

**BC Geological Survey  
Assessment Report  
38004**

**Ministry of Energy & Mines**  
Energy & Minerals Division  
Geological Survey Branch

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

<b>TYPE OF REPORT (type of survey(s))</b> Geochemical Sampling and Mapping	<b>TOTAL COST</b>	<b>\$29,224.71</b>
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AUTHOR(S) \_\_\_\_\_ SIGNATURE(S) \_\_\_\_\_  
R. T. Henneberry "signed and sealed"

NOTICE OF WORK NUMBER(S) / DATE(S) \_\_\_\_\_ MX-4-693 \_\_\_\_\_ YEAR OF WORK \_\_\_\_\_ 2018

STATEMENT OF WORK – CASH PAYMENT EVENT NUMBERS / DATE(S) \_\_\_\_\_ 5720055

PROPERTY NAME \_\_\_\_\_ Princeton Project \_\_\_\_\_

CLAIM NAME(S) (on which work was done) \_\_\_\_\_ Placer Mt 1053414 \_\_\_\_\_

COMMODITIES SOUGHT \_\_\_\_\_ Gold \_\_\_\_\_  
MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN \_\_\_\_\_  
MINING DIVISION \_\_\_\_\_ Similkameen \_\_\_\_\_  
NTS: 092H/01, 092H/02 \_\_\_\_\_ TRIM 092H018, 092H028 \_\_\_\_\_

LATITUDE \_\_\_\_\_ LONGITUDE \_\_\_\_\_ (at centre of work)  
NORTHING 5451500 \_\_\_\_\_ EASTING 685500 \_\_\_\_\_ UTM ZONE \_\_\_\_\_ 10 \_\_\_\_\_ MAP DATUM \_\_\_\_\_ NAD 83

OWNER 1 \_\_\_\_\_ OWNER 2 \_\_\_\_\_  
**Sydney Wilson** \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
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Vancouver, B.C. V6G 1S2 \_\_\_\_\_

OPERATORS (who paid for work) \_\_\_\_\_  
**Tasca Resources Ltd.** \_\_\_\_\_

MAILING ADDRESS \_\_\_\_\_  
Suite 830 – 1100 Melville Street \_\_\_\_\_  
Vancouver, B.C. V6C 6L6 \_\_\_\_\_

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)  
The Princeton Project is largely underlain by Eocene Princeton volcanoclastics and intrusives with Triassic Nicola Group volcanoclastics and clastics in two outliers in the northern section of the claim block. Excavator trenching in 2018 met with considerable success in Area 2.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS  
30654, 31762, 31933, 31962, 32838, 34468, 35073, 36108, 37058

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (In Metric Units)	On Which Claims	Project Costs AppORTioned
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GEOLOGICAL (scale, area)

- Ground, mapping
- Photo Interpretation

GEOPHYSICAL (line kilometres)

- Ground
  - Magnetic
  - Electromagnetic
  - Induced Polarization
  - Radiometric
  - Siesmic
  - Other
- Airborne

GEOCHEMICAL

(number of samples analyzed for)

- Soil
- Silt
- Rock
- Other

56                      1053414

DRILLING

(total metres, number of holes, size)

- Core
- Non-core

RELATED TECHNICAL

- Sampling / assaying
- Petrographic
- Mineralogical
- Metallurgic

PROSPECTING (scale, area)

PREPARATION / PHYSICAL

- Line/grid (kilometres)
- Topographic / Photogrammatic (scale, area)
- Legal Surveys (scale, area)
- Road, local access (kilometres)
- Trench (metres)
- Underground dev. (metres)
- Other

136.5                      1053414

TOTAL COST                      **\$29,224.71**

# **MAMMOTH GEOLOGICAL LTD.**

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## 2018 TRENCHING ASSESSMENT REPORT

### PRINCETON PROPERTY

Original Tenures: 1036473, 1036477, 1036483, 1053411 to 1053416

New Added Tenures: 1064302 to 1064321

Work Completed on Tenures: 1053414

Located in the Princeton Area

Similkameen Mining Division

BC TRIM Map Sheets 092H018, 092H019, 092H028, 092H029

UTM 685300E 5448250N Zone 10 NAD83

#### **Owner**

**Sydney Wilson.**

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#### **Operator**

**Tasca Resources Ltd.**

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Work Program Completed By  
Mammoth Geological Ltd.

R. Tim Henneberry, P.Geo.  
December 7, 2018

-2-  
SUMMARY

Tasca Resources Ltd. is earning a 100% interest, subject to a 2% Net Smelter Return (NSR) royalty, in the original 4,013 hectare Princeton Property by making cash payment of \$22,500, issuing 2,000,000 shares and completing \$1,000,000 in exploration over the next 3 years to Sydney Wilson, the property vendor.

The Princeton Property lies 35 kilometres south of Princeton, British Columbia and consists of 8 original claims and 30 newly staked claims, bringing the property package to 14,650 hectares. Road access is via Highway 3 south from Princeton to the Placer Mountain Forest Service Road a distance of approximately 37 kilometres, thence approximately 13 kilometres along the Placer Mountain Forest Service Road in a generally easterly direction to the 2018 trenching site.

The Princeton Project lies within an area of high geological potential in the Princeton area. While most of the focus has been on porphyry copper, prior exploration conducted by the property vendor and on the vendor's behalf by Windfire Capital Corp., suggests that the Princeton Project and surrounding area have excellent potential to host vein-hosted gold mineralization.

The original property block is largely underlain by Eocene Princeton Group volcanics with lesser Triassic Nicola Group rocks. The andesitic volcanics and fine clastic sediments of the Nicola Group outcrop as two distinct outliers in the northern section of the property: predominantly andesitic volcanics in the northwest and interbedded andesitic volcanics and fine clastic sediments in the northeast. The Princeton Group rocks outcrop through most of the claim block and consist largely of andesitic volcanics, ranging from fine grained through fragmental to agglomeratic, and a dacitic intrusive. In addition, smaller areas are underlain by rhyolite and tephra units and mafic and granodiorite intrusives.

The Princeton Project is being explored for auriferous quartz vein mineralization. Grid soil sampling, road soil sampling and lithochemical sampling in 2011 was successful in locating three areas of anomalous gold-sulphide mineralization. Follow up sampling in 2015 extended the main zone of quartz mineralization to the north suggesting a quartz corridor in the order of 500 metres in width, trending in a northwest direction. Area 2 represents the dominant area on the property where 16 samples, collected from outcrop and sub angular to angular quartz float boulders, returned gold values in excess of 10 grams per tonne. The 2018 Excavator Trenching traced the main Area 2 quartz vein over 120 metres along strike before disappearing beneath increasing overburden in both directions. Highlight bedrock assays include 217 g/t Au over 0.9 metres and 99.7 g/t Au over 0.9 metres.

A two phase exploration program is recommended for the property. Phase I will concentrate on the entire 14,650 hectares and will consist of airborne magnetics, historical database review and ground truthing of the airborne and historic database anomalies at a cost of \$165,000. Phase II will consist of 1500 metres of diamond drilling: 1000 metres at the 2018 bedrock trenching quartz vein and 500 metres at the other two gold-bearing quartz vein zones in Area II. Phase II is estimated at \$260,000.

The cost of the 2018 excavator trenching program was \$29,224.71.

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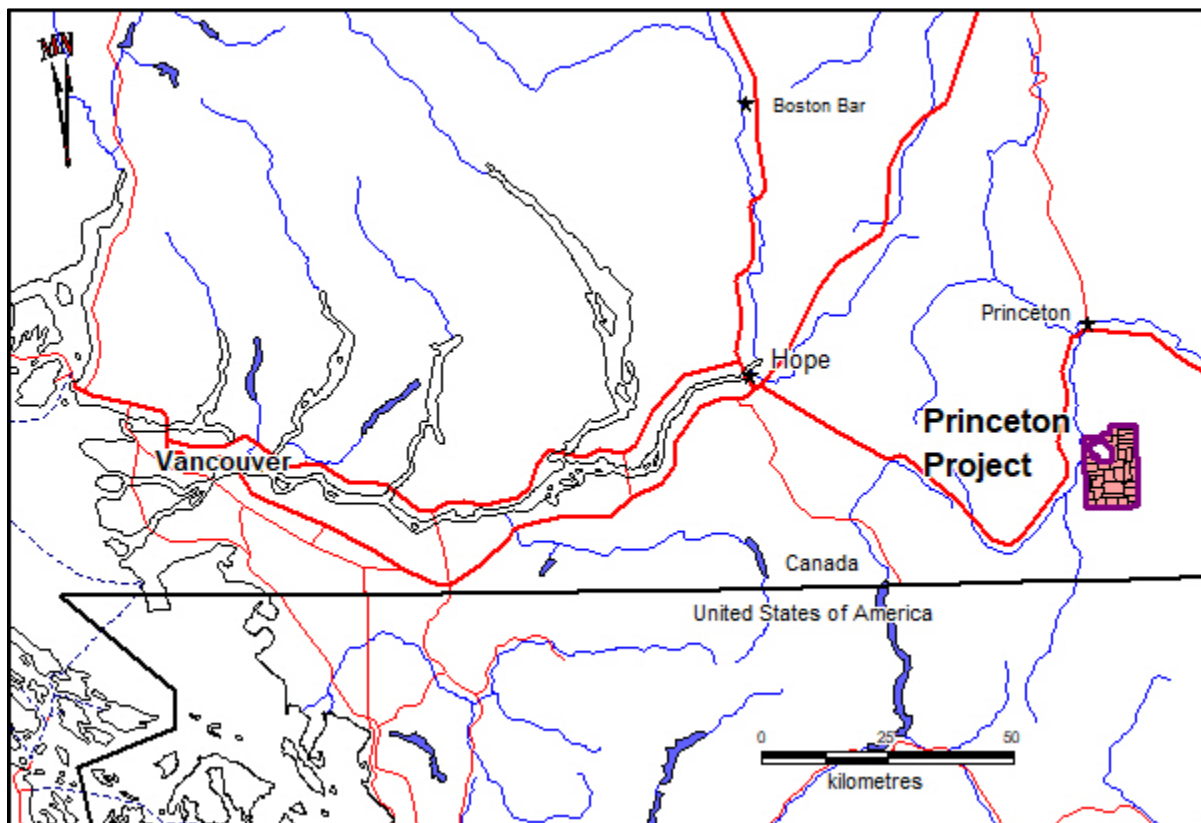
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The purpose of this report is to document the 2018 geochemical and trenching program on the Princeton property to support the exploration expenditures. Unless otherwise specified all UTM coordinates are reported and all maps are projected in Zone 10 in the UTM datum NAD 83.

### LOCATION AND ACCESS

The Princeton Project is located approximately 35 kilometres south of Princeton, British Columbia. Road access is via Highway 3 south from Princeton to the Placer Mountain Forest Service Road a distance of approximately 37 kilometres, thence approximately 13 kilometres along the Placer Mountain Forest Service Road in a generally easterly direction to the 2018 trenching site.

**Figure 1. Princeton Property Location**



PHYSIOGRAPHY AND CLIMATE

Topographic relief on the Princeton Project is moderate to steep with elevations ranging from 1220 metres above sea level (ASL) on Placer Creek at the western claim boundary to 2105 metres ASL on Placer Mountain on the eastern claim boundary. Vegetation consists of thick stands of jack pine and spruce on north facing slopes and significantly sparser vegetation on remaining slopes. Jack pine stands are locally falling victim to the Mountain Pine Beetle infestation. Underbrush is limited but heavy deadfall is prevalent in many areas. Rock outcrops are rare except on ridges, in deep cut valleys and where recent clear cut logging and road building has exposed previously covered bedrock. Much of the property and surrounding region has been clear cut logged.

Climate conditions typify continental type characterized by generally warm, dry summers with field seasons extending from mid-May through to mid-October. Winters are cold with significant snow accumulations and temperatures dipping to minus 20° Celsius for extended periods.

CLAIMS

The eight original claims for the Princeton Project lie on BC TRIM sheets 092H018 and 092H028 and are shown in yellow in Figure 2. After the trenching discovery documented in this report, thirty additional claims were staked as shown in pink on Figure 2. These claims lie on BC TRIM sheets 092H018, 092H019, 092H028 and 092H029. The property now consists of 38 claims totaling 14,649.83 hectares as shown in Table 1.

**Table 2. Princeton Project Agreement Terms**

Payments			Work Commitments	
Date	Cash	Shares	Expenditures of	Completed by
September 21, 2016	\$5,000	100,000		
November 4, 2017	\$10,000	350,000		
November 4, 2018	\$7,500	300,000	\$300,000	February 4, 2019
November 4, 2019		800,000	\$400,000	February 4, 2020
November 4, 2020		450,000	\$300,000	February 4, 2021
<b>Totals</b>	<b>\$22,500</b>	<b>2,000,000</b>	<b>\$1,000,000</b>	

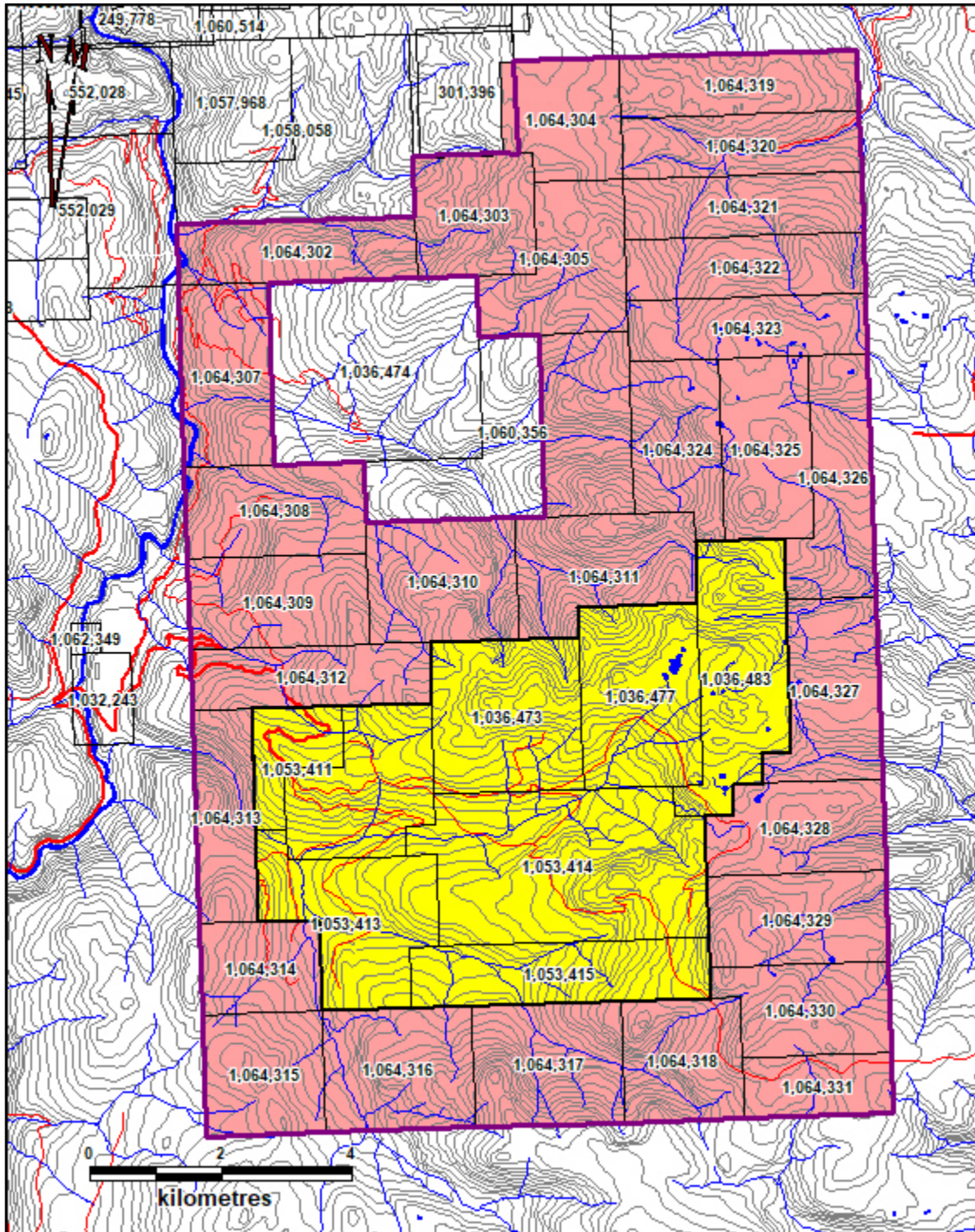
The eight original claims are held 100% by Mr. Sydney Wilson of Vancouver, B.C. (Owner 129188). The 30 additional claims are being held in trust by Frances Jean Macpherson of Quesnel, B.C. (Owner 116548) to the benefit of Tasca Resources Ltd. These claims are now included in the Wilson agreement. Tasca is earning a 100% interest, subject to a 2% Net Smelter Return (NSR) royalty, in the Princeton Project by making cash payments and share issuances and completing exploration expenditures under the terms outlined in Table 2.

**Table 1. Princeton Project Mineral Tenures**

Title Number	Claim Name	Owner	Work Program	Map Number	Issue Date	Good To Date	Area (ha)
1036473	PLACER MT NW	129188 (100%)		092H	2015/jun/02	2019/oct/31	527.8364
1036477		129188 (100%)		092H	2015/jun/02	2019/oct/31	506.7071
1036483	PLACER MT NE	129188 (100%)		092H	2015/jun/02	2019/oct/31	527.7862
1053411	PLACER CREEK W	129188 (100%)		092H	2017/jul/25	2019/oct/31	168.9215
1053412	PLACER CREEK E	129188 (100%)		092H	2017/jul/25	2019/oct/31	422.3459
1053413	PLACER CREEK S	129188 (100%)		092H	2017/jul/25	2019/oct/31	485.8818
1053414	PLACER MT	129188 (100%)		092H	2017/jul/25	2019/oct/31	950.5215
1053415	PLACER MT S	129188 (100%)		092H	2017/jul/25	2019/oct/31	422.578
1064302	CM 1	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.3673
1064303	CM 2	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.3317
1064304	CM 3	116548 (100%)		092H	2018/nov/06	2019/nov/06	316.1684
1064305	CM 4	116548 (100%)		092H	2018/nov/06	2019/nov/06	400.6448
1064306	CM 5	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.7315
1064307	CM 6	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.6697
1064308	CM 7	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.8139
1064309	CM 8	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.9111
1064310	CM 9	116548 (100%)		092H	2018/nov/06	2019/nov/06	422.1017
1064311	CM 10	116548 (100%)		092H	2018/nov/06	2019/nov/06	422.0969
1064312	CM 11	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.7703
1064313	CM 12	116548 (100%)		092H	2018/nov/06	2019/nov/06	295.6647
1064314	CM 13	116548 (100%)		092H	2018/nov/06	2019/nov/06	253.5364
1064315	CM 14	116548 (100%)		092H	2018/nov/06	2019/nov/06	338.1475
1064316	CM 15	116548 (100%)		092H	2018/nov/06	2019/nov/06	422.6842
1064317	CM 16	116548 (100%)		092H	2018/nov/06	2019/nov/06	422.6845
1064318	CM 17	116548 (100%)		092H	2018/nov/06	2019/nov/06	338.1474
1064319	CM 18	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.2222
1064320	CM 19	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.2788
1064321	CM 20	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.3354
1064322	CM 21	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.4046
1064323	CM 22	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.4618
1064324	CM 23	116548 (100%)		092H	2018/nov/06	2019/nov/06	337.5633
1064325	CM 24	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.7749
1064326	CM 25	116548 (100%)		092H	2018/nov/06	2019/nov/06	379.8186
1064327	CM 26	116548 (100%)		092H	2018/nov/06	2019/nov/06	401.1454
1064328	CM 27	116548 (100%)		092H	2018/nov/06	2019/nov/06	359.0518
1064329	CM 28	116548 (100%)		092H	2018/nov/06	2019/nov/06	380.2644
1064330	CM 29	116548 (100%)		092H	2018/nov/06	2019/nov/06	338.0972
1064331	CM 30	116548 (100%)		092H	2018/nov/06	2019/nov/06	211.3566
	<b>38 claims</b>						<b>14649.825</b>



Figure 2. Princeton Property Claim Map



## EXPLORATION HISTORY

According to the British Columbia Ministry of Energy, Mines and Petroleum Resources Assessment Report Database, the ground presently comprising the Princeton Project has little exploration history prior to the work programs completed since 2008 by Mr. Sydney Wilson, the property vendor.

In the western part of the Princeton property, known as the Placer Creek Block, a three year program of Mobile Metal Ion (MMI) soil sampling was completed. A total of 296 samples were obtained over a 1000 metre long by 1500 metre grid. This program was successful in locating an open 1300 metre long by 50 to 500 metre wide silver anomaly and a two line Au cluster anomaly 250 metres wide by 300 metres long (Henneberry and Wesa, 2010b).

In the southern part of the Princeton property, known as the Placer Mountain Block, a north-south and an east-west reconnaissance MMI soil line was completed resulting in the collection of 59 Mobile Metal Ion (MMI) soil samples. Several multi-element spot anomalies and small cluster anomalies were located (Henneberry, 2008). A second phase of MMI soil sampling, consisting of four lines totaling 50 samples, was completed in the summer of 2010. This survey was followed by prospecting later in the fall resulting in discovery of quartz vein float that returned analytical values ranging from 10.3 ppb Au to 21 grams per tonne Au (Henneberry and Wesa, 2010c).

Wilson subsequently optioned the Placer Creek and Placer Mountain blocks, along with the expired Willis Creek block to the north, collectively the Princeton Project, to Windfire Capital Corp. in 2011 as Windfire's Qualifying Transaction for the TSX Venture Exchange. Windfire completed a two stage exploration program of grid soil sampling and rock sampling concentrating on the quartz vein float area on the Placer Mountain Block in 2011. The rock sampling included Area 2, where 13 of 36 samples of sub rounded to angular quartz float and outcrop comprising rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite returned gold values in excess of 10,000 ppb gold, or 10 grams per tonne, to a maximum of 66,237 ppb or 66.2 grams per tonne gold from three separate locations. Two phases of initial broad then follow up tighter grid soil sampling suggest that Area 2 hosts multiple, linear, parallel gold-in-soil anomalies with the strongest anomaly striking a minimum of 500 metres to a maximum of 650 metres in a northwestern direction. Road soil and rock geochemistry surveys and prospecting identified several other areas that also require follow up. (Henneberry and Wesa, 2012).

Windfire allowed its option to lapse in late 2013 and Wilson subsequently downsized the property to the key Placer Creek and Placer Mountain blocks and optioned the revised Princeton Project to 1007879 B.C. Ltd in July 2014. The numbered company completed a small program later in July to maintain the claims in good standing.

The 2014 1007879 B.C. Ltd. program consisted of property mapping and road soil sampling over the outlying areas of the property. The mapping indicated the property is by underlain Triassic Nicola Group volcanics in the northwest and Eocene Princeton Group volcanics and intrusives throughout the remainder of the property. The road soil sampling suggested the Nicola volcanics were anomalous in gold and copper, with a large 300 metre by 300 metre area of anomalous copper soil values highlighted. Gold anomalies in the Nicola volcanics consisted of numerous spot anomalies. Very few gold anomalies and minimal copper anomalies were located in the Princeton Group rocks. The rock sampling found one weakly anomalous gold value in a bleached area within Princeton volcanics. (Henneberry, 2014).

1007879 B.C. Ltd. completed a prospecting and mapping program over three newly added claims July 2015. They took a combined 38 road soil samples from two areas and 29 quartz float samples, identifying a significant quartz corridor through the heart of the property. Two of the 29 quartz float samples returned significant gold values: 25,278 ppb Au and 1012 ppb Au, from the same general area. The newly added northern claims are underlain by Nicola Group volcanics and clastic sediments as a small outlier within Princeton Group andesitic volcanics and volcanics. Local beds of tephra and rhyolite were also noted. (Henneberry, 2015).

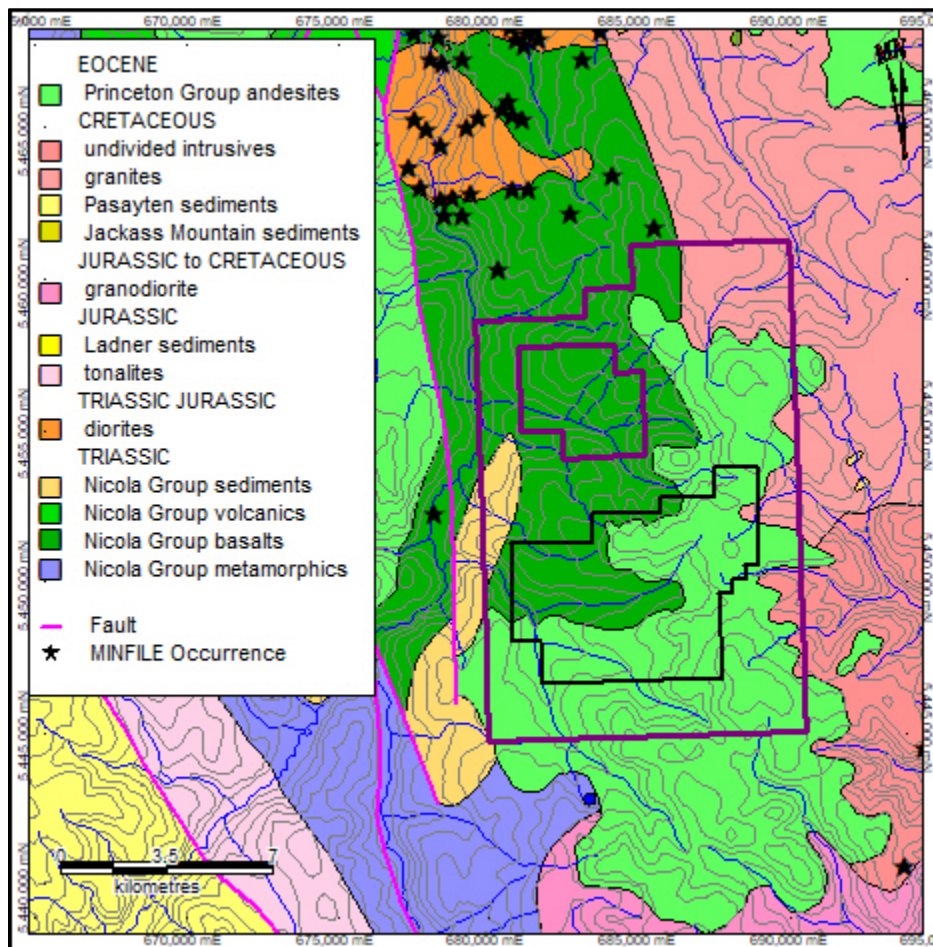
Tasca Resources Ltd. acquired the property in 2016 and completed a small exploration program in 2017, focusing on the strike extension of the newly highlighted Quartz Corridor, trending through the east central section of the property. A total of 98 road soil samples were taken in two areas, with the samples taken in Area 2a, the northern extension of the Quartz Corridor, returning anomalous gold-in-soil through a large section of the length traversing across the corridor. (Henneberry, 2017).

## REGIONAL GEOLOGY

The Princeton Project is located at the southern end of the Intermontane Belt and the adjoining eastern margin of the Coast Belt. The southern Intermontane Belt is dominated by volcanic rocks and sediments of the Upper Triassic Nicola Group, comprising the Quesnel Terrane. These rocks are intruded by co-magmatic plutons of the Late Triassic and Early Jurassic Copper Mountain and Hedley intrusions, and comprise a west-facing magmatic arc. The island arc assemblage is cut by post-accretionary intrusions of the Late Jurassic and Cretaceous Eagle Plutonic Complex and Osprey Lake Batholith, and is unconformably overlain by volcanic rocks and clastic sediments of the Cretaceous and Tertiary Spences Bridge and Princeton groups. This post-accretionary volcanism and sedimentation is, in part, controlled by a system of northerly striking strike-slip faults.

The Methow Terrane lies across the Pasayten fault to the west and occupies the eastern margin of the Coast Belt in the Princeton map area. This terrane comprises a wedge of clastic sediments derived in part from Quesnellia rocks to the east. The sequence consists of fine grain sediments and mafic volcanics of the Lower to Middle Jurassic Ladner Group, overlain by a thin section of sandstone and conglomerate of the Upper Jurassic "Thunder Lake Sequence", which is, in turn, followed by a thick section of coarse clastics of the partly coeval Cretaceous Jackass Mountain and Pasayten Groups.

Figure 3. Princeton Property Regional Geology



The oldest rocks in the Placer Mountain area belong to the Triassic Nicola Group. They consist of basaltic and undivided volcanics and overlying clastic sediments which are metamorphosed to amphibolite grade in the central portion of the map area.

The Nicola Group rocks have been intruded by early Jurassic granites and undivided intrusives, Jurassic tonalites and Jurassic to Cretaceous granodiorites. The youngest units are Eocene andesites of the Princeton Group.

The southwestern corner of the map area is transected by the Pasayten Fault and is underlain by clastic sediments of the Jurassic Ladner and Jackass Mountain Groups and the Cretaceous Pasayten Group.

### **Princeton Property Area Geology**

With the exception of government geological surveys there has been no mapping on the Princeton property, prior to the mapping completed by the author as part of the 2014 exploration program. The following unit descriptions are taken from the British Columbia Ministry of Energy, Mines and Petroleum Resources Digital Geology Release 2.2 (Cui, Y., Katay, F. and Sinclair, L.; 2013).

The oldest rocks are the Triassic Nicola Group which consists of three main units: a sedimentary unit comprised of shale, argillite, siltstone, sandstone, phyllite, tuff, local polymict conglomerate, limestone, greenstone and chloritic phyllite; the Eastern Volcanic Facies comprised of basaltic mafic breccia and tuff with augite and hornblende-phyric clasts; and local intercalated argillite and amphibolite, foliated diorite, mylonite and chlorite schist derived from Nicola Group.

The Nicola Group rocks have been intruded by Jurassic to Cretaceous and Cretaceous intrusives. The Jurassic to Cretaceous intrusions consist of granodioritic rocks, and the Cretaceous intrusions comprise granite and alkali feldspar granite rocks.

The youngest rocks on the property are the Eocene Princeton Group, consisting of intermediate, locally mafic and felsic, flows and volcanoclastic rocks.

The geological map of the area from the 2013 Digital Geology of British Columbia (Cui et al, 2013) (Figure 4) shows the Princeton Property is underlain largely by Eocene Princeton Group andesites and Triassic Nicola Group Eastern Facies basaltic rocks.

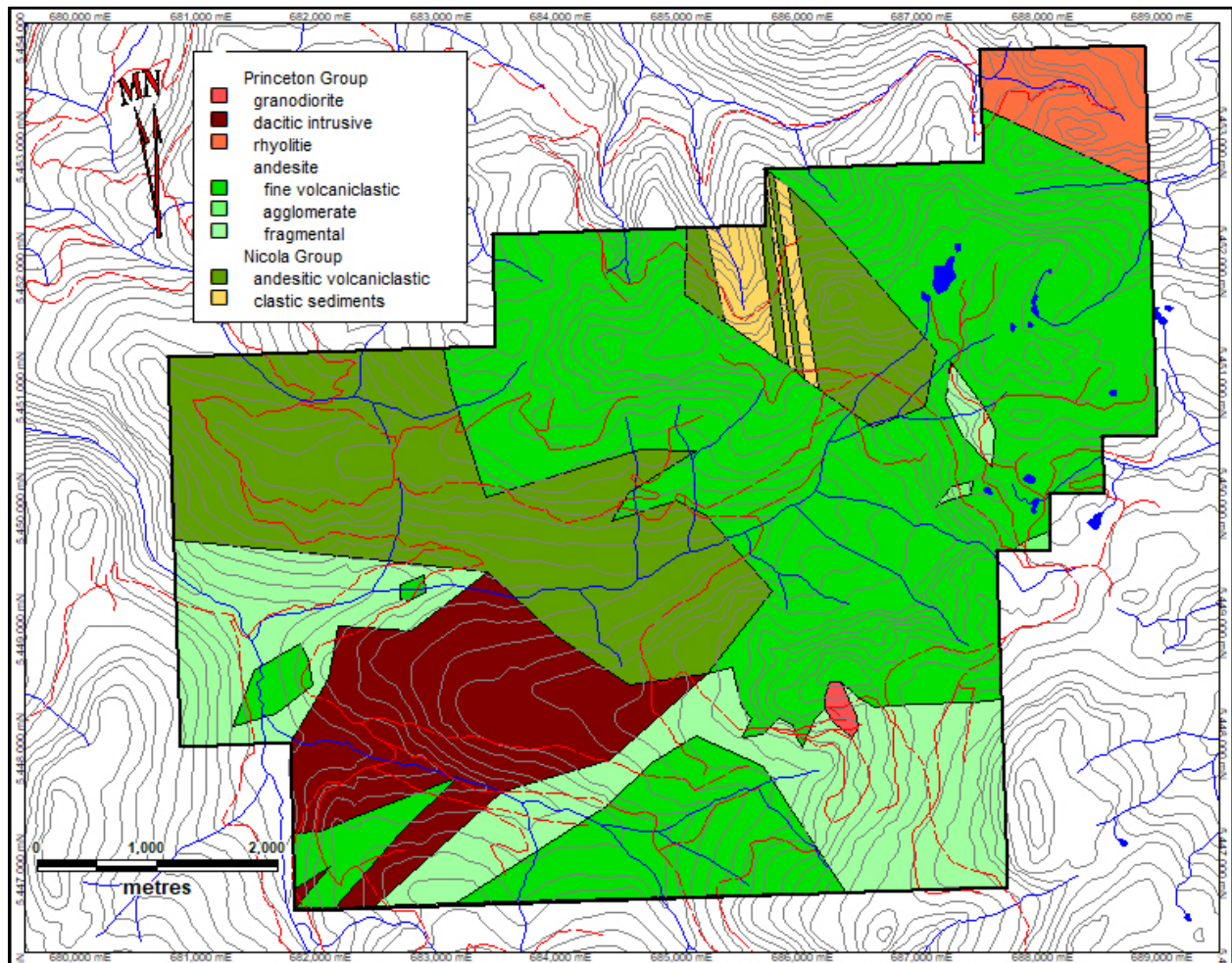
### **PROPERTY GEOLOGY**

The geology map of the key historic block of the Princeton property is based on 179 outcrop locations and is shown in Figure 4. The property is largely underlain by Eocene Princeton Group rocks, with two outliers of Triassic Nicola Group rocks in the northern and western sections of the property, respectively.

The dominant unit remains the Eocene Princeton Group, predominantly fine, fragmental and agglomeratic volcanoclastics on an andesitic affinity and a dacitic intrusive. Nicola Group rocks, andesitic volcanoclastics and fine clastic sediments outcrop as two distinct areas in the northern and western sections of the property, separate by the Eocene volcanoclastics. The mapping appears to show the Nicola Group rocks are significantly more aerially restricted than in the latest version of the British Columbia Geological Survey Digital Geology (Cui et al, 2013).

The Nicola Group rocks were mapped as two outliers through the northern and western sections of the claim group. The western outlier is comprised predominantly of grey weathering, dark grey green fine grained andesitic volcanoclastics. Outcrop exposures varied from blocky to platy and fissile. Limonite and iron oxides were noted in most exposures, with the rock appearing almost gossanous in some locations. A few instances of bull quartz blow outs were noted with quartz approximately 1 to 4 metres long by 20 to 50 centimetres wide. Mineralization ranged from nothing to disseminated pyrite in concentrations ranging from trace to 2% to 3%.

**Figure 4. Princeton Main Block Property Geology**



The northern outlier is comprised of the same andesitic volcanic along with interbedded fine clastic sediments. The sediments are rusty weathering, largely argillaceous rocks, with some siltstone interbeds. These units strike  $158^{\circ}$  to  $160^{\circ}$  and dip  $73^{\circ}$  E with one exception, where a  $020^{\circ}$  /  $60^{\circ}$  W strike and dip were recorded. The beds range from centimetres to tens of centimetres in thickness and carry traces to less than  $\frac{1}{2}\%$  pyrite.

The Princeton Group rocks outcrop through most of the claim block and consist largely of andesitic volcanoclastics and a dacitic intrusive. Small units include rhyolite and tephra units and mafic and granodiorite intrusives.

The andesitic volcanoclastics are the most widespread, occurring throughout the claim block and consisting largely of two units: a finer grained dark grey black green unit and a similar unit with fragments to clasts of plagioclase or more typical porphyritic andesite. These units weather grey brown to tan brown and locally show weak to strong groundmass hematite. Exposures range from blocky to platy to shattered. Locally, the fragmental contains larger clast and bombs to the point where it is agglomeratic. Commonly, the agglomerate shows varying hues of pink red due to hematite content. Bombs from 10 to 20 centimetres in size were noted.

The dacitic intrusive is a dull grey brown color on weathered surface and cleaner grey brown on fresh surface. The rock displays plagioclase laths to 5 millimetres and hornblende laths to 5 millimetres. Biotite is also observed, though it has been weathered to limonite in some instances. Quartz eyes to 7 millimetres were also observed. Outcrop is typically blocky.

One exposure of grey white weathering, grey white quartz eye rhyolite was noted in the northeast corner of the claim block. Clay was noted along fractures along with iron oxides and limonite.

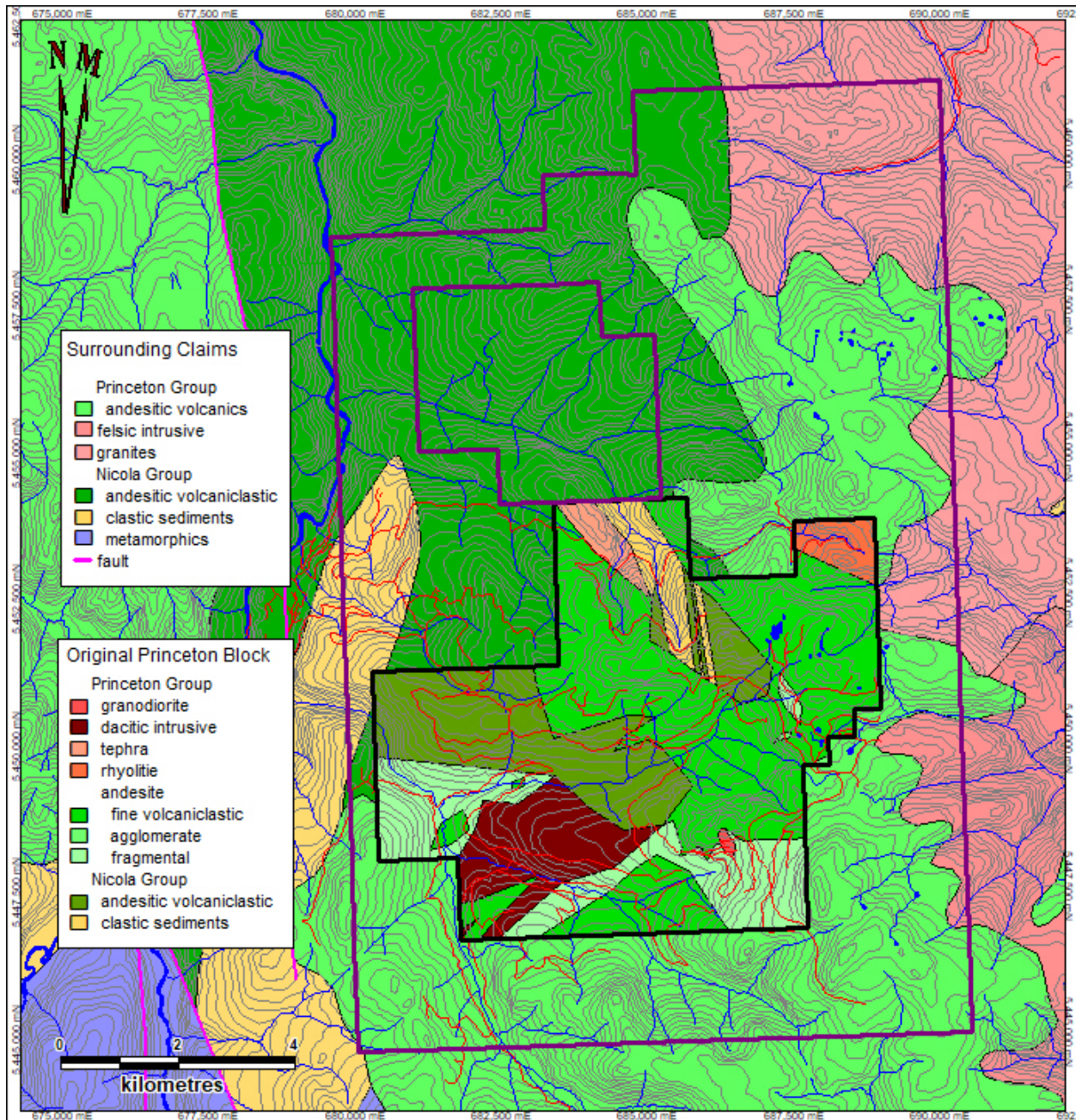
An ash flow tuff or tephra unit was mapped along a 300 metre stretch of logging road in the northern part of the claim block. The unit is cream to grey white in color and fine grained and almost appears rhyolitic in texture in one exposure. Local organic fragments were noted within the unit. The Cation Exchange Capacity was tested and found to be low in the mapped exposures.

Two exposures of a grey black, fine to medium grained intrusive dyke were noted in the southwest section of the claim block. No contacts were noted.

A small granodiorite plug, which may be a more granodioritic phase of the Princeton Group dacitic intrusive, was noted in the eastern section of the claim block. The rock is grey white on both the weathered and fresh surface. It is coarse grained and carries quartz and feldspar. Hornblende laths to 1 centimetre were observed. The one exposed contact has considerable associated limonite and iron oxides.

The recently added claims surrounded and lying to the north of the original Princeton block have not yet been mapped.

Figure 4a. Princeton Property Geology



## MINERALIZATION

The Princeton Project is currently being explored for auriferous quartz vein mineralization. Grid soil sampling, road soil sampling and lithochemical sampling in 2011 was successful in locating three areas of anomalous gold-sulphide mineralization. Follow up sampling in 2015 extended the main zone of quartz mineralization to the north suggesting a quartz corridor in the order of 500 metres in width, trending in a northwest direction. The 2018 Excavator Trenching forming the basis of this report traced the main quartz vein over 120 metres along strike before disappearing beneath increasing overburden in both directions.



**Table 3. 2011 to 2018 Rock Sampling Highlights**

Sample	Area	Description	ppb Au	Sample	Area	Description	ppb Au
PM11-EBR02	1	angular quartz boulder float	397	PM11-EBR17	2	sub angular quartz vein float	3500
PM11-EBR03	1	angular quartz boulder float	272	PM11-EBR18	2	sub angular quartz vein float	1550
PM11-EBR04	1	quartz vein in outcrop	102	PM11-EBR19	2	angular quartz vein float	1971
PM11-EBR07	1	sub-angular quartz boulder float	333	PM11-EBR20	2	angular quartz vein float	3395
PM11-EBR09	1	quartz vein in altered granodiorite	163	PM11-EBR22	2	angular quartz vein float	5028
PM11-GWR01	2	0.65 m wide quartz vein	14937	PM11-EBR25	2	angular quartz vein float	30547
PM11-GWR02	2	0.5 m wide quartz vein	23149	PM11-EBR26	2	angular quartz vein float	19002
PM11-GWR03	2	0.55 m wide quartz vein	315	PM11-GWR01A	2	angular quartz vein float	5129
PM11-GWR04	2	0.55 m wide quartz vein	4478	PM11-GWR02A	2	quartz vein grab	8569
PM11-GWR05	2	quartz vein grab	10075	PM11-GWR02B	2	0.19 m brecciated andesite	601
PM11-GWR06	2	1.0 m wide quartz vein	2607	PM11-GWR02C	2	0.31 wide quartz vein	43799
PM11-GWR07	2	quartz vein grab	9769	PM11-GWR02D	2	0.18 m altered andesite	323
PM11-GWR08	2	2.5 m wide quartz vein	13831	PM11-GWR02E	2	0.20 m altered argillite	167
PM11-GWR09	2	0.5 m wide quartz vein	782	PM11-GWR02F	2	0.48 m wide quartz vein	66237
PM11-GWR24	2	sub angular quartz vein float	1123	297552	2	angular to sub angular	108500
PM11GWR65	2	angular quartz vein float	5536	297553	2	angular to sub angular	37200
PM11GWR66	2	angular quartz vein float	25653	297554	2	angular to sub angular	115500
PM11GWR67	2	angular quartz vein float	60708	PM11-EBR28	3	angular argillite float with quartz	935
PM11GWR68	2	angular quartz vein float	65939	PM11GWR70	4	sub angular quartz vein float	176
PM11GWR69	2	angular quartz vein float	47900	PM11GWR71	4	sub angular quartz vein float	106
14806	2	0.5 m wide quartz vein	476	838462	5	sub angular to subrounded	25278
PM11-EBR14	2	angular quartz vein float	1645	838480	5	angular to sub angular	150
PM11-EBR15	2	angular quartz vein float	115	838488	5	angular to sub angular	1012
PM11-EBR16	2	sub angular quartz vein float	12546				

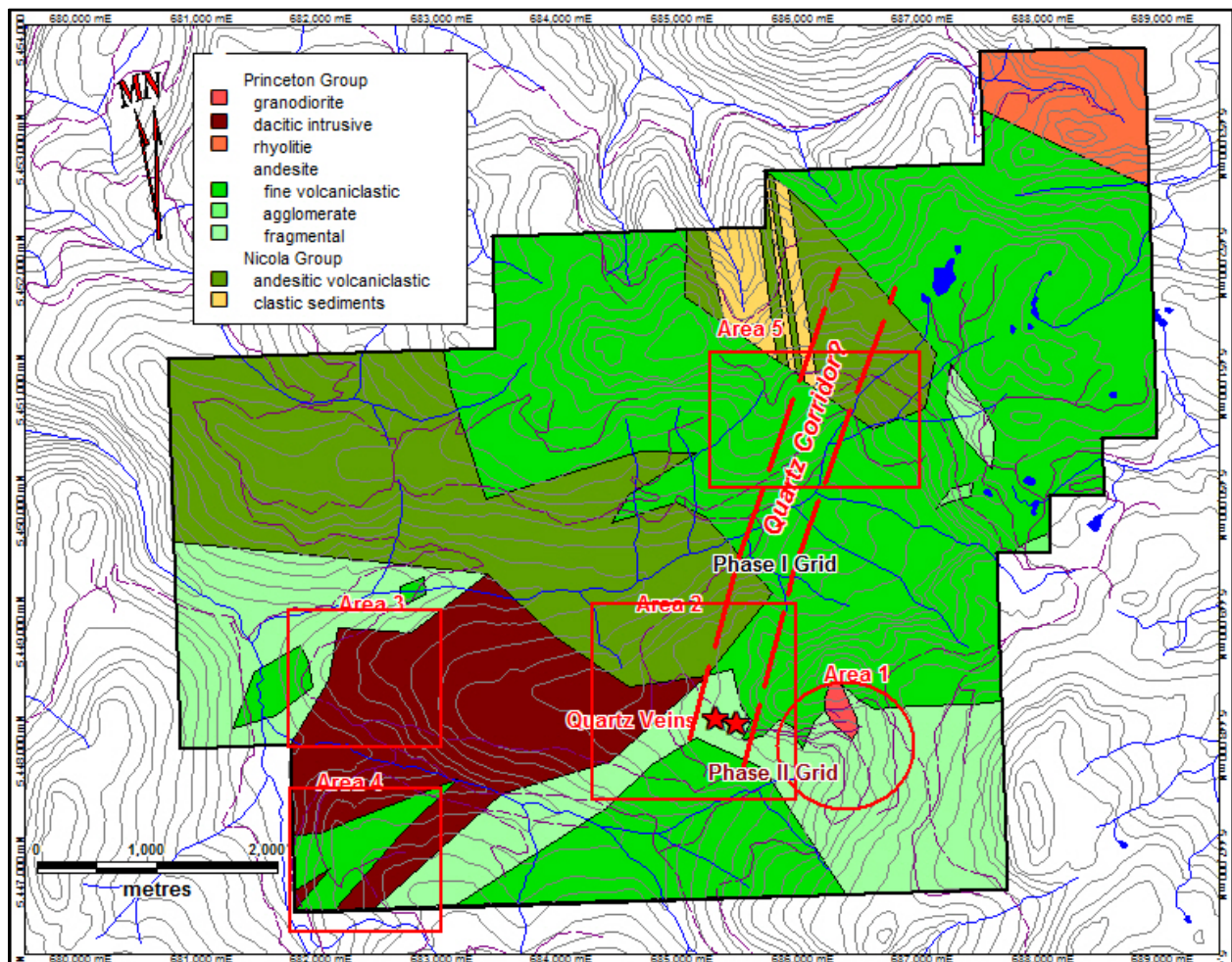
**Table 4. 2018 Excavator Trenching Highlights**

Trench	from to	g/t Au	m width	Trench	from to	g/t Au	m width
PM 1	3m to 6m	4.90	3	PM 3	2m to 3.1m	2.60	1.1
PM 2	2m to 5.5 m	17.29	3.5	PM 4	1m to 3.7m	2.50	2.7
PM 2	extension	217.00	0.9	PM 5	14m to 16m	1.11	2
PM 2	extension	99.70	0.9	PM 6	10 to 12.3m	3.11	2.3

Table 3 presents highlights of the lithochemical analytical results within the claim block. Table 4 summarizes the highlights of the excavator trenching program. Figure 5 shows the location of the mineralized areas relative to the property boundaries. Area 2 represents the dominant area on the property where 16 samples, collected from outcrop and sub angular to angular quartz float boulders, returned gold values in excess of 10 grams per tonne. Prospecting outlined three distinct areas of quartz float and outcrop composed of rusty weathered, limonite stained quartz with trace to 5%, very fine grain, disseminated pyrite. Quartz vein material locally exhibits remnant vugs and cellular box work texture.

The 2018 trenching was able to trace the main vein structure approximately 120 metres along strike before the vein zone disappeared beneath thick overburden cover in both directions. Trenches were cut perpendicular to vein strike with short distances opened in each direction along the vein where possible. Mineralization is confined to the quartz veins or within the first metre of the andesitic host rock. The quartz vein ranges from 0.3 to 1.8 metres in width and consists of white quartz with limonite fractures and irregular limonitic patches and a rare vuggy texture.

Figure 5. Princeton Main Block Mineralized Areas



Soil geochemistry conducted over Area 2 was successful in highlighting multiple, linear, parallel gold-in-soil anomalies with the largest being 500 to 650 metres in length.

2018 TRENCHING PROGRAM

Table 5. 2018 Excavator Trenching Statistics

Trench	start		end		Azimuth	metres			volume m3
	83Z10E	83Z10N	83Z10E	83Z10N		length	width	depth	
PM1	685329	5448294	685330	5448283	153	14	1	1.7	23.8
PM2	685308	5448272	685312	5448266	158	7.5	1	1.01	7.6
PM2 extension	685304	5448272	685314	5448272	62	8.6	2.6	1.45	32.4
Pit 1	685299	5448264				4.5	2.5	0.3	3.4
PM3	685286	5448261				5.6	4.5	3	49
PM4	685262	5448256	685262	5448251	168	5.5	1	1.27	7
PM5	685240	5448259	685241	5448240	170	17	1	2.28	39
PM6	685250	5448260	685252	5448245	178	15	1	2.26	34
PM7	685247	5448126				5	2.5	4	50
PM8	685232	5448078				5	1.5	3	22.5
PM9	685236	5448156				3	1	3	9
PM10	685460	5448318				3	1	2.5	7.5
PM11	685466	5448275				4	1	3.5	14
PM12	685467	5448278				5	1	1.7	8.5
PM13	685468	5448268				4.3	1	1.3	5.6
PM14	685475	5448241				4	1	1.3	5.2
PM15	685483	5448197				7	1	1.5	10.5
PM16	685347	5448293	685348	5448285	174	10.5	1	2.06	21.6
PM17	685362	5448292	685356	5448295	174	8	1	3.25	26
<b>Total</b>						<b>136.5</b>			<b>376.6</b>

The 2018 trenching program was directed at the main quartz vein area within Area II as well as the areas of the angular quartz float in Area II in an effort to locate the bedrock sources of the gold-bearing angular quartz float. A total of 17 trenches and one pit were opened as shown in Table 5 and plotted on Figure 6.

In addition, 5 samples of angular quartz vein float were found and sampled, again as shown in Figure 6. The complete sample results are shown in Table 6, with the composites plotted on Figure 6.

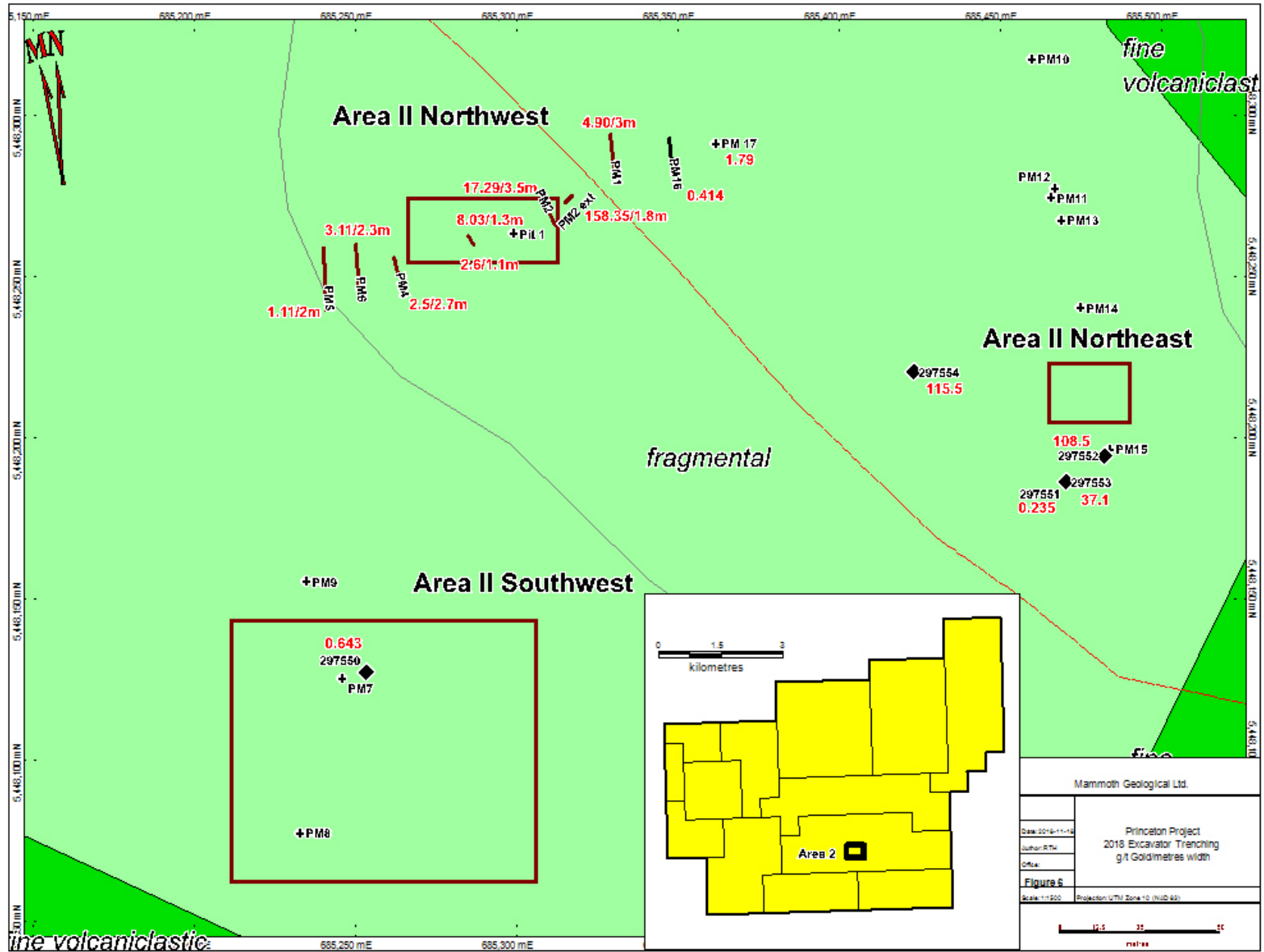


Table 6. 2018 Sample Results

Number	Trench	Distance	83Z10E	83Z10N	Description	m width	cl	ch	li	he	go	si	cb	sh	ppm Au
297501	PM1	0 to 1	685329	5448294	andesite	1	x		x		x		x		0.009
297502	PM1	1 to 2	685329	5448293	andesite	1	x		x		x		x		0.007
297503	PM1	2 to 3	685329	5448292	andesite	1	x								0.019
297504	PM1	3 to 4	685329	5448291	andesite	1	x						x		0.075
297505	PM1	4 to 5	685329	5448290	andesite	1	x							x	14.55
297506	PM1	5 to 6	685329	5448289	andesite	1	x						x		0.074
297507	PM1	6 to 7	685330	5448289	andesite	1	x						x		0.071
297508	PM1	7 to 8	685330	5448288	andesite	1									0.01
297509	PM1	8 to 9	685330	5448287	andesite	1	x								0.016
297510	PM1	9 to 10	685330	5448286	andesite	1	x				x				0.004
297511	PM1	10 to 11	685330	5448285	andesite	1			x		x	x			0.006
297512	PM1	11 to 12	685330	5448284	andesite	1			x		x	x			0.01
297513	PM1	12 to 13	685330	5448283	andesite	1	x				x				0.009
297514	PM1	13 to 14	685330	5448282	andesite	1	x								0.004
297515	PM 2	0 to 1	685308	5448272	andesite	1	x		x		x				0.009
297516	PM 2	1 to 2	685309	5448271	andesite	1	x		x		x				0.018
297517	PM 2	2 to 3	685309	5448270	andesite	1	x		x		x				0.065
297518	PM 2	3 to 4	685310	5448270	quartz vein	1									48.1
297519	PM 2	4 to 4.5	685310	5448269	quartz vein	0.5									16.25
297520	PM 2	4.5 to 5.5	685311	5448268	andesite	1				x	x				4.22
297521	PM 2	5.5 to 6.5	685311	5448268	andesite	1				x	x				0.049
297522	PM 2	6.5 to 7.5	685312	5448267	andesite	1				x	x				0.033
297523	Pit 1		685299	5448264	andesite	0.55			x					x	0.088
297524	PM2 ext		685315	5448273	quartz vein	0.9									217
297525	PM 2 ext		685317	5448275	quartz vein	0.9									99.7
297526	Pit 1		685299	5448264	quartz stringers	0.75									13.85
297527	PM3	0 to 1	685260	5448261	andesite	1	x	x	x		x				0.156
297528	PM3	1 to 2	685261	5448261	andesite	1	x	x	x		x				0.092
297529	PM3	2 to 3	685262	5448261	quartz vein	1.1			x						2.6
297530	PM3	3 to 4	685263	5448261	andesite	1	x	x	x		x				0.442
297531	PM 4	0 to 1	685262	5448256	andesite	1	x		x						0.144
297532	PM 4	1 to 2	685262	5448255	andesite	1	x		x						0.714
297533	PM 4	2 to 3	685262	5448254	quartz vein	0.5									11.65
297534	PM 4	3 to 4	685262	5448254	andesite	1.2	x		x		x				0.168
297535	PM 4	4 to 5	685262	5448252	quartz vein	0.3									0.235
297536	PM 4	5 to 6	685262	5448252	andesite	1					x				0.056
297537	PM 5	11 to 12	685241	5448246	andesite	1	x		x	x					1.56
297538	PM 5	12 to 13	685241	5448245	andesite	1	x		x	x					0.058
297539	PM 5	13 to 14	685241	5448244	andesite	1	x		x	x					0.047
297540	PM 5	14 to 15	685241	5448243	andesite	1	x		x	x					0.112
297541	PM 5	15 to 16	685241	5448241	quartz vein	0.15									12.95
297542	PM 5	16 to 17	685241	5448240	andesite	0.85	x		x	x					0.203
297543	PM 5	17 to 18	685241	5448240	andesite	1	x		x	x					0.278
297544	PM 6	9 to 10	685251	5448250	andesite	1	x		x						0.061
297545	PM 6	10 to 11	685251	5448249	andesite	1	x		x						0.056
297546	PM 6	11 to 12	685251	5448248	quartz vein	0.3									21.6
297547	PM 6	12 to 13	685251	5448247	andesite	1	x		x						0.61
297548	PM 6	13 to 14	685251	5448246	andesite	1	x		x						0.145
297549	PM 6		685251	5448248	quartz composite	grab									2.99
297550			685253	5448128	quartz boulder float	grab									0.643
297551			685470	5448187	quartz boulder float	grab									0.235
297552			685482	5448195	quartz boulder float	grab									108.5
297553			685470	5448187	quartz boulder float	grab									37.1
297554			685423	5448221	quartz boulder float	grab									115.5
297555	PM 16		685347	5448286	andesite	1	x					x			0.414
297556	PM 17		685356	5448295	andesite	grab	x		x	x					1.79

Legend: cl - clay, ch - chlorite, li - limonite, he - hematite, go - gossan, si - silicification, cb - carbonate, sh - shearing

The following trench descriptions are taken from the geological notes of on-site project geologist Gary Wesa.

**Trench PM1** is located on north side of the logging access road with objective of intersecting the quartz vein system, along strike (068°), to the east of first quartz vein surface exposures sampled immediately south of the road in 2011. This trench was excavated in strongly gossanous, clay altered andesitic volcanic rock marked by, overall, strong limonitic to hematitic staining. The andesite is strongly sheared, broken, fragmented to blocky, locally chippy to laminated, with abundant clay gouge bands developed. Limonite-yellow/orange to hematitic-red, steeply northward dipping, colour banding is common along length of trench. Thinly laminated to platy andesite, with clay partings, dipping at 88° N to vertical at a 100° azimuth, was observed in the trench 7 to 9 m from north end. The 10 to 11 metre interval from north end, is characterized by silicified/silica replaced andesite exhibiting a pale grey colour and a fine sucrosic texture with strong limonitic staining and variable clay alteration. The silicified andesite is broken and fragmented with distinct cross-jointing pattern. Wallrock-silicified zone contacts are characterized by narrow clay shear zones <1.0 centimetre width. Attitude of silicified zone: 85°N at 090° azimuth. Overall, entire trench exhibits “saprolitic” style clay alteration of the andesitic volcanic horizon. The silica-replaced andesitic zone appears to be roughly on strike with the massive quartz vein system exposed at surface south of the logging road.

Plate 1. Trench PM1



Excavating trench PM1



Saprolitic andesite showing sample channel

**Trench PM-1** was sampled with 1.0 metre continuous chip samples collected along trench wall, approximately 1.0 metre above the trench floor. A total of 14 samples were taken as shown in Table 6. The 4 to 5 metre interval returned 14.55 g/t Au (grams per tonne gold), while the silicified interval (10 to 11 metres) assayed 0.006 g/t Au. The trench was backfilled after the sampling.

**Trench PM2** was located on south side of the logging access road with objective of immediately intersecting the quartz vein system, along strike (068°). **Trench PM2** was excavated approximately two metres east of the first quartz vein surface exposures sampled south of the road in 2011. **Trench PM2** intersected the quartz vein, with the quartz vein subsequently followed by trenching along strike eastward and westward for a total length of 9.6 metres. The eastward extension, along strike, terminated due to the presence of the logging road. The westward extension terminated at the previously sampled (2011) quartz vein outcropping.

**Plate 2. Trench PM2 and PM2 Extension**



Trench 2



Trench 2 Extension

**Trench PM2** intersected a 1.5 metre wide, mottled, clear to white, massive bull quartz vein, striking 068° and hosting minor limonitic fractures and irregular limonitic patches, with rare vuggy textures. The quartz vein exhibits large, deep grooves; possible glacial striations, at 342°. The wallrock comprises fractured to blocky, locally friable, variably jointed, dark brownish-black andesite. The andesite is variably limonitic to hematitic stained and weakly to intensely clay altered. The composite 3.5 metre sample across the quartz vein and 1 metre of wallrock on either side assayed 17.29 g/t Au.

**Trench PM2** was then excavated along the quartz vein for 8.6 metres at an approximate strike of 062°, the **Trench PM2 extension**. Broken quartz rubble is exposed eastward, along strike, in trench for approximately 5.7 metres. A 0.9 metre continuous chip sample was collected across the quartz vein approximately 3.0 metres eastward along the strike length of the vein from the **Trench PM2** sample. This ran 217 g/t Au over 0.9 metres. A second sample of 0.9 metres was taken from a rusty quartz stringer zone a further 2.7 metres along strike; this sample ran 99.7 g/t Au over 0.9 metres. The stringer zone is hosted in broken, fragmented, sheared andesitic volcanics.

**Pit #1** was excavated to west along strike of quartz vein exposed in outcrop at **Trench PM2**. **Pit #1** exposed a sheared, broken, fractured, limonitic andesitic volcanic unit hosting a 0.75 metre wide quartz stringer zone. The quartz stringer zone measures approximately 0.5 metres along strike and is located approximately 10 metres west of the **Trench PM2** quartz vein. Azimuth of quartz vein/andesite contact is 085°. The stringer zone assayed 13.88 g/t Au over 0.75 metres.

Plate 3. Pit #1 and Trench PM3



Pit #1



Trench PM3

**Trench PM3** was excavated at base of steep west-facing slope in gully, approximately 23 metres west of **Pit #1**, and downslope from two quartz vein surface exposures sampled in 2011. This trench exposed a 2.9 metre high, 0.5 to 1.1 metre wide white bull quartz vein on steep slope, hosted by partial to totally clay altered, blocky to jointed andesitic wallrock. Andesite appears variably limonitic-hematitic stained, and partially chloritic altered to locally, weakly bleached near northern edge of trench. The quartz vein appears blocky, jointed, very hard and indurated, partially mottled to clear to milky with limonitic fractures and irregular surface patches. The quartz vein measures 0.5 metres wide at surface and swells to 1.1 metres wide at base of trench. Attitude of the quartz vein is vertical at 085°. Trace disseminated pyrite was observed. The overburden cover is minimal, approximately 10 to 15 centimetres. The quartz vein at the base of the trench assayed 2.6 g/t Au over 1.1 metres.

**Trench PM4** was located 25m west of **Trench PM3**, and approximately 12 metres west of a 2.5 metre wide white bull quartz vein exposed on the west slope of a small north-south trending gully. Wallrock exposed in **Trench PM4** comprises moderately to intensely clay altered, fragmented, fractured to blocky and broken andesite. Overall, the andesite is moderately to strongly limonitic-hematitic stained with fragments and chips of wallrock in a rusty clay matrix. Overburden cover is approximately 0.25 metres. A 0.3 metre and a 0.5 metre wide quartz vein were exposed in **Trench PM4** separated by 1.45 metres of broken, fragmented, clay altered andesite. Quartz vein-wallrock contacts are marked by narrow (<1 centimetre) rusty clay gouge, possibly representing narrow shear zones. Contacts appear partially bleached pale grey. Attitude of both quartz veins is vertical at 084°.



The 0.3 metre quartz vein is fractured, fragmented and broken, mottled grey with intense limonitic staining and limonitic fractures and surface patches. Distinct wallrock contact is characterized by thin clay gouge band. The 0.5 metre quartz vein is massive, blocky with weak, patchy limonitic surface staining and marked by sharp, rubbly wallrock contacts. The 0.5 metre quartz vein assayed 11.65 g/t Au and the 0.3 metre quartz vein assayed 0.235 g/t Au. A 2.7 metre interval including the 0.5 metre quartz vein assayed 2.5 g/t Au.

**Trench PM5** was located 25 metres west of **Trench PM4**, with objective of intersecting the quartz vein and extending the mineralized zone to the west. The trench exposed broken, fractured, fragmented andesitic volcanic exhibiting intense limonitic staining and strong clay alteration. The matrix is locally totally altered to yellow-orange clay. Local, variable hematite-manganese-oxide staining was noted on wallrock. Distinct colour banding (possibly reflecting layering?) was observed in trench walls dipping at 40°N at approximately 090°. Overburden cover is <1.0 metre. No distinct massive quartz vein was intersected in **Trench PM5**. A 15 centimetre wide, vertically dipping, broken, rubbly, fragmented quartz vein was intersected at approximately 2 metres from the south end of the trench hosted within fractured, blocky andesite exhibiting strong limonitic staining. The quartz vein assayed 12.65 g/t Au over 0.15 metres within a two metre interval assaying 1.11 g/t Au. **Trench PM5** was backfilled starting at the north end to approximately the 11m mark in the trench.

**Trench PM6** was excavated midway between **Trench PM4** and **Trench PM5** with the objective of intersecting the quartz vein which appears to have narrowed or pinched out in **Trench PM5**. The trench exposed broken, fractured, strongly limonitic stained, variably clay altered andesitic volcanic with approximately 1 metre of overburden cover. A 30 centimetre wide, mainly broken, fragmented, chippy quartz vein was intersected at the 10.8 metre mark in the trench measured from the north end. The vein is vertically dipping from the base of the trench upward for approximately 0.5 metres, then angles up at 45° to the south for approximately 1.6 metres and flattens out below the overburden contact and pinches out at the 15 metre mark in the trench wall. The vein appears to thin to approximately 15 to 20 centimetres along the inclined portion, and measures 30 to 35 centimetres thick along the 2.5 metre long horizontal portion. A 1.1 metre long, 35 centimetre wide, horizontal, tabular lens of white to pinkish, massive quartz occurs at the southern end of the flat lying portion of the vein. The quartz vein is hosted in rusty stained, clay altered, fragmented to blocky andesitic wallrock. The realignment of the quartz vein may reflect deformation and downslope movement of enclosing strata by overlying ice during the previous glacial period. The quartz vein assayed 21.6 g/t Au over 30 centimetres within a 2.3 metre interval assaying 3.11 g/t Au. **Trench PM6** was backfilled starting at the north end to approximately the 8 metre mark in the trench.

An exploratory trench was excavated in a small gully 25m west of **Trench PM5**. However, this trench encountered excessively deep clay-sand overburden and failed to penetrate to bedrock. This trench was abandoned and backfilled.

Three trenches, **PM7**, **PM8** and **PM9**, were excavated south of the quartz vein zone in the vicinity of 2011 reconnaissance sampling program. These trenches were excavated with the objective of testing areas of anomalous gold-in-quartz float boulders near a de-activated logging road through recent clear-cut. The source of anomalous quartz float boulders was not confirmed in these trenches. **Trench PM7** was excavated in boulder till on top of a small knoll north of float sample site PM11-EBR16 (12.55 g/t Au). **Trench PM7** repeatedly sloughed in gravel-boulder till and failed to reach to bedrock. **Trench PM7** was backfilled. **Trench PM8** was excavated in boulder till with a sand/gravel base on flat terrain beside float sample site PM11-EBR22 (5.03 g/t Au). **Trench PM8** failed to penetrate to bedrock and was backfilled. **Trench PM9** was excavated in hard, compact, indurated clay containing cobble to boulder size till near a bank on the edge of a de-activated logging road. **Trench PM9** was unable to penetrate the clay cemented boulder till layer and the trench backfilled.

Plate 4. Trench PM6 and Trench PM17



Trench PM6 rusty quartz vein



Trench PM17

**Trench PM10** was the first of six trenches excavated approximately 200 metres east of **Trench PM1** and upslope of strongly anomalous gold-in-quartz float boulders which were hand excavated and sampled during the 2011 field season. **Trenches PM10** to **PM15** were excavated with the objective of intersecting the possible eastern extension of the quartz vein system delineated in trenches **Trenches PM1** to **PM6**.

**Trench PM10** was excavated on gentle slope in hard, indurated, clay cemented overburden containing large cobble to boulder size material. The excavator was unable to penetrate the overburden horizon and the trench was backfilled. **Trench PM11** was excavated approximately 20 metres south of **Trench PM10**. The excavator encountered clay-cemented overburden and rounded boulders with interstitial and gravel. Bedrock was not reached and trench was backfilled. **Trench PM12** was excavated approximately 20 metres south of **Trench PM11**. The excavator was unable to penetrate the hard, clay-cemented boulder till and the trench was backfilled.

**Trench PM13** was excavated approximately 20 metres south of **Trench PM12**. The excavator was unable to penetrate the hard, clay-cemented boulder till and the trench was backfilled.

**Trench PM14** was excavated approximately 20 metres south of **Trench PM13**. The excavator was unable to penetrate the hard, clay-cemented boulder till and the trench was backfilled.

**Trench PM15** was excavated approximately 20 metres south of **Trench PM14** and a short distance upslope (north) of float sample site PM11-EBR25 & 26 (30.55 g/t Au and 19.00 g/t Au, respectively). This trench encountered extremely hard, clay-cemented andesitic boulder till with a clay-gravel matrix. One quartz boulder was discovered measuring 30 x 17cm. **Trench PM15** was backfilled.

**Trench PM16** was excavated 12.5 metres east of **Trench PM1** with the objective of intersecting the quartz vein system exposed in **Trench PM2**. The trench was planned to intersect the quartz vein along the eastern strike of 068° north of the logging access road. **Trench PM16** excavated strongly clay altered andesitic volcanic wallrock enclosing a 1.1 metre wide silicified volcanic zone, similar to **Trench PM1**, located 2.5 metres from the south end of the trench. Overall, the trench exposes rusty red to orange to yellow clay enclosing fragmented andesite with local lenses of mica-rich, friable volcanic. The silica replaced andesite displays a fragmented, microcrystalline matrix, however, no distinct quartz vein, or sulfides, were observed in this trench. The silicified andesite is bounded by narrow (1 centimetre) red clay gouge zones marking the contact with broken, fragmented, fractured and clay altered andesitic wallrock. The silicified andesite ran 0.414 g/t Au over 1 metre. Overburden was 1 metre thick; the trench was backfilled following sampling.

**Trench PM17** was excavated 12.5 metres east of **Trench PM16**, and 25 metres east of **Trench PM1**, with the objective of intersecting the quartz vein system exposed in **Trench PM2**. The trench was located to intersect the quartz vein on strike of 068°, to the east, and north of the logging access road. **Trench PM17** exposed approximately 2.9 metres of overburden overlying intensely clay altered (“saprolitic”) volcanic wallrock characterized by hematitic-red to limonitic-orange/yellow to pale buff clay containing chips and fragments of andesitic volcanic. The clay matrix hosts minor sand to gravel to pebble size components and trace amounts of small quartz “eyes” and pebbles up to 1 centimetre in diameter. Excavating through the boulder/gravel till horizon proved difficult and only 4 metres of the 8 metre long trench was excavated to the maximum depth permitted by the limitations of the excavator. Hard, indurated clay precluded deepening the trench below 3.6 metres. No personnel entered the trench due to the unstable nature of the overlying 2.9 metres of overburden. Therefore, a grab sample of the clay component was collected from the top of the excavated material pile. This sample represented approximately 1 metre length of material sourced from the bottom of the 3.6 metre deep portion of the trench. No distinct quartz vein or silicification of the andesitic wallrock was observed. The composite grab sample of limonitic to hematitic clay material from the bottom of the trench assayed 1.79 g/t Au. The trench was backfilled following sampling.

Five quartz float boulder locations were found in the area of the 2018 trenches: samples **297550** to **297554**. Sample 297550 is a composite grab of several cobble to boulder size pieces of quartz float near Trench PM6. The quartz consists of sub-rounded to angular pieces of mainly massive, mottled white to pale pinkish, quartz with limonitic and hematitic fractures. The largest boulder was 12 by 10 by 10 centimetres. The quartz shows rusty yellow-orange fracture coatings and irregular surface patches with the largest boulder carrying 2% to 3% coarse cubic to aggregate pyrite. The sample assayed 0.643 g/t Au.

During the trenching of **PM10** through **PM15**, the area of PM11-EBR25 PM11-EBR26 sample sites was further examined, and four large quartz float boulders were discovered at or near surface on gentle slope in recently re-seeded clear-cut.

A massive, mottled white to pale yellow, sub-rounded to sub-angular quartz float boulder 50 x 45 x 42 centimetres was sampled. The quartz displays mottled to patchy limonitic-yellow staining on weathered and fresh surfaces and an irregular, cross-cutting, limonitic and hematitic fracture pattern. Traces of coarse pyrite aggregates and cubes up to 7 millimetres were noted. Sample **297551** assayed 0.235 g/t Au.

Two small sub-rounded boulders of massive, white bull quartz were located along the side of an old logging road. They showed patchy limonitic staining on fresh surfaces and limonitic and hematitic staining on fractures. Sample **297552** assayed 108.5 g/t Au.

A large, sub-angular to sub-rounded, 65 by 60 by 38 centimetre boulder was removed from the subsurface by the excavator approximately 2 metres from **297552**. The boulder looks similar to those sampled as PM11-EBR25 and PM11-EBR26, mottled white to rusty quartz with strong limonite and hematite staining. This sample also has a partial fragmental/conglomeratic appearance. Sample **297553** assayed 37.1 g/t Au.

A second large sub-angular, 80 by 66 by 35 centimetre boulder was removed from the road bank by the excavator approximately 50 metres from **297553**. This boulder is massive, mottled white to buff to limonitic yellow quartz with irregular, cross-cutting limonitic and hematitic coated fractures. Trace to <1% fine grained 1-2 millimetre cubic pyrite was noted. Sample **297554** assayed 115.5 g/t Au.

## GEOCHEMICAL SURVEY

Two types of samples were taken during the 2018 program: bedrock samples of quartz veins or andesitic wall rock from the base of the various excavator trenches with one composite grab where it was unsafe to enter the trench, and grab samples of sub-rounded through to sub-angular quartz vein material located during the trenching program. The sampling details are found in Table 6 and the sample locations are found in Figures 7, 7a and 7b.

The bedrock samples were 1 metre, or less, continuous chip samples from the bottom of each individual trench where bedrock was encountered. Three certified 3<sup>rd</sup> party standards and three certified 3<sup>rd</sup> party blanks were inserted at regular intervals into the sample stream with no irregularities noted.

## SAMPLE PREPARATION, ANALYSIS AND SECURITY

Samples were returned to Princeton on a daily basis where they were bagged and secured in the motel room. Upon returning to town daily, the trench and float samples were laid out in numbered sequence, to confirm complete sample succession, and placed a rice bag in groups of 8 to 10 samples and secured with a plastic ladder lock strap. All samples were delivered by the personnel from the author's consulting company at the completion of the program to ALS Minerals in North Vancouver, B.C.

All samples from the 2018 exploration program were analyzed at ALS Minerals in North Vancouver, which is certified compliant and accredited with the Standards Council of Canada ISO/IEC 17025:2005 International Standards Organization Model for Quality Assurance. At the ALS Minerals North Vancouver Lab each sample is logged in the tracking system, weighed and dried. Soil samples are first dried at 60°C and then dry-sieved using a 180 micron (Tyler 80 mesh) screen. Rock samples are finely crushed to better than 70 % passing a 2 mm (Tyler 9 mesh, US Std. No.10) screen after which a split of up to 250 g is taken and pulverized to better than 85 % passing a 75 micron (Tyler 200 mesh, US Std. No. 200) screen.

ALS Minerals Laboratory completed an AuME TL-43 analysis with an upper limit of one g/t gold. In the Au-TL43 procedure, a finely pulverised 25g sample is digested in a mixture of 3 parts hydrochloric acid and 1 part nitric acid (aqua regia). This acid mixture generates nascent chlorine and nitrosyl chloride, which will dissolve free gold and gold compounds such as calaverite, AuTe<sub>2</sub>. The dissolved gold is complexed and extracted with Kerosene/DBS and determined by graphite furnace AAS.

Seventeen of the 56 samples returned value in excess of one g/t gold and were subsequently analyzed with procedure Au-AROR43 with an upper limit of 100 g/t gold. In the Au-AROR43 procedure, a finely pulverised 25g sample is digested in a mixture of 3 parts hydrochloric acid and 1 part nitric acid (aqua regia). This acid mixture generates nascent chlorine and nitrosyl chloride, which will dissolve free gold and gold compounds such as calaverite, AuTe<sub>2</sub>. Gold is determined by ICPMS directly from the digestion liquor. This method allows for the simple and economical addition of extra elements by running the digestion liquor through the ICPMS. This method is only an over-limit method which is used to analyze the same solution prepared from the Trace Level Au by aqua regia extraction method and has an upper limit of 100 ppm or 100 g/t.

Three of these 17 samples returned values in excess of 100 g/t gold, with a fourth sample reporting at 100 g/t gold. These four samples received the Au-GRA21 procedure where a 30 gram sample is fire assayed with a gravimetric finish.

Quality control procedures included the utilization of certified Standard blank samples prepared by CDN Resource Laboratories Ltd. of Langley, B.C and certified Standard PM 461 prepared by WCM Minerals Ltd. of Burnaby, B.C. The Standard was weight-measured into sealed, heavy duty Ziploc bags and inserted into the sample stream. The analyses of the certified standards are shown in Table 7.

**Table 7. Summary of Standard Performance**

Sample	ppm Au	ppb Au		Sample	ppm Au	ppb Au
S-001	0.914	914		S-002	0.070	70
S-003	0.845	845		S-004	0.033	33
S-005	0.813	813		S-006	0.018	18

The blanks performed well with all three samples reported under 0.01 ppm (100 ppb) gold. Gold standard PM 461 is certified to assay at 0.83 ppm Au with one standard deviation yielding values between 0.854 ppm Au and 0.806 ppm Au. Two of the three standards reported within one standard deviation, while the third is an outlier reporting within 4 standard deviations. Since the three blanks reported within range and two of the three gold standards reported within one standard deviation, the author considers the third sample an outlier. The author feels that sample preparation, security and analytical procedures for the trenching on the Princeton property were adequate for the exploration program.

#### INTERPRETATION AND CONCLUSIONS

The 2018 trenching program achieved one of the main goals, to test the strike potential of the bedrock quartz vein occurrence from 2011. The vein zone was traced over 120 metres before slipping beneath thicker overburden cover in both directions. The quartz vein pinches and swells, as expected, but is fairly consistently mineralized with better than 10 g/t Au throughout the length of the vein structure itself.

The second goal was not achieved due to overburden depths in excess of the reach of the excavator boom. The other two locations of gold-bearing quartz float in Area II remain unexplained.

The exploration completed in the northern portion of the original claim block in 2015 and 2017 successfully located gold-bearing quartz veins to the north of Area II, defining a quartz corridor trending through the eastern part of the property.

The quartz corridor, in addition to the significance of the bedrock quartz vein discovery, necessitated the staking of a significant block of ground to protect the main claims and also explore the larger area for repeats.

Most exploration to the north of the original claim block has been directed almost exclusively for copper. Exploration for gold bearing quartz veins in this area has been more or less non-existent. The potential of this newly acquired ground should be high for additional quartz discoveries.

The next phase of exploration should focus on both the original claim block and the newly added claims. A review of the historical assessment report database should be completed, focusing more on the sampling programs, especially if gold analyses were included in the analytical package. The Regional Geochemical Survey (RGS) stream sediment database for this area of sheet 092H should also be plotted and reviewed.

The entire property package should be flown for airborne magnetics. The northeast trend of the quartz corridor combined with the 070° strike of the bedrock quartz vein suggests a northwest southeast flight line pattern. Recent work by Westhaven Ventures Inc. on the Shovelnose vein system has shown detailed flight lines at a 75 metre line spacing has been successful in defining structure, including those hosting the main vein system. The objective here would be to confirm the bedrock quartz vein occurrence magnetic response and search for repeats throughout the claim block.

A program of ground truthing of the magnetic anomalies by prospecting would follow. The initial focus should be on the response of the bedrock quartz vein zone to look for similar responses in the other two locations of gold-bearing quartz float in Area II.

Drilling of the bedrock quartz vein zone should also be undertaken. An initial program of 1500 metres should be an excellent first pass, with 250 to 500 metres reserved for the two locations of gold-bearing quartz float.

## RECOMMENDATIONS

The following work programs are recommended for the next phases of exploration on the Princeton property:

- 1) Review and compile the historical exploration data on the newly acquired claim block surrounding and to the north of the original Princeton claim block;
- 2) Fly the combined entire property claim block with airborne magnetics at a flight line spacing of 75 metres
- 3) Complete a 1500 metre drilling program: 1000 metres at the bedrock quartz vein zone and 250 metres each at the other two gold-bearing quartz vein zones in Area II.

The cost of the recommended exploration programs are outlined in Table 8.

**Table 8. 2019 Exploration Budget**

<b>Princeton Project Airborne / Compilation Budget</b>						
Allow for 5 days for compilation review						
Allow for 15 days ground truthing						
Allow for 200 rock samples						
Project Manager	2	days	@	\$800	/day	\$1,600
Project geologist	20	days	@	\$700	/day	\$14,000
Sampler	15	days	@	\$500	/day	\$7,500
Room & Board	27	days	@	\$125	/day	\$3,375
Vehicle + Fuel	17	days	@	\$200	/day	\$3,400
Airborne geophysics						\$110,000
Analysis - rock	200	samples	@	\$50	/sample	\$10,000
Data verification	10	sample	@	\$30	/sample	\$300
Sundries						\$2,500
Documentation						\$5,000
Contingency						\$7,325
<b>Sub-Total Airborne Compilation</b>						<b>\$165,000</b>

<b>Princeton Project Drilling Budget</b>						
Allow for 1500 metres of diamond drilling						
Allow for 250 core samples						
Project Manager	2	days	@	\$800	/day	\$1,600
Project geologist	15	days	@	\$700	/day	\$10,500
Geotech	15	days	@	\$600	/day	\$9,000
Sampler	15	days	@	\$500	/day	\$7,500
Room & Board	47	days	@	\$125	/day	\$5,875
Vehicle + Fuel	32	days	@	\$200	/day	\$6,400
Trenching Mob / Demob						\$2,500
Excavator (all in)	40	hours	@	\$200	/hour	\$8,000
Drilling Mob / Demob						\$2,500
Drilling (all in)	1500	metres	@	\$110	/metre	\$165,000
Analysis - rock & core	250	samples	@	\$50	/sample	\$12,500
Data verification	12	sample	@	\$30	/sample	\$360
Sundries						\$3,000
Documentation						\$7,500
Contingency						\$17,765
<b>Sub-Total Drilling Budget</b>						<b>\$260,000</b>



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STATEMENT OF COSTS

<b>Field Crew</b>							\$14,200.00
Gary Wesa	9	days	@	\$650	/day	\$5,850	
John Taylor	9	days	@	\$550	/day	\$4,950	
<b>Vehicle Rentals</b>							
Mammoth	9	days	@	\$100	/day	\$900	
<b>Documentation</b>							
Tim Henneberry	20	hours	@	\$125	/hour	\$2,500	
<b>Expenses</b>							\$3,743.78
Travel						\$145.00	
Hotel						\$1,858.08	
Meals						\$1,109.86	
Fuel						\$290.50	
Supplies						\$0.00	
Service charge						\$340.34	
<b>Excavator Rental</b>							\$8,611.25
Mob/Demob	6.5	hours	@	\$145	/hour	\$943	
Excavator	48.75	hours	@	\$145	/hour	\$7,069	
Truck	7.5	hours	@	\$80	/hour	\$600	
<b>Analysis</b>							\$2,669.68
Work Order	Invoice						
VA18246641	4477256					\$2,354.02	
VA18275218	4506709					\$72.96	
Service (10%)						\$242.70	
<b>Total Invoice</b>							<b>\$29,224.71</b>

Tim Henneberry

Report

Gary Wesa

Sep 24 to Oct 2 (9 days)

John Taylor

Sep 24 to Oct 2 (9 days)

CERTIFICATE FOR R. TIMOTHY HENNEBERRY

I, R. Tim Henneberry, P. Geo., a consulting geologist with offices at 2446 Bidston Road, Mill Bay, B.C. V0R 2P4 and 704 - 1060 Alberni Street, Vancouver, B.C. V6E 4K2 do hereby certify that: I am the Qualified Person for:

**Tasca Resources Ltd.**

Suite 830 - 1100 Melville Street  
Vancouver, British Columbia V6C 6L6

I earned a Bachelor of Science Degree majoring in geology from Dalhousie University, graduating in May 1980.

I am registered with the Association of Professional Engineers and Geoscientists in the Province of British Columbia as a Professional Geoscientist.

I have practiced my profession continuously for 38 years since graduation.

I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI 43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101. My relevant experience for the purpose of this Technical Report is:

- 38 years of exploration in the western North American Cordillera
- 10 years direct association with the exploration of the Princeton Project

I am responsible for the preparation of the technical report titled "2018 Trenching Assessment Report Princeton Property" and dated December 7, 2018 relating to the Princeton Property. I did not visit the Princeton property during this exploration program, but visited the property on August 9, 2018.

I have had prior involvement with the property that is the subject of the Assessment Report as I have undertaken or directed all exploration programs completed on the Princeton Property since 2008.

As of December 7, 2018, to the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to be disclosed to make the Assessment Report not misleading.

I am not independent of the Tasca Resources Ltd. as I am the Technical Advisor and I hold shares and options of Tasca.

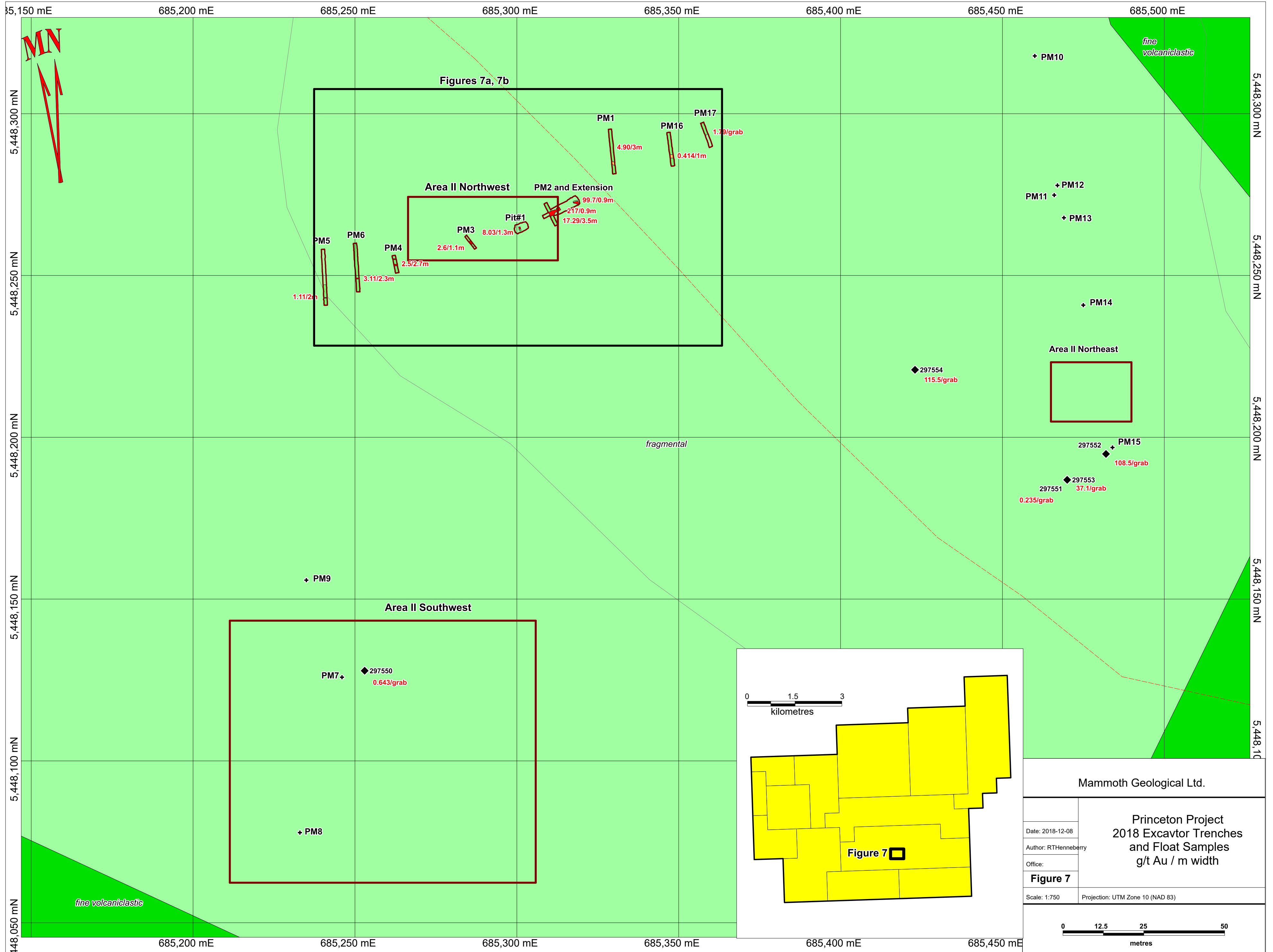
I have read NI 43-101 and Form 43-101F, and the Technical Report has been prepared in compliance with that instrument and form.

I make this Technical Report effective December 7, 2018.

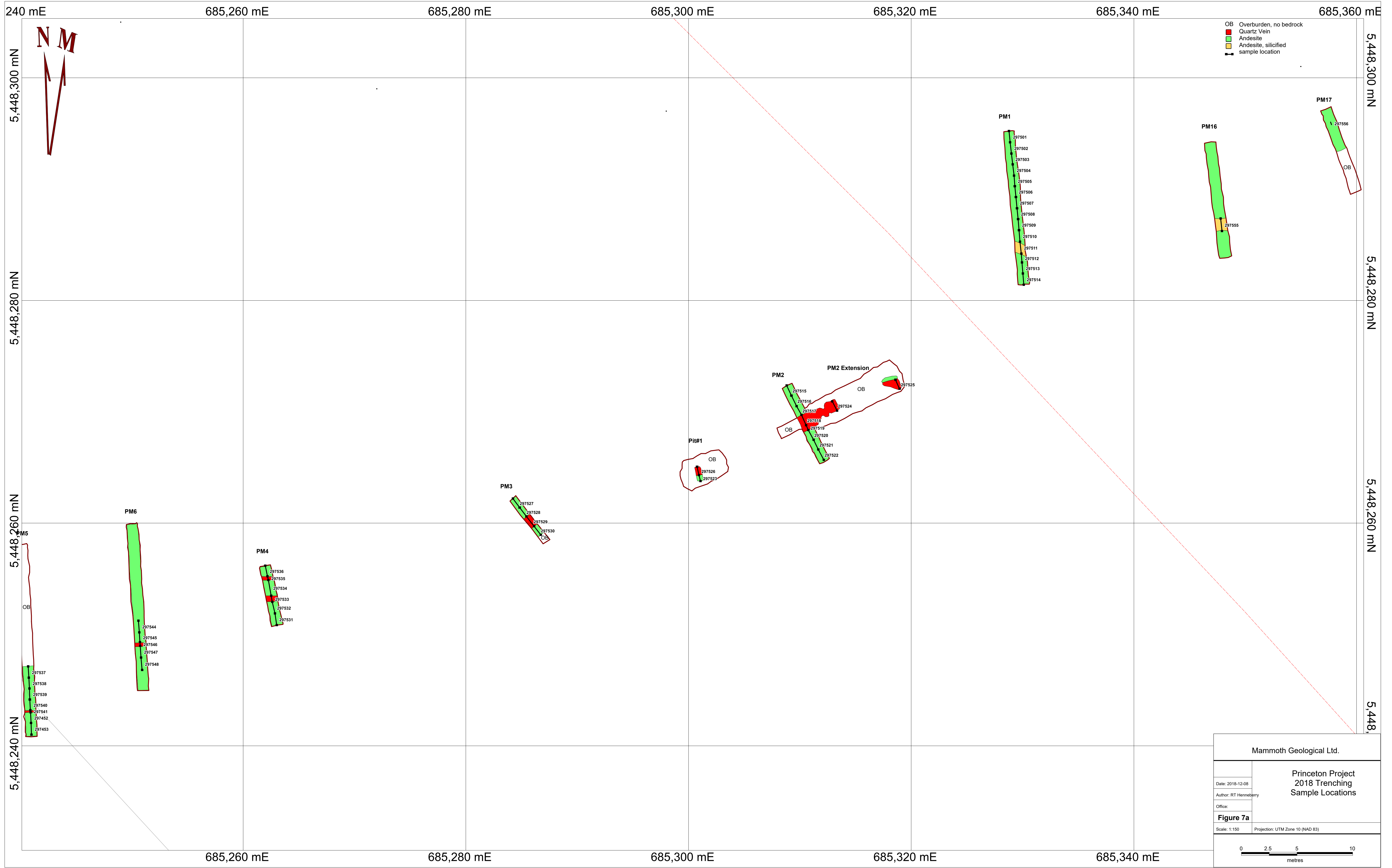


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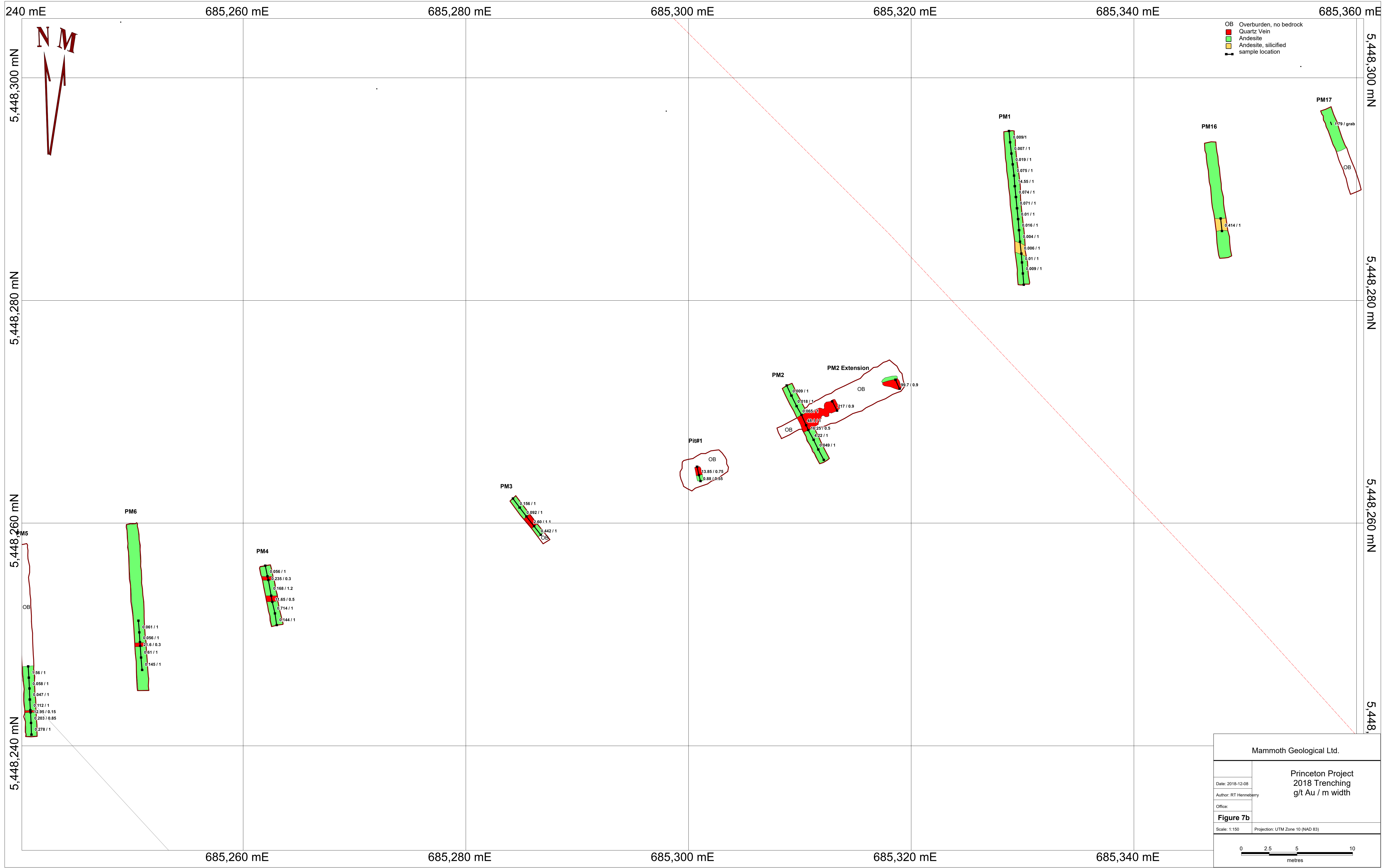
R. Tim Henneberry, P. Geo



Mammoth Geological Ltd.	
Date: 2018-12-08	Princeton Project 2018 Excavator Trenches and Float Samples g/t Au / m width
Author: RTHenneberry	
Office: <b>Figure 7</b>	
Scale: 1:750	Projection: UTM Zone 10 (NAD 83)



Mammoth Geological Ltd.	
Princeton Project 2018 Trenching Sample Locations	
Date: 2018-12-08	
Author: RT Henneberry	
Office:	
<b>Figure 7a</b>	
Scale: 1:150	Projection: UTM Zone 10 (NAD 83)



Mammoth Geological Ltd.

Princeton Project  
2018 Trenching  
g/t Au / m width

Date: 2018-12-08  
Author: RT Henneberry  
Office:  
**Figure 7b**  
Scale: 1:150 Projection: UTM Zone 10 (NAD 83)

0 2.5 5 10 metres



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2103 Dollarton Hwy  
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**VANCOUVER BC V6E 4K2**

Page: 1  
Total # Pages: 3 (A - D)  
Plus Appendix Pages  
Finalized Date: 30- OCT- 2018  
Account: MAMGEO

**CERTIFICATE VA18246641**

Project: Princeton Project (P.M.)

This report is for 62 Rock samples submitted to our lab in Vancouver, BC, Canada on 2- OCT- 2018.

The following have access to data associated with this certificate:

TIM HENNEBERRY

**SAMPLE PREPARATION**

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

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Au- AROR43	Au AR Overrange - 25g	
AuME- TL43	25g Trace Au + Multi Element PKG	
Ag- OG46	Ore Grade Ag - Aqua Regia	

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

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

Signature:   
Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30- OCT- 2018  
 Account: MAMGEO

Project: Princeton Project (P.M.)

**CERTIFICATE OF ANALYSIS VA18246641**

Sample Description	Method	WEI- 21	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
297501		1.36	0.009	0.67	1.94	49.3	10	280	0.32	0.03	0.56	2.16	25.2	30.6	14	2.42
297502		1.00	0.007	0.35	1.94	31.9	10	190	0.60	0.02	0.56	0.46	27.2	19.8	18	3.19
297503		0.76	0.019	0.40	1.63	46.1	10	180	0.94	0.04	0.58	0.80	21.9	13.0	22	2.20
297504		1.00	0.075	1.07	1.11	47.6	10	70	0.88	0.07	0.62	1.63	36.7	8.4	38	1.20
297505		0.92	>1.00	5.30	0.91	141.5	<10	160	1.36	22.4	0.43	2.35	36.6	10.3	27	2.44
297506		1.20	0.074	1.53	1.15	29.5	10	70	0.86	0.05	0.74	1.54	22.6	8.4	38	1.73
297507		1.14	0.071	0.66	1.01	21.6	10	110	1.27	0.37	0.92	2.74	24.5	10.0	26	0.63
297508		1.16	0.010	0.50	1.06	37.1	10	140	0.84	0.03	0.64	2.37	11.35	35.9	31	2.17
297509		1.32	0.016	0.74	1.01	17.7	10	80	0.79	0.06	0.71	1.88	19.45	84.2	26	0.45
297510		1.32	0.004	0.34	1.41	28.0	10	70	0.63	0.04	0.58	0.48	26.3	34.5	34	0.70
297511		1.50	0.006	0.14	0.53	13.5	10	50	0.20	0.04	0.18	0.15	20.3	11.6	12	0.30
297512		1.84	0.010	0.08	1.78	35.6	10	140	0.40	0.05	0.36	0.97	19.35	15.6	21	0.96
297513		1.64	0.009	0.13	1.78	32.7	<10	190	0.25	0.06	0.30	0.12	18.15	17.8	39	1.10
297514		1.42	0.004	0.04	1.97	30.5	<10	250	0.26	0.02	0.52	0.30	32.5	18.6	13	2.17
297515		1.40	0.009	0.72	0.51	3.4	10	80	0.13	0.02	0.23	0.53	16.20	5.1	4	0.94
297516		1.72	0.018	2.98	0.81	12.3	10	90	0.34	0.02	0.25	1.84	22.7	10.1	7	1.42
297517		1.62	0.065	3.36	0.27	6.2	10	90	0.07	0.46	0.05	0.08	19.15	5.5	5	0.10
297518		1.20	>1.00	>100	0.23	126.5	<10	40	0.07	3.85	0.10	0.16	3.51	5.5	14	0.12
297519		1.78	>1.00	34.6	0.23	12.8	10	60	0.06	1.35	0.16	0.11	4.52	5.5	13	0.12
297520		1.56	>1.00	11.65	0.71	14.9	<10	140	0.16	0.33	0.18	0.16	16.20	6.6	23	0.39
297521		1.66	0.049	0.80	1.39	43.9	10	170	0.32	0.09	0.34	0.44	21.7	15.2	21	0.62
297522		1.52	0.033	0.56	1.61	44.0	10	160	0.45	0.04	0.36	0.48	22.9	24.6	25	1.19
297523		1.36	0.088	2.43	0.46	13.3	10	200	0.16	0.14	0.05	0.44	27.2	2.0	4	0.17
297524		2.04	>1.00	>100	0.10	16.7	10	20	<0.05	2.88	0.07	0.27	1.53	6.1	11	0.06
297525		2.28	>1.00	73.9	0.24	10.1	<10	40	0.06	0.84	0.03	0.18	3.18	3.7	14	0.14
297526		2.16	>1.00	43.6	0.06	18.1	<10	30	0.05	0.50	0.01	0.28	3.27	5.3	14	<0.05
297527		1.22	0.156	1.39	1.40	23.4	<10	180	0.36	0.10	0.23	0.40	22.3	9.4	16	0.56
297528		1.40	0.092	6.80	1.05	10.4	10	170	0.19	0.40	0.46	0.52	24.8	4.8	10	0.34
297529		1.50	>1.00	17.75	0.15	24.2	10	60	0.07	0.28	0.02	0.28	4.73	3.4	11	0.06
297530		1.88	0.442	2.54	1.34	7.9	10	140	0.20	0.16	0.45	0.34	20.2	11.3	49	0.50
297531		1.04	0.144	2.68	2.93	29.0	<10	110	0.43	0.06	0.61	0.56	13.35	11.3	29	0.56
297532		1.56	0.714	9.50	1.21	25.2	<10	300	0.25	0.24	0.19	1.14	15.25	5.9	19	0.43
297533		1.74	>1.00	33.4	0.13	9.9	<10	20	<0.05	1.33	0.02	0.10	1.72	1.3	11	0.07
297534		1.72	0.168	3.86	0.38	9.4	10	110	0.13	0.12	0.04	0.15	19.50	3.1	7	0.21
297535		2.20	0.235	4.27	0.12	5.5	10	20	<0.05	0.24	0.01	0.19	3.05	2.1	11	0.07
297536		1.62	0.056	3.61	0.44	10.2	10	140	0.17	0.12	0.04	0.46	27.7	3.4	9	0.22
297537		1.80	>1.00	12.75	0.16	12.0	<10	60	0.05	0.15	0.04	0.90	2.96	4.6	13	0.15
297538		1.50	0.058	1.86	1.18	31.3	10	110	0.38	0.03	0.28	0.38	34.4	20.8	14	1.81
297539		1.10	0.047	1.44	2.16	33.6	10	150	0.52	0.03	0.49	0.35	38.5	17.3	19	2.89
297540		1.36	0.112	3.07	0.88	18.6	10	150	0.33	0.08	0.24	0.67	31.4	9.1	16	0.95





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**CERTIFICATE OF ANALYSIS VA18246641**

Sample Description	Method Analyte Units LOD	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
297501		34.1	3.87	6.30	0.08	0.06	0.01	0.039	0.43	11.4	10.3	0.84	1290	1.71	0.04	<0.05
297502		35.5	3.65	7.21	0.07	<0.02	0.01	0.027	0.46	13.3	8.8	1.00	419	1.50	0.01	<0.05
297503		51.8	4.31	5.15	0.07	0.09	0.01	0.037	0.38	15.0	5.3	0.73	288	1.62	0.01	<0.05
297504		116.0	3.60	3.08	0.08	0.13	0.02	0.045	0.06	31.6	1.1	0.27	335	1.37	0.01	<0.05
297505		321	7.00	2.51	0.10	0.16	0.06	0.044	0.07	31.2	1.4	0.26	1280	5.63	0.01	<0.05
297506		84.0	4.05	3.33	0.07	0.13	0.03	0.057	0.11	20.7	1.7	0.39	403	1.19	0.01	<0.05
297507		36.7	4.39	2.49	0.07	0.08	0.01	0.049	0.07	21.0	1.3	0.39	1560	1.41	0.01	<0.05
297508		80.1	3.01	3.55	0.05	0.07	0.02	0.044	0.09	8.1	3.1	0.34	1410	1.09	0.04	<0.05
297509		209	1.84	2.76	0.05	0.07	0.05	0.049	0.05	13.8	2.0	0.26	988	1.44	0.01	<0.05
297510		125.5	2.38	4.37	0.06	0.09	0.02	0.033	0.12	16.2	4.4	0.45	269	2.51	0.02	<0.05
297511		34.7	1.22	1.65	<0.05	<0.02	0.01	0.019	0.06	9.4	1.8	0.21	230	2.17	0.01	<0.05
297512		82.4	6.93	4.97	0.05	0.03	0.03	0.056	0.10	10.9	9.8	1.24	1660	5.43	0.01	<0.05
297513		79.7	4.48	5.94	0.05	0.03	0.07	0.023	0.28	9.1	10.5	1.17	542	2.70	0.02	<0.05
297514		43.5	6.01	8.16	0.09	0.05	0.09	0.036	0.60	15.7	7.3	0.81	946	4.71	0.03	0.06
297515		6.8	0.77	1.27	<0.05	<0.02	0.01	0.021	0.10	7.7	1.5	0.12	552	0.51	0.02	<0.05
297516		93.6	2.68	2.15	<0.05	0.02	0.03	0.027	0.13	10.5	2.8	0.23	542	1.27	0.01	<0.05
297517		13.7	0.38	0.80	<0.05	0.02	0.01	0.005	0.12	9.3	0.7	0.04	339	7.42	<0.01	<0.05
297518		31.7	1.52	0.69	<0.05	<0.02	0.23	0.074	0.03	1.9	0.9	0.05	311	139.0	0.01	<0.05
297519		12.2	0.71	0.67	<0.05	<0.02	0.03	0.010	0.06	2.1	0.8	0.06	161	43.6	0.01	<0.05
297520		35.0	2.14	1.98	<0.05	0.05	0.02	0.016	0.14	7.6	2.6	0.21	537	2.75	0.02	<0.05
297521		83.9	5.96	3.90	0.06	0.03	0.01	0.020	0.20	11.6	6.2	0.44	491	1.42	0.01	<0.05
297522		50.6	3.87	4.91	0.06	0.06	0.01	0.029	0.18	11.4	8.7	0.65	656	1.75	0.01	<0.05
297523		70.6	1.55	1.36	0.05	0.03	<0.01	0.015	0.24	12.3	0.9	0.03	361	0.72	0.01	<0.05
297524		32.4	0.63	0.31	<0.05	<0.02	0.35	0.026	0.01	1.0	0.4	0.02	200	80.6	<0.01	<0.05
297525		36.1	1.34	0.66	<0.05	0.05	0.14	0.012	0.02	1.5	1.0	0.04	311	5.07	<0.01	<0.05
297526		34.1	0.97	0.25	<0.05	<0.02	0.06	0.018	0.01	0.9	0.2	0.01	358	2.75	<0.01	<0.05
297527		209	2.80	3.17	0.05	0.03	0.06	0.015	0.24	10.8	5.2	0.47	229	0.91	0.01	<0.05
297528		216	2.58	2.46	0.06	0.02	0.01	0.016	0.20	12.5	2.7	0.25	301	0.97	0.01	<0.05
297529		22.8	2.64	0.47	<0.05	<0.02	0.03	<0.005	0.07	2.4	0.3	0.02	187	6.54	<0.01	<0.05
297530		54.6	2.53	3.98	0.05	0.10	0.01	0.020	0.15	8.8	6.3	0.70	596	1.12	0.08	<0.05
297531		455	5.59	7.97	0.05	0.04	0.01	0.049	0.10	6.7	8.9	1.09	422	2.75	0.01	<0.05
297532		393	2.87	3.50	<0.05	0.03	0.02	0.184	0.18	6.7	4.8	0.42	1780	1.92	0.01	<0.05
297533		43.8	0.75	0.35	<0.05	0.02	0.07	0.009	0.02	0.9	0.3	0.03	177	2.16	<0.01	<0.05
297534		38.6	1.75	1.06	<0.05	0.03	0.02	0.048	0.18	10.1	0.7	0.04	212	1.63	0.01	<0.05
297535		45.2	1.62	0.35	<0.05	0.02	0.01	0.017	0.04	1.6	0.2	0.01	199	2.23	0.01	<0.05
297536		43.0	2.37	1.19	0.05	0.03	0.05	0.020	0.20	13.3	0.8	0.04	592	2.90	0.01	<0.05
297537		64.1	1.36	0.46	<0.05	0.03	0.07	0.005	0.03	2.1	0.5	0.04	671	1.76	0.01	<0.05
297538		80.9	4.13	3.62	0.09	0.04	0.01	0.034	0.13	16.1	2.7	0.30	578	1.49	0.01	<0.05
297539		70.5	5.63	7.06	0.09	0.04	0.01	0.060	0.20	17.0	7.1	0.75	453	1.44	0.01	<0.05
297540		82.5	4.08	2.42	0.07	0.04	0.03	0.029	0.16	19.3	2.2	0.17	655	2.41	0.01	<0.05



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Sample Description	Method	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOD	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
297501		46.6	930	2.7	32.6	<0.001	<0.01	2.04	11.1	0.4	0.5	47.6	<0.01	0.10	3.0	0.136
297502		41.0	870	4.0	29.0	<0.001	<0.01	0.97	10.6	0.2	0.3	50.8	<0.01	0.07	2.3	0.047
297503		51.7	840	5.2	25.8	<0.001	<0.01	2.57	12.5	<0.2	0.5	48.7	<0.01	0.24	1.9	0.051
297504		52.9	440	6.2	7.9	<0.001	<0.01	2.42	10.7	0.2	0.7	52.0	<0.01	0.29	3.4	0.010
297505		67.7	380	7.1	9.4	<0.001	<0.01	5.61	7.8	0.6	0.5	44.5	<0.01	17.10	2.2	0.020
297506		54.1	490	4.3	15.9	<0.001	<0.01	2.20	10.2	<0.2	0.6	53.0	<0.01	0.31	2.5	0.031
297507		74.2	760	5.4	5.7	<0.001	<0.01	1.06	9.7	<0.2	0.6	56.6	<0.01	0.35	2.0	0.021
297508		113.5	430	4.8	12.8	0.001	<0.01	1.05	12.2	0.3	0.2	56.9	<0.01	0.21	1.1	0.060
297509		141.0	570	5.5	2.3	0.001	<0.01	0.91	10.1	0.2	0.4	62.0	<0.01	0.16	1.5	0.035
297510		47.7	730	7.4	6.9	0.001	<0.01	1.92	10.0	0.4	0.4	66.8	<0.01	0.18	2.6	0.063
297511		17.5	180	3.2	2.7	0.001	0.01	0.88	3.2	<0.2	<0.2	21.6	<0.01	0.11	1.5	0.017
297512		86.5	550	5.5	5.3	<0.001	<0.01	1.48	8.0	0.7	0.2	46.2	<0.01	0.20	2.9	0.013
297513		21.0	920	6.2	13.1	<0.001	0.02	0.67	9.5	0.8	<0.2	40.7	<0.01	0.18	2.7	0.057
297514		25.5	1470	2.1	29.4	<0.001	0.01	0.32	8.1	0.2	0.4	41.5	<0.01	0.15	3.3	0.135
297515		10.3	510	4.5	3.2	<0.001	<0.01	0.57	2.6	<0.2	<0.2	19.0	<0.01	0.07	2.0	0.006
297516		25.5	460	29.0	7.3	<0.001	<0.01	5.68	4.4	0.2	<0.2	28.4	<0.01	0.31	2.5	<0.005
297517		5.2	140	204	3.1	<0.001	<0.01	14.90	1.1	<0.2	<0.2	4.9	<0.01	3.59	1.9	<0.005
297518		5.9	340	928	1.6	<0.001	0.02	59.3	1.1	0.9	0.2	11.4	<0.01	13.65	0.4	0.011
297519		5.4	550	89.1	2.1	<0.001	<0.01	40.2	0.9	0.2	<0.2	7.4	<0.01	3.52	0.4	0.008
297520		18.9	390	10.7	5.2	<0.001	0.01	2.52	3.1	0.3	<0.2	24.7	<0.01	1.80	1.3	0.013
297521		24.8	1170	7.8	9.3	<0.001	<0.01	3.28	4.7	0.5	<0.2	31.9	<0.01	0.19	2.6	<0.005
297522		30.4	760	10.5	14.4	0.001	<0.01	2.57	6.8	0.4	0.3	36.5	<0.01	0.16	3.0	0.025
297523		7.3	270	25.9	5.3	<0.001	<0.01	2.05	1.6	1.0	<0.2	5.8	<0.01	3.46	2.5	<0.005
297524		6.8	300	363	0.7	0.001	0.01	43.6	0.6	0.5	<0.2	5.5	<0.01	15.05	0.2	<0.005
297525		9.5	80	79.3	1.0	<0.001	<0.01	8.84	1.3	0.2	<0.2	7.9	<0.01	15.30	0.3	<0.005
297526		5.2	140	155.5	0.4	0.002	<0.01	4.49	0.6	0.7	<0.2	3.2	<0.01	26.3	0.2	<0.005
297527		12.0	600	9.5	8.6	0.001	<0.01	3.98	3.6	0.6	<0.2	68.6	<0.01	0.42	2.3	0.009
297528		12.1	1980	10.3	6.1	<0.001	<0.01	2.91	3.2	0.9	<0.2	70.8	<0.01	4.95	1.6	<0.005
297529		9.0	230	14.4	1.5	<0.001	<0.01	14.80	0.7	0.2	<0.2	4.2	<0.01	6.19	0.2	<0.005
297530		34.1	560	11.3	6.8	<0.001	<0.01	2.03	5.9	0.2	0.2	40.0	<0.01	4.60	1.6	0.064
297531		17.9	500	7.7	4.3	<0.001	<0.01	6.10	18.5	0.4	0.3	85.3	<0.01	0.85	1.8	0.013
297532		12.1	270	18.1	5.2	<0.001	<0.01	33.5	13.7	0.7	<0.2	36.4	<0.01	19.10	1.7	<0.005
297533		2.8	50	140.5	0.6	<0.001	<0.01	21.7	1.0	0.2	<0.2	4.5	<0.01	13.50	0.2	<0.005
297534		6.5	160	98.5	4.7	0.001	<0.01	14.60	4.1	0.2	<0.2	7.2	<0.01	2.22	2.5	<0.005
297535		5.3	130	226	1.2	<0.001	<0.01	27.6	0.8	0.5	<0.2	3.0	<0.01	0.86	0.3	<0.005
297536		9.2	230	170.0	5.5	<0.001	<0.01	10.25	3.4	0.8	<0.2	8.0	<0.01	1.41	2.8	<0.005
297537		10.7	90	24.0	0.9	<0.001	0.05	4.09	1.0	0.2	<0.2	7.2	<0.01	7.49	0.2	<0.005
297538		21.3	400	7.2	8.8	<0.001	<0.01	3.37	5.9	0.6	0.3	38.1	<0.01	0.26	1.9	0.014
297539		31.8	600	9.2	18.8	<0.001	<0.01	3.46	9.8	0.3	0.3	65.2	<0.01	0.31	3.8	0.013
297540		21.2	820	11.9	6.4	<0.001	<0.01	2.12	4.4	0.8	<0.2	39.3	<0.01	0.46	3.7	<0.005



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		Tl	U	V	W	Y	Zn	Zr	Ag	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	1	0.01
297501		0.36	0.76	104	0.06	16.85	172	1.9		
297502		0.24	0.77	102	<0.05	20.8	228	0.9		
297503		0.25	0.72	80	0.14	22.0	265	4.7		
297504		0.04	0.91	53	0.10	24.3	203	3.6		
297505		0.04	1.47	77	2.28	28.2	244	6.3		14.55
297506		0.09	0.84	65	0.13	16.35	194	4.3		
297507		0.08	1.15	46	0.07	20.0	232	3.7		
297508		0.60	0.47	79	0.21	7.88	289	3.2		
297509		0.38	1.00	59	0.09	18.35	287	3.2		
297510		0.13	1.56	114	0.13	19.75	120	5.4		
297511		0.04	0.45	25	0.11	10.55	57	1.4		
297512		0.10	0.78	63	0.11	11.20	293	2.0		
297513		0.34	1.09	106	0.06	9.45	79	2.9		
297514		0.25	1.13	124	<0.05	15.00	107	2.8		
297515		0.03	0.33	18	0.06	4.77	57	1.2		
297516		0.03	0.61	26	0.11	11.70	233	1.0		
297517		0.04	0.87	14	0.06	2.92	23	1.3		
297518		0.03	1.75	32	0.11	1.70	21	0.9	121	48.1
297519		0.02	4.47	11	0.07	1.65	11	0.9		16.25
297520		0.07	0.80	28	0.10	5.71	27	2.7		4.22
297521		0.06	1.37	61	0.74	11.80	111	1.9		
297522		0.10	1.29	79	0.12	15.85	92	2.6		
297523		0.05	3.39	17	0.38	2.84	16	1.9		
297524		0.02	1.27	11	0.05	0.82	20	0.8	101	>100
297525		0.02	0.48	18	0.07	1.83	16	2.1		100
297526		<0.02	1.17	13	0.06	0.60	7	0.9		13.85
297527		0.11	1.08	43	<0.05	6.66	52	1.4		
297528		0.07	1.14	36	0.06	9.86	30	1.2		
297529		0.02	1.69	16	0.15	0.93	14	0.9		2.60
297530		0.07	0.69	60	0.11	6.10	36	5.9		
297531		0.03	1.30	125	<0.05	13.05	146	1.0		
297532		0.05	1.02	73	0.10	5.53	57	1.1		
297533		<0.02	0.21	18	<0.05	0.61	9	0.6		11.65
297534		0.04	0.53	32	0.08	2.61	53	1.4		
297535		<0.02	0.44	17	0.06	0.97	130	1.1		
297536		0.05	0.74	47	0.11	4.01	179	1.8		
297537		<0.02	0.30	24	0.09	3.92	35	1.4		1.56
297538		0.10	1.03	37	0.05	18.70	73	1.6		
297539		0.10	1.11	88	<0.05	20.6	109	1.0		
297540		0.06	2.04	70	0.10	13.90	43	2.5		



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Sample Description	Method Analyte Units LOD	WEI- 21	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.001	0.01	0.01	0.1	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
297541		1.22	>1.00	16.70	0.39	35.5	10	100	0.36	1.28	0.07	0.66	13.55	11.7	13	0.30
297542		1.14	0.203	2.55	1.10	18.3	10	150	0.45	0.10	0.18	0.49	22.8	10.8	15	0.55
297543		1.54	0.278	2.29	1.41	19.1	10	100	0.45	0.07	0.35	0.22	23.7	13.1	21	1.13
297544		1.22	0.061	3.85	1.12	19.4	10	130	0.29	0.07	0.16	0.55	24.9	9.1	20	1.14
297545		1.48	0.056	7.36	0.93	29.7	10	190	0.30	0.13	0.13	1.44	28.4	7.0	14	0.73
297546		1.70	>1.00	20.5	0.18	19.8	10	70	0.08	1.66	0.03	0.25	7.13	2.3	11	0.11
297547		1.98	0.610	2.63	1.55	15.7	10	130	0.48	0.13	0.27	0.23	22.0	5.2	23	0.74
297548		1.82	0.145	2.35	2.01	16.1	10	200	0.62	0.10	0.38	0.31	35.9	10.5	28	1.18
297549		2.02	>1.00	12.35	0.32	22.8	10	100	0.11	0.52	0.05	0.42	6.74	4.0	20	0.21
297550		1.16	0.643	15.15	0.05	19.6	<10	10	<0.05	0.15	0.01	0.01	0.49	4.8	11	<0.05
297551		1.68	0.235	30.8	0.02	9.7	10	10	<0.05	1.07	<0.01	0.02	0.25	0.7	14	<0.05
297552		1.70	>1.00	>100	0.02	1.9	<10	<10	<0.05	0.93	<0.01	0.02	0.25	0.3	12	<0.05
297553		1.48	>1.00	>100	0.06	23.5	10	20	<0.05	3.20	0.07	0.36	1.19	2.6	16	<0.05
297554		2.48	>1.00	>100	0.02	3.5	<10	10	<0.05	0.30	<0.01	0.03	0.26	0.6	13	<0.05
297555		2.36	0.414	0.60	1.02	39.7	10	130	0.26	0.07	0.15	0.22	15.80	7.4	26	0.30
297556		1.76	>1.00	1.23	1.24	76.3	10	140	0.93	0.07	0.56	0.91	34.6	9.0	26	1.86
S- 001		0.04	0.914	0.35	1.49	871	40	90	0.13	20.9	3.08	0.28	14.50	33.8	21	0.65
S- 002		0.04	0.070	0.08	1.46	5.4	30	110	0.26	0.07	1.11	0.13	10.60	8.5	37	0.42
S- 003		0.04	0.845	0.33	1.47	874	40	90	0.13	21.0	3.02	0.28	14.15	34.0	20	0.65
S- 004		0.04	0.033	0.07	1.45	5.2	30	110	0.24	0.09	1.09	0.16	10.60	8.6	37	0.41
S- 005		0.04	0.813	0.33	1.50	886	40	90	0.15	21.1	3.11	0.31	14.65	34.3	20	0.66
S- 006		0.04	0.018	0.07	1.53	5.6	30	120	0.20	0.09	1.16	0.14	11.25	8.7	38	0.42



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**CERTIFICATE OF ANALYSIS VA18246641**

Sample Description	Method Analyte Units LOD	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
297541		173.0	5.36	1.06	0.05	0.08	0.13	0.012	0.08	10.5	1.1	0.08	658	3.10	0.01	<0.05
297542		68.0	4.41	2.99	0.06	0.04	0.02	0.020	0.18	14.5	4.5	0.41	430	1.67	0.01	<0.05
297543		67.8	3.69	4.24	0.06	0.06	0.01	0.025	0.12	14.1	5.5	0.54	295	2.97	0.01	<0.05
297544		119.5	4.23	3.18	0.05	0.03	0.01	0.017	0.15	12.8	4.4	0.40	711	1.16	0.01	<0.05
297545		230	4.41	2.50	0.07	0.03	0.02	0.037	0.19	14.9	3.4	0.18	1250	1.66	0.02	<0.05
297546		172.5	1.53	0.50	<0.05	0.04	0.14	0.043	0.04	4.8	0.5	0.02	322	1.46	<0.01	<0.05
297547		370	3.01	4.31	0.06	0.05	0.01	0.030	0.16	12.1	6.5	0.57	302	1.63	0.01	<0.05
297548		402	3.52	6.50	0.09	0.05	0.01	0.040	0.32	17.7	8.0	0.87	357	1.87	0.01	<0.05
297549		132.5	2.05	0.93	<0.05	0.04	0.02	0.097	0.05	4.9	1.0	0.07	744	2.56	<0.01	<0.05
297550		9.0	1.04	0.16	<0.05	<0.02	0.01	<0.005	0.01	0.2	0.1	0.01	36	1.50	<0.01	<0.05
297551		7.6	0.76	0.11	<0.05	<0.02	<0.01	<0.005	0.01	0.2	0.1	<0.01	71	2.30	<0.01	<0.05
297552		7.4	0.35	0.07	<0.05	<0.02	0.47	<0.005	<0.01	<0.2	0.1	<0.01	47	1.69	<0.01	<0.05
297553		50.5	0.93	0.23	<0.05	<0.02	0.28	0.013	0.01	0.7	0.2	0.01	242	9.27	<0.01	<0.05
297554		19.4	0.40	0.10	<0.05	<0.02	0.37	<0.005	<0.01	<0.2	0.1	<0.01	59	1.98	<0.01	<0.05
297555		49.9	2.51	3.01	<0.05	0.02	0.02	0.018	0.13	7.3	6.3	0.49	275	3.59	0.01	<0.05
297556		39.9	3.65	3.28	0.06	0.03	0.11	0.046	0.17	20.4	3.4	0.40	519	4.62	0.01	<0.05
S- 001		124.0	3.44	4.34	0.12	0.07	<0.01	0.076	0.16	8.1	8.7	0.56	660	10.05	0.14	0.50
S- 002		47.3	2.98	4.73	0.14	0.19	0.03	0.016	0.11	4.8	9.6	0.74	495	5.52	0.08	0.40
S- 003		124.5	3.43	4.20	0.12	0.07	<0.01	0.073	0.16	7.9	8.5	0.57	661	10.05	0.14	0.49
S- 004		47.7	2.98	4.76	0.14	0.18	0.03	0.017	0.11	4.7	9.5	0.74	491	5.53	0.08	0.37
S- 005		125.5	3.49	4.34	0.10	0.08	0.01	0.078	0.16	8.0	8.5	0.57	670	10.30	0.14	0.46
S- 006		48.3	3.06	4.92	0.13	0.19	0.02	0.021	0.12	4.9	9.8	0.76	507	5.53	0.08	0.39



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Sample Description	Method Analyte Units LOD	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
297541		30.0	380	87.3	2.6	<0.001	0.02	15.30	3.4	1.0	<0.2	48.5	<0.01	16.85	1.2	<0.005	
297542		20.5	450	9.7	6.1	<0.001	<0.01	1.28	4.8	0.5	<0.2	34.2	<0.01	0.40	2.4	<0.005	
297543		22.8	660	9.6	6.5	0.001	<0.01	2.12	5.9	0.3	0.2	42.8	<0.01	0.54	3.1	0.008	
297544		27.8	340	7.3	7.0	<0.001	<0.01	2.06	4.3	0.2	<0.2	27.7	<0.01	0.37	3.2	<0.005	
297545		25.1	510	62.2	7.5	<0.001	<0.01	3.15	5.9	0.5	<0.2	32.1	<0.01	1.53	3.0	<0.005	
297546		6.1	120	72.6	1.2	<0.001	<0.01	12.50	1.5	0.3	<0.2	19.5	<0.01	30.2	0.4	<0.005	
297547		12.0	330	22.3	9.2	0.001	<0.01	3.47	5.7	0.7	0.2	35.6	<0.01	2.05	3.0	0.011	
297548		18.7	370	13.2	17.3	<0.001	<0.01	2.63	9.7	0.5	0.4	52.4	<0.01	1.31	3.5	0.030	
297549		10.3	190	75.3	2.0	<0.001	<0.01	7.84	2.1	0.2	<0.2	26.2	<0.01	16.85	0.6	<0.005	
297550		1.7	20	6.4	0.4	<0.001	0.64	1.40	0.2	1.0	<0.2	1.6	<0.01	3.71	<0.2	<0.005	
297551		1.7	30	54.8	0.2	<0.001	0.12	5.27	0.1	1.1	<0.2	2.4	<0.01	4.96	<0.2	<0.005	
297552		1.2	20	30.4	0.1	<0.001	<0.01	7.86	0.1	0.2	<0.2	0.6	<0.01	18.75	<0.2	<0.005	
297553		2.4	520	1480	0.3	<0.001	0.04	50.8	0.3	0.8	0.3	7.5	<0.01	7.97	<0.2	<0.005	
297554		1.4	20	11.1	0.1	<0.001	0.02	17.05	0.1	0.5	<0.2	1.1	<0.01	4.80	<0.2	<0.005	
297555		10.4	320	6.8	4.1	0.001	<0.01	4.56	4.3	0.9	<0.2	18.1	<0.01	0.29	2.7	<0.005	
297556		33.3	750	7.0	7.9	<0.001	<0.01	12.80	7.6	0.2	0.5	40.3	<0.01	1.50	2.5	0.007	
S- 001		20.1	790	8.1	6.1	0.017	0.20	2.98	2.6	2.1	2.1	87.4	<0.01	2.38	2.2	0.109	
S- 002		31.9	600	3.7	4.2	0.001	0.06	0.61	4.3	0.4	1.0	43.7	<0.01	0.03	1.1	0.149	
S- 003		20.2	790	8.2	6.2	0.017	0.19	2.92	2.5	2.3	2.0	86.7	<0.01	2.40	2.2	0.108	
S- 004		31.5	590	3.8	4.2	0.001	0.06	0.60	4.3	0.5	1.0	44.0	<0.01	0.04	1.0	0.146	
S- 005		20.4	800	8.2	6.2	0.017	0.20	2.91	2.6	2.3	2.1	88.1	<0.01	2.42	2.2	0.110	
S- 006		32.1	610	3.9	4.4	0.002	0.05	0.61	4.6	0.7	1.0	46.0	<0.01	0.03	1.1	0.158	



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**CERTIFICATE OF ANALYSIS VA18246641**

Sample Description	Method Analyte Units LOD	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	AuME- TL43	Ag- OG46	Au- AROR43	
		Tl	U	V	W	Y	Zn	Zr	Ag	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	1	0.01
297541		0.03	1.45	70	0.10	10.25	45	4.7		12.95
297542		0.06	1.09	73	0.09	11.80	52	2.4		
297543		0.06	1.49	82	<0.05	16.00	64	2.8		
297544		0.05	1.13	64	0.14	7.29	124	1.9		
297545		0.07	1.69	69	0.19	9.59	80	1.9		
297546		<0.02	0.51	25	0.07	3.53	16	1.4		21.6
297547		0.06	1.25	63	<0.05	12.40	69	2.0		
297548		0.12	1.39	84	<0.05	31.2	86	1.9		
297549		0.02	0.63	34	0.08	5.43	19	1.8		2.99
297550		<0.02	0.07	3	<0.05	0.47	2	<0.5		
297551		<0.02	0.09	3	<0.05	0.11	2	<0.5		
297552		<0.02	0.12	2	<0.05	0.09	<2	<0.5	99	>100
297553		<0.02	6.27	39	0.12	0.63	38	0.7	99	37.1
297554		<0.02	0.08	2	<0.05	0.07	<2	<0.5	171	>100
297555		0.04	0.70	53	<0.05	3.66	42	1.3		
297556		0.10	1.37	112	0.12	20.1	77	1.4		1.79
S- 001		0.05	1.59	65	7.65	6.20	51	4.2		
S- 002		0.06	0.31	63	0.61	7.23	43	7.0		
S- 003		0.05	1.55	64	7.84	6.09	51	4.1		
S- 004		0.06	0.29	62	0.83	7.17	44	7.1		
S- 005		0.05	1.58	65	8.05	6.21	52	4.2		
S- 006		0.06	0.33	65	0.56	7.50	45	7.3		



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### CERTIFICATE COMMENTS

#### LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Ag- OG46	Au- AROR43	AuME- TL43	CRU- 31
	CRU- QC	LOG- 22	LOG- 24	ME- OG46
	PUL- 31	SPL- 21	WEI- 21	





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This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 31- OCT- 2018.

The following have access to data associated with this certificate:

TIM HENNEBERRY

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Plus Appendix Pages  
Finalized Date: 3- NOV- 2018  
Account: MAMGEO

Project: Princeton Project (P.M.)

**CERTIFICATE OF ANALYSIS VA18275218**

Sample Description	Method Analyte Units LOD
297524 297525 297552 297554	Au- GRA21 Au ppm 0.05  217 99.7 108.5 115.5



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### CERTIFICATE COMMENTS

#### LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au- GRA21 FND- 02