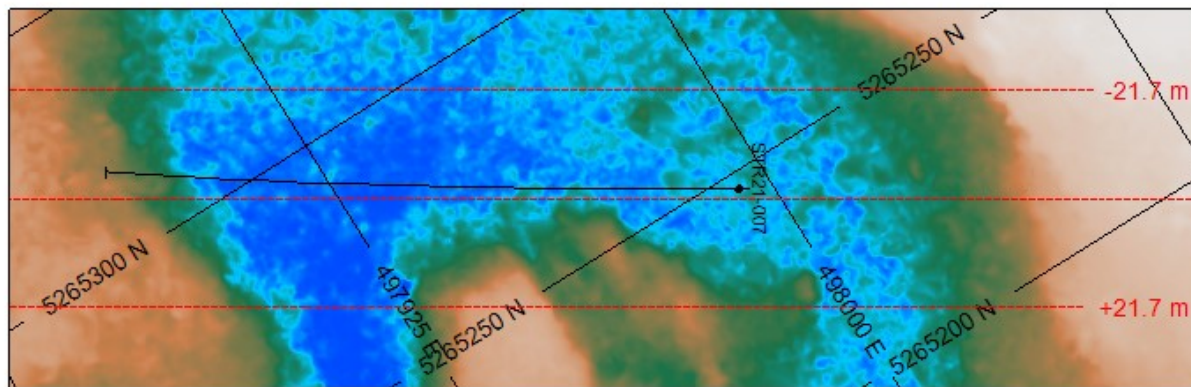


# Battery Mineral Resources

## Shining Tree

### STR21-006

Azimuth: 228 Dip: -46



## HOLES PLOTTED

TOTAL 1

STR21-007

### TOPOGRAPHY

— Topography.GRD

NUMBER BANDS	L/R	PATTERN	RANGE
Co_ppm	L		100 to 500

ROCK CODES	PAT	LABEL
Lithology		Overburden
		Siltstone
		Nipissing Diabase
		Quartz-Carbonate Vein
		Granophyre

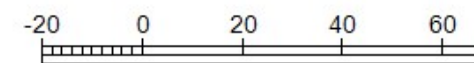
ASSAYS	L/R	TEXT	RANGE
Ag_ppm	R		Min 3
Co_ppm	L		Min 100

### SECTION SPECS:

REF. PT. E, N	497970 m	5265259 m
EXTENTS	238.7 m	190.6 m
SECTION TOP, BOT	399.1 m	208.4 m
TOLERANCE +/-	21.7 m	

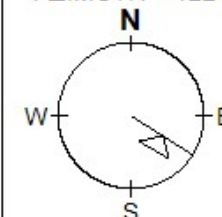
SCALE 1 : 1750

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 122°



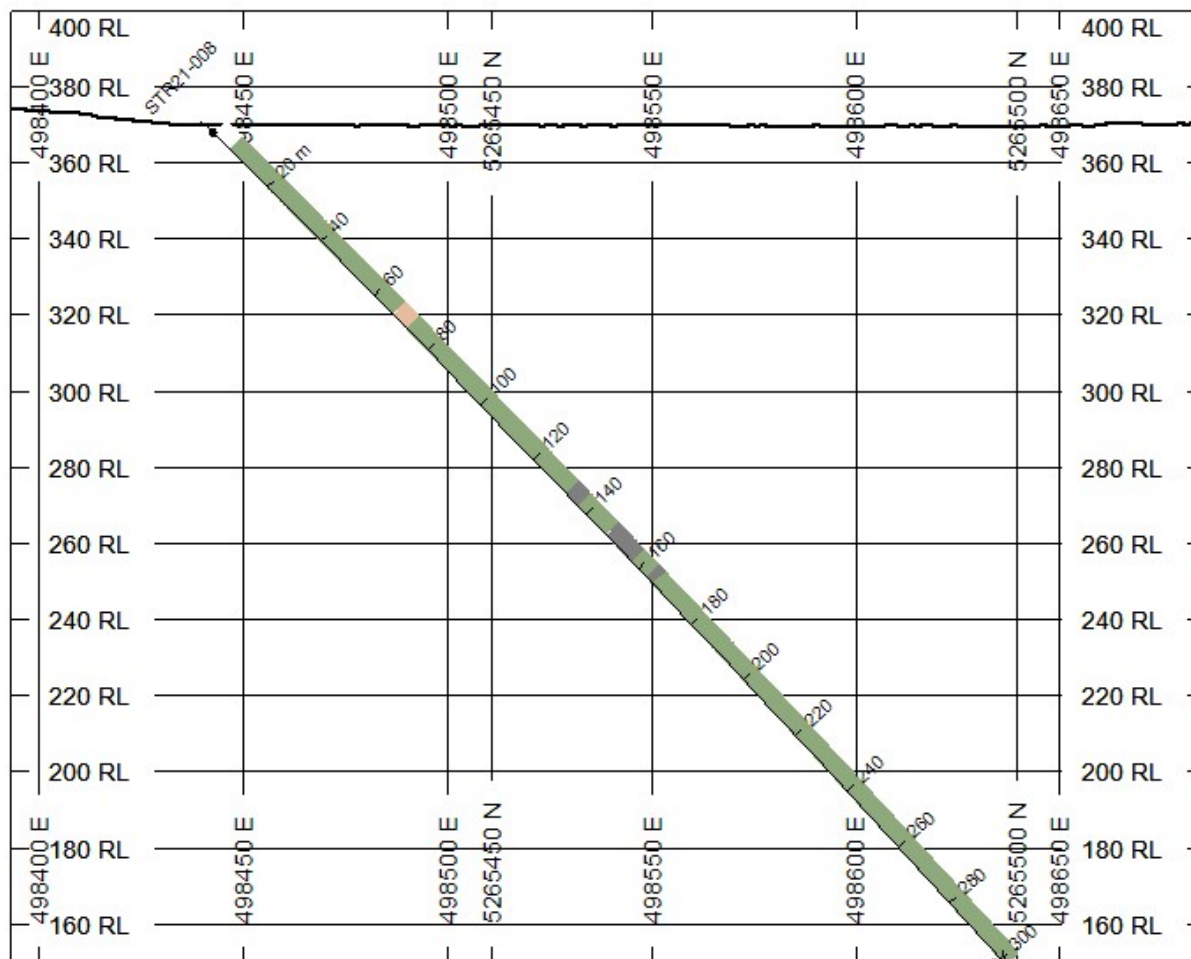
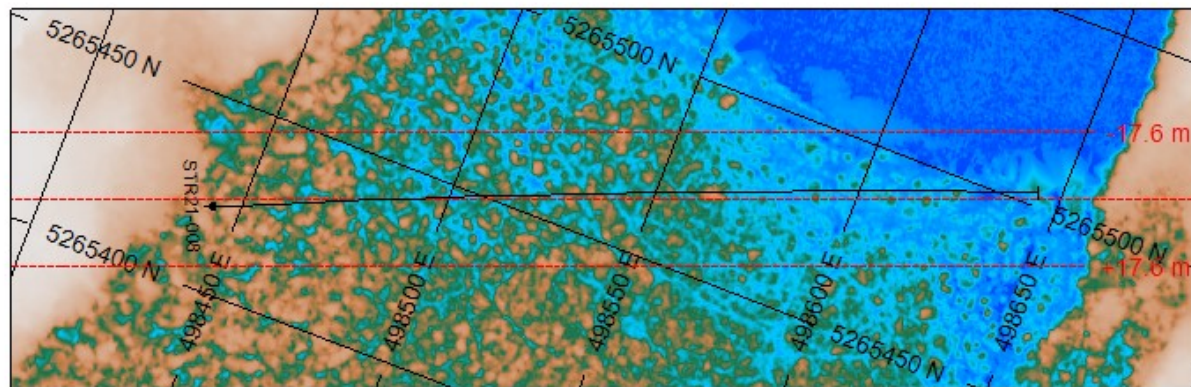
# Battery Mineral Resources

## Shining Tree

### STR21-007

Azimuth: 301 Dip: -50





## HOLES PLOTTED

TOTAL 1

STR21-008

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

LABEL

Overburden

Argillite

Mafic Volcanics

Fault

### ASSAYS

Ag\_ppm

Co\_ppm

L/R

R

L

TEXT

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RANGE

Min 3

Min 100

### SECTION SPECS:

REF. PT. E, N 498539 m 5265461 m

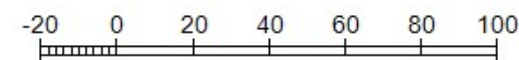
EXTENTS 313.7 m 250.5 m

SECTION TOP, BOT 400.1 m 149.5 m

TOLERANCE +/- 17.6 m

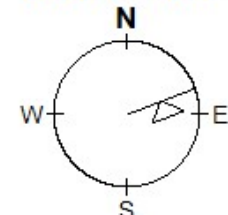
SCALE 1 : 2300

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 68.8°

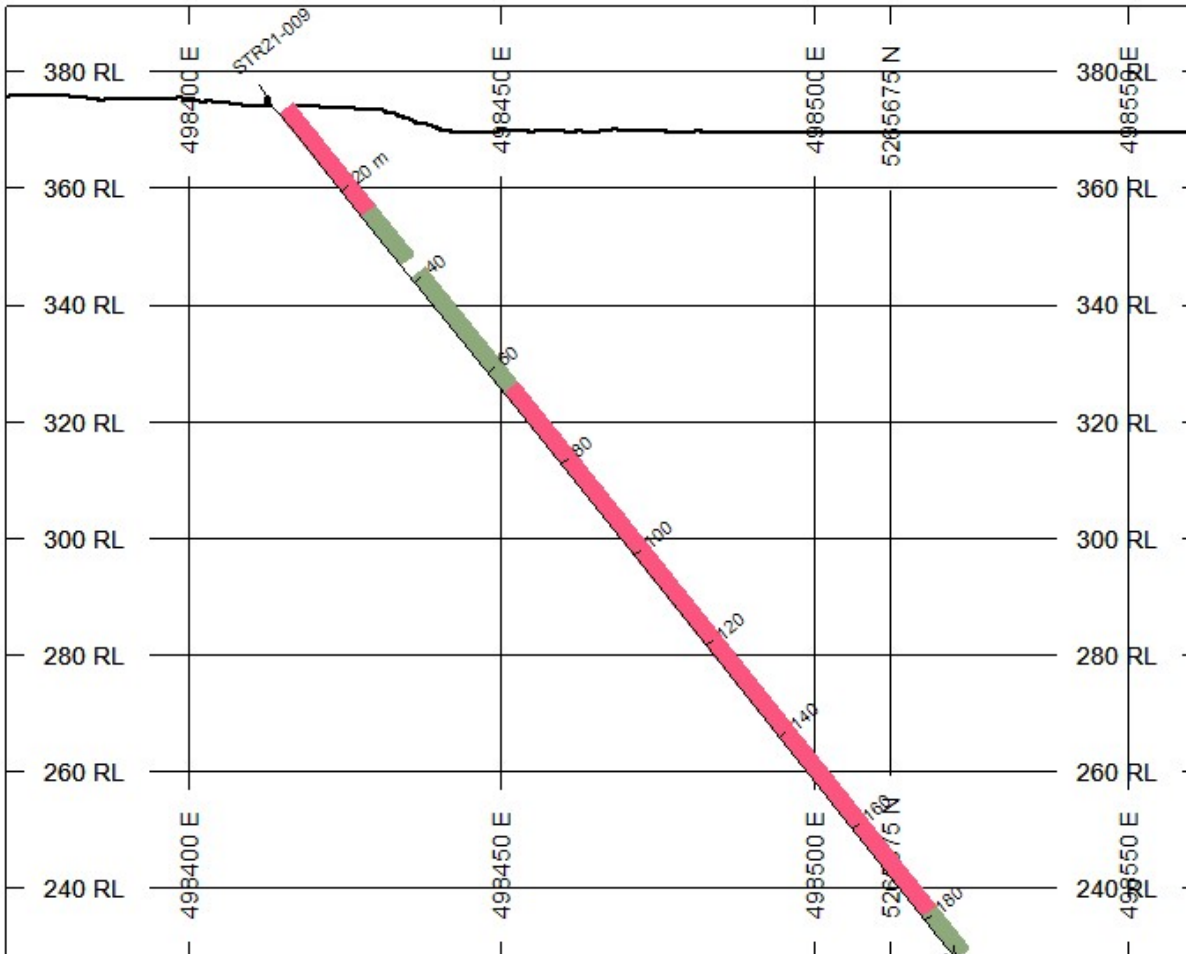
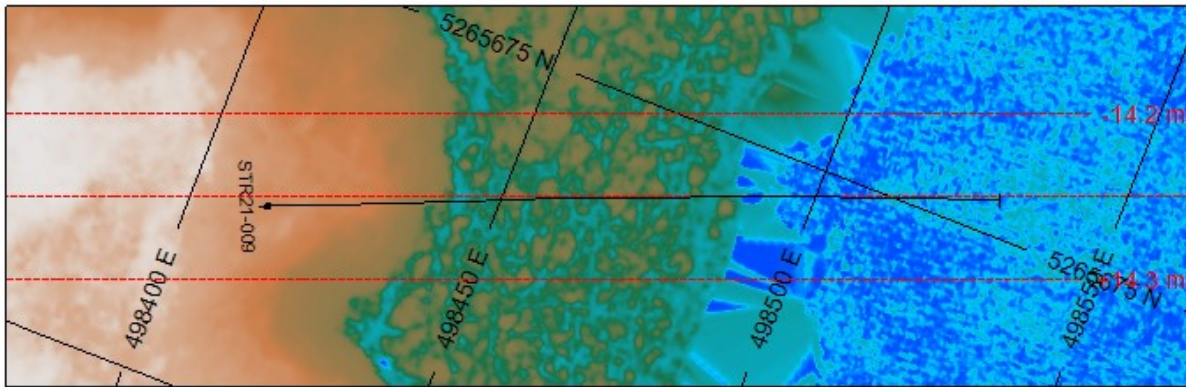


Battery Mineral Resources

Shining Tree

STR21-006

Azimuth: 228 Dip: -46



## HOLES PLOTTED

TOTAL 1

STR21-009

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

LABEL

Overburden

Mafic Volcanics

Porphyry

### ASSAYS

Ag\_ppm

Co\_ppm

L/R

R

L

TEXT

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RANGE

Min 3

Min 100

### SECTION SPECS:

REF. PT. E, N 498466 m 5265657 m

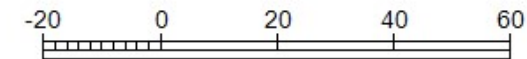
EXTENTS 204.6 m 163.4 m

SECTION TOP, BOT 391.3 m 227.9 m

TOLERANCE +/- 14.25 m

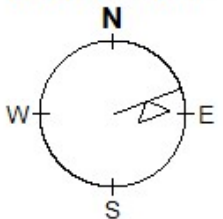
SCALE 1 : 1500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 68.7°



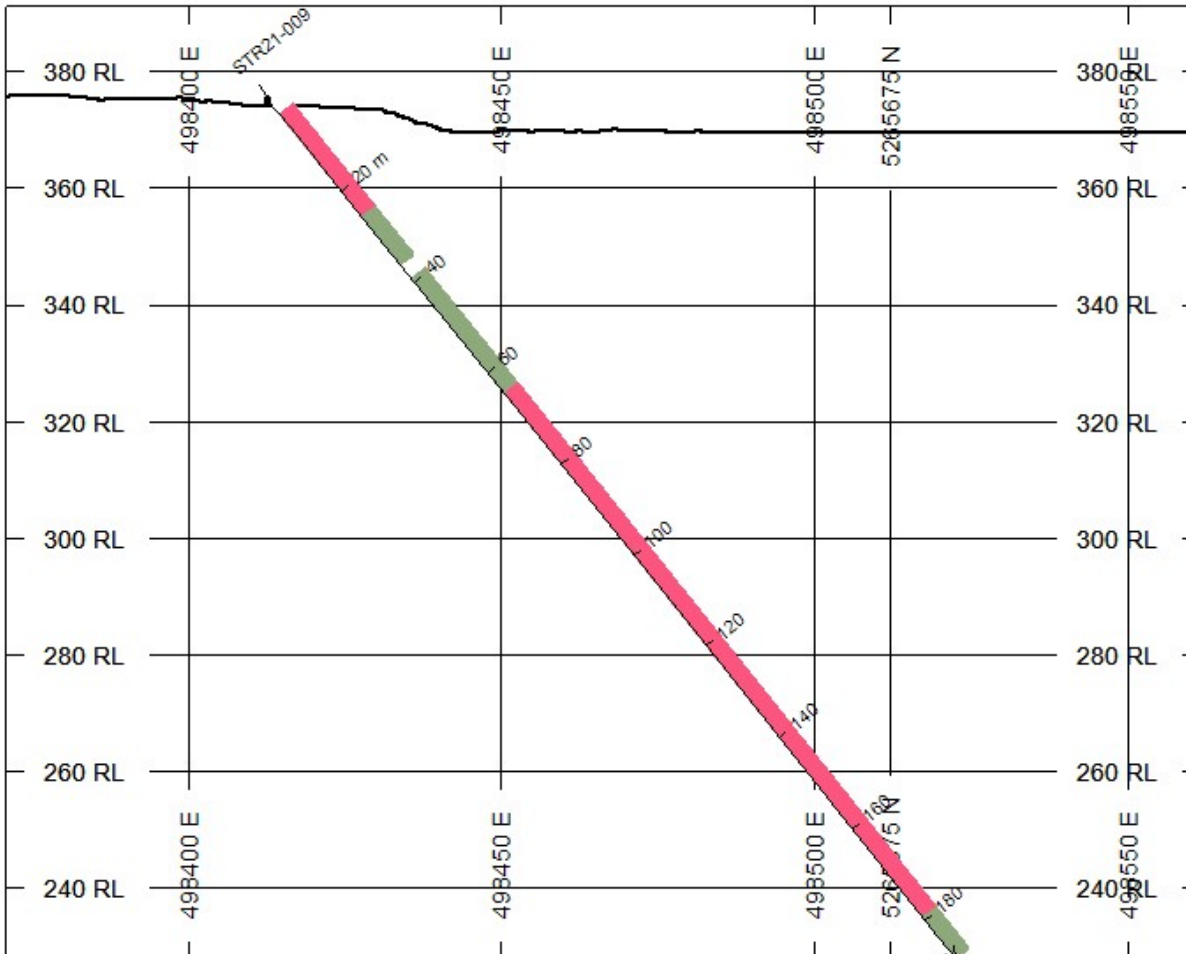
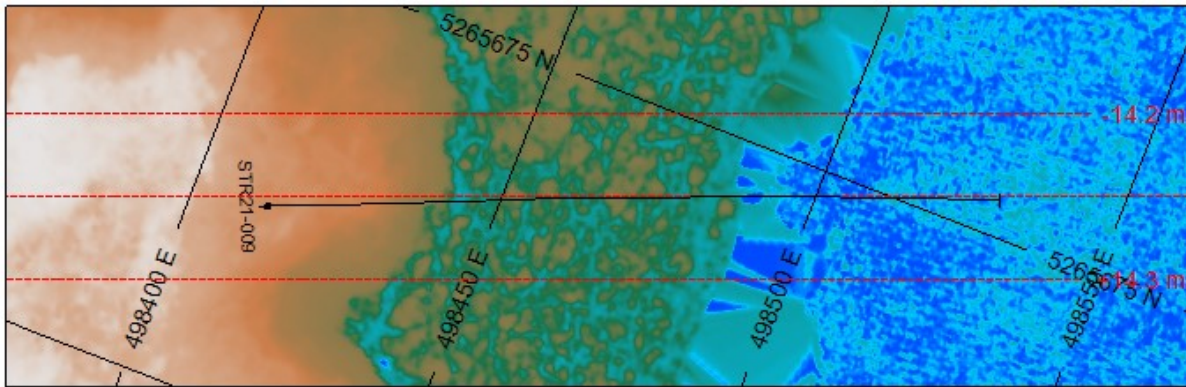
# Battery Mineral Resources

## Shining Tree

### STR21-009

Azimuth: 67 Dip: -51





## HOLES PLOTTED

TOTAL 1

STR21-009

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

LABEL

Overburden

Mafic Volcanics

Porphyry

### ASSAYS

Ag\_ppm

Co\_ppm

L/R

R

L

TEXT

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-----

RANGE

Min 3

Min 100

### SECTION SPECS:

REF. PT. E, N 498466 m 5265657 m

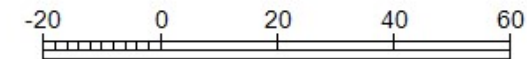
EXTENTS 204.6 m 163.4 m

SECTION TOP, BOT 391.3 m 227.9 m

TOLERANCE +/- 14.25 m

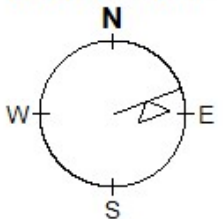
SCALE 1 : 1500

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 68.7°

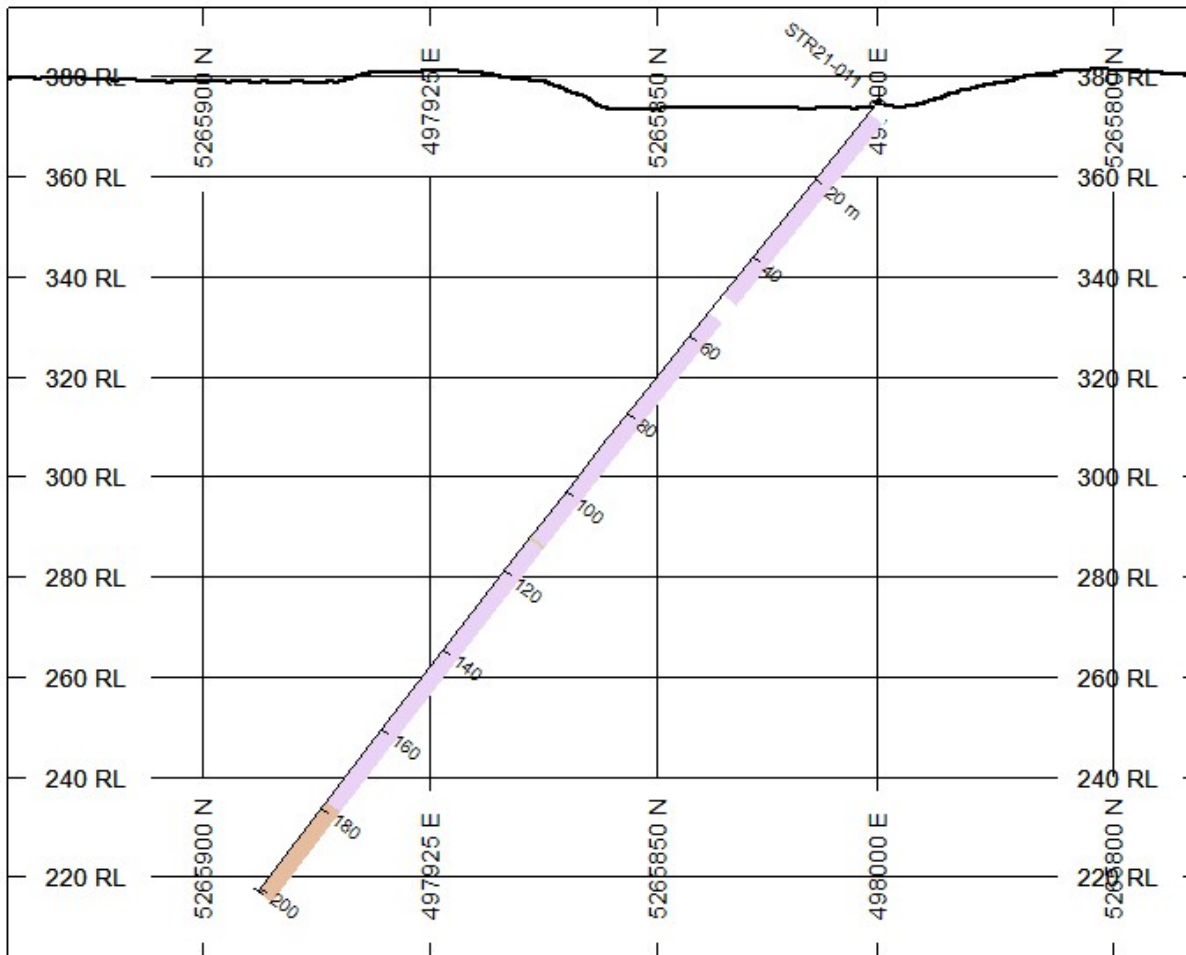
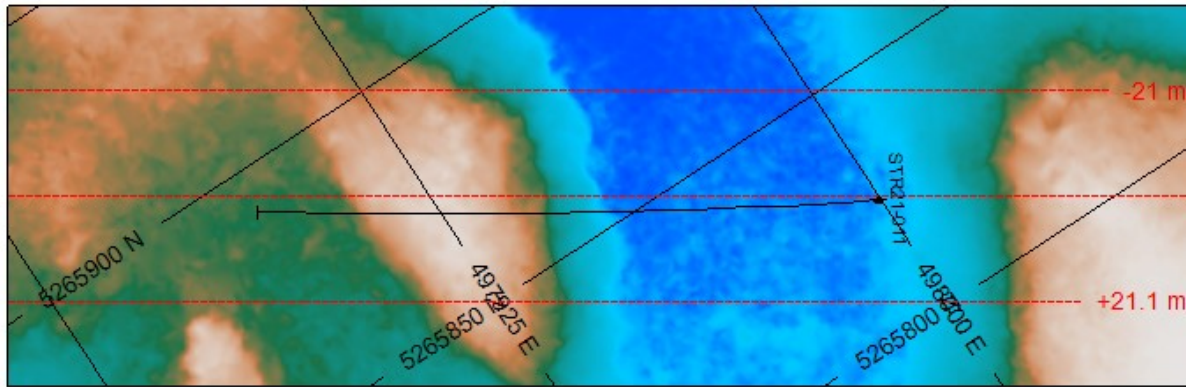


Battery Mineral Resources

Shining Tree

STR21-009

Azimuth: 67 Dip: -51



## HOLES PLOTTED

TOTAL 1

STR21-011

### TOPOGRAPHY

— Topography.GRD

### ROCK CODES

Lithology

PAT

Overburden

Siltstone

Nipissing Diabase

Quartz-Carbonate Vein

Aplite

### ASSAYS

Ag\_ppm

Co\_ppm

L/R

R

L

TEXT

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RANGE

Min 3

Min 100

### SECTION SPECS:

REF. PT. E, N 497954 m 5265856 m

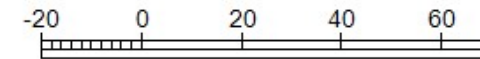
EXTENTS 238.7 m 190.6 m

SECTION TOP, BOT 394.1 m 203.4 m

TOLERANCE +/- 21.05 m

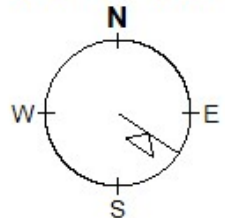
SCALE 1 : 1750

(m)



NAD83(2011) / UTM zone 17N

AZIMUTH = 123.3°



# Battery Mineral Resources

## Shining Tree

### STR21-011

Azimuth: 300 Dip: -50

Start	End	number	Classification	Contractor	Invoice #	USD	CDN	165814.97	165816.00	cost/unit	unit	1.03	check
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Drilling		1875 Drilling						245983.97	245,984	131.19	per meter		
	1-Feb-21	15-Feb-21		G4	152-363-2021215		84245.06						
	16-Feb-22	28-Feb-21		G4	152-363-2021228		86227.84						
	1-Mar-22	15-Mar-22		G4	152-363-2021315		75511.07						

Assays		538 Assays						24424.94	24425	45.40	per sample		
		28-Mar-21	88	STR21002	ALS	5451955	3936.71						
		30-Mar-21	46	STR21003	ALS	5451943	2075.04						
		28-Mar-21	33	STR21004	ALS	5451291	1501.59						
		14-Apr-21	63	STR21-005	ALS	5471977	2823.44						
		14-Apr-21	55	STR21-006	ALS	5471985	2465.64						
		13-Apr-21	70	STR21-007	ALS	5471993	3117.79						
		13-Apr-21	4	STR21-007	ALS	5471975	286.72						
		13-Apr-21	48	SDR21-008	ALS	5471980	2155.81						
		16-Apr-21	88	STR21-009	ALS	5472361	3932.73						
		19-Apr-21	6	STR21-010	ALS	5471982	299.07						
		13-Apr-21	31	STR21-011	ALS	5471991	1409.11						
		14-Apr-21	6	STR21-011	ALS	5471972	421.29						

Contractor MOB		14.00 MOB						2450.00	2450	175.00	per hour		
		20-Jan-21	7.00		CXS	5818	1225.00						
	25-Feb-21	25-Feb-21	7.00		CXS	5851	1225.00						

Trail Construction		76.0 Bulldozer						15200.00	15,200	200.00	per hour		
		20-Jan-21	30.00		CXS	5818	6000.00						
	15-Jan-21	30-Jan-21	20.00		CXS	5827	4000.00						
	1-Feb-21	15-Feb-21	20.00		CXS	5827	4000.00						
	25-Feb-21	25-Feb-21	6.00		CXS	5851	1200.00						

Accomodations		6.00 MOB						900.00	900	150.00	per day		
		20-Jan-21	3.00		CXS	5818	450.00						
	15-Jan-21	30-Jan-21	1.00		CXS	5827	150.00						
	1-Feb-21	15-Feb-21	2.00		CXS	5827	300.00						

Contractor MOB		7.00 MOB						1050.00	1050	150.00	per day		
		20-Jan-21	3.00		CXS	5818	450.00						
	15-Jan-21	30-Jan-21	1.00		CXS	5827	150.00						
	1-Feb-21	15-Feb-21	2.00		CXS	5827	300.00						
	25-Feb-21	25-Feb-21	1.00		CXS	5851	150.00						

Sampling			19.50 Drill Core				7800.00	7,800	400.00 per day
	1-Feb-21	15-Feb-21	10.0	CXS	5842	4000.00			
	16-Feb-21	1-Mar-21	9.5	CXS	5845	3800.00			

Rental			0.5 Skidoo				675.00	675	75.00 per day
	1-Feb-21	15-Feb-21	9.0	CXS	5842	675.00			

Rental			9.0 Trailer				450.00	450	50.00 per day
	1-Feb-21	15-Feb-21	9.0	CXS	5842	450.00			

Rental			6.00 Mobile Logging				7500.00	7,500	1250.00 per week
	1-Feb-21	28-Feb-21	4.0	CXS	5852	5000.00			
	1-Mar-21	15-Mar-21	2.0	CXS	5863	2500.00			

Rental			8.0 Logging				6000.00	6,000	750.00 per week
	1-Feb-21	28-Feb-21	4.0	CXS	5852	3000.00			
	1-Mar-21	15-Mar-21	2.0	CXS	5863	1500.00			
	15-Mar-21	30-Mar-21	2.0	CXS	5877	1500.00			

Sampling			8.0 Drill Core				3000.00	3,000	375.00 per day
	1-Feb-21	28-Feb-21	2.0	CXS	5852	750.00			
	1-Mar-21	15-Mar-21	2.0	CXS	5863	750.00			
	15-Mar-21	30-Mar-21	4.0	CXS	5877	1500.00			

Rental			10.0 Core Saw				500.00	500	50.00 per day
	1-Feb-21	28-Feb-21	4.0	CXS	5852	200.00			
	1-Mar-21	15-Mar-21	2.0	CXS	5863	100.00			
	15-Mar-21	30-Mar-21	4.0	CXS	5877	200.00			

Sampling			3.0 Drill Core				900.00	900	300.00 per day
	1-Feb-21	28-Feb-21	1.0	CXS	5852	300.00			
	1-Mar-21	15-Mar-21	1.0	CXS	5863	300.00			
	15-Mar-21	30-Mar-21	1.0	CXS	5877	300.00			

Rental			8.0 Core Racks				800.00	800	100.00 per week
	1-Feb-21	28-Feb-21	4.0	CXS	5852	400.00			
	1-Mar-21	15-Mar-21	2.0	CXS	5863	200.00			
	15-Mar-21	30-Mar-21	2.0	CXS	5877	200.00			



Supplies	1-Feb-21	28-Feb-21	2.0 Saw Blades 2.0	CXS	5852	700.00	700.00	700	350.00 per week
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Geological	12-Feb-21	9-Mar-21	92.0 Geological 92.0 Mike		Timesheet	8,165	8165.00	8,165	88.75 per hour
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Geological	1-Feb-21	31-Mar-21	19.5 Geological 19.5 Peter		Timesheet	18,750	18750.03	18,750	961.54 per day
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Geological	5-Feb-21	9-Mar-21	8.5 Geological 8.5 Frank		Timesheet	6,375	6375.00	6,375	750.00 per day
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Geological	5-Feb-21	11-Mar-21	21.0 Geological 21.0 Sean		Timesheet	14,700	14700.00	14,700	700.00 per day
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Geological	9-Feb-21	16-Feb-21	51.0 Geological 8.0 Andrew		Timesheet	4,200	26775.00	26,775	525.00 per day
	17-Feb-21	8-Mar-21	18.0 Nico			9,450			
	7-Feb-21	13-Mar-21	25.0 Ryan			13,125			

Reporting	19-Jul-21	12-Sep-21	2.5 2.5 Sean		Timesheet	1,750	1750.00	1,750	700.00 per day
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Per Diem	5-Feb-21	12-Sep-21	37.5 Rate 1 37.5		Timesheet	2,813	2812.50	2,813	75.00 per day
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Per Diem	7-Feb-21	7-Mar-21	45.5 Rate 2 45.5		Timesheet	6,825	6825.00	6,825	150.00 per day
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Per Diem	1-Feb-21	31-Mar-21	19.5 Rate 3 19.5		Timesheet	7,313	7312.50	7,313	375.00 per day
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Cost

20-Jan-21  
12-Sep-21

Invoiced  
Rounded  
Cost per  
units

0 check

1875		Added up		<b>411800</b>
		cells		
201	0.1072	232465		44144.96
126	0.0672	340115		27672.96
516	0.2752	269169		113327.36
432	0.2304	331414		94878.72
600	0.32	217543		131776

		1875					
232465	11	201	201				
340115	10	126	126				
269169	8-9	516	315	201			
331414	6-7	432	228	204			
217543	2-3-4-5	600	200	100	100	200	

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	01-Feb-21	28-Mar-21	20-Jan-21	20-Jan-21	20-Jan-21	
	15-Mar-21	16-Apr-21	25-Feb-21	25-Feb-21	15-Feb-21	
			Contractor	Trail	Food /	
	Drilling	Assays	MOB	Construction	lodging	
	245983.97	24424.94	2450	15200	900	
	245984	24425	2450	15200	900	
	131.19	45.4	175	200	150	
	1875	538	14	76	6	
	0	0	0	0	0	
<b>TOTALS</b>	<b>411800</b>	245984	24425	2450	15200	900
	0	26369.4848	2618.36	262.64	1629.44	96.48
		16530.1248	1641.36	164.64	1021.44	60.48
		67694.7968	6721.76	674.24	4183.04	247.68
		56674.7136	5627.52	564.48	3502.08	207.36
		78714.88	7816	784	4864	288

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	20-Jan-21	01-Feb-21	01-Feb-21	01-Feb-21	01-Feb-21	01-Feb-21	01-Feb-21
	25-Feb-21	01-Mar-21	15-Feb-21	15-Feb-21	15-Mar-21	30-Mar-21	30-Mar-21
Contractor					Rental Core	Rental Core	
MOB	Sampling Core	Rental Skidoo	Rental Trailer	Trailer	Trailer	Trailer	Sampling Core
	1050	7800	675	450	7500	6000	3000
	1050	7800	675	450	7500	6000	3000
	150	400	75	50	1250	750	375
	7	19.5	9	9	6	6	8
	0	0	0	0	0	0	0
	1050	7800	675	450	7500	6000	3000
	112.56	836.16	72.36	48.24	804	643.2	321.6
	70.56	524.16	45.36	30.24	504	403.2	201.6
	288.96	2146.56	185.76	123.84	2064	1651.2	825.6
	241.92	1797.12	155.52	103.68	1728	1382.4	691.2
	336	2496	216	144	2400	1920	960

	01-Feb-21 30-Mar-21	01-Feb-21 30-Mar-21	01-Feb-21 30-Mar-21	01-Feb-21 28-Feb-21	12-Feb-21 09-Mar-21	01-Feb-21 31-Mar-21	05-Feb-21 09-Mar-21
	Rental Core	Rental Core	Rental Core	Supplies	Blades	Geological	Geological
	Saw	Sampling Core	Racks	Mike	Peter	Frank	
	500	900	800	700	8165	18750.03	6375
	500	900	800	700	8165	18750	6375
	50	300	100	350	88.75	961.54	750
	8	3	8	2	92	19.5	8.5
	0	0	0	0	0	0	0
	500	900	800	700	8165	18750	6375
	53.6	96.48	85.76	75.04	875.288	2010	683.4
	33.6	60.48	53.76	47.04	548.688	1260	428.4
	137.6	247.68	220.16	192.64	2247.008	5160	1754.4
	115.2	207.36	184.32	161.28	1881.216	4320	1468.8
	160	288	256	224	2612.8	6000	2040

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05-Feb-21	07-Feb-21	19-Jul-21	05-Feb-21	07-Feb-21	01-Feb-21
11-Mar-21	13-Mar-21	12-Sep-21	12-Sep-21	07-Mar-21	31-Mar-21
Geological	Geological	Reporting	Food / lodging	Food / lodging	Food / lodging
14700	26775	1750	2812.5	6825	7312.5
14700	26775	1750	2813	6825	7313
700	525	700	75	150	375
21	51	2.5	37.5	45.5	19.5
0	0	0	0	0	0
14700	26775	1750	2813	6825	7313
1575.84	2870.28	187.6	301.5536	731.64	783.9536
987.84	1799.28	117.6	189.0336	458.64	491.4336
4045.44	7368.48	481.6	774.1376	1878.24	2012.5376
3386.88	6168.96	403.2	648.1152	1572.48	1684.9152
4704	8568	560	900.16	2184	2340.16