



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

ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TYPE OF REPORT (type of survey(s)) **TOTAL COST \$** **5,520.80**
 Geological and Geochemical Report on the "Big Onion"

Copper-Molybdenum Mineral Property

AUTHOR(S) _____ **SIGNATURE(S)** 'SIGNED AND SEALED'
 Dr. Mathias Westphal, P.Geol. _____ Mathias Westphal

NOTICE OF WORK NUMBER(S) / DATE(S) MX-1-465 **YEAR OF WORK** Oct 4, 2012

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBERS / DATE(S)
 Event Number 5468065; September 17, 2013

PROPERTY NAME Big Onion

CLAIM NAME(S) (on which work was done) 521374, 521375 (Onion Extension 1), 570621 (Little Onion), 604468 (Onion

COMMODITIES SOUGHT Cu, Mo, Au

MINERAL INVENTORY MINFILE NUMBERS, IF KNOWN _____

MINING DIVISION Omineca **NTS** 093L15W **TRIM (BCGS)** 093L086

LATITUDE _____ **LONGITUDE** _____ (at centre of w

NORTHING _____ **EASTING** _____ **UTM ZONE** _____ **MAP DATUM**

6,075,000 637,000 09 NAD 83

OWNER 1 Lloyd Minerals Inc. **OWNER 2** _____

MAILING ADDRESS
910-475 West Georgia Street
Vancouver, BC, V6B 4M9

OPERATORS (who paid for work)
Lloyd Minerals Inc.

MAILING ADDRESS
910-475 West Georgia Street
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PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size, attitude)
Lower-Middle Jurassic Hazelton volcanics intruded by Late Cretaceous-Eocene pluton (QFP, Diorite)
Supergene propylitic and sericitic alteration, chalcocite, covellite, chalcopyrite, Molybdenite, Gold, 100 to 1500 m above main se

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS

830, 1122, 1143, 1778, 2527,2753, 5966, 6088, 6089, 6363, 16784, 22306, 26051, 28792, 30677, 30852

ASSESSMENT REPORT

GEOLOGICAL AND GEOCHEMICAL REPORT ON THE "BIG ONION" COPPER-MOLYBDENUM MINERAL PROPERTY BABINE RANGE, BC, CANADA

**Claim Tenures:
521374, 53175, 521376, 568627, 570621, 588893, 594713,
604467, 604468**

**Omineca Mining Division
54° 48' 35" N, 126° 53' 46" W
6075647 Northing 635209 Easting
UTM Zone 9 (NAD 83)**

**BC Geological Survey
Assessment Report
34428**

**RECORDED OWNER:
OPERATOR:
AUTHOR:
DATE:**

**LLOYD MINERALS INC.
METAL MOUNTAIN RESOURCES INC.
DR. MATHIAS W. WESTPHAL, P.GEO.
DECEMBER 6, 2013**

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2 Summary

The "Big Onion" property (the "Property") is a 3,206-hectare mineral tenure located 16 km east of Highway 16 and Smithers, British Columbia. The registered owner of the Property is Lloyd Metals Inc. ("Property Owner").

In 2006 Eagle Peak Resources Inc. entered into an option agreement with Shelly McCord and Twin Peaks Resources Ltd. to acquire a 100% interest in mineral claim 521374 (old 'Big Onion') in the Omineca Mining Division of British Columbia. Eagle Peak subsequently acquired by online-staking eight additional claims, including the area of the former MERT claims, to form the recent "Big Onion" tenure. On October 16, 2009, Metal Mountain Resources Inc. ("MMR") purchased the interest of the property from Eagle Peak Resources Inc. On September 12, 2012, MMR entered into a purchase agreement whereby Lloyd Minerals Inc. ("LMI"), a wholly owned subsidiary of MMR, purchased MMR's interest in the Big Onion Property.

The Property is located in prospective ground, based upon past exploration.

The exploration program in 2012 has focused on the eastern part of the property. The area of interest is the area on and south of the MERT showings, which showed Cu and Mo anomalies in geochemical survey programs conducted in 1966/67/69 by Tro-Buttle Exploration Ltd. (AR 1017, 1122, 1143, 1778) These anomalies seem to correlate with areas of total magnetic field high and IP chargeability high anomalies reported in a geophysical report for Eagle Peak Resources in 2009 (AR 30677). Lloyd Minerals Inc has conducted a brief soil sampling and rock chip sampling in 2012.

The Property has two recorded showings: Big Onion [MINFILE 093L 124], and MERT [MINFILE 093L 126]. The showings are about 4000m apart.

The "Big Onion" prospect, which includes the MERT showing, is considered to be a LO4: Porphyry Cu +/-Mo +/-Au type deposit as defined by the BC Geological Survey's Mineral Deposit Profiles.

The ground of the MERT Group claims east of Astlais Mountain (also known as 'Big Onion Mountain') and north of Little Onion Mountain had been originally staked in 1966 to 1968, adjoining the known mineralization on Big Onion Mountain. Geochemical surveys in 1966, 1967 and 1969 conducted by Tro-Buttle Explorations had revealed anomalous zones of copper and molybdenum, generally related to a northeast trending body of quartz diorite, the limits of which are little known. A magnetometer survey in 1970 did not reveal new insights. No work has been reported since, and the claims lapsed until Eagle Peak Resources Ltd staked the area in 2006.

Both, the Big Onion and the MERT area, are underlain by Lower Jurassic Hazelton Group volcanics comprising of andesitic to rhyolitic tuffs (pyroclastics) trending northeast. Lower Cretaceous Telkwa Formation sediments of argillaceous to cherty composition overlie these rocks.

At MERT a Late Cretaceous to Eocene quartz diorite stock trending northeast intrudes the host rocks. Disseminated pyrite is reported to occur in all rock types, and the diorite stock hosts chalcopyrite, pyrite, and molybdenite in hairline fractures and quartz veinlets. At the Big Onion a Late Cretaceous to Eocene pluton comprising of an earlier Quartz Feldspar Porphyry and later Quartz Diorite Porphyry intruded the volcanic Hazelton Group rock sequence. The mineralization, consisting of pyrite, chalcopyrite, molybdenite, chalcocite, covellite and minor bornite, occurs as disseminations and in a stock-work of quartz-filled fractures in both, volcanics and intrusives.

Work in 2012 consisted of one site visit at the Little Onion with recognizant geology and sampling 14 rock chips and 9 soil samples. Results warrant further work.

Total costs of exploration were CAD 5,520.80.

3 Introduction

3.1 Terms of Reference

Lloyd Minerals Inc commissioned this report. This Assessment Report describes the result of the exploration program in 2012 and makes recommendations for an ongoing exploration program.

3.2 Exploration Program 2012

Work in 2012 consisted of one site visit with recognizant geology and sampling 14 rock chips and 9 soil samples.

The total cost of the 2012 field program including travel, labor, and report writing is CAD **5,520.80**.

3.3 Site Visit

The author, Dr. Mathias Westphal, P.Geo., visited the property for one full day, Oct 4, 2012. The purpose of this work was to conduct some recognizant sampling in order to verify old geochemical anomaly findings reported from 1967 to 1970.

4 Property Description and Location

4.1 Location

The Property is located 16 kilometers east of Smithers, British Columbia as shown in Figure 1.

The "Big Onion" property lies within the Traditional Lands of the Wet'suwetn First Nation. Exploration permits must be obtained from the British Columbia Ministry of Energy, Mines, and Natural Gas prior to carrying out mechanized exploration on the Property.

The Property is in the Omineca Mining Division, within map sheet NTS 093L15W. The property is centered at approximately 54° 48' 35" North latitude and 126° 53' 46" West longitude; in the northeastern portion of NTS map sheet 093L/15W.

4.2 Claims

The "Big Onion" property is comprised of nine Mineral Titles Online (MTO) mineral claim blocks, which total 3206.31 hectares. Lloyd Minerals Inc. owns the claims. The claim statistics are listed in Table 1 and located in Figure 2.

Table 1. "Big Onion" property claims.

Tenure Number	Claim Name	Expiry Date	Area in Hectares
521374		2018/SEP/25	726.95
521375	Onion Extension 1	2018/SEP/25	465.89
521376	Onion Extension 2	2018/SEP/25	55.91
568627	Onion Extension 2	2018/SEP/25	466.20
570621	Little Onion	2018/SEP/25	372.99
588893	Little Onion	2016/SEP/25	149.13
604467	Onion E1	2014/SEP/25	465.86
604468	Onion E2	2014/SEP/25	466.09
610003		2014/SEP/25	37.29
		Total	3206.31

4.3 Nature of the Property Owner's Interest

The obligations to the local Government are:

The mineral title acquires and subsequently holds the available mineral or placer mineral rights as defined in section 1 of the Mineral Tenure Act.

In addition to mineral or placer mineral rights, a mineral title conveys the right to use, enter and occupy the surface of the claim or lease for the exploration and development or production of minerals or placer minerals, including the treatment of ore and concentrates, and all operations related to the business of mining

Section 8.4 of the British Columbia Mineral Tenure Act Regulation states:

The value of exploration and development required to maintain a mineral claim for one year is at least

- \$5.00 per hectare for anniversary years 1 and 2;
- \$10.00 per hectare for anniversary years 3 and 4;
- \$15.00 per hectare for anniversary years 5 and 6; and
- \$20.00 per hectare for subsequent anniversary years.

A permit application called a Notice of Work must be filed with the Ministry of Energy and Mines and physical work such as drilling, trenching, bulk sampling, camp construction, access upgrading or construction and geophysical surveys using live electrodes (IP) may not commence until as permit is issued. The filing of the notice of work initiates engagement and consultation with all other stakeholders including First Nations.

The author is not aware of any environmental liabilities related to the Property.

5 Accessibility, Climate, Physiography, Local Resources and Infrastructure

5.1 Accessibility

The Big Onion property is located approximately 16 kilometers east of the town of Smithers, British Columbia, Canada (Figure 1.0). The property sits astride the southeast facing flank of Astlais Mountain (Big Onion Mountain) and borders Babine Mountains Provincial Park to the north and Little Onion Mountain to the southeast. Astlais Creek approximately bisects the property in a northeast-southwest trend and flows southwest into Carr Creek, before terminating at the confluence with the Bulkley River.

The Babine Lake Road is an all-weather forestry road that traverses the property from west to east and is the main infrastructure available for access. A network of drill trails are linked to a main access trail that connects to the Babine Lake Road at the southern limit of the property. The Babine Lake Road connects to Highway 16 at a point approximately 3.0 kilometers southeast of Smithers. The Babine Lake road and the area trails also provide winter access for snowmobile enthusiasts who use the corridor for access north beyond the property to Babine Mountain Provincial Park.



Figure 1 Big Onion property Location map

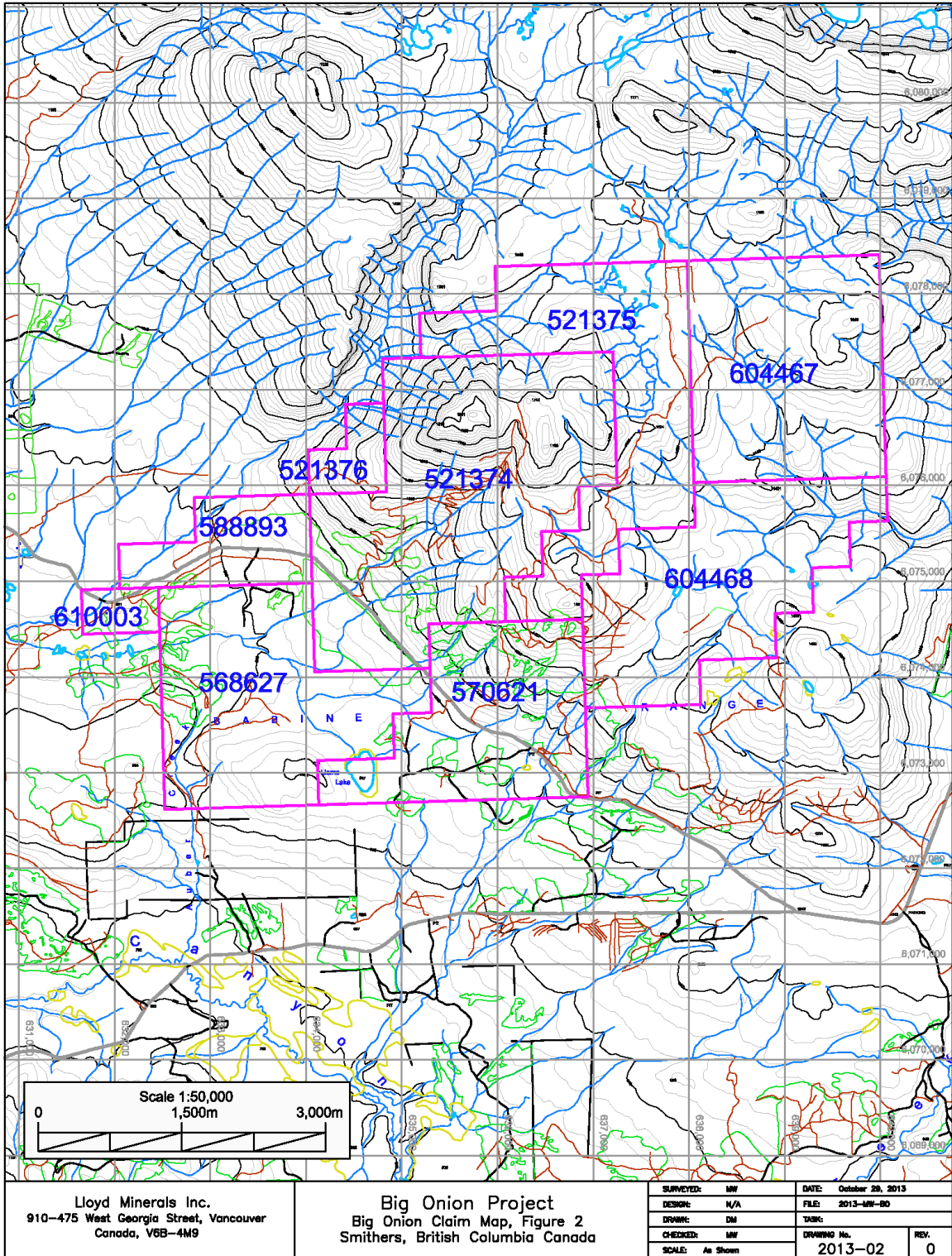


Figure 2. Big Onion property Claim map

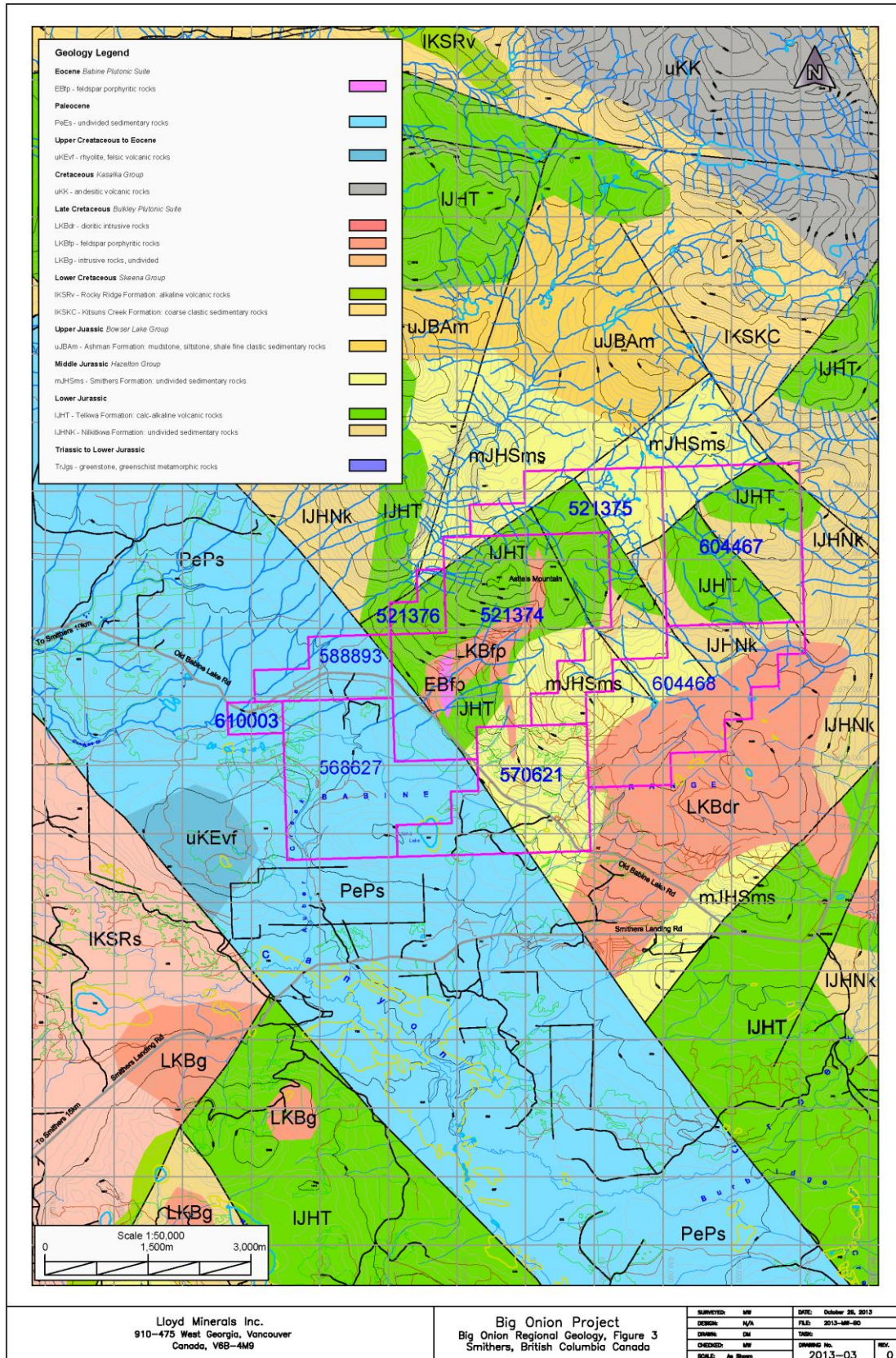


Figure 3. Big Onion Regional Geology map

5.2 Physiography, Vegetation and Climate

The Babine Range has experienced glaciation and significant post-glacial erosion. There are a number of incised creeks that flow southwestward toward the Bulkley River, or eastward toward Babine Lake. There are remnant snowfields and small glaciers still evident at higher altitudes. The timberline is found at about 1500 m above sea level.

The topography of the property varies from relatively flat-lying in the southeast to gently rolling terrain in the southern and western area to steep to precipitous terrain rising up the flank of Astlais Mountain. The elevation on the property ranges from 820 m at Ganokwa Creek rising to a height of 1840 m on Astlais Mountain. The area ranges in elevation from 900 m at the southwest end to 1520 m at the northeast end.

The property is bisected by Astlais Creek and is bordered by Big Onion Mountain to the north and Little Onion Mountain to the southeast. There are two local streams (Astlais Creek & unnamed creek) on the property that drain southward to Llama Lake, a small lake situated south of the property boundary. There are several small, intermittent ephemeral creeks mapped on the property and a few insignificant beaver ponds and bogs on the lower elevations.

The climate of the area is strongly influenced by the Babine Range, which dominates the northern side of the Bulkley Valley, and the Coast Range Mountains to the west that have a shielding effect. The property is found within the interior bio-geo-climatic zone known as Engelmann Spruce – Subalpine Fir, or ESSF. The ESSF is characterized by a climate with short, cool growing seasons and long, cold winters. Historic climate data for the Smithers airport (523m ESL) indicate average temperatures that range from -9°C (16°F) in January to 15°C (59°F) in July. The average annual snowfall is 216 cm (85 in.). Rain can occur in any month and ranges from an average low of 6 mm in February to a high of 58 mm in October, with an annual average of 34 cm (13 in.).

The landscape at the upper elevations is open parkland with trees clumped and interspersed with meadow, heath and grassland. Engelmann spruce, subalpine fir, dominates the vegetation of the property and lodgepole pine. In terms of age class distribution, approximately half of the forested area consists of slow-growing, high-volume stands and the other half is reasonably well distributed across the younger age classes. There are areas of low brush at lower elevations, and old trails have recently become partially overgrown with alder.

5.3 Local Resources and Infrastructure

Trained personnel for line cutting, access trail construction, driller helpers, core technicians, and other related workforce are available around Smithers.

Supplies and services are available in Smithers. Vehicles can be rented in Smithers, and there are several flights a day into Smithers. Several drilling companies operate out of Smithers BC.

6 History

Early Prospecting (1917-1932)

Copper occurrences were originally discovered on the property in 1917 by prospector Axel Elmsted and his partners, Tommy Haig and Ben Benson. The three partners established a camp in 1924 and drove two short northwest trending adits into the most prospective mineralization. The lower adit was collared at the 1150 metre elevation and ran a total length of 50 metres. The upper adit measured 15 metres long and was collared at the 1170 metre elevation. The adits were located about 330 metres northeast of the zone of known mineralization. Samples that were taken were reported to contain only trace values and the property was deemed uneconomic at the time. Additional exploration work was conducted intermittently up until 1932 by Axel Elmsted and new partner Ben Muller. In 1930 the new partners drove a third adit and cross-cut, for a total distance of 122 metres of drift. The results from the upper adit were disappointing, with only minor amounts of chalcopyrite and molybdenite found.

A total of 45 mineral claims were established on the south slope of Astlais Mountain by Jack Hemelspeck in the early 1960's and shortly thereafter optioned to Noranda Exploration Company Ltd.

Noranda Exploration Company Ltd. (1964)

Texas Gulf Sulphur Co. Ltd. (1966-1967)

Tro-Buttle Exploration Ltd. (1969-1970)

Tro-Buttle Exploration Ltd. (Tro-Buttle) conducted soil geochemistry and ground magnetic surveys on the **Mert** claims about 2000 metres southeast of the Big Onion mineralized zones. Dirom (1969, AR 1779) reported copper and molybdenum soil anomalies coincident with outcrops of a weakly mineralized northeast trending quartz-diorite that intrudes Hazelton Group volcanic and sedimentary rocks. Trace amounts of molybdenite and chalcopyrite were observed in the quartz-diorite on joints, in quartz veinlets and microveins (fracture fillings), and in some aplitic veinlets. Sphalerite, galena and "grey copper" were reported along with arsenopyrite in quartz-carbonate fracture fillings within hornfelsed and ankeritized sediments near the intrusive contact.

Blue Rock Mining Corp./ Cyprus Mines Corp. (1970-1971)

Canadian Superior Exploration Ltd. (1974-1977, 1982)

Noranda Exploration Company Ltd. (1987)

Varitech Resources Ltd. (1991)

Consolidated Magna Ventures Ltd. (1998)

Mountford/Beattie (2000)

Eagle Peak Resources Inc. (2006)

In 2006 Eagle Peak Resources Inc. entered into an option agreement with Shelly McCord and Twin Peaks Resources Ltd. to acquire a 100% interest in mineral claim 521374 (old 'Big Onion') in the Omineca Mining Division of British Columbia. Eagle Peak subsequently acquired by online-staking eight additional claims, including the area of the former MERT claims, to form the recent "Big Onion" tenure.

Metal Mountain Resources Inc. (2009)

On October 16, 2009, Metal Mountain Resources Inc. ("MMR") purchased the interest of the property from Eagle Peak Resources Inc.

Lloyd Minerals Inc. (2009)

On September 12, 2012, MMR entered into a purchase agreement, whereby Lloyd Minerals Inc. ("LMI"), a wholly owned subsidiary of MMR, purchased MMR's interest in the Big Onion Property.

For a detailed history on the Big Onion portion of the 'Big Onion' property described by Daryl Hanson, 2009, see AR 30852.

7 Geological Setting

7.1 Regional Geology

Lithology

The south end of the Babine Range is underlain by Early to Middle Jurassic, island arc rocks of the Telkwa, Nilkitkwa and Smithers formations of the Hazelton Group (Fig. 3). The Telkwa Formation, at the base of the Hazelton Group, is the thickest and most extensive formation. It has been subdivided into four map able units which are from youngest to oldest: polymictic conglomerate (IJT1), porphyritic andesite (IJT2), fragmental volcanic rocks (IJT3), and phyllitic maroon tuffs (IJT4). Units 3 and 4 are considered to be proximal vent facies rocks.

The Telkwa Formation is overlain conformably to disconformably by the Nilkitkwa Formation which is a sequence of marine sediments that overlie rhyolite, basalt and red epiclastic rocks. The formation has been subdivided into four map able units: interbedded red epiclastics and amygdaloidal flows (IJN1 or Eagle Peak Formation); rhyolitic volcanic rocks (IJN2); tuffaceous conglomerate, cherty tuff and siltstone (IJN3); and thin bedded argillite, chert and limestone (IJN4).

The overlying Smithers Formation (IJS) consists of fossiliferous feldspathic sandstone and siltstone. These rocks are mapped as a marine transgressive sequence disconformably overlying the older volcanic rocks.

Rocks of the Early Cretaceous Bulkley Plutonic Suite and the Eocene Nanika Plutonic Suite intrude the Hazelton Group rocks locally.

Structure

The tectonic history of the Babine Range is represented by three significant regimes. The first and earliest regime is represented by a calc-alkaline island arc system (Hazelton Gp.), which is later succeeded by a molasse basin (Bowser Gp.) derived from uplifted areas to the east and south. The second regime is represented by plate tectonism in the mid-Cretaceous, which uplifted the Coast Range and caused sediments (Skeena Gp.) to be shed eastward. Following deposition of the Skeena Group sediments, a volcanic-arc system developed (Kasalka Gp.).

Fault systems controlled emplacement of the intrusive rocks in the Cretaceous to Eocene time.

The final tectonic element consisted of a tensional regime that produced the basin and range geomorphology setting thought to be similar to the Basin and Range regime found in the southwest United States. The Babine Range is marked by a series of northwest-trending horsts and grabens. The fault blocks are tilted southwest toward the Bulkley Valley, and are stepped downward to the west, preserving progressively younger

stratigraphic levels. This stepped preservation is believed to be responsible for segmentation of the Big Onion deposit, with different erosional levels represented in each block. Structures within the fault blocks are asymmetric to overturned, southeast-plunging open folds that are truncated by northeast-trending high angle faults.

There are a total of four phases of deformation that have been mapped by regional surveys.

The earliest phase is probably related to regional compression during the Late Cretaceous time, accompanied by folding and uplift. During Late Cretaceous to Early Tertiary time it is believed that regional extension developed, coincident with extensive volcanism and stratovolcano development. Compression during tertiary time caused reverse movement along pre-existing high-angle normal faults. The youngest event, also of Tertiary age, is the development of major east to northeast-trending faults that truncate and offset the dominant northwest-trending structural fabric of the range.

7.2 Property Geology

Previous geological mapping on the property is preliminary or general, and appears to have suffered from lack of outcrop. Much of the knowledge of the deposit is projected from drill hole geology.

At MERT a Late Cretaceous to Eocene quartz diorite stock trending northeast intrudes the host rocks. Disseminated pyrite is reported to occur in all rock types, and the diorite stock hosts chalcopyrite, pyrite, and molybdenite in hairline fractures and quartz veinlets.

At the Big Onion a Late Cretaceous to Eocene pluton comprising of an earlier Quartz Feldspar Porphyry and later Quartz Diorite Porphyry intruded the volcanic Hazelton Group rock sequence. The mineralization, consisting of pyrite, chalcopyrite, molybdenite, chalcocite, covellite and minor bornite, occurs as disseminations and in a stock-work of quartz-filled fractures in both, volcanics and intrusives.

These facts, observations, and postulated relationships need further geological investigations.

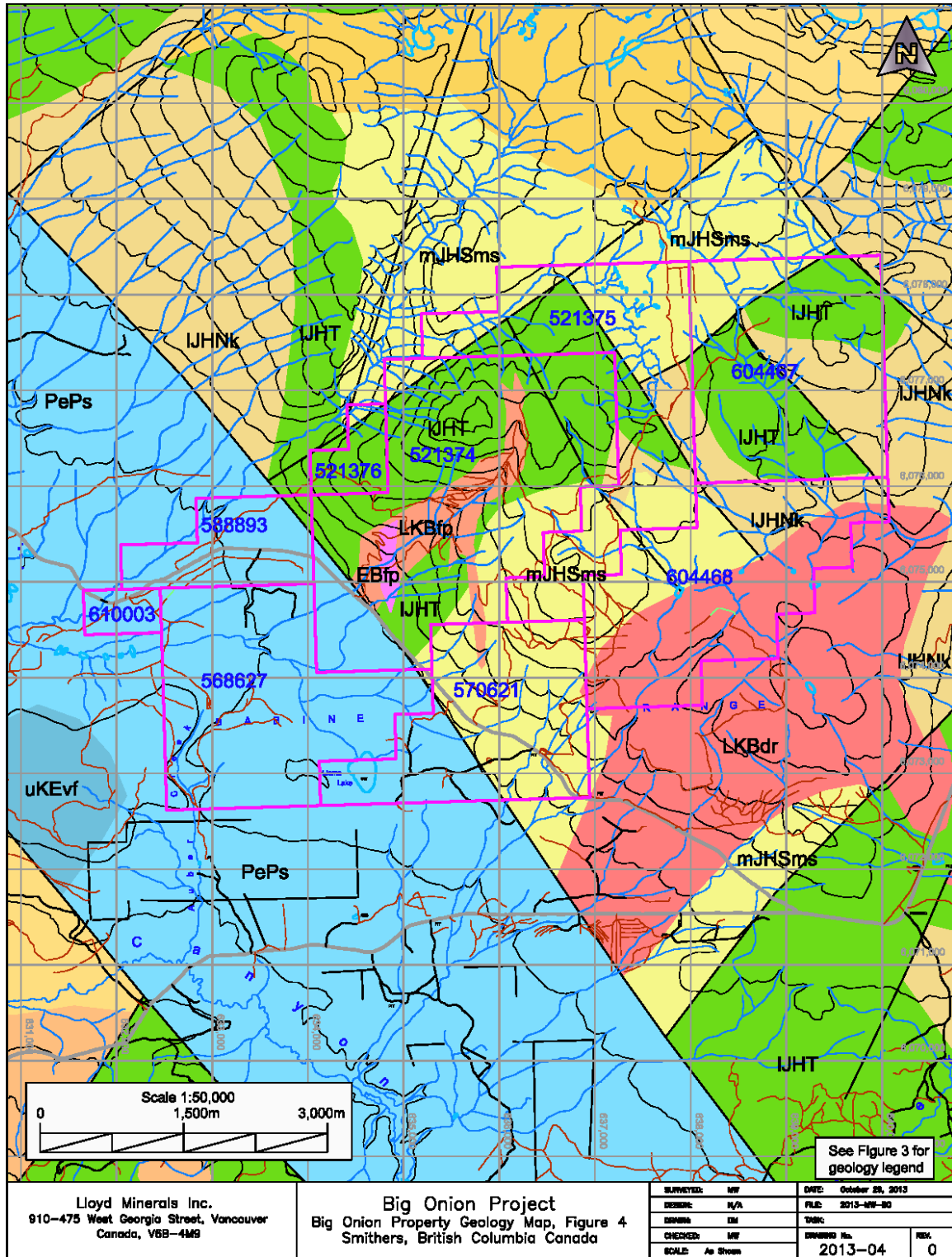


Figure 4. Big Onion Property geology map

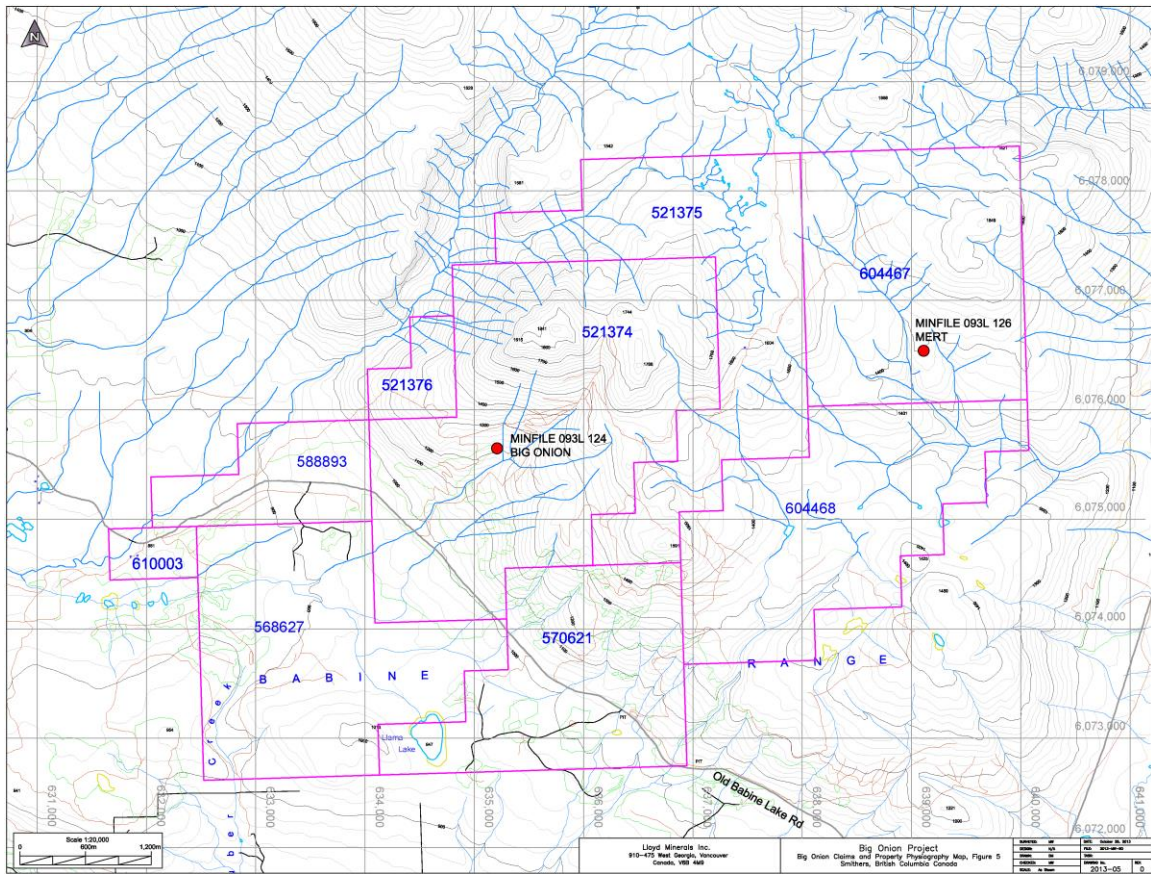


Figure 5. Big Onion Physiography and claim map

8 Deposit Type

The Property has two recorded showings: Big Onion [MINFILE 093L 124], and MERT [MINFILE 093L 126]. The showings are about 4000m apart.

The "Big Onion" prospect, which includes the MERT showing, is considered to be a LO4: Porphyry Cu +/-Mo +/-Au type deposit as defined by the BC Geological Survey's Mineral Deposit Profiles.

9 Alteration and Mineralization

The alteration varies from sericitic to propylitic. The mineralization, consisting of pyrite, chalcopyrite, molybdenite, chalcocite, covellite and minor bornite, occurs as disseminations and in a stock-work of quartz-filled fractures in both, volcanics and intrusives. Sphalerite, galena and "grey copper" were reported along with arsenopyrite in quartz-carbonate fracture fillings within hornfelsed and ankeritized sediments near the intrusive contact.

10 Exploration

Geochemical surveys in 1966, 1967 and 1969 conducted by Tro-Buttle Explorations had revealed anomalous zones of copper and molybdenum, generally related to a northeast trending body of quartz diorite, the limits of which are little known. A magnetometer survey in 1970 did not reveal new insights. No work has been reported since, and the claims lapsed until Eagle Peak Resources Ltd staked the area in 2006.

In 2012 Lloyd Minerals Inc. carried out a small field program, which consisted of one site visit with recognizable geology and sampling. See map (Fig. 6) for locations.

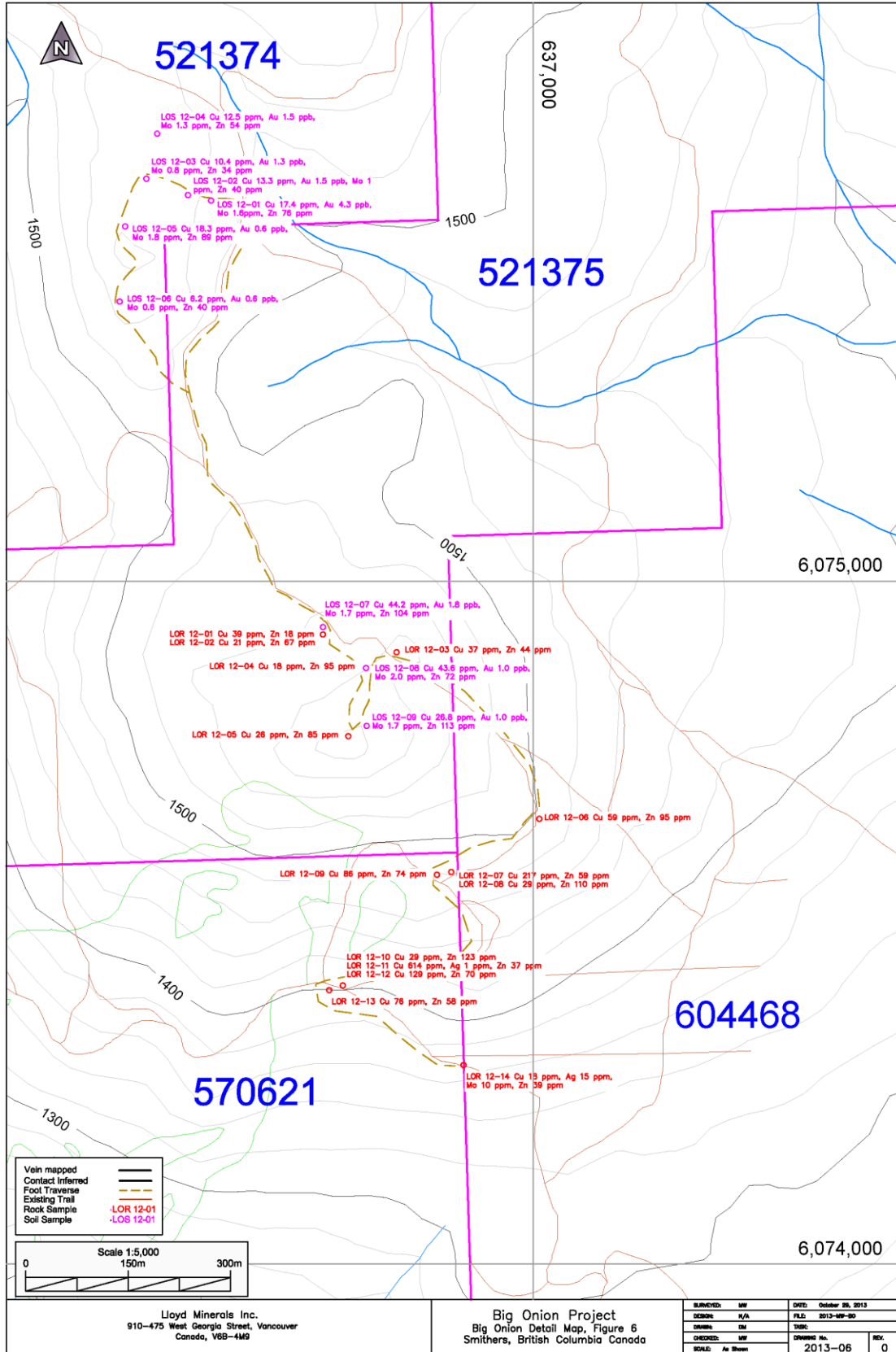


Figure 6. Big Onion detailed sampling map

The program was undertaken in order to double check soil sampling results from surveys undertaken between 1966 and 1969 on claims north and around of the Little onion (AR 1017, 1122, 1143).

The anomaly reported northwest of the Little Onion could not be verified (LOS 12 01 to 05), whereas the anomaly located around the Little Onion could be verified for Cu, Mo and possibly Zn.

In addition, some rock chip samples from sparse outcrops have been taken. The samples taken from the low elevation locations of LOR 12 07 and lower to LOR 12 14 show potential for Cu and possibly Zn.

Table 2. Assay result from Rock Chips and Soil Samples 2012

Rock chips			Cu	Ag	Mo	Zn
UTM			PPM	PPM	PPM	PPM
Sample	Easting	Northing				
LOR 12 01	636692	6074922	39	n.d.	n.d.	18
LOR 12 02	636692	6074922	21	n.d.	n.d.	67
LOR 12 03	636800	6074896	37	n.d.	n.d.	44
LOR 12 04	636755	6074873	18	n.d.	n.d.	95
LOR 12 05	636729	6074773	26	n.d.	n.d.	85
LOR 12 06	637009	6074652	59	n.d.	n.d.	95
LOR 12 07	636880	6074574	217	n.d.	n.d.	59
LOR 12 08	636880	6074574	29	n.d.	n.d.	110
LOR 12 09	636859	6074570	86	n.d.	n.d.	74
LOR 12 10	636721	6074408	29	n.d.	n.d.	123
LOR 12 11	636721	6074408	614	1	n.d.	37
LOR 12 12	636721	6074408	129	n.d.	n.d.	70
LOR 12 13	636701	6074401	76	n.d.	n.d.	58
LOR 12 14	636898	6074291	18	1.5	10	39

n.d. - not detected

Soil samples			Cu	Au	Mo	Zn
UTM			PPM	PPB	PPM	PPM
Sample	Easting	Northing				
LOS12 01	636528	6075558	17.4	4.3	1.6	76
LOS12 02	636494	6075566	13.3	1.5	1	40
LOS12 03	636433	6075590	10.4	1.3	0.8	34
LOS12 04	636449	6075656	12.5	1.5	1.3	54
LOS12 05	636402	6075520	18.3	0.6	1.8	89
LOS12 06	636394	6075410	6.2	0.6	0.6	40
LOS12 07	636692	6074933	44.2	1.8	1.7	104
LOS12 08	636755	6074873	43.6	1	2	72
LOS12 09	636756	6074788	26.8	1	1.7	113

11 Conclusions

Exploration work in 2012 was successful in re-establishing old findings in geochemical soil surveys (AR 1017, 1122, 1143, 1778).

Also, the sampling of a rock chips on outcrops along the trail indicate some metal values.

The findings correlate with High total magnetic field anomalies coinciding with High chargeability IP anomalies reported in 2009 (AR 30677).

Therefore, it is the author's opinion, that this portion of the property is a property of merit.

12 Recommendations

Further work and soil sampling on the lower part of the Little Onion is recommended. Also, the area between the eastern zone of the Little Onion and the main zone of the Big Onion should be investigated with a soil-sampling program. Drilling targets could be determined based on IP anomalies, results of the soil sampling survey, and results of the drilling program 2013 on the lower part of the Big Onion, the so-called southwest extension.

13 Statement of Costs

The total cost of the 2012 field program including travel, wages, assays, drafting and report writing is **\$5,520.80**. See Table 2 for the breakdown of costs.

Table 3. 2012 Expenditures

<u>Expenses</u>	<u>Name</u>	<u>Memo</u>	<u>Amount CAD</u>
Geological Wages	Mathias Westphal, White North West Consulting	2 days @ \$700	1,400.00
Field Assistant	Kevin Tattersall	1 day @ \$500	500.00
Subcontractor drafting	Doug McRae, Maps North	26 hrs @ \$50	1300.00
Puchasing TRIM maps	Base Map online store	0931076 - TRIM Positional Map 0931086 - TRIM Positional Map	400.00
Analysis	Acme Labs	Rock chip samples (14)	291.20
	Acme Labs	Soil samples (9)	201.60
Travel		Vehicle expenses Truck 50 km @ \$0.40/km ATV 20 km @ \$0.40/km	28.00
Report writing	Mathias Westphal, White North West Consulting	16 hrs @ \$87.50	1,400.00
		Total	5,520.80

14 References

EMPR ASS RPT: 830, 1017, 1122, 1143, 1778, 2527, 28792, 30677, 30852

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Certificate of Author

White North West Consulting
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phone: (250) 469 - 9024
Cell : (250) 877-9322
e-mail: mathiasw.geo@gmail.com

I, Dr. Mathias W. Westphal, P.Geo., do hereby certify that:



1. I am principal of:
White North West Consulting
3712 1st Avenue
Po Box 2575
Smithers, B.C., Canada
V0J 2N0
2. I graduated with a Masters of Science degree in Mineralogy from Albert-Ludwigs-University at Freiburg, Germany in 1994. In addition, I have obtained a Masters of Arts degree in Geography from Albert-Ludwigs-University at Freiburg, Germany in 1992.

Since 1998 I hold a Ph.D. in Mineralogy from Albert-Ludwigs-University at Freiburg, Germany.

3. I am a member of the:
 - APEGBC – Association of Professional Engineers and Geoscientists, British Columbia
 - AME BC – Association of Mineral Exploration, British Columbia
 - SEG – Smithers Exploration Group, British Columbia
 - DMG – German Mineralogical Society (Deutsche Mineralogische Gesellschaft).
4. I have worked as a Mineralogist/Geologist for a total of 18 years since my Masters of Science graduation from university.

I am the author of this report titled "ASSESSMENT REPORT, GEOLOGICAL AND GEOCHEMICAL REPORT ON THE "BIG ONION" COPPER-MOLYBDENUM MINERAL PROPERTY BABINE RANGE, BC, CANADA" and dated December 6, 2013, and take responsibility for the entire report.

Dated at 6th Day of December 2013.



Dr. Mathias Westphal, P.Geo.
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3712 1st Avenue, Smithers, B.C., Canada
Po Box 2575 V0J 2N0
phone: (250) 846 5867
e-mail: mathiasw.geo@gmail.com

APPENDIX



521374

637,000

521375

6,075,000

604468

570621

6,074,000

LOS 12-04 Cu 12.5 ppm, Au 1.5 ppb,
Mo 1.3 ppm, Zn 54 ppm

LOS 12-03 Cu 10.4 ppm, Au 1.3 ppb,
Mo 0.8 ppm, Zn 34 ppm

LOS 12-02 Cu 13.3 ppm, Au 1.5 ppb, Mo 1
ppm, Zn 40 ppm

LOS 12-01 Cu 17.4 ppm, Au 4.3 ppb,
Mo 1.6 ppm, Zn 76 ppm

LOS 12-05 Cu 18.3 ppm, Au 0.6 ppb,
Mo 1.8 ppm, Zn 89 ppm

LOS 12-06 Cu 6.2 ppm, Au 0.6 ppb,
Mo 0.6 ppm, Zn 40 ppm

LOS 12-07 Cu 44.2 ppm, Au 1.8 ppb,
Mo 1.7 ppm, Zn 104 ppm

LOR 12-01 Cu 39 ppm, Zn 18 ppm

LOR 12-02 Cu 21 ppm, Zn 67 ppm

LOR 12-03 Cu 37 ppm, Zn 44 ppm

LOR 12-04 Cu 18 ppm, Zn 95 ppm

LOR 12-08 Cu 43.6 ppm, Au 1.0 ppb,
Mo 2.0 ppm, Zn 72 ppm

LOR 12-09 Cu 26.8 ppm, Au 1.0 ppb,
Mo 1.7 ppm, Zn 113 ppm

LOR 12-05 Cu 26 ppm, Zn 85 ppm

LOR 12-06 Cu 59 ppm, Zn 95 ppm

LOR 12-09 Cu 86 ppm, Zn 74 ppm

LOR 12-07 Cu 217 ppm, Zn 59 ppm

LOR 12-08 Cu 29 ppm, Zn 110 ppm

LOR 12-10 Cu 29 ppm, Zn 123 ppm

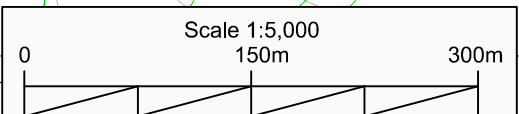
LOR 12-11 Cu 614 ppm, Ag 1 ppm, Zn 37 ppm

LOR 12-12 Cu 129 ppm, Zn 70 ppm

LOR 12-13 Cu 76 ppm, Zn 58 ppm

LOR 12-14 Cu 18 ppm, Ag 15 ppm,
Mo 10 ppm, Zn 39 ppm

Vein mapped ———
 Contact Inferred ———
 Foot Traverse ———
 Existing Trail ———
 Rock Sample ·LOR 12-01
 Soil Sample ·LOS 12-01



Lloyd Minerals Inc.
 910-475 West Georgia Street, Vancouver
 Canada, V6B-4M9

Big Onion Project
 Big Onion Detail Map, Figure 6
 Smithers, British Columbia Canada

SURVEYED:	MW	DATE:	October 29, 2013
DESIGN:	N/A	FILE:	2013-MW-B0
DRAWN:	DM	TASK:	
CHECKED:	MW	DRAWING No.	2013-06
SCALE:	As Shown	REV.	0



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PHONE (604) 253-3158

Client: **Lloyd Minerals**
413-595 Burrard Street
Vancouver BC V7X 1G4 CANADA

Submitted By: Mathias Westphal
Receiving Lab: Canada-Smithers
Received: October 05, 2012
Report Date: January 22, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000448.1

CLIENT JOB INFORMATION

Project: Little Onion
Shipment ID:
P.O. Number
Number of Samples: 9

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

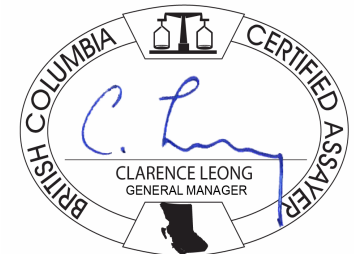
Invoice To: Lloyd Minerals
413-595 Burrard Street
Vancouver BC V7X 1G4
CANADA

CC: Kevin Tattersall

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	9	Dry at 60C			SMI
SS80	9	Dry at 60C sieve 100g to -80 mesh			SMI
1DX2	9	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS



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



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Project: Little Onion
Report Date: January 22, 2013

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

SMI12000448.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
LOS12 01	Soil	1.6	17.4	13.7	76	0.2	8.7	6.6	767	5.73	83.9	4.3	0.2	7	0.2	2.5	0.4	43	0.04	0.191	8
LOS12 02	Soil	1.0	13.3	6.2	40	0.2	7.8	3.5	187	2.25	11.6	1.5	0.2	7	<0.1	1.3	0.4	39	0.04	0.095	8
LOS12 03	Soil	0.8	10.4	5.7	34	<0.1	6.3	2.5	118	1.91	6.2	1.3	0.3	6	<0.1	0.6	0.2	31	0.03	0.082	7
LOS12 04	Soil	1.3	12.5	7.8	54	<0.1	11.1	4.7	265	3.42	15.4	1.5	<0.1	10	<0.1	1.3	0.3	61	0.06	0.084	7
LOS12 05	Soil	1.8	18.3	9.6	89	0.1	14.9	6.8	379	3.50	18.1	0.6	0.2	14	0.2	1.3	0.4	56	0.11	0.125	6
LOS12 06	Soil	0.6	6.2	5.2	40	0.1	6.5	3.2	170	2.09	7.3	0.6	0.1	6	<0.1	0.7	0.2	35	0.03	0.089	7
LOS12 07	Soil	1.7	44.2	10.5	104	0.1	18.3	9.6	336	4.00	121.3	1.8	1.1	7	0.1	3.0	0.3	47	0.06	0.076	7
LOS12 08	Soil	2.0	43.6	8.3	72	0.2	15.3	8.3	348	3.87	590.1	1.0	0.8	15	0.3	6.8	0.4	51	0.22	0.099	6
LOS12 09	Soil	1.7	26.8	10.4	113	0.1	19.9	9.5	1107	5.53	76.9	1.0	0.7	9	0.2	1.6	0.3	62	0.31	0.136	6



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 413-595 Burrard Street
 Vancouver BC V7X 1G4 CANADA

Project: Little Onion
Report Date: January 22, 2013

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000448.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
LOS12 01	Soil	10	0.16	83	0.007	<1	1.20	0.006	0.05	0.2	0.07	0.9	<0.1	0.07	6	<0.5	<0.2
LOS12 02	Soil	13	0.17	60	0.006	<1	1.33	0.006	0.04	0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
LOS12 03	Soil	13	0.22	70	0.003	<1	1.74	0.007	0.04	<0.1	0.05	1.4	<0.1	<0.05	6	<0.5	<0.2
LOS12 04	Soil	16	0.24	78	0.009	<1	1.77	0.008	0.04	0.2	0.04	1.3	<0.1	<0.05	8	<0.5	<0.2
LOS12 05	Soil	20	0.42	147	0.004	1	2.28	0.010	0.07	0.2	0.05	1.8	<0.1	<0.05	8	0.5	<0.2
LOS12 06	Soil	12	0.26	61	0.005	<1	1.43	0.008	0.04	0.1	0.04	0.8	<0.1	<0.05	6	<0.5	<0.2
LOS12 07	Soil	17	0.49	74	0.007	<1	3.50	0.009	0.06	0.2	0.08	4.6	<0.1	<0.05	5	0.8	<0.2
LOS12 08	Soil	22	0.41	80	0.011	<1	3.42	0.010	0.05	0.2	0.08	5.2	<0.1	<0.05	6	0.7	<0.2
LOS12 09	Soil	37	0.66	83	0.036	<1	4.18	0.007	0.06	0.2	0.06	5.4	<0.1	<0.05	8	0.7	<0.2



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 Vancouver BC V7X 1G4 CANADA

Project: Little Onion
Report Date: January 22, 2013

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

SMI12000448.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
LOS12 02	Soil	1.0	13.3	6.2	40	0.2	7.8	3.5	187	2.25	11.6	1.5	0.2	7	<0.1	1.3	0.4	39	0.04	0.095	8
REP LOS12 02	QC	1.0	13.7	6.1	40	0.2	8.0	3.6	205	2.29	11.7	0.6	0.2	7	0.1	1.3	0.3	39	0.04	0.091	8
Reference Materials																					
STD DS9	Standard	12.9	106.1	137.5	314	1.9	38.9	7.1	619	2.41	26.0	118.2	7.0	84	2.4	6.3	7.4	42	0.75	0.088	15
STD DS9 Expected		12.84	108	126	317	1.83	40.3	7.6	575	2.33	25.5	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819	13.3
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



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Project: Little Onion
Report Date: January 22, 2013

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

SMI12000448.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
LOS12 02	Soil	13	0.17	60	0.006	<1	1.33	0.006	0.04	0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
REP LOS12 02	QC	12	0.17	61	0.007	<1	1.37	0.007	0.04	0.2	0.04	1.1	<0.1	<0.05	6	<0.5	<0.2
Reference Materials																	
STD DS9	Standard	118	0.65	317	0.129	3	1.01	0.105	0.43	3.2	0.22	2.6	5.6	0.15	5	5.9	5.0
STD DS9 Expected		121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	0.2	2.5	5.3	0.1615	4.59	5.2	5.02
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



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Client: **Lloyd Minerals**
413-595 Burrard Street
Vancouver BC V7X 1G4 CANADA

Submitted By: Mathias Westphal
Receiving Lab: Canada-Smithers
Received: October 05, 2012
Report Date: January 22, 2013
Page: 1 of 2

CERTIFICATE OF ANALYSIS

SMI12000449.1

CLIENT JOB INFORMATION

Project: Little Onion
Shipment ID:
P.O. Number
Number of Samples: 14

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	14	Crush, split and pulverize 250 g rock to 200 mesh			SMI
1E	14	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

RTRN-PLP Return
RTRN-RJT Return

ADDITIONAL COMMENTS

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

Invoice To: Lloyd Minerals
413-595 Burrard Street
Vancouver BC V7X 1G4
CANADA

CC: Kevin Tattersall



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

CERTIFICATE OF ANALYSIS

SMI12000449.1

Method	WGHT	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01	
G1-SMI	Prep Blank	<0.01	<2	5	20	53	1.2	4	5	734	2.39	<5	<20	<4	3	722	0.6	<5	<5	50	2.43
G1-SMI	Prep Blank	<0.01	<2	<2	19	53	1.3	4	4	759	2.44	<5	<20	<4	4	753	0.6	<5	<5	50	2.49
LOR 12 01	Rock	0.49	<2	39	7	18	<0.5	19	15	343	5.04	25	<20	<4	<2	280	0.7	<5	<5	164	2.07
LOR 12 02	Rock	0.26	<2	21	5	67	<0.5	10	6	454	4.15	5	<20	<4	<2	233	0.7	<5	<5	184	1.19
LOR 12 03	Rock	0.57	<2	37	5	44	<0.5	11	10	522	4.99	19	<20	<4	<2	297	0.5	<5	<5	93	2.39
LOR 12 04	Rock	0.43	<2	18	<5	95	<0.5	9	7	600	5.07	<5	<20	<4	<2	268	0.5	<5	<5	78	2.09
LOR 12 05	Rock	0.51	<2	26	6	85	<0.5	15	13	327	4.31	6	21	<4	<2	352	0.6	<5	<5	123	1.33
LOR 12 06	Rock	0.38	<2	59	<5	95	<0.5	5	9	903	3.69	<5	<20	<4	<2	1390	0.6	<5	<5	83	1.97
LOR 12 07	Rock	0.45	<2	217	<5	59	<0.5	3	5	1089	4.88	29	<20	<4	<2	709	0.5	<5	<5	88	2.46
LOR 12 08	Rock	0.80	<2	29	<5	110	<0.5	6	13	1230	4.76	5	<20	<4	<2	917	0.6	<5	<5	122	2.76
LOR 12 09	Rock	0.78	<2	86	10	74	<0.5	<2	4	1059	3.60	9	<20	<4	<2	1328	0.9	<5	<5	41	5.28
LOR 12 10	Rock	0.38	<2	29	19	123	<0.5	17	16	432	5.03	55	<20	<4	<2	180	1.8	<5	<5	195	0.24
LOR 12 11	Rock	0.75	<2	614	7	37	1.0	16	51	602	13.41	47	<20	<4	<2	96	<0.4	<5	86	140	0.74
LOR 12 12	Rock	0.46	<2	129	6	70	<0.5	14	20	811	6.59	16	<20	<4	<2	410	0.6	<5	<5	175	3.55
LOR 12 13	Rock	0.31	<2	76	6	58	<0.5	11	16	1334	5.66	14	<20	<4	<2	395	1.0	10	<5	182	3.70
LOR 12 14	Rock	0.86	10	18	<5	39	1.5	<2	6	681	2.94	1042	<20	<4	<2	298	0.5	15	<5	30	2.98



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Client: **Lloyd Minerals**
413-595 Burrard Street
Vancouver BC V7X 1G4 CANADA

Project: Little Onion
Report Date: January 22, 2013

Page: 2 of 2

Part: 2 of 1

CERTIFICATE OF ANALYSIS

SMI12000449.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
G1-SMI	Prep Blank	0.078	23	9	0.69	1025	0.24	7.78	2.89	3.12	<4	14	<2	16	26	3	5	<0.1
G1-SMI	Prep Blank	0.081	29	6	0.70	1161	0.25	8.15	3.04	3.26	<4	15	<2	16	27	3	5	<0.1
LOR 12 01	Rock	0.033	7	26	0.84	340	0.53	9.90	1.56	3.04	<4	37	<2	9	5	1	23	1.8
LOR 12 02	Rock	0.042	9	29	1.01	581	0.55	9.90	1.06	2.69	<4	34	<2	12	5	1	23	0.2
LOR 12 03	Rock	0.149	15	21	0.95	419	0.46	8.52	1.33	1.53	<4	35	<2	24	4	1	18	1.2
LOR 12 04	Rock	0.251	18	24	0.94	198	0.39	6.93	1.15	1.88	<4	21	<2	31	3	1	14	1.2
LOR 12 05	Rock	0.039	11	30	1.05	411	0.45	8.95	1.73	1.53	<4	31	<2	16	4	<1	18	0.7
LOR 12 06	Rock	0.050	14	9	0.96	645	0.39	7.61	2.36	1.15	<4	12	<2	25	3	1	18	<0.1
LOR 12 07	Rock	0.065	10	17	1.02	492	0.53	7.57	3.51	1.11	7	20	<2	21	3	<1	20	0.9
LOR 12 08	Rock	0.066	11	13	1.44	614	0.46	8.35	3.62	1.21	<4	19	<2	25	3	1	22	0.4
LOR 12 09	Rock	0.115	17	11	0.85	667	0.60	8.33	1.70	1.30	<4	27	3	47	4	1	18	0.9
LOR 12 10	Rock	0.038	7	27	1.04	558	0.50	9.21	1.44	3.18	<4	21	<2	8	4	<1	23	<0.1
LOR 12 11	Rock	0.109	13	24	0.93	30	0.40	7.81	0.90	1.93	5	33	<2	16	5	<1	16	5.4
LOR 12 12	Rock	0.104	14	23	1.49	316	0.49	8.90	2.52	0.63	<4	34	<2	16	5	<1	17	1.2
LOR 12 13	Rock	0.101	16	32	1.11	357	0.56	9.25	1.85	1.37	<4	30	<2	22	6	1	18	0.7
LOR 12 14	Rock	0.044	8	6	0.47	1050	0.31	6.03	0.10	2.56	11	20	<2	18	2	<1	14	0.3



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Project: Little Onion
 Report Date: January 22, 2013

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QUALITY CONTROL REPORT

SMI12000449.1

Method	WGHT	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01	
Pulp Duplicates																					
LOR 12 06	Rock	0.38	<2	59	<5	95	<0.5	5	9	903	3.69	<5	<20	<4	<2	1390	0.6	<5	<5	83	1.97
REP LOR 12 06	QC		<2	61	6	97	<0.5	5	9	930	3.78	<5	<20	<4	<2	1444	0.5	<5	<5	86	2.05
Reference Materials																					
STD OREAS24P	Standard		<2	48	<5	110	<0.5	147	44	1087	7.44	<5	<20	<4	<2	401	1.0	<5	<5	156	5.89
STD OREAS45E	Standard		4	780	15	45	<0.5	485	60	552	26.59	13	<20	<4	11	15	<0.4	<5	<5	318	0.06
STD OREAS45C	Standard		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	550	24.12	16.3	2.41		12.9	15.9	0	1	0.28	322	0.065
STD OREAS45C Expected			2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270	0.482
STD OREAS24P Expected			1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
BLK	Blank		<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01
Prep Wash																					
G1-SMI	Prep Blank	<0.01	<2	5	20	53	1.2	4	5	734	2.39	<5	<20	<4	3	722	0.6	<5	<5	50	2.43
G1-SMI	Prep Blank	<0.01	<2	<2	19	53	1.3	4	4	759	2.44	<5	<20	<4	4	753	0.6	<5	<5	50	2.49



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Report Date: January 22, 2013

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QUALITY CONTROL REPORT

SMI12000449.1

Method		1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
Pulp Duplicates																			
LOR 12 06	Rock	0.050	14	9	0.96	645	0.39	7.61	2.36	1.15	<4	12	<2	25	3	1	18	<0.1	
REP LOR 12 06	QC	0.052	15	9	0.98	661	0.40	7.87	2.47	1.20	<4	13	<2	26	4	1	19	<0.1	
Reference Materials																			
STD OREAS24P	Standard	0.129	18	201	4.19	283	1.09	7.86	2.69	0.70	<4	131	<2	21	23	1	20	<0.1	
STD OREAS45E	Standard	0.035	11	1033	0.16	257	0.56	7.04	0.05	0.33	<4	100	<2	3	11	<1	96	<0.1	
STD OREAS45C	Standard	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	110	1.32	8.28	6.8	0.62	93	0.046	
STD OREAS45C Expected		0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	2.9	12.9	23.05		59.03	0.021	
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20		
BLK	Blank	<0.002	<2	8	<0.01	<1	<0.01	0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1	
Prep Wash																			
G1-SMI	Prep Blank	0.078	23	9	0.69	1025	0.24	7.78	2.89	3.12	<4	14	<2	16	26	3	5	<0.1	
G1-SMI	Prep Blank	0.081	29	6	0.70	1161	0.25	8.15	3.04	3.26	<4	15	<2	16	27	3	5	<0.1	