

# **Assessment Report**

## **Winter 2010/2011 Drilling Program**

### **ZigZag Property**

**CRESCENT LAKE AREA  
THUNDER BAY MINING DIVISION, ONTARIO, CANADA  
NTS 52108**

Prepared For:  
**Canadian Orebodies**

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## 2 Introduction

This report details the work completed during the drilling program completed during the months of January and February of 2011 by Fladgate Exploration Consulting Corporation (Fladgate) on behalf of Canadian Orebodies Inc. (Canadian Orebodies). The work was completed on the ZigZag Property (the Property), located northeast of Armstrong, Ontario, Canada. Canadian Orebodies acquired its interest in the property as part of its focus in discovering and developing an economic lithium & tantalum deposit.

This report was authored by Michael Thompson, P. Geo., and Avery Henderson.

## 3 Terms of Reference

This report was prepared at the request of Canadian Orebodies for the use of filing assessment as required under the Ontario Mining Act.

## 4 Disclaimer

This report is based on information from assessment reports, private reports and general geological reports and maps listed in the References and Literature Section. Although many authors of such reports appear to be qualified and the information appears to have been prepared to standards acceptable at the time, the presentation of the data does not meet present requirements and therefore the author is unable to ascertain the full quality of the information. The author does not take responsibility for the information provided from such sources.

## 5 Property Description and Location

The Property is located within the Falcon Lake area, consisting of 15 contiguous claims (Table 1), located approximately 70km northeast of Armstrong, Ontario, Canada (Figure 2).

Armstrong, Ontario is located approximately 250km north of Thunder Bay, Ontario, at the end of Highway 527, running along the west side of Lake Nipigon (Figure 1).





Figure 1: Regional Location.



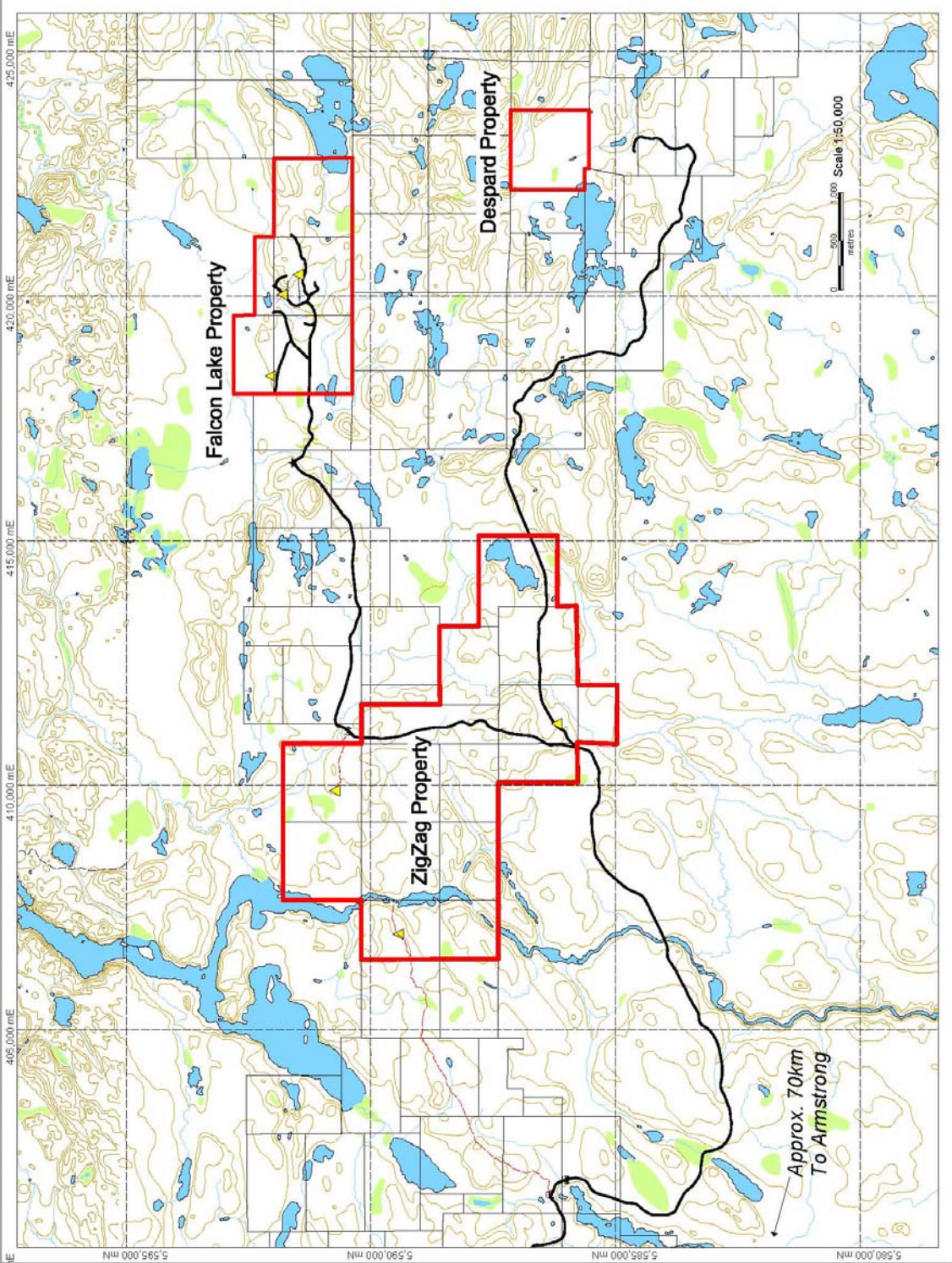


Figure 2: Falcon Lake Property location.



**Table 1 – Falcon Lake Property Claims**

<b>Mining Claim</b>	<b>Township/Area</b>	<b>Units</b>	<b>Date Recorded</b>	<b>Date Due</b>
4252421	Crescent Lake (G-0027)	16	Dec. 9, 2009	Dec. 9, 2011
4213186	Crescent Lake (G-0027)	16	Sept. 24, 2009	Sept. 24, 2012
4244211	Crescent Lake (G-0027)	12	Oct. 27, 2008	Oct. 27, 2011
4244212	Crescent Lake (G-0027)	16	Oct. 27, 2008	Oct. 27, 2011
4244213	Crescent Lake (G-0027)	16	Oct. 27, 2008	Oct. 27, 2011
4244214	Crescent Lake (G-0027)	9	Oct. 27, 2008	Oct. 27, 2011
4244215	Crescent Lake (G-0027)	12	Oct. 27, 2008	Oct. 27, 2011
4244216	Crescent Lake (G-0027)	16	Oct. 27, 2008	Oct. 27, 2011
4213187	Crescent Lake (G-0027)	14	Sept. 24, 2009	Sept. 24, 2012
4252422	Crescent Lake (G-0027)	16	Dec. 9, 2009	Dec. 9, 2011
4252423	Crescent Lake (G-0027)	12	Dec. 9, 2009	Dec. 9, 2011
4252424	Crescent Lake (G-0027)	13	Dec. 9, 2009	Dec. 9, 2011
4252425	Crescent Lake (G-0027)	8	Dec. 9, 2009	Dec. 9, 2011
4229526	Crescent Lake (G-0027)	12	Sept. 24, 2009	Sept. 24, 2012
4229572	Crescent Lake (G-0027)	6	Sept. 24, 2009	Sept. 24, 2012

## 6 Accessibility, Local Resources and Infrastructure

Main access to the site is achieved by the Jackfish road, which is an extension of Airport Rd., leading northeast out of Armstrong, Ontario. The Jackfish road splits off into the North Jackfish road, and the East Jackfish road, both of which access a sizeable portion of the east side of the Property (Figure 2). The western portion of the property is inaccessible by road.

The Jackfish Road is considered a gravel logging road and is in consistent use by local outdoorsmen and the Whitesand First Nation. Although it is fairly well-maintained, an off-road capable truck or SUV is recommended.

The North Road separates from the main Jackfish road at approximately the 76km marker, and goes north through claims 4252425, 4229526 and 4213187. There is an old road at the 5km marker along the North road that can be used to access the Dempster East showing located on claim 4213186. This trail is limited to ATV use only.

There is very limited access into the western portion of the Property, however a combination of re-using old logging trails and creating new trails was undertaken to allow drill access to the Tebishogeshik showing. This new trail is limited to ATV and snowmobile use, and is considered a winter-use trail only.



## 7 Climate and Physiography

Climatic conditions during the January 2011 program were typical for the time of year. Temperatures for the month ranged from a high of -5°C to lows of -40°C. During the bulk of the program, a typical period cold temperatures lasting up to two weeks brought temperatures down to -43°C without wind chill. At multiple times the program had to be halted due to cold temperatures. Snowfall was minimal throughout the month, although there was already over 3-5 feet of snow already on the ground.

## 8 Geological Setting

### 8.1 Regional and Local Geology

The property is located within the Caribou Greenstone Belt, which trends ENE along the top of Lake Nipigon, extending eastward from the larger Onamon-Tashota Greenstone Belt, and lying along the northern margin of the Wabigoon Subprovince (marked by the Sydney Lake-Lake St. Joseph Fault zone). The Caribou belt differs from the Marshall Lake portion of the Tashota belt in being dominated by mafic and ultramafic rock compositions, including komatiites, with lesser intermediate and felsic metavolcanic rocks. The Caribou belt also contains horizons of metasedimentary units, including abundant iron formation. Numerous Archean-aged mafic and ultramafic bodies intrude the volcanics. In the area of the property, a prominent SSW-trending arm of the belt wraps around the northwest end of a large, early, composite felsic pluton. The contacts of the pluton can be seen on regional vertical gradient magnetic maps, and is reported (Pye, 1968) to be composed of tonalite and granodiorite, with lesser granite, monzonite and diorite phases. The SSW arm area is also cut by a series of prominent late SSW-trending faults (with left-lateral displacement) that dictate the odd shape of Crescent Lake. Lying near the north end of the Nipigon Embayment, the area has also been affected by the Proterozoic Mid-Continental Rift event, expressed locally by outliers of Logan diabase sills that form prominent hills in the area, and can be seen on magnetic maps as strong highs or lows.

### 8.2 Property Geology

The ZigZag Property is comprised mostly of a large volcanic package on the northern portion of the Property, and a granitic intrusion to the south (Figure 5). The volcanic unit has been metamorphosed to at least the greenschist facies, while local occurrences of garnet suggest a higher facies in places.

The metavolcanics throughout the Property occur in several different forms, ranging from massive basalts to sheared volcanic units, however they are mostly observed as moderately sheared and metamorphosed schists which are commonly mistaken for sedimentary units when observing a weathered outcrop. A fresh surface will reveal a fairly chloritized intermediate to mafic volcanic unit.





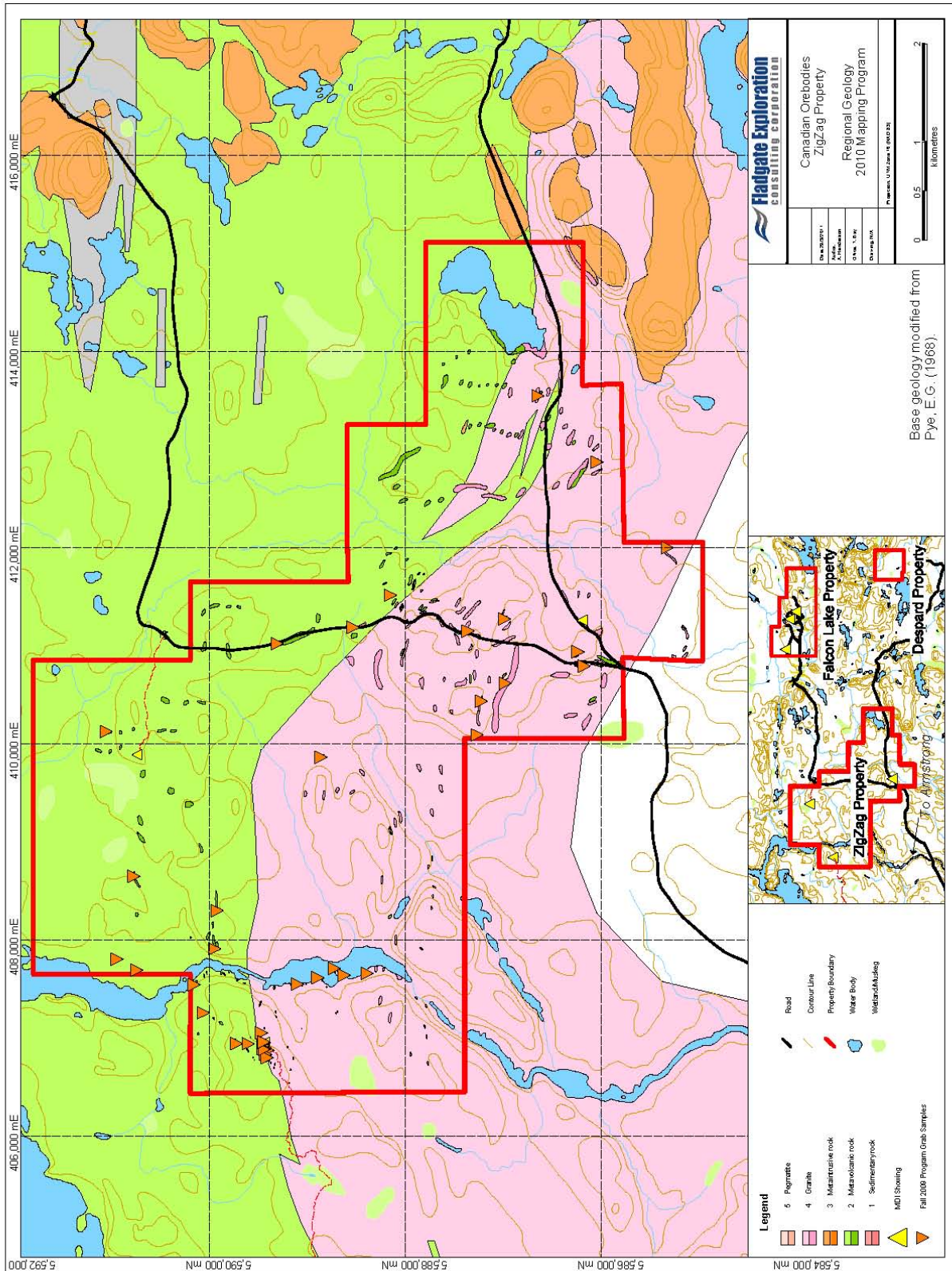


Figure 3: Regional geology (modified from Pye, E.G., 1968)



Several instances of pegmatite are noted across the Property, including the Tebishogeshik and Dempster East showings. While the Dempster East showing tends to be a more 'finer-grained' pegmatite, the more economically viable Tebishogeshik showing is more coarse-grained with large spodumene crystals, as well as equally large muscovite, feldspar and quartz throughout the entire strike length of the showing (~670m).

### 8.3 Alteration and Mineralization

The mineralization is based in the pegmatite dykes, concentrated in the spodumene crystals which are consistent throughout the entire unit. The primary elements of interest are lithium, which is typically concentrated in spodumene, and tantalum, which is concentrated in tantalite. Spodumene is readily observable in outcrop and in drill core, with crystal sizes ranging from 3-15cm, on average. Tantalite is not as noticeable, as it still occurs as finer-grained crystals even in pegmatite. There are several instances of small tantalite laths in drill core, and there are historical accounts of 2-inch tantalite crystals observed in outcrop in the Tebishogeshik showing.

There is no recognized alteration associated with the mineralized pegmatites into the host metavolcanics and metasediments.

## 9 History of Exploration on the Property

Canadian Orebodies performed a stripping and channel sampling in the Fall of 2009, concentrating mostly on the eastern portion of the Property. The Dempster East showing (Claim 4213186) was stripped and sampling had begun with the cutting of two samples. The sampling however was put on hold due to weather and mechanical issues. In the Fall of 2010, 13 more channels were cut over the Dempster East, covering the entire pegmatite showing. In all, 15 channels were completed, totalling 31 samples.

The Ketchikan Beryl Occurrence was also stripped, washed and channel sampled (Claim 4229526) during the Fall of 2009, to test for any lithium and tantalum over the outcrop. A total of 24 samples were taken over 5 channels.

Historical, documented exploration is summarized in Table 2 below.

**Table 2 – Past Exploration - Falcon Lake Property**

Year	Operator	Work	Principal Reference
1956-1960	Dempster Explorations Ltd.	Line cutting, trenching and drill program, totalling 24 holes.	
1978-1979	E&B Explorations Inc. & Cominco Ltd.	Grid cutting and Geochemistry Program	E&B Assessment Report
1982	Bird River Mines Co. Ltd.	Channel Sampling	BRMC Report
2002	Platinova Resources	Grab samples and channel sampling.	Platinova Resources Property Evaluation



Initial work done on the Zig Zag Lake property was performed by Dempster Explorations Ltd. in 1958, after original claims were staked by Frank Tebishogeshik in 1956, and optioned to Dempster Explorations. A local grid was cut in the area of the Tebishogeshik showing west of Zig Zag Lake (claim 4244211). Trenching and stripping of the primary dyke showing followed the line cutting, as well as one diamond drill hole.

A proper drill program was later carried out in 1958, 1959, and 1960 with a total of 23 holes drilled with a 7/8 packsack drill. Work ended after 1960 when lithium prices dropped below economical cutoffs.

Work did not continue until E&B Exploration Inc., in agreement with Cominco Ltd., conducted a line cutting and geochemistry program in 1979. A 19.18 mile grid was cut over the Tebishogeshik occurrence, and a 3.90 mile grid was cut over the Dempster East showing (Map 1). Geochemistry was conducted over the Tebishogeshik collecting a total of 892 samples, while 132 samples were conducted over the Dempster East dyke.

Bird River Mines Co. Ltd. continued with work in 1982 with an extensive channel sampling program over the Dempster East and Tebishogeshik occurrences. A summary of their results show an average lithium return of 2,500 tons per vertical foot with an average grade of 1.60% Li. Results for tantalum, gallium, and beryllium were also returned with ½-7lbs/ton, ~ ½ lb/ton, and recoverable amounts, respectively. These results were based off of 36 channel samples totaling approximately 155 feet.

## 10 Current Program

### 10.1 Geological Mapping

A geological mapping program took place over most of the ZigZag Property that could be accessed on foot. Mapping took place over the months of October and November by one crew, consisting of a project manager and geotechnician from Fladgate. All grab samples with assays are outlined in Table 3.

### 10.2 Channel Sampling

A short channel sampling job was undertaken over the Dempster East showing, completing an earlier channel sampling program begun in 2009, however was discontinued due to weather and equipment failure. A total of 2 samples were taken in 2009 before it was discontinued and an additional 27 samples were taken in 2010. Channel sample locations and results are outlined in Table 4.

### 10.3 Drill Program

The 2011 Winter program consisted of drilling 8 drill holes across the Tebishogeshik showing (Table 3). While the exact locations of all the pegmatite occurrences were not accurately known, the program was based off of historical data and maps. The holes were created to test the strike extent outwards (east and west) from the known pegmatite outcrops observed during mapping.



The drilling was performed by Rugged Aviation Inc., based out of Kenora, Ontario, Canada. The drilled was mobilized to the Property from the previous drill program performed on the Falcon Lake Property, also owned by Canadian Orebodies, during the month of December 2010. Mobilization from Jackfish road to the Tebishogeshik showing began on January 8<sup>th</sup>. Complete mobilization took several days as the trail used needed to be widened to accommodate for the drill, and was completed on January 15<sup>th</sup>, where the drill was set up to drill hole CO-10-004.

**Table 3 – Grab sample locations and results**

Sample ID	Easting (NAD83)	Northing (NAD83)	Rock Type	Li (ppm)	Ta (ppm)
H181101	406956.00	5589440.00	Pegmatite	5170	146
H181103	406956.00	5589440.00	Quartz Vein	21	0.09
H181104	406946.00	5589439.00	Pegmatite	60.3	197.5
H181105	406918.00	5589449.00	Pegmatite	9,070	100
H181106	406874.00	5589402.00	Granite	139.5	1.31
H181107	406829.00	5589426.00	Pegmatite	4,680	226
H181108	406798.00	5589412.00	Pegmatite	127.5	54.4
H181110	406940.00	5589723.00	Quartz Vein	5.2	0.39
H181114	407542.00	5590154.00	Iron Formation	19.2	0.27
H181115	410122.00	5591051.00	Iron Formation	20.2	0.6
H181116	411996.00	5585328.00	Pegmatite	9.5	67
H181117	407049.00	5589468.00	Pegmatite	19,000	64.2
H181118	406891.00	5589453.00	Pegmatite	7,100	>100
H181119	413545.00	5586648.00	Pegmatite	39.7	1.27
H181120	412870.00	5586045.00	Pegmatite	14.3	4.14
H181121	410789.00	5586178.00	Pegmatite	19.5	7.98
H181122	410935.00	5586239.00	Pegmatite	25.8	63
H181123	407706.00	5588726.00	Pegmatite	24.8	16.4
H181124	407611.00	5588893.00	Pegmatite	6.3	27
H181125	407547.00	5589100.00	Pegmatite	36.9	37.8
H181126	411148.00	5587361.00	Pegmatite	5.1	72.1
H181127	410614.00	5586983.00	Quartz Vein	6.6	0.1
H181128	410432.00	5587225.00	Pegmatite	6.2	5.69
H181131	407638.00	5588625.00	Pegmatite	4.4	22.5
H181132	407656.00	5588391.00	Pegmatite	56.8	8.61
H181133	411270.00	5586990.00	Pegmatite	17.8	11.55
H181134	411512.00	5588153.00	Pegmatite	24.6	37.6
H181135	411183.00	5588533.00	Pegmatite	33.9	41.4
H181136	409860.00	5588862.00	Pegmatite	51.7	16.1
H181138	410088.00	5587270.00	Pegmatite	21.1	16.75
H181231	406950.00	5589440.00	Pegmatite	256	319
H181232	406950.00	5589440.00	Pegmatite	37.4	98.5
H181233	406950.00	5589440.00	Pegmatite	214	411
H181234	406950.00	5589440.00	Pegmatite	2,040	146.5



Sample ID	Easting (NAD83)	Northing (NAD83)	Rock Type	Li (ppm)	Ta (ppm)
H181235	406921.00	5589451.00	Pegmatite	63.9	90.3
H181236	406893.00	5589453.00	Pegmatite	3,830	321
H181237	406882.00	5589441.00	Pegmatite	7,310	87.2
H181238	406939.00	5589603.00	Iron Formation	9.9	0.32

Table 4 – Channel sample results

Sample ID	Channel ID	Easting (NAD83)	Northing (NAD83)	Li (ppm)	Ta (ppm)
H181201	Channel 1	409886.00	5590736.00	620	0.86
H181202	Channel 2	409886.00	5590736.00	3,140	>100
H181203	Channel 2	409886.00	5590736.00	610	0.98
H181204	Channel 3	409886.00	5590736.00	640	>100
H181205	Channel 3	409886.00	5590736.00	152.5	>100
H181206	Channel 4	409886.00	5590736.00	163.5	>100
H181207	Channel 4	409886.00	5590736.00	253	1.07
H181208	Channel 5	409886.00	5590736.00	93.6	>100
H181209	Channel 6	409886.00	5590736.00	720	1.24
H181210	Channel 6	409886.00	5590736.00	5,340	>100
H181211	Channel 7	409886.00	5590736.00	337	1.11
H181212	Channel 7	409886.00	5590736.00	8,740	>100
H181213	Channel 7	409886.00	5590736.00	5,300	>100
H181214	Channel 8	409886.00	5590736.00	90.8	12.7
H181215	Channel 8	409886.00	5590736.00	299	>100
H181216	Channel 9	409886.00	5590736.00	3,890	>100
H181217	Channel 9	409886.00	5590736.00	760	1.69
H181218	Channel 10	409886.00	5590736.00	7,430	>100
H181219	Channel 11	409886.00	5590736.00	5,320	83.4
H181220	Channel 12	409886.00	5590736.00	8,690	>100
H181221	Channel 13	409886.00	5590736.00	448	3.55
H181222	Channel 13	409886.00	5590736.00	7,370	>100
H181223	Channel 13	409886.00	5590736.00	1,330	0.88
H181224	Channel 14	409886.00	5590736.00	73.7	>100
H181225	Channel 14	409886.00	5590736.00	230	0.48
H181226	Channel 15	409886.00	5590736.00	47.7	>100
H181227	Channel 15	409886.00	5590736.00	161	0.27



A total of 7 holes were initially planned to test the entire pegmatite occurrence, however an 8<sup>th</sup> hole was added to test the behaviour of the adjacent granitic unit, and how it affected the pegmatite at depth.

**Table 5 – 2011 drill hole locations**

Drillhole ID	Easting (NAD83)	Northing (NAD83)	Azimuth	Dip	Depth (m)	Pegmatite Intersection (m)
CO-10-004	406924.00	5589431.00	347	-50.0	100.5	6.00
CO-10-005	406953.00	5589428.00	330	-50.0	50.9	2.00
CO-10-006*	406899.00	5589412.00	345	-60.0	50.5	2.50 + 3.50
CO-10-007*	406839.00	5589410.00	345	-55.0	50.0	0.30 + 6.30
CO-10-008	406761.00	5589387.00	350	-50.0	50.5	5.00
CO-10-009*	407144.00	5589476.00	345	-50.0	51.0	8.30 + 2.00
CO-10-010	407153.00	5589451.00	345	-55.0	81.0	4.00
CO-10-011*	407422.00	5589521.00	345	-50.0	50.2	4.50 + 2.55 +0.30 +1.10

\* Hole intersected pegmatite on more than one occasion.

## 11 Sampling Method and Approach

Core logging and subsequent sampling/cutting were performed in Thunder Bay, Ontario, by Fladgate. All pegmatite was sampled, mostly at 1m intervals, as well as any granite that was discovered. A QA/QC program was put in place that involved placing lithium standard material (SRM 181) every 25 samples, as well as a granite blank every alternating 25 samples. The blank material was obtained from Nelson Granite, in Vermilion Bay, Ontario.

The SM 181 standard was sourced from the National Institute of Standards and Technology (NIST), part of the U.S. Department of Commerce.

## 12 Sample Preparation, Analysis and Security

The unsampled core was brought from the Property to the Jackfish road by either snowmobile or ATV, then brought to Fladgate's core shack in Thunder Bay, Ontario, by truck. The samples were cut and placed in standard clear sample bags, and then placed in rice bags in groups of 10, where able.

The samples were brought by truck to the ALS Chemex Preb Lab, located in Thunder Bay, where they were prepped to be analysed by the 48 element ME-MS61 method, which analyses for all the necessary Li, Ta, Cs and Be elements. Some samples were sampled using the ME-MS41 method, as several zones of sulphides were observed, therefore sampled for precious metals, as well as the elements listed above.



## 13 Interpretations and Conclusions

The intentions of the 2011 drilling were to test the full extent of the known Tebishogeshik showing while it was most easily accessible during the winter months. All 8 holes intersected pegmatite at various depths (Table 3), which interpret to be either one or several pegmatite lenses/dykes extending along the full strike length tested of approximately 670m.

The pegmatite is mineralogically consistent along strike, however modal percentages vary slightly, as well as grain size. While favourable Li grades were intersected over the entire length of the pegmatite, CO-10-007 stood out with grades up to **1.49% LiO<sub>2</sub>** (Table 4). Tantalum grades were higher and more consistent over the pegmatite section, with grades reaching almost **400ppm Ta<sub>2</sub>O<sub>5</sub>** (hole CO-10-008, Table 4). There does not appear to be any correlation with the

**Table 6 – Significant results from ZigZag 2011 drilling**

Hole ID	From (m)	To (m)	Width (m)	Be (ppm)	Cs (ppm)	Nb (ppm)	Rb (ppm)	Li <sub>2</sub> O (%)	Ta <sub>2</sub> O <sub>5</sub> (ppm)
CO-10-005	10.73	21.10	10.37	36.07	132.40	32.65	803.35	0.27	86.92
<i>including</i>	10.73	14.48	3.75	79.05	71.93	58.91	870.93	0.45	192.79
CO-10-006	19.80	22.40	2.60	115.60	54.46	81.30	1201.54	0.74	123.87
CO-10-006	28.50	30.5	2.00	100.35	80.05	100.65	940.00	0.06	170.34
CO-10-007	12.45	18.55	6.10	114.07	56.55	69.33	1090.25	1.08	197.29
<i>including</i>	12.45	15.50	3.05	146.80	39.07	82.42	580.00	1.49	240.18
CO-10-008	11.50	18.42	6.92	35.83	123.97	67.30	1434.88	0.40	299.07
<i>including</i>	15.50	18.42	2.92	62.76	118.26	87.37	1522.74	0.58	399.82
CO-10-009	10.50	18.65	8.15	140.62	51.87	69.55	1079.26	0.35	188.17
CO-10-010	34.20	37.85	3.65	96.62	64.06	105.40	1102.19	0.93	237.68
CO-10-011	14.50	18.56	4.06	194.10	64.12	84.38	1618.28	0.27	106.08
CO-10-011	39.50	41.95	2.45	126.92	248.98	46.78	859.98	0.07	223.44

## 14 Recommendations

Drilling over the Tebishogeshik showing proved to be successful, and steps to increase the economic potential over the showing through further drilling are recommended. Strike length to the east and west of the known showing remain open-ended and should be further investigated through detailed mapping, sampling and possible stripping and trenching.

Once more information is known through the above mapping and sampling program, the beforementioned drilling to test its economic potential is recommended. Investigation to the west of the showing should take precedence as the current pegmatite trend is most likely related to the L28 and L40 showings located immediately west of the Property boundary.

It is also recommended to follow up on any and all possible pegmatite occurrences locating during the mapping/sampling program over the entire Property. More sampling and strike extent



should be investigated for these occurrences to determine any additional potential stripping or drilling targets.

If a second drill program takes place, it is recommended to commence drilling earlier during the month of December to avoid any delays due to cold temperatures.

## 15 References and Literature

<b>Author</b>	<b>Year</b>	<b>Title</b>
Anderson, C.D.	1989	Bird River Mines Company Ltd. – Strategic Metals, ZigZag Lake Prospect, Ontario.
Burns, R.F.	1980	EBJV Crescent Lake – Assessment Report on Claims.
Cullen, D.	2002	Platinova Resources Ltd. – Property Evaluation of the ZigZag Tantalum-Lithium Property.
Hoiles, R.G.	1958	Geological Report – The West Group of Claims of Dempster Explorations Ltd.
Pye, E.G.	1968	Geology of the Crescent Lake Area, District of Thunder Bay. Ontario Department of Mines – Geological Report 55.

## 16 Date

This report was completed on April 11, 2011.





## 17 Statement of Qualifications

### STATEMENT OF QUALIFICATIONS

I, Michael John Thompson, of the CITY of THUNDER BAY, in the PROVINCE of ONTARIO, hereby certify:

I am the President and a Principal Geologist for the geological consulting firm Fladgate Exploration Consulting Corporation.

I graduated from the University of Toronto in Toronto, Ontario, Canada and received my Honours Bachelor of Science Degree, Geology in 1997.

I have practiced continuously as an exploration geologist from that time until present that has included the design and implementation of a variety of grassroots, advanced, mine exploration and research projects in precious, base metal and industrial mineral programs in North and South America.

I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO #1521). I am also a member in good standing with the Prospectors and Developers Association of Canada, the Ontario Prospectors Association, the Society of Economic Geologists and the Geological Association of Canada.

I am, through Fladgate Exploration Consulting Corporation, currently providing consulting services to Canadian Orebodies.

I have no interest, either directly or indirectly, in the subject property.

This report is based on a study of all information made available to me, both published and unpublished, and on information collected in the field by Fladgate Exploration Consulting Corporation personnel under my supervision, or provided to me during the period of December, 2010 to March, 2011.

Dated in Thunder Bay, Ontario, this 11<sup>th</sup> day of April, 2011.



---

Michael John Thompson, P. Geo.



## STATEMENT OF QUALIFICATIONS

I, Avery David Henderson, of the CITY of THUNDER BAY, in the PROVINCE of ONTARIO, hereby certify:

I am employed with the geological consulting firm Fladgate Exploration Consulting Corporation.

I am a graduate of Lakehead University, Thunder Bay, Ontario, with an Honours Bachelor of Science degree, majoring in Geology.

I have been employed as a Project Manager with Fladgate Exploration Consulting Company since my graduation in May, 2008.

I am, through Fladgate Exploration Consulting Corporation, currently providing consulting services to Canadian Orebodies.

I have no interest, either directly or indirectly, in the subject property.

This report is based on a study of all information made available to me, both published and unpublished, and on information collected in the field by myself and by Fladgate Exploration Consulting Corporation personnel, or provided to me during the period of December, 2010 to March, 2011.

Dated in Thunder Bay, Ontario, this 11<sup>th</sup> day of April, 2011.



---

Avery David Henderson



# Appendices



## Appendix I – Schedule of Costs

Work Performed			
Date From	Date To	Description	Cost
Oct. 1, 2010	Feb. 11, 2011	Project Manager Consulting Fees	\$65,725.00
Oct. 1, 2010	Mar. 15, 2011	Geotechnician Consulting Fees	\$25,750.00
Jan. 7, 2011	Feb. 11, 2011	Drilling (Rugged Aviation Inc.)	\$106,245.95

Travel			
Date From	Date To	Description	Cost
Oct. 1, 2010	Feb. 11, 2011	Truck Rental	\$7,700.00
Oct. 1, 2010	Feb. 11, 2011	Extra Mileage	\$2,577.06
Oct. 1, 2010	Feb. 11, 2011	ATV Rental	\$10,875.00
Oct. 1, 2010	Feb. 11, 2011	Fuel	\$3,200.46

Equipment & Supplies			
Date From	Date To	Description	Cost
Oct. 1, 2010	Mar. 15, 2011	Core saw & Diamond blades	\$6,459.95
Oct. 1, 2010	Feb. 11, 2011	Other Supplies	\$459.98

Other			
Date From	Date To	Description	Cost
Oct. 1, 2010	Feb. 11, 2011	Heavy Equipment Rental (Dozer, Float Truck, etc.)	\$32,027.32
Oct. 29, 2010	Oct. 31, 2010	Wabakimi Air (Site visit)	\$2,808.00
Feb. 6, 2011	Feb. 6, 2011	Assaying	\$22,113.57

Food & Lodging			
Date From	Date To	Description	Cost
Oct. 1, 2010	Feb. 11, 2011	Food/Expenses	\$4,132.59
Dec. 13, 2010	Dec. 22, 2010	Accommodations	\$12,663.50

<b>TOTAL</b>			<b>\$302,738.38</b>
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## Appendix II – Work Schedule

Legend	
	Thunder Bay (in days)
	Field Time (in days)

Date	Project Managers			
	Avery Henderson	Sarah Ferguson	Carlos Chamale	Steph Vanos
Oct. 1, 2010	1.00	1.00		
Oct. 2, 2010		1.00		
Oct. 3, 2010		1.00		
Oct. 4, 2010		1.00		
Oct. 5, 2010		1.00		
Oct. 6, 2010		1.00		
Oct. 7, 2010		1.00	1.00	
Oct. 8, 2010		1.00	1.00	
Oct. 9, 2010		1.00	1.00	
Oct. 10, 2010		1.00	1.00	
Oct. 11, 2010		1.00	1.00	
Oct. 12, 2010		1.00	1.00	0.50
Oct. 13, 2010		1.00	1.00	1.00
Oct. 14, 2010	1.00	1.00	1.00	1.00
Oct. 15, 2010		1.00		1.00
Oct. 16, 2010		1.00		
Oct. 17, 2010		1.00		
Oct. 18, 2010	1.00	1.00		1.00
Oct. 19, 2010	1.00	1.00		1.00
Oct. 20, 2010		1.00		1.00
Oct. 21, 2010	1.00	1.00		1.00
Oct. 22, 2010	1.00	1.00		1.00
Oct. 23, 2010		1.00		
Oct. 24, 2010		1.00		
Oct. 25, 2010	1.00			
Oct. 26, 2010	1.00			
Oct. 27, 2010	1.00			
Oct. 28, 2010	1.00			
Oct. 29, 2010	1.00			
Oct. 30, 2010	1.00			
Oct. 31, 2010	1.00			



Project Managers cont'd...				
Date	Avery Henderson	Sarah Ferguson	Carlos Chamale	Steph Vanos
Jan. 1, 2011				
Jan. 2, 2011				
Jan. 3, 2011				
Jan. 4, 2011				
Jan. 5, 2011	1.00			
Jan. 6, 2011	1.00			
Jan. 7, 2011	1.00			
Jan. 8, 2011	1.00			
Jan. 9, 2011	1.00			
Jan. 10, 2011	1.00			
Jan. 11, 2011	1.00			
Jan. 12, 2011	1.00			
Jan. 13, 2011	1.00			
Jan. 14, 2011	1.00			
Jan. 15, 2011	1.00			
Jan. 16, 2011	1.00			
Jan. 17, 2011	1.00			
Jan. 18, 2011	1.00			
Jan. 19, 2011	1.00			
Jan. 20, 2011	1.00			
Jan. 21, 2011	1.00			
Jan. 22, 2011	1.00			
Jan. 23, 2011	1.00			
Jan. 24, 2011	1.00			
Jan. 25, 2011	1.00			
Jan. 26, 2011	1.00			
Jan. 27, 2011	1.00			
Jan. 28, 2011	1.00			
Jan. 29, 2011	1.00			
Jan. 30, 2011	1.00			
Feb. 1, 2011	1.00			
Feb. 2, 2011	1.00			
Feb. 3, 2011	1.00			
Feb. 4, 2011	1.00			
Feb. 5, 2011	1.00			
Feb. 6, 2011	1.00			
Feb. 7, 2011	1.00			
Feb. 8, 2011	1.00			
Feb. 9, 2011	1.00			
Feb. 10, 2011	1.00			



Feb. 11, 2011	1.00			
Feb. 12, 2011				
Feb. 13, 2011				
Feb. 14, 2011				
Feb. 15, 2011				
<b>TOTAL</b>	<b>50.00</b>	<b>24.00</b>	<b>8.00</b>	<b>8.50</b>

<b>Geotechnicians</b>				
<b>Date</b>	<b>R.J. Mallory</b>	<b>Adam Gowen</b>	<b>Andrew Blampin</b>	<b>Greg Dolasinski</b>
Oct. 1, 2010				
Oct. 2, 2010	1.00			
Oct. 3, 2010	1.00			
Oct. 4, 2010	1.00			
Oct. 5, 2010	1.00			
Oct. 6, 2010	1.00	1.00		
Oct. 7, 2010	1.00	1.00		
Oct. 8, 2010	1.00	1.00		
Oct. 9, 2010	1.00	1.00		
Oct. 10, 2010	1.00	1.00		
Oct. 11, 2010	1.00	1.00		
Oct. 12, 2010	1.00	1.00		
Oct. 13, 2010	1.00	1.00		
Oct. 14, 2010	1.00	1.00		
Oct. 15, 2010	1.00	1.00		
Oct. 16, 2010	1.00	1.00		
Oct. 17, 2010	1.00	1.00		
Oct. 18, 2010	1.00	1.00		
Oct. 19, 2010	1.00	1.00		
Oct. 20, 2010	1.00	1.00		
Oct. 21, 2010	1.00	1.00		
Oct. 22, 2010	1.00	1.00		
Oct. 23, 2010	1.00	1.00		
Oct. 24, 2010	1.00	1.00		
Oct. 25, 2010				
Oct. 26, 2010				
Oct. 27, 2010				
Oct. 28, 2010				
Oct. 29, 2010				
Oct. 30, 2010				
Oct. 31, 2010				
Feb. 1, 2011				
Feb. 2, 2011				



Feb. 3, 2011				
Feb. 4, 2011				
Feb. 5, 2011				
Feb. 6, 2011				
Feb. 7, 2011				
Feb. 8, 2011				
Feb. 9, 2011				
Feb. 10, 2011				
Feb. 11, 2011				1.00
Feb. 12, 2011				
Feb. 13, 2011				
Feb. 14, 2011				
Feb. 15, 2011				
Feb. 16, 2011				1.00
Feb. 17, 2011				1.00
Feb. 18, 2011			0.25	
Feb. 19, 2011				
Feb. 20, 2011				
Feb. 21, 2011			1.00	
Feb. 22, 2011			1.00	
Feb. 23, 2011			1.00	
Feb. 24, 2011			1.00	
Feb. 25, 2011				
Feb. 26, 2011				
Feb. 27, 2011				
Feb. 28, 2011				
<b>TOTAL</b>	<b>23.00</b>	<b>19.00</b>	<b>4.25</b>	<b>3.00</b>





Drilling Schedule	
Date	Description
Jan. 5, 2011	
Jan. 6, 2011	Travel from Thunder Bay to Armstrong, Ontario.
Jan. 7, 2011	Drill move from Falcon Lake Property to trail head for ZigZag Property access.
Jan. 8, 2011	Trail maintenance for drill access.
Jan. 9, 2011	Trail maintenance for drill access.
Jan. 10, 2011	Trail maintenance for drill access.
Jan. 11, 2011	Trail maintenance for drill access.
Jan. 12, 2011	Trail maintenance for drill access.
Jan. 13, 2011	Trail maintenance for drill access.
Jan. 14, 2011	Trail maintenance for drill access.
Jan. 15, 2011	Setup drill onto setup for CO-10-004.
Jan. 16, 2011	Continued drill setup.
Jan. 17, 2011	Drilling commenced on CO-10-004.
Jan. 18, 2011	Maintenance on frozen water line.
Jan. 19, 2011	Maintenance on frozen water line.
Jan. 20, 2011	Maintenance on frozen water line.
Jan. 21, 2011	Maintenance on frozen water line.
Jan. 22, 2011	Maintenance on frozen water line; Continued drilling CO-10-004.
Jan. 23, 2011	Maintenance on frozen water line.
Jan. 24, 2011	Maintenance on frozen water line.
Jan. 25, 2011	Completed drilling CO-10-004.
Jan. 26, 2011	Drill move to setup for CO-10-005; Drilled entire hole CO-10-005.
Jan. 27, 2011	Drill move to setup for CO-10-006; Drilled entire hole CO-10-006.
Jan. 28, 2011	Moved drill to setup for CO-10-007. Maintenance on frozen water line.
Jan. 29, 2011	Commenced drilling on CO-10-007.
Jan. 30, 2011	Maintenance on frozen water line.
Jan. 31, 2011	Maintenance on frozen water line.
Feb. 1, 2011	Finished drilling hole CO-10-007; Moved drill and started drilling CO-10-008.
Feb. 2, 2011	Finished drilling hole CO-10-008; Moved drill and started drilling CO-10-009.
Feb. 3, 2011	Completed hole CO-10-009; Drill maintenance and drill pad construction.
Feb. 4, 2011	Maintenance on frozen water line; Drill pad construction.
Feb. 5, 2011	Commenced drilling on CO-10-010.
Feb. 6, 2011	Continued drilling hole CO-10-010.
Feb. 7, 2011	Completed hole CO-10-010.
Feb. 8, 2011	Moved drill to final setup; Started and completed hole CO-10-011.
Feb. 9, 2011	Begun drill demobilisation.
Feb. 10, 2011	Travel from Armstrong to Thunder Bay, Ontario.
Feb. 11, 2011	
Feb. 12, 2011	
Feb. 13, 2011	
Feb. 14, 2011	





ALS Canada Ltd.  
 2103 Dollarton Hwy  
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To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

Page: 1  
 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

**CERTIFICATE TB11027946**

Project: COB- ZIG  
 P.O. No.:  
 This report is for 223 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 22- FEB- 2011.  
 The following have access to data associated with this certificate:  
 AVERY HENDERSON      MICHAEL THOMPSON

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
ME- MS81	38 element fusion ICP- MS	ICP- MS
LI- OG63	Ore grade Li - 4ACID	VARIABLE
ME- OG62o	Ore Grade open beaker - ICPAES	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 ATTN: AVERY HENDERSON  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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.

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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 North Vancouver BC V7H 0A7  
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 195 PARK AVE  
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Page: 2 - A  
 Total # Pages: 7 (A - J)  
 Plus Appendix Pages  
 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	
E450963		2.21	0.17	2.74	0.1	<0.2	<10	110	1.65	0.39	1.71	0.16	8.16	20.6	57	389	
E450964		1.63	0.02	0.18	<0.1	<0.2	<10	<10	2.11	16.60	0.06	0.23	1.90	0.3	4	8.43	
E450965		1.34	0.05	0.14	<0.1	<0.2	<10	<10	3.73	9.96	0.07	0.06	3.58	0.3	3	10.80	
E450966		1.71	0.03	0.17	0.1	<0.2	<10	<10	2.87	15.20	0.06	0.26	1.48	0.2	3	6.21	
E450967		1.20	0.03	0.13	0.3	<0.2	<10	<10	2.53	3.34	0.06	0.31	1.87	1.0	3	4.17	
E450968		3.32	0.11	1.98	0.1	<0.2	<10	20	0.80	0.24	1.17	0.09	11.45	17.5	39	27.5	
E450969		1.06	0.10	0.67	0.3	<0.2	<10	20	0.15	0.09	0.35	0.02	23.0	9.2	14	12.25	
E450970		2.70	0.14	1.27	<0.1	<0.2	<10	40	0.09	0.13	1.21	0.06	9.86	11.1	25	15.80	
E450971		3.88	0.19	1.41	0.1	<0.2	<10	10	0.40	0.21	1.39	0.08	4.68	16.7	29	18.00	
E450972		1.65	0.04	0.15	0.1	<0.2	<10	<10	0.64	4.30	0.09	0.08	1.93	0.2	3	17.55	
E450973		1.39	0.03	0.17	0.1	<0.2	<10	<10	2.11	26.5	0.10	0.19	1.86	0.5	4	19.75	
E450974		2.26	0.15	1.49	0.3	<0.2	<10	<10	0.35	0.28	1.13	0.11	5.90	17.5	34	6.57	
E450975		3.00	0.13	1.48	0.3	<0.2	<10	<10	0.35	0.36	1.24	0.14	6.73	16.2	33	6.53	
E450976		1.16	0.08	0.86	0.4	<0.2	<10	<10	3.15	18.20	1.60	0.08	2.01	6.3	19	11.85	
E450977		3.58	0.12	1.48	0.2	<0.2	<10	<10	0.27	0.60	1.04	0.08	7.66	17.2	36	8.54	
E450978		2.00	0.15	1.52	0.2	<0.2	<10	50	0.14	1.39	1.04	0.05	9.23	16.8	51	116.0	
E450979		2.02	0.21	2.12	0.4	<0.2	<10	70	0.24	1.77	1.54	0.10	6.67	20.8	57	111.5	
E450980		2.07	0.17	1.22	0.1	<0.2	<10	10	0.40	0.67	0.95	0.10	8.05	17.8	49	16.75	
E450981		2.09	0.10	1.61	0.3	<0.2	<10	20	0.30	0.43	1.51	0.06	9.23	10.0	29	17.25	
E450982		0.02	0.12	1.21	4.3	<0.2	<10	<10	16.25	0.92	0.49	0.12	1.84	1.5	124	10.10	
E450983		1.94	0.15	1.52	<0.1	<0.2	<10	10	0.29	0.55	1.40	0.07	6.59	12.6	34	15.50	
E450984		2.06	0.10	1.39	0.3	<0.2	<10	60	1.09	1.17	1.49	0.08	8.83	18.1	47	41.9	
E450985		1.89	0.10	0.90	0.1	<0.2	<10	<10	0.37	0.57	1.17	0.07	5.38	12.3	29	4.65	
E450986		2.05	0.16	1.75	0.5	<0.2	<10	10	0.18	0.35	1.58	0.12	6.52	10.7	34	8.49	
E450987		2.11	0.17	1.46	<0.1	<0.2	<10	<10	0.85	0.66	1.39	0.07	3.91	14.3	23	8.61	
E450988		2.24	0.18	1.36	0.1	<0.2	<10	10	0.19	1.01	1.33	0.12	15.20	17.5	30	11.55	
E450989		2.09	0.30	1.11	0.1	<0.2	<10	50	0.07	1.11	0.86	0.14	13.15	33.9	36	64.9	
E450990		2.05	0.17	1.15	<0.1	<0.2	<10	<10	0.14	0.52	1.11	0.15	10.55	19.3	29	4.97	
E450991		2.07	0.10	1.23	0.1	<0.2	<10	20	0.15	0.73	1.23	0.06	9.91	15.7	29	18.70	
E450992		2.08	0.12	1.77	0.1	<0.2	<10	20	0.27	1.42	1.54	0.07	11.70	23.5	37	126.5	
E450993		1.85	0.11	2.42	0.1	<0.2	<10	90	1.60	1.43	0.98	0.05	12.30	26.3	71	433	
E450994		2.20	0.10	1.89	<0.1	<0.2	<10	10	0.22	0.82	1.48	0.07	11.80	23.1	50	58.8	
E450995		1.66	0.03	0.32	0.1	<0.2	<10	<10	0.19	0.41	0.45	0.01	1.88	4.8	15	3.25	
E450996		1.69	0.01	0.09	0.2	<0.2	<10	<10	0.14	0.04	0.17	<0.01	0.32	1.5	18	1.03	
E450997		1.04	0.02	0.16	0.2	<0.2	<10	<10	0.75	4.53	0.27	0.01	0.23	1.8	6	4.93	
E450998		0.72	0.12	2.51	0.3	<0.2	<10	70	0.75	2.57	1.18	0.06	10.40	27.9	68	411	
E450999		0.77	0.05	0.69	0.1	<0.2	<10	<10	0.10	1.44	0.60	0.03	4.47	8.9	21	10.85	
E451000		0.59	0.02	0.45	0.1	<0.2	<10	40	0.06	0.04	0.18	0.01	75.5	2.4	6	1.78	
H073051		1.14	0.07	2.22	<0.1	<0.2	<10	40	0.52	1.96	1.35	0.04	11.85	21.5	57	223	
H073052		0.98	0.32	2.28	0.2	<0.2	<10	10	10.75	1.32	1.93	0.06	10.45	34.9	41	104.0	

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



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 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	0.2	0.1
E450963		127.0	3.43	6.56	0.23	0.10	0.01	0.015	0.77	3.2	480	1.44	643	0.80	0.18	0.12		
E450964		2.4	0.28	1.63	<0.05	0.65	<0.01	<0.005	0.12	0.6	26.3	0.02	95	0.07	0.04	0.92		
E450965		1.4	0.26	1.51	<0.05	3.50	<0.01	<0.005	0.05	1.3	62.5	0.01	207	0.08	0.05	1.45		
E450966		2.2	0.32	1.83	<0.05	1.13	<0.01	<0.005	0.08	0.5	23.8	0.01	146	0.07	0.06	1.54		
E450967		10.9	0.27	1.41	<0.05	1.66	<0.01	<0.005	0.06	0.6	9.9	0.01	177	0.68	0.05	2.06		
E450968		94.1	2.87	5.68	0.18	0.19	<0.01	0.010	0.08	4.5	320	0.95	660	0.45	0.11	0.16		
E450969		93.3	1.19	2.59	0.09	0.96	<0.01	0.005	0.04	11.0	135.0	0.32	228	0.28	0.06	0.47		
E450970		158.0	1.61	3.12	0.11	0.09	<0.01	0.011	0.09	4.2	156.5	0.58	341	0.31	0.14	0.19		
E450971		186.5	1.79	3.04	0.12	0.08	<0.01	0.010	0.08	1.8	152.0	0.57	366	0.19	0.12	0.20		
E450972		3.5	0.20	1.64	<0.05	0.08	<0.01	<0.005	0.08	0.7	40.7	0.01	71	0.05	0.04	0.77		
E450973		4.6	0.32	2.03	<0.05	0.22	<0.01	<0.005	0.07	0.6	56.1	0.01	111	0.09	0.05	0.84		
E450974		147.0	2.24	3.35	0.10	0.07	0.01	0.007	0.03	2.6	237	0.86	377	3.94	0.06	0.08		
E450975		139.0	2.23	3.77	0.13	0.05	0.01	0.008	0.03	2.7	213	0.86	391	3.50	0.10	0.08		
E450976		34.3	1.20	5.41	0.11	3.91	0.01	0.005	0.02	0.8	112.0	0.36	322	0.81	0.05	1.72		
E450977		99.1	2.50	3.90	0.09	0.05	<0.01	0.009	0.03	2.8	223	1.01	442	0.96	0.07	0.06		
E450978		128.5	2.12	3.67	0.12	0.05	<0.01	0.011	0.34	3.5	131.5	0.85	217	1.21	0.11	<0.05		
E450979		238	2.28	4.45	0.10	0.04	0.02	0.010	0.31	2.7	133.5	0.85	236	3.64	0.15	0.07		
E450980		184.5	2.02	3.08	0.10	0.04	<0.01	0.009	0.05	3.4	116.5	0.74	248	0.79	0.09	0.08		
E450981		92.4	1.37	3.33	0.11	0.06	<0.01	0.008	0.08	4.0	35.9	0.40	213	16.05	0.16	0.26		
E450982		10.6	0.55	3.34	0.09	0.33	0.04	<0.005	0.06	0.9	2370	0.06	975	0.37	0.09	2.02		
E450983		143.5	1.22	3.07	0.10	0.06	<0.01	0.009	0.05	2.6	50.6	0.37	208	0.68	0.16	0.26		
E450984		134.5	1.79	3.26	0.17	0.09	<0.01	0.012	0.11	3.3	73.0	0.56	289	2.63	0.14	0.29		
E450985		103.5	1.07	2.15	0.13	0.05	0.02	0.008	0.02	2.1	25.9	0.26	186	0.54	0.10	0.24		
E450986		151.0	1.42	3.52	0.12	0.07	<0.01	0.007	0.03	2.9	66.0	0.45	243	2.53	0.16	0.19		
E450987		196.0	1.53	3.01	0.14	0.07	<0.01	0.007	0.02	1.6	32.0	0.25	190	3.58	0.12	0.25		
E450988		232	2.07	3.04	0.15	0.07	<0.01	0.014	0.05	6.8	44.3	0.41	266	0.36	0.14	0.38		
E450989		516	3.97	3.49	0.21	0.09	<0.01	0.017	0.30	5.8	114.5	0.77	266	0.31	0.10	0.11		
E450990		193.5	2.12	3.18	0.15	0.06	<0.01	0.014	0.04	4.4	87.0	0.61	291	0.31	0.12	0.14		
E450991		91.0	1.88	3.12	0.15	0.05	0.04	0.012	0.08	4.2	75.9	0.58	264	1.00	0.12	0.16		
E450992		137.5	2.93	4.82	0.25	0.07	0.01	0.019	0.34	4.9	160.0	0.98	337	0.31	0.14	0.12		
E450993		127.5	3.84	10.50	0.28	0.07	0.03	0.017	1.06	5.0	395	1.89	359	0.92	0.11	0.15		
E450994		117.0	3.05	5.22	0.17	0.06	<0.01	0.016	0.14	4.7	183.5	1.20	346	1.01	0.11	0.10		
E450995		33.1	0.75	0.95	0.07	<0.02	0.03	<0.005	0.01	0.8	25.8	0.19	93	0.16	0.02	0.08		
E450996		8.2	0.45	0.29	<0.05	<0.02	<0.01	<0.005	<0.01	0.2	7.6	0.04	59	0.12	0.01	0.08		
E450997		24.6	0.42	0.72	<0.05	<0.02	0.13	<0.005	<0.01	0.2	14.4	0.05	44	0.19	0.01	0.12		
E450998		166.5	4.01	7.89	0.28	0.06	0.02	0.020	0.78	4.0	340	1.58	321	0.28	0.11	0.11		
E450999		34.8	1.21	1.89	0.09	0.02	0.01	0.006	0.03	1.8	61.3	0.35	160	1.08	0.04	0.09		
E451000		5.9	1.31	3.08	0.08	0.59	<0.01	0.009	0.30	41.9	19.8	0.21	179	0.11	0.05	0.34		
H073051		56.5	2.90	5.80	0.22	0.05	0.01	0.017	0.54	4.9	233	1.35	320	0.81	0.14	0.09		
H073052		419	3.74	10.55	0.35	0.08	<0.01	0.018	0.28	4.6	154.0	1.01	366	0.83	0.24	0.33		

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



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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni ppm 0.2	P ppm 10	Pb ppm 0.2	Rb ppm 0.1	Re ppm 0.001	S % 0.01	Sb ppm 0.05	Sc ppm 0.1	Se ppm 0.2	Sn ppm 0.2	Sr ppm 0.2	Ta ppm 0.01	Te ppm 0.01	Th ppm 0.01	Ti % 0.005	Ti ppm 0.005
E450963		52.8	350	1.5	1040	0.001	0.07	<0.05	11.2	0.4	1.6	34.6	0.01	0.02	0.3	0.257	
E450964		0.8	30	5.6	85.6	<0.001	<0.01	<0.05	0.2	0.2	0.8	0.8	0.01	0.01	4.2	<0.005	
E450965		0.6	30	17.0	36.0	<0.001	<0.01	<0.05	0.2	0.2	0.8	0.8	0.02	0.02	12.8	<0.005	
E450966		0.6	10	5.7	63.8	<0.001	<0.01	<0.05	0.2	<0.2	1.0	0.7	0.01	0.02	4.8	<0.005	
E450967		1.2	30	3.5	39.9	<0.001	0.01	<0.05	0.1	<0.2	0.9	0.6	0.18	0.01	4.3	<0.005	
E450968		39.0	320	3.2	37.4	<0.001	0.06	<0.05	7.6	0.4	0.4	17.5	0.01	0.01	1.4	0.189	
E450969		12.9	90	4.0	12.8	<0.001	0.09	<0.05	2.4	0.5	0.2	4.4	0.01	0.01	5.7	0.058	
E450970		30.8	390	1.0	29.2	0.001	0.05	<0.05	6.4	0.4	0.2	17.3	<0.01	0.02	0.7	0.179	
E450971		48.2	320	1.1	58.0	<0.001	0.14	<0.05	6.5	0.5	0.3	20.8	<0.01	0.02	0.2	0.190	
E450972		0.6	10	3.6	59.3	<0.001	<0.01	<0.05	0.2	<0.2	0.9	0.9	0.01	<0.01	4.2	<0.005	
E450973		0.7	10	1.9	52.5	<0.001	<0.01	<0.05	0.2	<0.2	1.1	1.0	0.01	0.01	4.1	<0.005	
E450974		45.8	330	1.2	14.1	0.003	0.05	0.09	4.5	0.6	0.3	13.2	<0.01	0.01	0.3	0.167	
E450975		38.3	310	0.7	11.2	0.002	0.04	0.09	5.2	0.6	0.4	11.1	<0.01	0.01	0.3	0.151	
E450976		15.8	380	5.1	10.7	<0.001	0.01	0.08	2.1	0.5	1.4	13.9	0.16	0.01	3.3	0.031	
E450977		53.1	320	1.2	12.7	0.001	0.03	0.07	4.8	0.4	0.3	4.8	<0.01	0.02	0.3	0.130	
E450978		35.4	370	0.9	93.9	0.001	0.13	0.08	5.0	0.6	0.2	12.8	<0.01	0.09	0.4	0.138	
E450979		55.3	350	1.4	80.5	0.001	0.27	0.08	5.1	0.9	0.3	32.4	<0.01	0.05	0.3	0.164	
E450980		49.7	350	0.6	9.4	0.001	0.17	0.06	4.4	0.4	0.3	9.6	<0.01	0.03	0.4	0.122	
E450981		26.8	420	1.1	11.8	0.002	0.07	0.05	4.3	0.6	0.3	25.0	<0.01	0.01	0.7	0.151	
E450982		4.4	7050	4.8	36.5	<0.001	0.02	0.33	1.3	0.2	12.5	20.9	0.45	<0.01	1.1	0.025	
E450983		44.0	400	1.2	14.7	0.001	0.11	<0.05	5.3	0.4	0.2	26.7	0.04	0.02	0.3	0.169	
E450984		61.5	340	1.1	55.3	0.001	0.21	<0.05	7.1	0.5	0.4	15.8	0.01	0.02	0.6	0.179	
E450985		45.4	370	0.9	2.5	0.001	0.12	<0.05	4.8	0.4	0.2	17.5	<0.01	0.01	0.3	0.135	
E450986		35.6	350	1.0	6.3	0.001	0.08	<0.05	4.9	0.4	<0.2	31.7	<0.01	0.01	0.3	0.165	
E450987		43.8	330	0.9	2.8	0.001	0.40	<0.05	3.6	0.7	0.5	29.2	<0.01	0.02	0.2	0.137	
E450988		47.0	420	1.4	9.1	0.001	0.49	<0.05	5.2	0.8	0.2	26.1	0.01	0.09	1.2	0.144	
E450989		43.6	500	0.8	54.7	0.001	1.39	<0.05	6.0	1.3	0.2	4.2	<0.01	0.04	0.8	0.124	
E450990		49.0	460	0.9	2.7	0.001	0.27	<0.05	6.4	0.6	0.2	11.5	<0.01	0.03	0.4	0.116	
E450991		37.9	480	1.1	13.3	0.001	0.21	<0.05	6.3	0.3	0.2	14.3	<0.01	0.04	0.4	0.124	
E450992		48.5	530	1.1	158.5	<0.001	0.43	<0.05	7.5	0.5	0.3	17.1	<0.01	0.04	0.4	0.155	
E450993		61.9	500	0.9	690	0.001	0.39	<0.05	9.0	0.5	1.8	6.1	0.01	0.11	0.5	0.212	
E450994		55.0	490	1.3	55.9	0.001	0.30	<0.05	7.6	0.4	0.2	9.2	<0.01	0.05	0.4	0.148	
E450995		11.7	70	0.3	6.1	<0.001	0.06	<0.05	1.8	<0.2	<0.2	2.2	<0.01	0.02	<0.2	0.035	
E450996		3.9	10	<0.2	0.4	<0.001	0.02	<0.05	0.5	<0.2	<0.2	1.2	<0.01	<0.01	<0.2	0.008	
E450997		3.1	290	0.2	2.1	0.002	0.05	<0.05	0.5	<0.2	0.2	3.5	<0.01	0.15	<0.2	0.009	
E450998		57.3	440	0.9	580	<0.001	0.71	<0.05	9.7	0.9	0.5	13.4	<0.01	0.07	0.4	0.171	
E450999		26.0	190	0.9	13.1	0.001	0.11	<0.05	2.9	0.2	<0.2	6.1	<0.01	0.04	0.2	0.049	
E451000		2.1	240	8.0	29.8	<0.001	<0.01	<0.05	2.7	<0.2	0.4	8.4	<0.01	<0.01	22.9	0.064	
H073051		59.3	550	1.6	282	0.001	0.19	<0.05	7.5	0.3	0.3	14.5	<0.01	0.09	0.5	0.151	
H073052		79.8	430	1.8	145.5	<0.001	1.15	<0.05	7.5	1.0	4.8	25.5	0.02	0.04	0.5	0.136	

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



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To: FLADGATE EXPLORATION CONSULTING  
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 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
E450963		9.17	0.18	110	8.23	8.15	77	1.8								
E450964		0.62	3.54	1	0.06	1.33	66	4.1								
E450965		0.25	24.5	<1	0.08	3.43	20	20.2								
E450966		0.42	12.35	<1	0.10	2.13	72	6.2								
E450967		0.26	7.58	<1	0.10	1.53	91	9.6								
E450968		0.45	0.54	75	0.39	8.23	49	3.5								
E450969		0.17	1.96	19	0.17	6.61	11	23.2								
E450970		0.26	0.19	51	0.19	6.90	21	1.9								
E450971		0.64	0.08	55	0.46	5.99	30	1.4								
E450972		0.40	3.14	1	0.16	0.97	34	0.5								
E450973		0.35	1.06	1	0.11	1.32	63	1.2								
E450974		0.15	0.12	55	0.19	5.63	41	0.9								
E450975		0.13	0.11	57	0.19	5.07	47	0.9								
E450976		0.10	4.35	23	0.33	4.23	32	18.2								
E450977		0.14	0.11	59	0.22	4.04	38	0.8								
E450978		0.79	0.07	57	0.28	3.97	26	0.9								
E450979		0.71	<0.05	57	25.2	4.24	28	0.8								
E450980		0.12	0.05	51	0.65	3.80	35	1.0								
E450981		0.11	0.10	42	0.36	4.91	17	1.6								
E450982		0.36	9.53	6	6.65	1.89	64	4.4								
E450983		0.13	<0.05	40	0.96	5.62	17	0.9								
E450984		0.57	0.26	55	0.80	7.62	29	1.3								
E450985		0.04	<0.05	36	12.40	4.45	15	0.8								
E450986		0.07	<0.05	41	0.24	5.68	23	1.0								
E450987		0.03	<0.05	30	0.78	3.74	15	1.1								
E450988		0.09	0.26	42	1.62	5.87	31	1.5								
E450989		0.49	0.17	59	0.41	4.59	47	2.3								
E450990		0.04	0.05	57	0.53	5.70	38	1.2								
E450991		0.12	0.05	55	38.6	5.01	31	1.0								
E450992		1.50	0.08	78	7.22	5.94	47	1.7								
E450993		6.34	0.11	107	18.25	5.96	92	1.6								
E450994		0.55	0.07	83	0.44	6.16	59	1.1								
E450995		0.05	<0.05	16	39.9	1.23	8	<0.5								
E450996		<0.02	<0.05	4	0.22	0.34	<2	<0.5								
E450997		0.02	<0.05	5	147.0	0.42	<2	<0.5								
E450998		5.28	0.07	141	23.1	8.48	68	1.1								
E450999		0.10	<0.05	32	12.20	2.35	19	<0.5								
E451000		0.22	1.46	13	0.19	3.13	29	20.0								
H073051		2.44	0.09	82	12.05	5.43	58	1.1								
H073052		1.11	0.09	74	0.35	6.32	70	1.6								

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
E450963 E450964 E450965 E450966 E450967		0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
E450968 E450969 E450970 E450971 E450972																
E450973 E450974 E450975 E450976 E450977																
E450978 E450979 E450980 E450981 E450982																
E450983 E450984 E450985 E450986 E450987																
E450988 E450989 E450990 E450991 E450992																
E450993 E450994 E450995 E450996 E450997																
E450998 E450999 E451000 H073051 H073052																

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		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm
E450963		0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2
E450964															
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E450966															
E450967															
E450968															
E450969															
E450970															
E450971															
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E450998															
E450999															
E451000															
H073051															
H073052															

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





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Plus Appendix Pages  
 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Ba ppm	Ce ppm	Co ppm	Cr ppm
E450963 E450964 E450965 E450966 E450967		0.05	0.2	0.005	0.02	0.1	1	0.1	0.1	2	0.5	1	0.5	0.5	0.5	10
E450968 E450969 E450970 E450971 E450972																
E450973 E450974 E450975 E450976 E450977																
E450978 E450979 E450980 E450981 E450982																
E450983 E450984 E450985 E450986 E450987																
E450988 E450989 E450990 E450991 E450992																
E450993 E450994 E450995 E450996 E450997																
E450998 E450999 E451000 H073051 H073052																

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 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm
E450963 E450964 E450965 E450966 E450967		0.01	5	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	2	0.2	0.1	5
E450968 E450969 E450970 E450971 E450972																
E450973 E450974 E450975 E450976 E450977																
E450978 E450979 E450980 E450981 E450982																
E450983 E450984 E450985 E450986 E450987																
E450988 E450989 E450990 E450991 E450992																
E450993 E450994 E450995 E450996 E450997																
E450998 E450999 E451000 H073051 H073052																

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 Plus Appendix Pages  
 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		Pb ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm
E450963		5	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01	0.05	5	1	0.5
E450964																
E450965																
E450966																
E450967																
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E450970																
E450971																
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E450996																
E450997																
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E450999																
E451000																
H073051																
H073052																

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To: FLADGATE EXPLORATION CONSULTING  
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 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		Yb ppm 0.03	Zn ppm 5	Zr ppm 2	Li % 0.005
E450963 E450964 E450965 E450966 E450967					
E450968 E450969 E450970 E450971 E450972					
E450973 E450974 E450975 E450976 E450977					
E450978 E450979 E450980 E450981 E450982					
E450983 E450984 E450985 E450986 E450987					
E450988 E450989 E450990 E450991 E450992					
E450993 E450994 E450995 E450996 E450997					
E450998 E450999 E451000 H073051 H073052					

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 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H073053		2.89	0.18	1.96	<0.1	<0.2	<10	30	3.28	2.82	1.46	0.05	10.40	24.9	44	110.0
H073054		1.83	0.16	2.78	0.1	<0.2	<10	120	2.65	5.07	1.25	0.06	13.75	33.5	78	>500
H073055		2.03	0.26	3.48	<0.1	<0.2	<10	150	1.49	36.4	0.77	0.05	23.0	37.2	143	>500
H073056		1.34	0.12	2.68	0.1	<0.2	<10	70	0.36	1.26	0.62	0.01	47.6	21.7	90	>500
H073057		1.96	0.06	0.49	0.3	<0.2	<10	40	0.11	0.16	0.34	0.05	60.0	1.5	4	3.30
H073058		1.67	0.05	0.48	0.4	<0.2	<10	30	0.11	0.09	0.32	0.01	52.1	1.4	4	3.04
H073059		1.68	0.05	0.48	0.4	<0.2	<10	30	0.08	0.08	0.40	0.02	55.5	1.3	5	2.39
H073060		1.69	0.10	0.45	0.5	<0.2	<10	30	0.13	1.48	0.29	0.04	47.9	1.2	5	3.83
H073061		1.61														
H073062		1.58														
H073063		1.76														
H073064		1.66														
H073065		1.66														
H073066		1.91														
H073067		0.89														
H073068		1.05														
H073069		1.18														
H073070		1.65														
H073071		1.63														
H073072		1.60														
H073073		1.58														
H073074		1.61														
H073075		0.03														
H073076		1.68														
H073077		1.90														
H073078		1.61														
H073079		1.09														
H073080		2.50														
H073081		1.82														
H073082		3.57														
H073083		0.69														
H073084		3.32														
H073085		2.67														
H073086		0.92														
H073087		2.03														
H073088		0.88														
H073089		2.57														
H073090		1.66														
H073091		1.70														
H073092		3.37														

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To: FLADGATE EXPLORATION CONSULTING  
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 THUNDER BAY ON P7B 1B9

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
H073053		214	2.91	6.22	0.25	0.06	<0.01	0.016	0.30	4.3	163.5	1.00	320	2.16	0.19	0.13
H073054		188.0	4.53	8.74	0.33	0.13	<0.01	0.021	1.17	6.0	395	2.13	431	3.66	0.17	0.12
H073055		270	5.59	11.95	0.33	0.43	<0.01	0.022	1.96	11.2	510	3.07	393	20.7	0.09	0.15
H073056		117.5	4.37	10.55	0.22	1.34	<0.01	0.022	1.30	23.7	353	2.36	303	1.78	0.06	0.20
H073057		14.2	0.93	2.33	0.07	0.61	<0.01	<0.005	0.14	33.0	121.0	0.11	179	0.72	0.04	0.59
H073058		10.1	1.06	2.41	0.08	0.59	<0.01	<0.005	0.15	29.0	126.0	0.09	173	38.9	0.06	0.64
H073059		10.9	1.01	2.44	0.07	0.59	<0.01	<0.005	0.14	30.8	133.5	0.09	170	8.86	0.04	0.62
H073060		21.4	1.02	2.48	0.07	0.63	<0.01	<0.005	0.15	26.5	133.0	0.09	174	5.18	0.05	0.67
H073061																
H073062																
H073063																
H073064																
H073065																
H073066																
H073067																
H073068																
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H073090																
H073091																
H073092																

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To: FLADGATE EXPLORATION CONSULTING  
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 195 PARK AVE  
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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
H073053		70.6	450	1.3	167.0	0.001	0.59	<0.05	6.9	0.8	1.3	17.7	0.01	0.08	0.4	0.123
H073054		70.5	500	1.1	710	0.001	0.64	<0.05	9.6	0.9	1.5	10.3	<0.01	0.10	0.7	0.206
H073055		81.6	490	1.8	900	0.004	0.74	<0.05	9.2	1.1	1.4	5.2	<0.01	1.09	2.2	0.238
H073056		39.2	710	1.9	630	0.002	0.52	<0.05	12.2	0.8	0.7	7.4	0.01	0.03	6.8	0.203
H073057		1.2	70	7.1	13.0	<0.001	0.02	<0.05	1.0	0.2	0.2	7.6	0.01	0.01	10.1	0.045
H073058		1.1	50	5.7	13.2	0.002	0.03	<0.05	1.1	0.2	0.3	8.8	<0.01	0.01	10.1	0.046
H073059		0.8	80	7.2	12.7	<0.001	0.05	<0.05	0.9	0.2	0.2	8.8	0.01	<0.01	9.0	0.046
H073060		0.7	50	7.2	14.1	<0.001	0.07	<0.05	0.9	0.2	0.2	6.4	<0.01	0.09	8.3	0.041
H073061																
H073062																
H073063																
H073064																
H073065																
H073066																
H073067																
H073068																
H073069																
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H073086																
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H073088																
H073089																
H073090																
H073091																
H073092																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
H073053 H073054 H073055 H073056 H073057		0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	
H073058 H073059 H073060 H073061 H073062		51.5 49.3	1.1 1.1	7 6	26.1 8.16	9.7 6.0	1.09 1.35	16.25 16.40	<0.05 <0.05	2.9 2.6	0.014 0.014	1.78 1.68	25.7 25.2	246 299	0.10 0.13	232 265
H073063 H073064 H073065 H073066 H073067		62.9 65.9 51.4 47.2 3.66	1.6 1.3 1.0 1.0 0.3	8 9 7 7 3	6.55 11.20 11.10 68.6 49.8	4.6 12.3 8.9 20.5 2.0	1.36 1.41 1.21 1.12 0.47	18.45 20.5 16.35 16.55 71.4	0.07 0.08 0.06 0.05 <0.05	3.1 3.2 2.7 2.6 4.7	0.015 0.015 0.012 0.011 <0.005	2.09 1.99 1.60 1.37 1.15	32.6 34.2 27.0 24.4 1.4	352 338 309 370 2720	0.15 0.12 0.11 0.09 0.04	276 279 235 234 2300
H073068 H073069 H073070 H073071 H073072		46.6 1.47 2.06 7.42 41.8	1.0 0.3 0.2 1.0 5.0	6 5 5 8 13	164.5 33.2 39.0 82.1 225	36.9 2.2 0.8 3.2 5.3	1.09 0.49 0.30 0.59 1.59	20.2 66.6 54.4 57.2 15.45	0.05 <0.05 <0.05 <0.05 0.05	2.9 16.5 6.3 7.7 2.2	0.010 <0.005 <0.005 <0.005 0.019	1.07 1.07 1.71 0.92 2.02	24.1 0.6 0.7 3.1 21.6	710 4360 3110 236 930	0.09 0.01 0.01 0.08 0.83	374 2150 1180 994 500
H073073 H073074 H073075 H073076 H073077		52.6 53.8 0.16 43.1 9.71	1.3 1.1 1.6 1.7 44.2	6 5 188 9 108	82.1 53.0 57.3 79.9 >500	63.0 36.1 24.4 39.1 129.0	1.17 1.07 0.61 1.10 8.23	17.75 17.65 45.4 21.5 18.15	0.06 0.05 <0.05 <0.05 0.17	2.7 2.9 2.2 2.3 0.5	0.014 0.009 <0.005 <0.005 0.064	1.33 0.96 0.21 0.54 1.67	26.9 28.3 <0.5 23.4 3.9	344 257 >10000 267 2290	0.27 0.16 0.02 0.17 3.84	245 189 1240 209 1510
H073078 H073079 H073080 H073081 H073082		2.41 2.13 10.90 10.30 9.87	1.1 2.2 52.9 50.8 45.6	5 9 119 108 108	78.3 102.5 76.7 3.02 8.26	4.2 18.2 178.5 156.5 36.3	0.53 0.68 9.62 8.90 8.89	63.1 70.4 20.8 18.05 16.70	<0.05 <0.05 0.22 0.17 0.14	1.0 1.5 0.6 0.6 0.5	0.029 0.025 0.077 0.076 0.057	4.47 1.47 0.47 0.22 0.31	1.0 0.7 4.1 3.9 3.8	1100 242 1040 318 250	0.05 0.12 3.80 3.82 4.21	226 243 1820 1640 1620
H073083 H073084 H073085 H073086 H073087		3.44 10.10 17.50 12.55 12.45	17.9 48.3 49.5 25.6 33.6	45 106 37 72 82	36.3 73.6 3.86 58.7 10.10	19.4 105.5 241 32.6 102.0	3.39 8.76 11.65 5.81 6.75	40.8 21.8 20.6 17.85 16.40	<0.05 0.15 0.19 0.08 0.10	1.0 0.6 1.4 1.8 1.1	0.022 0.077 0.093 0.046 0.053	0.22 0.50 0.36 0.60 0.39	1.2 3.9 7.3 4.9 5.3	159.0 259 133.5 163.5 148.0	1.46 3.36 2.73 2.17 2.78	916 1720 2050 1090 1340
H073088 H073089 H073090 H073091 H073092		24.2 17.20 65.8 67.1 64.3	17.4 39.2 1.9 1.4 1.9	45 87 5 6 8	14.05 8.13 18.30 13.55 13.10	101.5 96.3 5.4 9.6 9.8	3.34 7.58 1.28 1.06 1.39	15.05 17.20 16.65 16.00 16.10	<0.05 0.13 <0.05 <0.05 0.06	2.2 1.2 2.5 2.6 2.6	0.032 0.066 0.010 0.015 0.020	0.26 0.30 1.41 1.55 1.31	11.4 7.9 33.6 34.9 32.8	60.1 66.2 190.0 158.0 181.0	1.06 2.99 0.38 0.21 0.22	584 1400 278 193 258

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To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 189  
 Project: COB-ZIG

ALS Canada, Ltd.  
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Method Analyte Units LOR		CERTIFICATE OF ANALYSIS TB11027946																				
Sample Description	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Mo ppm	Na %	Pb ppm	P ppm	Ni ppm	Nb ppm	As ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	
H073053	2.41	2.88	5.0	1.2	0.7	80	15.9	76.5	0.04	0.13	1.8	1	1.0	170.5	2.21							
H073054	5.92	2.89	5.0	0.7	80	14.9	65.9	-0.002	0.02	0.08	1.9	1	1.0	152.0	0.80							
H073055	0.30	3.37	5.6	0.8	90	16.4	75.4	-0.002	0.02	0.09	2.0	1	1.0	158.5	0.58							
H073056	0.30	3.66	6.1	0.8	100	19.5	96.5	-0.002	0.03	0.09	2.0	1	1.1	224	0.80							
H073057	1.40	2.89	5.2	0.6	90	16.5	66.2	-0.002	0.03	0.07	1.7	1	1.0	165.0	0.60							
H073058	0.98	2.84	5.3	0.5	90	14.3	278	-0.002	0.07	0.06	1.6	1	1.4	169.5	0.97							
H073059	0.14	3.94	70.5	0.8	120	10.5	690	-0.002	<0.01	<0.05	0.1	1	15.4	15.1	>100							
H073060	11.05	2.60	6.8	0.7	230	14.8	1180	-0.002	0.05	<0.05	1.5	1	5.7	143.0	31.5							
H073061	0.12	3.98	104.0	1.1	90	25.5	610	-0.002	<0.01	0.07	0.2	1	11.9	11.6	>100							
H073062	0.19	3.69	67.9	0.4	90	10.4	1040	-0.002	<0.01	<0.05	0.1	1	9.7	5.7	98.3							
H073063	0.40	3.74	48.9	2.0	950	6.0	760	-0.002	<0.01	0.18	0.7	1	16.7	26.9	>100							
H073064	93.6	1.05	4.3	9.1	100	9.5	510	0.002	<0.01	<0.05	4.0	1	1.4	37.1	1.26							
H073065	384	2.96	5.1	0.7	80	21.0	136.0	0.012	0.12	<0.05	1.8	1	1.8	113.5	0.92							
H073066	20.4	3.41	5.3	0.6	80	18.7	108.5	-0.002	0.12	<0.05	1.8	1	1.3	119.0	0.90							
H073067	1.26	0.59	118.5	4.1	7450	5.0	50.3	-0.002	0.02	0.83	0.7	1	110.5	13.7	70.7							
H073068	7.04	3.19	11.5	2.1	250	15.9	282	-0.002	0.10	<0.05	1.8	1	6.0	96.0	23.2							
H073069	1.71	0.43	3.0	96.4	330	4.1	1100	-0.002	0.10	0.09	32.8	2	3.5	93.7	0.65							
H073070	0.27	2.10	54.8	1.9	100	15.8	2330	-0.002	0.01	<0.05	1.0	1	26.2	17.8	62.6							
H073071	120.5	3.86	55.9	4.6	1400	7.3	980	0.013	0.01	<0.05	1.4	1	28.5	32.3	94.3							
H073072	0.95	1.29	3.5	118.5	410	2.1	194.0	-0.002	0.11	0.06	40.1	2	1.6	127.5	0.76							
H073073	2.21	1.74	3.1	109.0	370	1.8	18.0	0.002	0.10	<0.05	38.0	2	0.8	122.5	0.31							
H073074	1.29	1.74	2.8	107.5	350	1.9	44.3	0.002	0.01	<0.05	36.4	2	0.7	101.5	0.52							
H073075	1.51	4.38	16.7	42.1	380	4.4	68.3	-0.002	<0.01	<0.05	13.1	1	1.3	67.2	95.7							
H073076	1.60	1.18	3.5	108.0	440	3.9	195.5	-0.002	0.09	0.10	36.8	2	1.9	136.0	8.71							
H073077	2.72	1.91	5.2	38.9	530	2.6	10.4	0.002	0.34	0.09	38.7	3	1.0	101.0	0.48							
H073078	0.61	2.44	5.8	65.4	250	4.8	52.1	-0.002	0.02	0.06	22.2	1	1.0	73.8	0.88							
H073079	0.43	2.49	3.4	73.5	290	3.1	58.2	-0.002	0.02	0.07	25.5	1	0.9	95.8	0.53							
H073080	2.01	3.31	3.5	36.3	160	5.1	25.0	-0.002	0.09	0.06	12.4	1	0.5	72.7	0.48							
H073081	2.15	2.12	3.6	82.9	400	2.9	19.1	0.003	0.07	0.05	29.7	2	0.8	149.0	0.32							
H073082	7.36	2.69	4.5	1.1	120	10.6	55.4	-0.002	<0.01	<0.05	1.9	1	1.5	99.6	0.45							
H073083	1.03	2.78	4.4	0.8	100	12.2	55.9	-0.002	0.03	<0.05	2.0	1	1.0	110.5	0.42							
H073084	1.60	3.05	4.5	1.7	110	12.2	56.7	-0.002	0.02	0.05	2.1	1	1.1	144.0	0.56							

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		Te ppm	Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Ba ppm	Ce ppm	Co ppm	Cr ppm			
H073053		0.05	0.2	0.005	0.02	0.1	1	0.1	0.1	2	0.5								
H073054															<1	152.5	13.0	47.9	150
H073055															<1	169.0	21.6	46.6	210
H073056															<1	96.7	49.9	24.6	100
H073057																			
H073058																			
H073059																			
H073060																			
H073061		<0.05	10.2	0.065	0.55	2.5	3	0.4	6.8	29	79.9								
H073062		<0.05	10.4	0.066	0.43	2.5	3	0.5	6.9	34	77.8								
H073063		<0.05	13.2	0.075	0.48	2.6	4	0.5	7.7	37	92.3								
H073064		<0.05	15.2	0.079	0.72	2.5	4	0.4	8.1	37	97.3								
H073065		<0.05	11.3	0.063	0.47	2.1	3	0.4	6.9	29	81.9								
H073066		<0.05	10.1	0.062	2.39	2.3	3	0.5	6.3	28	77.9								
H073067		<0.05	4.5	<0.005	4.45	3.8	<1	0.6	5.7	112	23.2	<1	54.8	4.4	<0.5	<10			
H073068		<0.05	9.2	0.056	7.97	3.0	5	1.0	5.5	46	73.6								
H073069		0.05	7.3	<0.005	3.85	25.0	<1	1.1	9.0	110	100.5	<1	25.2	2.1	<0.5	<10			
H073070		<0.05	4.6	<0.005	6.72	8.4	<1	0.6	5.3	77	35.6								
H073071		<0.05	7.3	0.015	4.49	7.3	7	10.6	6.0	57	34.2	<1	41.3	6.7	0.9	10			
H073072		<0.05	8.1	0.082	4.98	1.7	25	2.3	7.1	23	63.3								
H073073		0.09	10.5	0.057	1.13	2.6	7	0.6	5.9	21	77.0								
H073074		<0.05	10.4	0.055	0.84	3.1	5	0.6	6.3	19	80.7								
H073075		0.05	<0.2	0.038	0.94	0.7	8	7.6	0.4	70	24.8								
H073076		<0.05	8.7	0.051	2.18	2.7	7	0.7	5.6	35	60.6								
H073077		<0.05	0.4	0.550	10.95	0.6	271	7.4	19.7	126	13.2	<1	158.0	9.3	44.5	150			
H073078		<0.05	4.2	0.011	14.85	8.0	4	2.3	3.8	412	6.4								
H073079		<0.05	3.3	0.025	5.51	4.4	9	3.1	5.5	56	8.4								
H073080		<0.05	0.4	0.666	2.11	0.1	339	0.7	25.4	132	11.4								
H073081		<0.05	0.3	0.621	0.26	0.1	311	0.9	24.5	123	8.9								
H073082		<0.05	0.3	0.582	0.46	0.1	295	0.6	23.1	118	8.3								
H073083		<0.05	0.8	0.220	0.78	1.0	107	6.0	8.9	47	5.9								
H073084		<0.05	0.4	0.596	1.57	0.4	311	0.9	23.7	130	11.2								
H073085		<0.05	1.1	0.738	0.11	0.4	332	0.6	30.1	147	41.1								
H073086		<0.05	2.5	0.357	0.54	2.3	176	0.4	20.5	84	35.8								
H073087		<0.05	1.7	0.432	0.43	1.4	218	0.6	20.2	95	22.7								
H073088		<0.05	5.3	0.200	0.26	1.9	98	0.5	12.5	42	49.0								
H073089		<0.05	1.3	0.543	0.17	0.3	254	0.7	20.5	114	36.9								
H073090		<0.05	9.2	0.079	0.35	1.1	10	1.0	6.9	27	79.1								
H073091		<0.05	10.5	0.076	0.33	1.8	6	1.0	6.5	21	85.3								
H073092		<0.05	9.5	0.083	0.42	1.5	7	0.6	6.7	30	84.3								

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81 Cs ppm 0.01	ME- MS81 Cu ppm 5	ME- MS81 Dy ppm 0.05	ME- MS81 Er ppm 0.03	ME- MS81 Eu ppm 0.03	ME- MS81 Ga ppm 0.1	ME- MS81 Gd ppm 0.05	ME- MS81 HF ppm 0.2	ME- MS81 Ho ppm 0.01	ME- MS81 La ppm 0.5	ME- MS81 Lu ppm 0.01	ME- MS81 Mo ppm 2	ME- MS81 Nb ppm 0.2	ME- MS81 Nd ppm 0.1	ME- MS81 Ni ppm 5
H073053		543	160	4.61	2.92	1.14	21.5	3.99	2.5	0.94	5.4	0.44	6	4.4	9.1	94
H073054		973	233	3.80	2.38	1.12	22.5	3.46	2.5	0.77	10.2	0.33	41	4.9	11.4	98
H073055		683	102	4.29	2.35	1.28	20.2	4.12	4.9	0.85	23.8	0.34	3	7.9	19.9	43
H073056																
H073057																
H073058																
H073059																
H073060																
H073061																
H073062																
H073063																
H073064																
H073065																
H073066																
H073067		47.8	<5	1.46	0.29	0.14	74.2	1.88	4.4	0.14	1.9	0.03	<2	86.7	2.1	<5
H073068																
H073069		30.3	<5	1.61	0.38	0.07	65.2	1.63	15.2	0.15	1.1	0.08	<2	97.8	1.0	<5
H073070																
H073071		70.7	<5	1.41	0.29	0.10	52.6	2.86	6.2	0.12	3.1	0.05	<2	46.9	2.9	<5
H073072																
H073073																
H073074																
H073075																
H073076																
H073077		519	119	3.55	2.30	0.85	18.8	2.79	1.7	0.77	4.0	0.34	3	2.9	6.5	107
H073078																
H073079																
H073080																
H073081																
H073082																
H073083																
H073084																
H073085																
H073086																
H073087																
H073088																
H073089																
H073090																
H073091																
H073092																

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Project: COB- ZIC

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyse Units LOR	ME-MS81 Pb ppm 5	ME-MS81 Fe ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Ti ppm 0.5	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5
H073053		<5	1.83	686	3.08	6	70.5	0.3	0.71	0.69	4.3	0.41	0.20	355	2	26.6
H073054		<5	2.68	798	3.17	6	68.8	0.5	0.58	2.17	4.9	0.33	0.59	275	2	22.1
H073055		8	5.65	524	4.35	1	151.0	0.6	0.70	7.13	4.4	0.33	1.85	231	1	23.4
H073056																
H073057																
H073058																
H073059																
H073060																
H073061																
H073062																
H073063																
H073064																
H073065																
H073066																
H073067		9	0.57	656	1.44	16	16.2	262	0.38	5.28	3.0	0.04	4.63	<5	1	8.7
H073068																
H073069		17	0.26	562	1.20	12	11.5	193.0	0.40	8.86	2.1	0.07	28.4	<5	1	12.0
H073070																
H073071		5	0.86	665	3.08	17	24.4	223	0.49	7.78	2.4	0.04	8.05	8	11	6.7
H073072																
H073073																
H073074																
H073075																
H073076																
H073077		<5	1.35	1075	2.14	4	82.5	0.6	0.53	0.51	7.7	0.33	0.57	292	9	20.5
H073078																
H073079																
H073080																
H073081																
H073082																
H073083																
H073084																
H073085																
H073086																
H073087																
H073088																
H073089																
H073090																
H073091																
H073092																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		Yb ppm	Zn ppm	Zr ppm	Li %
H073053		0.03	5	2	0.005
H073054		2.91	187	87	
H073055		2.29	163	93	
H073056		2.06	72	190	
H073057					
H073058					
H073059					
H073060					
H073061					
H073062					
H073063					
H073064					
H073065					
H073066					
H073067		0.28	150	18	
H073068					
H073069		0.58	97	102	
H073070					
H073071		0.28	49	28	
H073072					
H073073					
H073074					3.630
H073075					
H073076					
H073077		2.14	114	57	
H073078					
H073079					
H073080					
H073081					
H073082					
H073083					
H073084					
H073085					
H073086					
H073087					
H073088					
H073089					
H073090					
H073091					
H073092					

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEI- Z1	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H073093		1.73	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
H073094		1.71														
H073095		1.40														
H073096		1.67														
H073097		1.64														
H073098		1.37														
H073099		1.68														
H073100		0.65														
H073101		1.65														
H073102		1.42														
H073103		1.71														
H073104		1.64														
H073105		1.59														
H073106		1.64														
H073107		1.66														
H073108		1.66														
H073109		2.15														
H073110		1.23														
H073111		2.03														
H073112		1.10														
H073113		2.17														
H073114		3.35														
H073115		2.53														
H073116		0.96														
H073117		1.54														
H073118		1.51														
H073119		1.52														
H073120		3.57														
H073121		1.76														
H073122		1.68														
H073123		1.77														
H073124		0.64														
H073125		0.03														
H073126		1.81														
H073127		1.92														
H073128		2.57														
H073129		3.53														
H073130		3.61														
H073131		2.07														
H073132		1.67														

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
H073093 H073094 H073095 H073096 H073097		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
H073098 H073099 H073100 H073101 H073102																
H073103 H073104 H073105 H073106 H073107																
H073108 H073109 H073110 H073111 H073112																
H073113 H073114 H073115 H073116 H073117																
H073118 H073119 H073120 H073121 H073122																
H073123 H073124 H073125 H073126 H073127																
H073128 H073129 H073130 H073131 H073132																

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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Finalized Date: 4- MAR- 2011  
 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
H073093 H073094 H073095 H073096 H073097		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
H073098 H073099 H073100 H073101 H073102																
H073103 H073104 H073105 H073106 H073107																
H073108 H073109 H073110 H073111 H073112																
H073113 H073114 H073115 H073116 H073117																
H073118 H073119 H073120 H073121 H073122																
H073123 H073124 H073125 H073126 H073127																
H073128 H073129 H073130 H073131 H073132																

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



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		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Al %	As ppm	Ra ppm	Re ppm	Ri ppm	Ca %	Cd ppm
H073093		0.02	0.05	1	0.05	0.05	2	0.5	0.04	6.29	0.4	520	0.94	0.06	1.26	0.05
H073094									0.03	5.93	0.6	510	0.85	0.06	1.17	0.05
H073095									0.03	6.04	0.5	510	0.95	0.07	1.15	0.04
H073096									0.06	5.83	0.5	460	7.54	0.13	1.00	0.03
H073097									0.04	6.44	0.3	500	1.80	0.06	1.23	0.05
H073098									0.06	6.45	<0.2	490	1.40	0.12	1.25	0.11
H073099									0.06	6.23	<0.2	560	1.08	0.08	1.19	0.08
H073100									0.04	6.85	<0.2	850	0.85	0.03	1.03	0.03
H073101									0.08	6.23	<0.2	490	1.59	0.16	1.19	0.04
H073102									0.02	6.59	<0.2	300	12.70	0.11	0.82	<0.02
H073103									0.05	6.32	<0.2	460	1.13	0.08	1.21	0.05
H073104									0.04	6.19	<0.2	480	3.78	0.08	1.15	0.05
H073105									0.08	6.22	<0.2	390	9.48	0.95	1.22	0.05
H073106									0.09	6.37	<0.2	480	1.19	0.14	1.21	0.06
H073107									0.06	6.26	0.2	520	4.75	0.08	1.22	0.05
H073108									0.08	6.53	<0.2	400	2.86	0.17	1.24	0.05
H073109									0.05	5.92	<0.2	450	3.65	0.13	1.19	0.05
H073110									<0.01	6.44	<0.2	10	148.5	0.11	0.20	0.27
H073111									0.02	6.72	0.3	10	113.5	0.12	0.17	0.10
H073112									<0.01	6.70	<0.2	240	84.2	0.25	0.58	0.07
H073113									0.16	6.21	<0.2	260	3.54	0.45	2.34	0.09
H073114									0.22	7.71	<0.2	80	0.55	1.26	7.12	0.17
H073115									0.33	7.36	<0.2	70	3.11	1.27	6.95	0.17
H073116									0.03	6.37	<0.2	20	143.5	4.27	0.24	0.08
H073117									0.12	7.01	<0.2	20	59.9	94.4	0.21	0.14
H073118									0.06	6.38	<0.2	<10	151.0	1.97	0.25	0.13
H073119									<0.01	8.11	0.9	30	49.7	1.32	0.53	<0.02
H073120									0.29	7.33	<0.2	140	1.55	18.25	6.18	0.13
H073121									0.17	7.38	<0.2	130	0.94	1.84	6.13	0.19
H073122									0.06	6.37	<0.2	210	1.66	0.16	1.31	0.08
H073123									0.06	6.22	0.3	230	7.33	0.25	1.06	0.04
H073124									0.04	6.44	<0.2	100	124.0	3.65	0.24	0.03
H073125									0.08	7.95	4.1	<10	538	0.86	0.41	0.05
H073126									0.07	5.86	<0.2	320	4.29	0.17	1.15	0.04
H073127									0.09	6.50	<0.2	260	8.03	1.52	1.93	0.02
H073128									0.17	7.72	<0.2	140	4.05	1.70	7.24	0.31
H073129									0.22	7.68	<0.2	40	4.02	2.56	7.28	0.17
H073130									0.22	7.47	<0.2	50	2.47	1.54	7.20	0.16
H073131									0.02	6.58	<0.2	10	124.5	9.18	0.28	0.15
H073132									0.11	7.25	<0.2	<10	208	3.62	0.16	0.30

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
H073093		58.9	1.5	7	6.77	9.3	1.19	16.50	0.05	2.7	0.012	1.29	30.9	166.5	0.15	240
H073094		60.6	1.4	8	8.02	4.8	1.20	15.10	0.05	2.4	0.013	1.31	31.5	174.0	0.17	258
H073095		62.8	1.4	6	35.3	16.5	1.16	15.95	<0.05	3.0	0.012	1.38	32.9	187.5	0.16	242
H073096		50.3	1.2	7	77.3	18.0	1.03	19.70	0.06	2.8	0.008	1.15	26.8	171.5	0.13	223
H073097		58.4	1.2	8	41.6	5.7	1.22	16.80	0.09	3.0	0.014	1.56	29.8	229	0.18	255
H073098		62.4	1.5	5	30.7	14.8	1.34	16.55	0.12	2.6	0.016	1.43	32.5	210	0.16	260
H073099		58.0	1.4	6	30.3	15.7	1.18	16.85	0.12	2.6	0.015	1.71	30.4	215	0.16	233
H073100		151.0	2.9	8	2.36	4.8	1.51	19.30	0.21	7.7	0.015	3.47	79.0	25.1	0.27	225
H073101		49.4	1.5	7	49.0	26.8	1.19	16.75	0.12	2.6	0.013	1.39	25.1	239	0.17	208
H073102		44.3	0.8	5	61.8	4.4	0.94	33.1	0.10	4.6	0.010	0.95	23.9	242	0.13	590
H073103		64.4	1.5	6	50.1	17.3	1.16	17.00	0.14	3.2	0.015	1.21	33.0	260	0.19	214
H073104		53.2	1.4	6	116.5	19.2	1.17	17.05	0.12	3.2	0.012	1.26	28.1	317	0.14	252
H073105		49.6	1.5	5	138.5	32.7	1.11	23.2	0.13	3.1	0.011	0.90	26.3	281	0.12	277
H073106		47.9	1.1	5	47.7	36.6	1.22	16.65	0.15	2.9	0.014	1.21	25.1	257	0.11	234
H073107		50.2	1.0	5	42.7	27.5	1.13	19.15	0.14	2.9	0.012	1.23	25.6	307	0.10	236
H073108		56.4	1.0	7	34.0	38.2	1.23	18.15	0.15	2.9	0.013	0.87	29.9	300	0.12	212
H073109		49.6	0.9	7	46.3	22.4	1.09	18.10	0.15	2.9	0.013	0.99	25.7	338	0.09	211
H073110		2.05	0.2	5	49.4	1.0	0.30	58.1	0.07	9.2	<0.005	2.38	0.8	1870	0.01	749
H073111		1.36	0.2	6	43.7	0.9	0.38	77.2	0.06	12.9	<0.005	1.73	0.5	5940	0.01	1190
H073112		31.3	0.5	4	80.6	10.7	0.65	45.7	0.09	7.8	0.008	2.39	16.2	336	0.06	568
H073113		46.7	10.3	31	71.0	75.3	2.60	16.45	0.16	2.5	0.020	0.80	24.4	770	0.79	477
H073114		10.25	49.8	110	70.1	126.5	9.15	18.90	0.23	0.7	0.074	0.72	4.0	1580	4.12	1610
H073115		7.76	47.0	129	97.0	80.4	8.55	20.0	0.19	0.6	0.067	0.71	3.0	1360	4.25	1600
H073116		0.80	0.6	8	56.2	2.5	0.40	59.1	0.07	1.1	<0.005	2.74	<0.5	82.5	0.04	544
H073117		2.35	0.3	4	68.5	1.7	0.35	63.7	0.10	1.7	0.006	4.41	0.9	1440	0.02	253
H073118		1.37	0.2	5	33.6	3.0	0.33	65.8	0.07	2.5	<0.005	1.13	0.5	287	0.01	676
H073119		4.64	3.4	11	126.5	8.7	0.97	97.6	0.11	1.7	0.022	1.59	1.7	252	0.20	1170
H073120		9.07	46.9	115	250	204	8.77	18.50	0.22	0.8	0.067	1.30	3.5	1250	3.88	1440
H073121		10.10	45.8	101	68.0	69.3	8.80	18.30	0.20	0.5	0.069	1.70	4.4	460	4.94	1580
H073122		51.6	3.9	9	31.9	23.4	1.54	17.50	0.15	2.9	0.010	1.17	26.6	221	0.54	255
H073123		52.2	1.3	6	23.4	27.2	1.17	19.05	0.16	2.9	0.007	0.87	27.4	135.5	0.20	194
H073124		5.90	0.4	3	57.4	10.0	0.23	40.9	0.11	3.8	<0.005	3.58	3.1	41.3	0.01	291
H073125		0.23	1.6	157	52.4	27.5	0.61	47.7	0.12	2.3	<0.005	0.20	<0.5	>10000	0.03	1040
H073126		48.7	2.6	8	43.3	24.5	0.93	16.10	0.16	2.9	0.007	1.13	25.4	137.5	0.14	162
H073127		47.2	2.9	9	44.3	30.7	0.93	21.4	0.16	3.1	0.015	1.07	23.9	124.5	0.19	210
H073128		10.40	48.9	104	78.4	120.0	9.58	22.2	0.26	0.7	0.090	0.72	4.3	397	4.25	1740
H073129		10.15	53.7	100	44.7	220	8.53	21.4	0.22	0.6	0.086	0.40	3.9	283	3.63	1570
H073130		9.60	48.1	102	53.2	115.0	8.55	18.15	0.24	0.6	0.066	0.46	3.7	670	3.64	1520
H073131		1.48	0.6	4	31.3	4.3	0.40	76.8	0.09	4.0	<0.005	0.81	0.5	4300	0.04	802
H073132		1.96	0.4	6	45.9	2.0	0.55	93.4	0.12	5.8	<0.005	0.58	0.7	>10000	0.02	1360

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		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
H073093		21.5	3.27	4.7	0.8	100	13.2	44.6	<0.002	0.03	0.06	2.0	1	1.0	186.0	0.46
H073094		0.26	3.00	4.3	1.1	100	12.6	45.1	<0.002	0.01	0.06	1.9	1	0.9	171.5	0.40
H073095		0.90	3.10	4.4	0.6	90	12.9	90.6	<0.002	0.05	0.07	1.9	1	1.0	168.5	0.42
H073096		2.96	3.29	8.7	0.7	130	13.2	199.0	<0.002	0.04	0.06	1.6	1	1.6	140.0	>100
H073097		0.63	3.11	4.7	0.9	100	13.1	105.0	<0.002	0.02	0.09	2.1	1	1.5	144.0	0.54
H073098		1.07	3.13	4.7	0.8	110	14.8	67.1	<0.002	0.06	0.09	2.3	1	1.0	157.0	0.58
H073099		1.34	2.99	4.6	0.8	90	14.6	74.7	<0.002	0.06	0.08	2.3	1	1.0	156.0	0.50
H073100		0.17	2.48	4.0	2.0	330	36.1	128.5	<0.002	0.01	<0.05	3.8	1	0.7	245	0.25
H073101		54.8	3.05	4.9	0.8	110	14.6	163.5	0.003	0.07	0.06	2.2	1	1.7	126.5	0.58
H073102		14.70	3.93	19.3	0.9	120	10.7	322	<0.002	0.02	0.05	1.7	1	8.0	70.9	>100
H073103		5.06	3.26	5.1	0.7	80	15.2	66.5	<0.002	0.05	0.08	2.4	1	1.1	146.5	0.69
H073104		5.21	3.10	5.3	0.7	70	15.3	156.5	<0.002	0.05	0.08	2.4	1	1.1	164.0	5.27
H073105		2.57	3.44	7.3	0.7	250	16.0	271	<0.002	0.09	0.07	2.2	1	2.7	164.0	52.1
H073106		10.05	3.17	5.0	0.7	70	17.6	94.1	<0.002	0.12	0.07	2.2	1	1.0	159.5	0.88
H073107		3.54	3.26	5.7	0.7	80	16.0	99.5	<0.002	0.08	0.05	2.1	1	1.8	178.5	4.28
H073108		5.76	3.41	5.3	0.8	60	17.8	88.4	<0.002	0.13	0.06	2.1	1	1.7	164.0	2.38
H073109		4.37	3.19	5.2	0.8	70	24.3	211	<0.002	0.12	<0.05	1.9	1	1.6	177.0	1.34
H073110		0.12	3.97	81.1	0.4	100	11.1	1380	<0.002	0.01	<0.05	0.2	1	11.5	7.1	>100
H073111		0.10	3.32	85.2	0.4	100	12.9	1040	<0.002	<0.01	0.05	0.4	1	20.1	4.8	>100
H073112		0.15	3.27	74.0	0.5	190	14.9	1320	<0.002	0.03	0.05	1.1	1	15.2	35.9	100.0
H073113		5.48	2.44	4.6	19.7	90	13.3	201	<0.002	0.11	0.07	10.9	2	1.4	105.0	1.11
H073114		0.97	0.96	3.2	100.0	330	6.3	110.0	<0.002	0.08	0.09	50.6	2	0.7	134.5	0.33
H073115		2.55	0.95	3.8	108.0	290	6.6	195.0	0.002	0.05	0.09	45.8	2	2.2	115.0	3.56
H073116		0.10	3.18	42.4	1.5	90	9.8	1590	<0.002	<0.01	0.05	0.5	1	19.0	10.4	90.1
H073117		0.09	2.92	111.5	0.7	100	17.8	2360	<0.002	<0.01	0.14	0.4	1	16.7	9.8	>100
H073118		0.10	4.39	67.8	0.9	70	4.5	760	<0.002	<0.01	0.06	0.2	1	19.7	5.8	100.0
H073119		0.10	4.54	133.5	7.0	120	5.5	1120	<0.002	0.01	0.06	3.6	1	42.9	18.1	>100
H073120		0.65	1.01	4.2	96.1	350	6.2	570	0.002	0.30	0.11	45.4	2	1.5	129.0	0.57
H073121		6.58	0.52	3.2	113.5	330	4.7	221	0.020	0.03	0.08	42.4	2	1.3	79.3	0.40
H073122		1.94	2.47	5.3	7.1	90	10.0	118.0	<0.002	0.02	<0.05	3.8	1	1.2	70.4	0.98
H073123		3.85	3.28	6.4	1.5	90	11.3	161.0	<0.002	0.04	<0.05	1.9	1	1.8	83.9	3.81
H073124		10.45	3.99	49.3	0.9	210	16.2	1030	<0.002	<0.01	<0.05	0.3	1	2.0	18.5	>100
H073125		0.35	0.59	123.0	4.4	6900	5.6	47.5	<0.002	0.02	0.98	1.0	1	108.5	14.3	70.9
H073126		8.66	2.89	6.0	1.1	70	12.7	165.5	<0.002	0.06	0.08	1.8	1	1.2	89.1	1.17
H073127		119.0	3.20	5.8	3.1	190	12.8	127.5	0.019	0.04	0.08	3.1	1	2.0	118.0	19.45
H073128		5.20	1.17	4.1	112.0	400	3.8	159.5	0.002	0.14	0.09	46.1	2	2.8	115.0	1.31
H073129		9.53	1.40	3.5	109.0	340	2.7	86.0	0.002	0.29	0.08	44.9	3	2.3	128.5	0.58
H073130		4.66	1.23	3.2	109.5	330	3.0	188.0	0.003	0.08	0.10	43.5	2	1.0	121.5	0.57
H073131		0.18	4.09	69.4	1.5	80	6.1	580	<0.002	0.01	<0.05	0.6	1	16.3	9.1	>100
H073132		0.24	2.82	121.0	0.9	50	7.1	450	<0.002	0.01	<0.05	0.5	1	20.7	5.2	>100

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB1 1027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		Te ppm 0.05	Th ppm 0.2	Ti % 0.005	Ti ppm 0.02	U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Ba ppm 0.5	Ce ppm 0.5	Co ppm 0.5	Cr ppm 10				
H073093		<0.05	8.7	0.078	0.29	1.8	6	0.5	6.3	31	82.0									
H073094		<0.05	9.2	0.074	0.29	1.6	5	0.5	6.3	35	77.2									
H073095		<0.05	10.1	0.069	0.79	1.9	5	0.4	6.7	31	95.4									
H073096		<0.05	8.4	0.060	1.78	1.7	5	0.5	5.1	26	72.1				<1	462	49.0	1.1		10
H073097		<0.05	8.6	0.077	0.98	2.0	6	0.4	6.1	28	88.0									
H073098		<0.05	9.5	0.077	0.58	1.9	5	0.4	6.9	45	81.4									
H073099		<0.05	9.4	0.074	0.61	1.9	5	0.4	6.5	30	81.9									
H073100		<0.05	50.3	0.114	0.86	2.7	16	0.1	5.5	40	250									
H073101		<0.05	8.6	0.071	1.55	1.9	7	0.4	5.9	23	81.3									
H073102		<0.05	9.2	0.050	2.32	4.2	7	1.1	5.3	13	65.7				<1	302	43.1	0.7		10
H073103		<0.05	11.4	0.065	0.54	2.6	5	0.4	6.9	28	96.4									
H073104		<0.05	10.5	0.067	1.69	2.7	4	0.4	7.2	34	89.5									
H073105		<0.05	11.4	0.059	3.04	2.6	5	0.4	6.4	41	84.7									
H073106		<0.05	12.8	0.065	0.99	2.7	5	0.4	6.4	30	88.5									
H073107		<0.05	14.3	0.062	0.79	2.5	4	0.4	6.4	31	84.2									
H073108		<0.05	15.7	0.062	0.73	2.6	4	0.7	6.6	27	86.1									
H073109		<0.05	13.3	0.059	2.08	2.9	4	0.3	5.5	31	85.1									
H073110		<0.05	4.3	<0.005	9.87	11.9	<1	0.8	4.6	78	51.7				<1	13.8	2.8	<0.5		10
H073111		<0.05	5.3	<0.005	7.40	14.2	1	1.1	5.7	41	78.9				<1	6.0	1.9	<0.5		10
H073112		<0.05	11.5	0.027	9.11	11.7	2	2.0	7.0	39	80.2				<1	254	29.3	0.5		10
H073113		<0.05	10.2	0.154	1.85	2.0	58	1.1	9.1	39	73.9									
H073114		<0.05	0.5	0.600	0.95	0.2	297	0.9	23.6	104	16.0									
H073115		<0.05	0.4	0.494	1.89	0.4	277	4.1	17.9	110	14.5									
H073116		<0.05	2.8	0.007	10.90	7.0	3	0.8	2.1	26	4.5									
H073117		0.06	7.3	<0.005	17.25	15.2	1	1.5	7.0	54	10.6				<1	17.9	2.7	<0.5		10
H073118		<0.05	3.4	<0.005	4.45	5.1	1	1.7	4.4	46	13.5				<1	3.5	1.4	<0.5		10
H073119		0.05	9.8	0.038	6.64	10.7	19	4.5	10.2	39	10.9				<1	27.0	5.4	2.9		10
H073120		3.46	0.5	0.559	5.68	0.4	269	0.8	20.2	99	21.0									
H073121		0.14	0.3	0.559	1.77	0.1	275	1960	23.6	122	11.7									
H073122		<0.05	9.1	0.088	0.90	1.3	17	4.7	6.3	25	92.2									
H073123		<0.05	10.7	0.064	1.29	1.7	4	5.1	6.2	15	86.0									
H073124		<0.05	3.2	0.006	7.22	4.1	1	0.9	2.2	4	17.9				<1	108.5	6.6	<0.5		<10
H073125		<0.05	0.2	0.037	0.96	1.3	8	7.7	0.5	63	24.3									
H073126		<0.05	9.4	0.059	1.57	2.5	4	2.9	6.4	15	83.6									
H073127		<0.05	10.1	0.061	1.23	3.2	14	195.0	7.6	17	86.3									
H073128		<0.05	0.5	0.605	1.48	0.2	295	1.3	24.1	150	15.4									
H073129		0.06	0.3	0.576	0.70	0.3	284	38.2	23.8	130	12.3									
H073130		<0.05	0.3	0.576	1.75	0.1	285	2.4	23.0	115	10.1									
H073131		<0.05	3.7	0.008	3.78	6.4	3	0.7	2.9	47	22.4				<1	7.4	1.7	<0.5		10
H073132		0.05	3.9	0.005	2.78	9.8	2	1.1	5.0	89	30.0				<1	4.5	2.8	<0.5		10

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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81 Cs ppm	ME- MS81 Cu ppm	ME- MS81 Dy ppm	ME- MS81 Er ppm	ME- MS81 Eu ppm	ME- MS81 Ga ppm	ME- MS81 Gd ppm	ME- MS81 Hf ppm	ME- MS81 Ho ppm	ME- MS81 La ppm	ME- MS81 Lu ppm	ME- MS81 Mo ppm	ME- MS81 Nb ppm	ME- MS81 Nd ppm	ME- MS81 Ni ppm
H073093 H073094 H073095 H073096 H073097		0.01	5	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	2	0.2	0.1	5
H073098 H073099 H073100 H073101 H073102		71.1	16	1.10	0.62	0.57	19.9	1.44	2.6	0.22	27.8	0.10	3	8.8	14.9	<5
H073103 H073104 H073105 H073107		58.2	5	1.24	0.54	0.43	33.7	1.58	4.5	0.19	24.1	0.10	17	19.2	13.4	<5
H073108 H073109 H073110 H073111 H073112		48.1 46.0 80.8	<5 <5 11	0.94 1.29 1.36	0.12 0.28 0.49	0.04 0.04 0.31	57.5 78.0 46.1	1.59 1.59 2.38	4.7 11.5 7.3	0.07 0.12 0.19	1.1 0.9 16.0	0.02 0.05 0.07	<2 <2 <2	80.9 102.0 65.9	1.3 0.9 10.1	<5 <5 <5
H073113 H073114 H073115 H073116 H073117		66.3	<5	1.83	0.30	0.08	59.4	3.14	1.2	0.16	1.2	0.03	2	75.8	1.3	<5
H073118 H073119 H073120 H073121 H073122		34.2 119.5	<5 9	0.85 1.80	0.13 0.36	0.03 0.07	65.0 86.9	1.28 3.40	1.8 2.0	0.07 0.17	0.6 2.1	0.01 0.04	<2 <2	72.4 131.5	0.7 2.7	<5 6
H073123 H073124 H073125 H073126 H073127		56.5	10	0.53	0.16	0.17	39.6	0.81	3.8	0.07	3.7	0.02	9	45.2	2.8	<5
H073128 H073129 H073130 H073131 H073132		32.0 48.5	<5 <5	0.69 1.30	0.11 0.23	<0.03 0.03	77.0 90.8	1.19 1.92	3.7 8.6	0.06 0.11	0.7 1.2	0.02 0.04	<2 <2	90.4 134.0	0.7 1.4	<5 <5

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To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 195 PARK AVE  
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 Project: COB- ZIG

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Pb ppm	Pr ppm	Rb ppm	Sr ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm
H073093		12	4.84	183.0	2.17	2	138.5	142.0	0.21	9.18	0.9	0.10	1.86	6	1	6.3
H073094																
H073095																
H073096																
H073097																
H073098																
H073099																
H073100																
H073101																
H073102																
H073103																
H073104																
H073105																
H073106																
H073107																
H073108																
H073109																
H073110																
H073111																
H073112																
H073113																
H073114																
H073115																
H073116																
H073117																
H073118																
H073119																
H073120																
H073121																
H073122																
H073123																
H073124																
H073125																
H073126																
H073127																
H073128																
H073129																
H073130																
H073131																
H073132																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		Yb ppm	Zn ppm	Zr ppm	Li %
H073093 H073094 H073095 H073096 H073097		0.66	24	70	
H073098 H073099 H073100 H073101 H073102		0.58	14	64	
H073103 H073104 H073105 H073106 H073107					
H073108 H073109 H073110 H073111 H073112		0.13 0.37 0.48	76 42 46	26 71 78	
H073113 H073114 H073115 H073116 H073117		0.26	52	9	
H073118 H073119 H073120 H073121 H073122		0.12 0.35	47 33	6 11	
H073123 H073124 H073125 H073126 H073127		0.13	5	15	2.770
H073128 H073129 H073130 H073131 H073132		0.14 0.32	48 85	19 47	1.050

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H073133		1.68	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
H073134		1.68														
H073135		1.60														
H073136		1.69														
H073137		5.31														
H073138		1.60														
H073139		1.59														
H073140		1.63														
H073141		1.62														
H073142		1.64														
H073143		1.70														
H073144		1.64														
H073145		1.64														
H073146		1.23														
H073147		1.69														
H073148		2.07														
H073149		0.86														
H073150		0.64														
H073151		1.61														
H073152		1.71														
H073153		1.58														
H073154		1.62														
H073155		1.60														
H073156		3.54														
H073157		1.83														
H073158		1.44														
H073159		2.30														
H073160		3.64														
H073161		1.67														
H073162		1.63														
H073163		1.61														
H073164		1.73														
H073165		1.39														
H073166		1.62														
H073167		1.63														
H073168		1.75														
H073169		3.55														
H073170		3.31														
H073171		1.97														
H073172		3.76														

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
H073133 H073134 H073135 H073136 H073137		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
H073138 H073139 H073140 H073141 H073142																
H073143 H073144 H073145 H073146 H073147																
H073148 H073149 H073150 H073151 H073152																
H073153 H073154 H073155 H073156 H073157																
H073158 H073159 H073160 H073161 H073162																
H073163 H073164 H073165 H073166 H073167																
H073168 H073169 H073170 H073171 H073172																

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
H073133 H073134 H073135 H073136 H073137		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
H073138 H073139 H073140 H073141 H073142																
H073143 H073144 H073145 H073146 H073147																
H073148 H073149 H073150 H073151 H073152																
H073153 H073154 H073155 H073156 H073157																
H073158 H073159 H073160 H073161 H073162																
H073163 H073164 H073165 H073166 H073167																
H073168 H073169 H073170 H073171 H073172																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Tl ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Bc ppm 109.0	Bi ppm 43.9	Ca % 0.01	Cd ppm 0.01
H073133									0.08	6.05	<0.2	10	109.0	43.9	0.14	0.38
H073134									0.01	7.66	<0.2	20	111.5	30.7	0.15	0.07
H073135									<0.01	5.98	<0.2	30	65.0	2.22	0.20	0.11
H073136									0.04	5.90	<0.2	20	68.2	2.68	0.20	0.04
H073137									0.16	7.51	<0.2	60	0.64	1.08	7.67	0.16
H073138									0.02	6.26	<0.2	280	1.61	0.06	1.16	0.03
H073139									0.04	6.29	<0.2	510	1.14	0.08	0.89	0.04
H073140									0.05	6.44	<0.2	700	0.99	0.09	0.81	0.06
H073141									0.03	5.90	0.2	600	0.83	0.07	0.77	0.04
H073142									0.05	5.83	0.3	640	0.83	0.07	0.71	0.05
H073143									0.02	6.46	<0.2	560	0.93	0.08	0.78	0.04
H073144									0.04	6.40	<0.2	670	1.23	0.08	0.86	0.05
H073145									0.04	6.37	0.4	660	1.61	0.17	0.96	0.03
H073146									0.03	6.83	0.3	600	2.07	0.17	1.12	0.06
H073147									0.03	6.35	0.8	620	4.72	0.14	0.90	0.03
H073148									0.01	6.66	<0.2	310	12.15	0.41	0.81	0.03
H073149									<0.01	7.99	0.2	80	4.44	0.27	0.25	<0.02
H073150									0.04	6.82	0.4	920	0.89	0.02	1.02	0.02
H073151									<0.01	7.67	0.4	60	37.2	0.08	0.23	0.04
H073152									<0.01	6.92	<0.2	60	7.44	0.48	0.20	0.04
H073153									0.04	8.82	0.4	150	8.19	1.05	0.29	0.27
H073154									<0.01	8.39	<0.2	50	43.5	0.99	0.28	0.10
H073155									<0.01	7.14	0.3	10	143.0	2.60	0.32	0.07
H073156									0.15	7.49	<0.2	50	1.14	0.49	7.14	0.13
H073157									0.18	7.74	<0.2	80	0.72	0.63	6.90	0.16
H073158									0.07	6.37	1.0	80	1.31	0.23	1.58	0.04
H073159									0.19	7.59	<0.2	40	0.65	0.81	7.64	0.17
H073160									0.17	7.08	<0.2	50	2.73	0.43	5.96	0.15
H073161									0.06	6.74	<0.2	20	92.2	8.02	0.26	0.15
H073162									0.06	6.28	<0.2	10	142.5	3.73	0.23	0.76
H073163									0.05	7.07	<0.2	10	114.5	0.53	0.28	0.04
H073164									0.04	5.81	<0.2	10	96.4	6.95	0.19	0.07
H073165									0.03	6.26	0.2	10	147.5	45.9	0.13	0.08
H073166									0.04	6.74	0.3	10	206	39.0	0.12	0.08
H073167									0.01	6.27	0.5	<10	198.0	19.25	0.16	0.16
H073168									<0.01	6.94	0.4	10	129.5	0.55	0.31	0.20
H073169									0.19	7.94	0.2	50	1.89	0.55	7.61	0.18
H073170									0.16	7.74	<0.2	100	2.32	1.51	7.40	0.25
H073171									0.11	6.41	0.4	10	128.5	2.22	0.33	0.08
H073172									0.38	7.51	<0.2	30	0.81	0.95	7.42	0.36

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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	HF ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5
H073133		1.06	0.3	5	40.4	3.1	0.45	72.2	<0.05	4.8	0.005	1.07	<0.5	6160	0.01	1500
H073134		1.14	0.2	6	125.0	1.6	0.49	78.1	0.08	2.0	<0.005	3.66	<0.5	7820	0.01	488
H073135		0.84	0.5	6	77.4	2.3	0.36	54.1	0.09	3.4	<0.005	3.38	<0.5	1600	0.01	465
H073136		1.03	0.3	4	22.3	10.2	0.28	51.2	0.08	2.6	<0.005	1.44	<0.5	28.0	<0.01	434
H073137		10.25	47.8	100	3.35	139.0	8.53	17.80	0.21	0.6	0.075	0.28	3.8	153.5	3.51	1540
H073138		53.3	1.6	4	17.25	7.0	1.11	17.50	0.13	2.8	0.007	1.49	27.7	155.0	0.26	174
H073139		58.2	3.3	37	14.15	15.9	1.53	17.80	0.15	2.9	0.011	1.40	32.4	178.5	0.47	261
H073140		54.4	1.1	5	6.86	28.0	1.12	17.40	0.12	2.7	0.012	2.00	28.1	112.5	0.12	176
H073141		49.9	1.0	6	4.44	14.5	1.07	17.10	0.14	2.8	0.011	1.78	25.6	113.0	0.10	164
H073142		51.1	0.8	6	5.16	20.7	1.11	16.20	0.14	2.7	0.008	1.88	26.7	112.5	0.11	146
H073143		52.7	1.0	8	6.90	11.2	1.30	17.30	0.14	2.8	0.010	1.83	28.2	120.5	0.11	187
H073144		54.1	0.8	7	9.61	15.8	1.18	18.70	0.16	2.9	0.009	1.96	27.4	121.5	0.09	169
H073145		53.0	0.9	7	15.10	24.2	1.45	17.80	0.13	2.8	0.013	1.84	27.5	125.0	0.10	214
H073146		69.0	6.3	101	70.8	11.4	1.89	18.95	0.15	3.3	0.018	1.65	36.8	890	0.86	335
H073147		55.3	1.0	6	64.6	11.8	1.20	18.90	0.14	3.1	0.011	1.77	29.4	197.0	0.10	224
H073148		51.9	1.5	6	96.4	22.5	0.95	22.1	0.12	4.0	0.011	0.98	28.7	305	0.12	236
H073149		2.89	0.3	2	120.5	1.6	0.38	66.9	0.05	2.4	<0.005	4.14	1.0	69.2	0.02	427
H073150		115.0	2.6	7	2.35	6.5	1.32	17.75	0.18	5.8	0.012	3.92	61.2	18.3	0.23	201
H073151		1.76	0.4	4	165.0	1.4	0.69	80.1	0.07	4.1	0.005	3.58	0.7	1360	0.03	858
H073152		1.48	0.3	4	141.5	1.6	0.47	71.4	<0.05	3.0	<0.005	2.69	0.6	3210	0.02	922
H073153		1.94	0.6	4	199.0	3.5	0.85	102.0	0.09	1.1	0.013	4.51	0.8	4580	0.05	505
H073154		1.95	0.3	2	104.0	1.5	0.50	82.9	0.08	2.7	0.007	2.66	0.7	3120	0.03	881
H073155		1.49	0.3	4	46.0	1.9	0.38	67.4	0.07	3.4	<0.005	1.09	0.6	192.0	0.01	639
H073156		10.05	44.9	100	102.0	109.5	8.68	17.40	0.20	0.5	0.063	0.61	3.9	1190	3.95	1580
H073157		11.70	47.0	100	6.12	136.5	9.19	17.60	0.16	0.7	0.069	0.32	4.7	231	3.46	1620
H073158		25.3	7.3	18	7.89	90.6	1.35	16.15	0.11	2.9	0.012	0.11	11.3	41.5	0.38	225
H073159		11.35	50.1	102	3.23	154.5	8.65	18.65	0.20	0.7	0.074	0.22	4.3	137.5	3.20	1600
H073160		10.95	40.8	85	83.0	119.0	7.85	17.75	0.14	1.2	0.058	0.36	4.1	700	3.38	1420
H073161		1.48	0.4	4	56.1	2.2	0.40	55.1	0.05	2.6	<0.005	2.59	0.5	81.9	0.02	333
H073162		3.59	0.3	6	45.1	1.8	0.39	62.0	<0.05	5.6	0.025	1.32	1.2	145.5	0.01	615
H073163		2.19	0.2	3	52.1	1.4	0.31	63.7	0.06	4.7	0.008	1.71	0.8	427	0.01	523
H073164		1.98	0.2	4	29.3	1.4	0.32	58.5	0.05	4.3	0.006	0.72	0.7	820	0.01	800
H073165		1.06	0.2	6	51.5	1.5	0.41	56.4	0.07	2.2	0.005	2.06	<0.5	3750	0.01	527
H073166		0.83	0.2	5	93.3	1.8	0.39	49.8	0.08	2.7	<0.005	3.84	<0.5	3200	0.01	255
H073167		2.87	0.2	7	51.5	1.6	0.50	65.6	0.06	3.0	<0.005	1.30	1.0	4620	0.01	589
H073168		1.38	0.5	5	38.1	2.5	0.39	56.4	<0.05	2.6	0.006	1.06	0.5	90.7	0.02	629
H073169		10.75	48.0	161	38.1	148.0	8.53	19.65	0.19	0.6	0.068	0.35	4.4	920	3.55	1440
H073170		11.25	43.6	147	66.9	109.0	8.00	19.40	0.14	0.8	0.066	0.44	4.8	480	3.80	1340
H073171		1.07	0.5	5	31.2	3.2	0.67	61.8	<0.05	6.1	0.005	0.65	<0.5	44.2	0.02	1700
H073172		9.40	45.6	154	12.80	368	8.51	17.95	0.15	0.5	0.072	0.26	3.7	311	3.52	1330

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1
		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
H073133		0.14	3.00	57.5	1.3	60	11.5	710	<0.002	0.01	0.06	0.1	1	18.5	5.3	>100
H073134		0.12	1.70	46.7	0.7	100	17.3	2240	<0.002	<0.01	0.05	0.2	1	23.6	12.5	56.9
H073135		0.15	3.15	58.3	0.6	130	11.7	1980	<0.002	0.01	<0.05	0.1	1	12.7	11.8	>100
H073136		0.08	4.93	63.4	0.8	70	6.6	630	<0.002	<0.01	<0.05	0.1	1	10.3	10.7	>100
H073137		0.62	1.37	3.0	105.5	330	2.2	37.1	<0.002	0.08	0.09	41.2	2	0.8	133.5	0.62
H073138		2.53	2.90	5.5	1.3	80	15.7	78.3	<0.002	0.01	<0.05	1.9	1	1.1	87.7	0.83
H073139		2.07	2.91	5.8	18.1	160	14.9	74.7	<0.002	0.02	0.06	2.7	1	1.3	140.0	0.72
H073140		6.21	3.07	5.5	0.8	80	18.2	59.6	<0.002	0.05	0.06	1.8	1	1.1	120.5	0.62
H073141		27.2	3.04	5.5	1.1	70	17.8	54.4	0.002	0.03	0.07	1.8	1	1.1	120.0	0.69
H073142		12.35	3.01	5.3	1.1	80	18.1	57.1	<0.002	0.05	0.07	1.6	1	1.0	116.5	0.62
H073143		6.23	3.28	5.7	1.1	90	17.4	59.6	<0.002	0.02	0.07	1.8	1	1.2	106.5	0.68
H073144		3.24	3.33	6.0	0.9	80	20.3	70.4	<0.002	0.04	0.09	1.9	1	1.2	129.0	0.69
H073145		33.2	3.17	5.8	0.9	80	18.0	78.4	<0.002	0.08	0.10	1.9	1	1.3	162.0	0.66
H073146		1.72	2.78	6.1	37.9	350	17.2	201	<0.002	0.02	0.09	4.6	1	1.6	209	0.79
H073147		3.11	3.21	6.2	1.0	100	19.6	159.0	<0.002	0.03	0.10	1.9	1	1.5	156.0	12.10
H073148		0.22	3.76	22.7	1.2	120	15.4	470	<0.002	0.06	0.09	1.7	1	4.6	133.5	>100
H073149		0.09	4.42	52.3	0.5	130	18.0	2130	<0.002	<0.01	<0.05	0.4	1	21.2	20.5	100.0
H073150		0.14	2.42	3.4	1.9	280	34.2	121.0	<0.002	0.01	<0.05	3.3	1	0.7	229	0.77
H073151		0.12	3.97	66.0	0.6	70	14.1	2030	<0.002	<0.01	0.05	0.7	1	30.3	16.1	>100
H073152		0.08	3.75	82.9	0.6	70	12.1	1600	<0.002	<0.01	0.05	0.6	1	19.8	13.5	>100
H073153		0.15	2.23	69.4	2.2	50	19.4	2460	<0.002	<0.01	0.07	1.1	1	50.3	47.0	>100
H073154		0.08	4.91	129.5	0.6	80	11.7	1370	<0.002	<0.01	0.08	0.5	1	28.1	14.7	>100
H073155		0.09	5.40	61.1	0.8	100	6.6	670	<0.002	<0.01	0.06	0.2	1	15.6	13.2	>100
H073156		2.07	1.27	3.3	103.0	340	2.5	273	<0.002	0.07	0.10	39.6	2	1.6	114.0	1.31
H073157		0.58	1.74	3.5	99.1	360	4.6	38.9	<0.002	0.05	0.10	43.3	2	1.1	104.0	0.59
H073158		12.75	4.07	3.5	12.3	100	6.8	11.8	<0.002	0.10	0.07	5.5	2	0.4	60.8	0.77
H073159		0.41	1.56	3.3	104.5	360	3.0	11.7	<0.002	0.10	0.12	44.6	3	0.9	137.5	0.38
H073160		1.37	1.57	3.7	91.1	310	3.3	102.0	<0.002	0.07	0.10	34.9	2	1.1	95.1	1.63
H073161		0.40	4.20	45.8	0.9	210	10.8	1420	<0.002	<0.01	0.06	0.2	1	11.7	7.5	>100
H073162		0.07	4.45	99.2	1.0	70	7.6	870	<0.002	0.02	0.07	0.2	1	18.8	4.8	>100
H073163		0.23	5.21	98.4	0.6	100	7.7	1070	<0.002	<0.01	0.08	0.2	1	13.9	6.5	>100
H073164		2.45	5.13	76.6	0.5	120	5.5	490	<0.002	<0.01	0.08	0.2	1	12.6	4.5	>100
H073165		0.12	3.23	56.5	0.5	110	13.4	1230	<0.002	<0.01	0.11	0.2	1	12.4	4.2	>100
H073166		0.10	2.01	57.8	0.6	100	22.7	2100	<0.002	<0.01	0.15	0.2	1	11.5	6.2	100.0
H073167		0.11	2.97	67.9	0.6	90	9.5	880	<0.002	<0.01	0.11	0.2	1	22.2	3.3	>100
H073168		0.13	5.25	56.2	1.3	130	6.5	640	<0.002	<0.01	0.06	0.4	1	13.0	8.4	>100
H073169		0.44	1.19	3.4	113.5	370	2.3	166.0	0.002	0.07	0.13	44.4	2	1.0	111.5	0.41
H073170		4.78	1.27	3.4	103.5	370	7.2	128.5	0.004	0.09	0.10	38.5	2	1.1	122.0	0.37
H073171		0.17	4.91	79.5	1.2	130	8.0	348	<0.002	<0.01	0.07	0.3	1	6.3	11.9	>100
H073172		22.1	1.28	2.9	110.5	360	3.9	57.0	0.011	0.15	0.10	38.1	2	0.9	97.6	0.40

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Te ppm 0.05	Th ppm 0.2	Ti % 0.005	Ti ppm 0.02	U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Ba ppm 0.5	Ce ppm 0.5	Co ppm 0.5	Cr ppm 10
H073133		0.06	3.2	<0.005	5.55	6.7	1	0.6	4.9	96	23.3	<1	6.8	1.1	<0.5	10
H073134		<0.05	2.7	<0.005	22.9	4.1	1	0.6	2.0	33	13.6					
H073135		0.08	2.8	<0.005	15.80	5.1	<1	0.7	2.1	29	13.2	<1	34.3	1.0	<0.5	10
H073136		0.05	3.0	<0.005	4.77	3.0	1	0.6	1.8	10	11.3	<1	26.3	1.3	<0.5	<10
H073137		<0.05	0.3	0.579	0.33	0.1	284	0.7	24.4	103	9.2					
H073138		<0.05	11.9	0.050	0.60	1.9	4	0.4	6.7	14	79.1					
H073139		<0.05	11.9	0.054	0.56	2.2	8	0.6	8.2	19	81.8					
H073140		<0.05	12.1	0.041	0.40	2.6	2	0.5	7.9	19	75.7					
H073141		<0.05	11.3	0.037	0.39	2.7	3	0.4	7.1	13	72.8					
H073142		<0.05	11.2	0.035	0.40	3.1	3	0.3	7.2	13	69.0					
H073143		<0.05	11.5	0.038	0.45	2.4	2	0.4	8.0	14	75.3					
H073144		<0.05	11.9	0.037	0.52	2.8	2	0.4	8.5	13	80.1					
H073145		<0.05	11.6	0.044	0.60	2.7	3	0.4	9.1	11	79.6					
H073146		<0.05	14.2	0.086	2.16	2.6	16	0.6	10.4	27	100.0					
H073147		<0.05	12.6	0.050	1.56	2.8	2	0.5	7.0	18	80.9					
H073148		<0.05	11.6	0.048	3.57	7.2	4	1.0	7.2	15	73.4	<1	308	45.0	1.3	10
H073149		<0.05	3.5	0.007	18.05	1.9	4	1.5	2.4	8	12.7	<1	84.1	3.3	<0.5	<10
H073150		<0.05	32.6	0.120	0.80	2.4	14	0.2	4.7	33	192.0					
H073151		<0.05	4.1	0.011	14.50	2.3	7	2.1	3.1	22	21.4	<1	57.7	2.5	<0.5	<10
H073152		<0.05	3.6	0.008	11.95	2.6	4	1.4	2.8	16	13.8	<1	62.5	1.9	<0.5	10
H073153		<0.05	3.8	0.012	17.80	1.5	9	3.1	0.8	92	6.1	<1	143.5	3.9	<0.5	<10
H073154		0.05	6.3	0.008	9.31	3.2	4	2.2	2.8	38	10.2	<1	50.7	2.3	<0.5	<10
H073155		<0.05	4.0	<0.005	4.36	5.5	2	1.1	2.9	21	13.7	<1	8.8	1.4	<0.5	<10
H073156		<0.05	0.4	0.582	2.84	0.2	287	0.8	23.4	107	11.3					
H073157		<0.05	0.5	0.628	0.29	0.2	305	1.1	25.9	107	16.6					
H073158		0.05	6.8	0.064	0.11	1.8	30	0.3	9.6	12	57.1					
H073159		<0.05	0.5	0.583	0.11	0.4	287	0.7	26.5	99	11.2					
H073160		<0.05	1.2	0.494	1.34	0.9	244	0.6	24.4	96	28.8					
H073161		0.05	3.3	<0.005	10.30	4.3	2	0.8	2.9	59	12.0	<1	20.3	1.3	<0.5	<10
H073162		<0.05	7.7	<0.005	5.20	9.0	2	1.5	8.4	299	37.1	<1	6.3	3.8	<0.5	10
H073163		<0.05	6.0	<0.005	7.33	6.7	1	1.3	6.0	20	26.6	<1	9.4	2.4	<0.5	<10
H073164		<0.05	4.5	<0.005	3.04	8.5	1	0.9	6.1	29	24.0	<1	7.0	2.4	<0.5	<10
H073165		<0.05	3.4	<0.005	8.71	3.8	<1	0.7	3.5	33	10.6	<1	7.7	1.2	<0.5	10
H073166		<0.05	3.7	<0.005	20.5	8.9	1	0.8	1.5	36	9.5	<1	15.1	1.1	<0.5	10
H073167		<0.05	6.4	<0.005	6.07	9.5	1	1.1	4.5	70	14.9	<1	4.9	2.2	<0.5	10
H073168		<0.05	3.8	0.006	4.04	5.4	3	1.1	4.0	67	11.7	<1	11.0	1.3	<0.5	10
H073169		<0.05	0.5	0.600	1.65	0.2	294	0.7	24.3	101	11.4					
H073170		<0.05	0.7	0.549	1.72	0.2	270	0.7	21.4	116	23.9					
H073171		<0.05	4.7	<0.005	2.12	7.2	2	1.0	3.6	15	25.5	<1	14.2	1.0	<0.5	<10
H073172		0.06	0.4	0.568	0.59	0.1	283	92.5	22.0	111	10.9					

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 THUNDER BAY ON P7B 1B9

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Cs ppm 0.01	Cu ppm 5	Dy ppm 0.05	Er ppm 0.03	Eu ppm 0.03	Ga ppm 0.1	Gd ppm 0.05	Hf ppm 0.2	Ho ppm 0.01	La ppm 0.5	Lu ppm 0.01	Mo ppm 2	Nb ppm 0.2	Nd ppm 0.1	Ni ppm 5
H073133		38.2	<5	1.05	0.19	0.03	72.5	1.22	3.9	0.09	0.5	0.03	<2	83.5	0.6	<5
H073134																
H073135		71.3	<5	0.55	0.07	<0.03	53.9	0.96	3.0	0.04	<0.5	0.01	<2	68.0	0.5	<5
H073136		20.6	9	0.51	0.05	<0.03	50.1	1.16	2.3	0.03	0.5	<0.01	<2	71.9	0.7	<5
H073137																
H073138																
H073139																
H073140																
H073141																
H073142																
H073143																
H073144																
H073145																
H073146																
H073147																
H073148		86.2	21	1.38	0.70	0.50	22.0	1.84	3.4	0.24	26.1	0.12	<2	22.2	15.4	<5
H073149		113.5	<5	0.52	0.13	0.11	69.5	0.65	2.3	0.06	1.3	0.02	<2	57.0	1.6	<5
H073150																
H073151		150.0	<5	0.68	0.12	0.05	78.3	1.16	2.9	0.06	1.2	0.02	<2	61.4	1.1	<5
H073152		127.0	<5	0.67	0.12	0.04	71.5	0.97	2.6	0.06	0.9	0.02	<2	85.2	0.8	<5
H073153		168.0	<5	0.29	0.05	0.05	94.9	1.17	0.5	0.02	1.9	0.01	<2	68.3	1.6	<5
H073154		97.6	<5	0.70	0.17	0.06	85.1	1.17	2.5	0.07	1.0	0.02	<2	144.5	1.1	<5
H073155		40.3	<5	0.47	0.07	0.03	66.3	1.01	2.8	0.03	0.6	0.01	<2	59.2	0.7	<5
H073156																
H073157																
H073158																
H073159																
H073160		48.2	<5	0.66	0.10	0.03	54.7	1.07	2.6	0.04	0.5	0.01	<2	44.3	0.7	<5
H073161		43.4	<5	1.77	0.23	0.04	67.3	3.14	6.1	0.14	1.4	0.03	<2	135.5	1.9	<5
H073162																
H073163		50.0	<5	1.23	0.25	0.05	65.1	2.00	4.7	0.11	0.9	0.04	<2	100.0	1.3	<5
H073164		30.7	<5	1.40	0.22	0.03	65.8	2.02	4.5	0.12	0.9	0.03	6	72.7	1.2	<5
H073165		52.3	<5	0.90	0.10	0.04	60.8	1.47	2.5	0.06	0.5	0.01	<2	53.5	0.6	<5
H073166		88.8	<5	0.39	0.05	0.03	52.5	0.82	3.3	0.03	0.5	<0.01	<2	59.1	0.5	<5
H073167		48.3	<5	1.15	0.10	0.03	67.3	2.31	2.3	0.08	0.9	0.01	<2	74.6	1.1	<5
H073168		36.2	<5	0.85	0.10	0.04	60.1	1.41	2.5	0.06	0.5	0.01	2	60.8	0.7	<5
H073169																
H073170		27.0	<5	0.72	0.09	0.04	57.7	1.23	6.2	0.04	<0.5	0.01	<2	67.3	0.6	<5
H073171																
H073172																

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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Pb ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm
H073133		8	0.17	650	1.02	18	6.5	153.5	0.29	3.61	3.2	0.03	6.72	<5	1	7.0
H073134																
H073135		10	0.15	1730	0.86	12	13.8	176.0	0.17	3.25	8.7	0.01	5.15	<5	1	3.1
H073136		6	0.19	626	1.11	10	13.3	145.5	0.19	3.49	2.1	0.01	2.69	<5	1	2.4
H073137																
H073138																
H073139																
H073140																
H073141																
H073142																
H073143																
H073144																
H073145																
H073146																
H073147																
H073148		11	4.68	453	2.54	4	140.0	285	0.26	10.85	2.0	0.11	6.00	7	1	7.9
H073149		23	0.43	2200	0.70	38	24.4	108.0	0.15	3.61	10.1	0.02	1.74	6	2	2.9
H073150																
H073151		13	0.33	1700	1.21	28	18.1	116.5	0.22	5.17	8.6	0.02	2.35	8	2	4.4
H073152		11	0.21	1365	0.98	19	16.2	154.0	0.19	4.19	6.7	0.03	3.18	5	2	4.3
H073153		15	0.47	2010	1.55	45	27.6	139.5	0.13	5.63	10.2	0.01	1.17	9	3	1.2
H073154		11	0.29	1145	1.22	27	17.3	645	0.22	7.47	5.2	0.03	3.88	5	3	4.7
H073155		5	0.20	622	0.96	14	14.0	186.5	0.17	3.82	2.1	0.01	4.70	<5	2	2.9
H073156																
H073157																
H073158																
H073159																
H073160		10	0.17	1185	0.84	11	8.2	155.0	0.21	3.00	5.9	0.02	3.61	<5	1	3.4
H073161		5	0.53	726	2.87	18	5.7	155.5	0.53	8.19	2.9	0.04	8.33	<5	2	10.8
H073162																
H073163		7	0.35	882	1.71	13	7.7	205	0.36	6.29	4.1	0.03	6.09	<5	2	7.7
H073164		5	0.34	486	1.73	13	6.2	204	0.39	5.57	1.7	0.04	8.79	<5	1	9.0
H073165		12	0.17	1070	1.02	13	5.3	127.5	0.29	3.71	5.8	0.02	3.91	<5	1	5.3
H073166		18	0.15	2200	0.76	12	7.1	111.0	0.13	3.95	13.7	0.01	7.96	<5	1	2.2
H073167		7	0.30	726	1.88	21	3.8	130.0	0.38	6.14	3.0	0.02	7.93	<5	1	6.2
H073168		5	0.19	600	1.22	13	10.0	146.0	0.27	3.64	2.0	0.01	4.96	<5	2	4.7
H073169																
H073170		5	0.16	331	0.94	6	12.6	199.0	0.24	4.02	0.9	0.01	5.78	<5	1	3.8
H073171																
H073172																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		Yb ppm	Zn ppm	Zr ppm	Li %
H073133		0.21	94	17	
H073134					
H073135		0.07	30	9	
H073136		0.04	11	6	
H073137					
H073138					
H073139					
H073140					
H073141					
H073142					
H073143					
H073144					
H073145					
H073146					
H073147					
H073148		0.72	16	71	
H073149		0.16	10	9	
H073150					
H073151		0.16	22	11	
H073152		0.15	18	9	
H073153		0.04	80	<2	
H073154		0.18	40	7	
H073155		0.07	21	8	
H073156					
H073157					
H073158					
H073159					
H073160					
H073161		0.07	58	7	
H073162		0.30	279	38	
H073163		0.25	21	23	
H073164		0.27	35	21	
H073165		0.10	34	7	
H073166		0.05	35	9	
H073167		0.09	63	10	
H073168		0.10	65	9	
H073169					
H073170					
H073171		0.07	18	23	
H073172					

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEF- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H073173		3.22	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
H073174		1.30														
H073175		0.02														
H073176		4.39														
H073177		3.18														
H073178		3.42														
H073179		2.85														
H073180		3.41														
H073181		3.16														
H073182		3.25														
H073183		3.24														
H073184		3.05														
H073185		3.09														
H073186		3.40														
H073187		3.21														
H073188		2.95														
H073189		3.32														
H073190		3.13														
H073191		3.23														
H073192		1.42														
H073193		0.64														
H073194		1.32														
H073195		1.52														
H073196		1.89														
H073197		1.39														
H073198		2.07														
H073199		3.32														
H073200		0.54														
H073201		2.86														
H073202		2.57														
H073203		0.87														
H073204		3.22														
H073205		3.37														
H073206		3.38														
H073207		3.55														
H073208		3.14														
H073209		3.15														
H073210		3.38														
H073211		3.28														
H073212		0.63														

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
H073173 H073174 H073175 H073176 H073177		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
H073178 H073179 H073180 H073181 H073182																
H073183 H073184 H073185 H073186 H073187																
H073188 H073189 H073190 H073191 H073192																
H073193 H073194 H073195 H073196 H073197																
H073198 H073199 H073200 H073201 H073202																
H073203 H073204 H073205 H073206 H073207																
H073208 H073209 H073210 H073211 H073212																

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
H073173		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
H073174																
H073175																
H073176																
H073177																
H073178																
H073179																
H073180																
H073181																
H073182																
H073183																
H073184																
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H073200																
H073201																
H073202																
H073203																
H073204																
H073205																
H073206																
H073207																
H073208																
H073209																
H073210																
H073211																
H073212																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm
H073173		0.02	0.05	1	0.05	0.05	2	0.5	0.17	7.42	<0.2	40	1.16	0.51	6.68	0.19
H073174									0.05	6.80	<0.2	10	68.7	3.80	0.47	0.06
H073175									0.23	8.19	3.8	<10	520	0.70	0.41	0.05
H073176									0.26	6.65	<0.2	40	1.47	1.18	6.30	0.23
H073177									0.20	5.92	<0.2	370	1.37	0.32	1.28	0.10
H073178									0.07	6.51	0.2	420	1.40	0.35	1.41	0.04
H073179									0.06	6.46	0.8	390	1.13	0.15	1.39	0.06
H073180									0.07	6.50	0.2	410	1.10	0.80	1.37	0.05
H073181									0.10	6.54	0.7	480	1.57	0.80	1.40	0.05
H073182									0.07	6.09	0.6	450	1.69	0.27	1.31	0.04
H073183									0.08	6.32	0.7	440	1.23	0.37	1.20	0.07
H073184									0.13	6.51	0.3	480	1.52	1.62	1.06	0.18
H073185									0.07	6.40	0.8	490	1.71	0.16	0.96	0.08
H073186									0.09	6.15	<0.2	470	1.50	0.19	1.13	0.12
H073187									0.06	6.24	0.2	370	1.51	4.91	1.33	0.06
H073188									0.22	6.33	0.5	460	1.62	0.19	1.09	0.13
H073189									0.31	6.44	<0.2	420	1.86	2.11	1.26	0.31
H073190									0.36	6.80	0.7	460	2.42	1.09	1.57	0.90
H073191									0.40	6.43	0.6	530	2.96	0.65	1.34	1.06
H073192									0.17	6.28	<0.2	550	2.40	0.47	1.36	0.63
H073193									0.53	7.48	1.0	320	3.50	3.13	5.22	2.10
H073194									0.12	6.77	0.2	40	107.5	2.34	0.33	<0.02
H073195									0.07	6.56	0.8	90	103.5	3.12	0.16	0.07
H073196									0.02	6.43	0.8	170	72.2	22.0	0.11	0.06
H073197									0.15	6.39	<0.2	80	107.0	39.4	0.11	0.36
H073198									0.07	6.63	<0.2	420	11.70	3.96	1.22	0.05
H073199									0.10	6.21	0.6	460	1.71	0.24	1.36	0.10
H073200									0.06	6.52	0.9	920	0.90	0.04	0.92	0.03
H073201									0.09	6.21	<0.2	530	1.36	0.12	1.28	0.05
H073202									0.10	6.01	0.3	410	2.17	0.51	1.12	0.10
H073203									<0.01	6.17	0.7	30	178.0	7.26	0.17	0.19
H073204									0.25	5.62	0.9	290	1.87	17.35	1.14	<0.02
H073205									0.07	5.53	0.9	220	2.48	0.98	3.36	0.15
H073206									0.03	6.49	<0.2	320	6.90	0.28	1.23	0.02
H073207									0.17	6.19	<0.2	460	2.34	1.70	1.22	<0.02
H073208									0.08	6.08	<0.2	510	1.62	0.22	1.15	0.04
H073209									0.11	6.63	<0.2	590	2.75	0.29	1.25	0.02
H073210									0.07	6.17	<0.2	550	2.00	0.20	1.18	0.05
H073211									0.06	6.99	<0.2	560	5.19	0.19	1.33	0.05
H073212									0.02	1.87	<0.2	60	2.01	0.07	0.45	0.02

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TO: FLADGATE EXPLORATION CONSULTING  
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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Method Analyte Units LOR	ME-MS61 Cr ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm
H073173	10.30	44.3	174	19.50	120.0	8.96	19.35	0.13	1.1	0.070	0.32	3.9	364	4.21	1540
H073174	0.75	0.6	4	19.60	6.2	0.30	67.6	0.05	2.5	-0.005	0.24	<0.5	36.6	0.03	678
H073175	0.24	1.6	177	53.2	6.5	0.60	46.8	0.08	1.6	<-0.005	0.20	<0.5	>10000	0.03	1040
H073176	13.15	44.3	81	36.8	311	9.39	20.9	0.20	1.4	0.086	0.36	5.1	315	3.22	1440
H073177	69.7	2.2	10	4.60	26.3	1.26	16.65	0.11	2.9	0.012	1.49	35.8	104.5	0.22	242
H073178	79.2	2.5	7	7.13	20.2	1.45	18.55	0.16	3.3	0.016	1.52	41.5	112.5	0.20	267
H073179	78.8	1.9	8	7.62	9.9	1.38	19.20	0.15	3.4	0.016	1.55	40.3	121.0	0.20	261
H073180	74.8	2.0	6	6.14	13.3	1.40	17.60	0.15	3.3	0.014	1.58	40.6	127.5	0.22	262
H073181	75.7	2.1	9	6.70	34.1	1.37	20.7	0.15	3.3	0.018	1.84	39.1	133.5	0.20	250
H073182	74.0	1.8	7	6.43	24.0	1.33	17.50	0.12	3.0	0.014	1.62	39.3	123.5	0.17	238
H073183	78.6	2.4	8	4.42	30.6	1.40	19.10	0.17	3.3	0.015	1.70	42.4	148.0	0.24	232
H073184	76.8	2.6	9	4.40	36.4	1.41	19.65	0.17	3.2	0.016	1.79	41.5	156.5	0.25	229
H073185	78.4	1.9	6	4.89	16.7	1.29	18.10	0.14	3.0	0.015	2.03	42.1	191.5	0.26	221
H073186	74.9	1.9	6	3.09	27.5	1.28	17.35	0.14	2.9	0.013	1.55	40.5	144.0	0.21	229
H073187	66.9	2.0	7	5.77	22.7	1.38	17.30	0.14	2.8	0.015	1.77	35.1	182.5	0.24	258
H073188	74.4	2.0	8	8.74	12.5	1.41	19.15	0.15	3.1	0.017	2.18	39.1	206	0.24	255
H073189	66.4	2.3	7	7.10	94.7	1.38	18.50	0.14	3.0	0.041	1.42	34.6	185.5	0.23	264
H073190	88.8	3.1	6	5.08	136.0	1.48	21.1	0.17	3.5	0.026	1.85	34.7	228	0.20	299
H073191	67.7	2.2	7	10.10	155.0	1.28	19.90	0.16	3.3	0.023	1.82	34.8	231	0.20	240
H073192	73.0	2.5	8	62.5	51.0	1.41	18.85	0.14	3.3	0.025	1.34	38.5	282	0.23	276
H073193	23.7	44.3	132	459	45.7	10.00	23.3	0.24	0.4	0.095	3.31	11.8	3150	3.55	1620
H073194	2.51	0.5	6	66.6	2.8	0.50	71.1	0.09	6.8	<-0.005	2.74	1.1	62.7	0.03	290
H073195	3.78	0.6	5	92.4	6.5	0.43	61.0	0.08	6.4	0.005	3.57	1.8	1070	0.06	750
H073196	3.89	0.4	6	56.1	3.0	0.59	77.6	0.07	3.8	<-0.005	1.16	1.5	8660	0.03	1020
H073197	5.21	0.3	7	37.7	3.3	0.49	76.6	0.08	2.5	0.012	0.94	1.9	7010	0.03	605
H073198	64.5	1.9	6	180.5	28.2	1.34	24.6	0.14	3.3	0.011	1.52	33.3	600	0.19	363
H073199	74.1	2.1	8	57.6	10.4	1.23	17.75	0.16	3.2	0.012	1.46	39.2	365	0.18	247
H073200	119.5	2.7	9	2.46	5.0	1.30	19.10	0.23	6.9	0.013	4.11	63.7	23.6	0.22	183
H073201	82.9	1.4	6	25.2	14.4	1.14	17.40	0.14	2.7	0.010	1.24	32.9	328	0.16	196
H073202	64.2	2.6	6	89.1	39.9	1.35	16.90	0.15	3.1	0.011	1.57	34.3	368	0.20	228
H073203	2.26	0.2	3	77.5	1.2	0.24	55.3	0.07	7.5	0.008	2.64	1.0	47.7	<-0.01	810
H073204	62.5	1.9	8	77.2	34.9	1.15	15.25	0.09	2.6	0.013	1.79	33.4	374	0.24	199
H073205	65.9	2.8	6	57.3	18.1	1.28	15.40	<-0.05	2.3	0.019	1.62	37.2	343	0.58	616
H073206	57.4	3.1	4	101.5	3.5	1.61	19.75	0.06	2.6	0.014	3.66	33.5	710	0.75	374
H073207	55.6	1.9	4	125	28.2	1.25	17.05	0.05	2.8	0.014	1.96	31.2	338	0.27	214
H073208	53.4	1.4	7	9.23	33.0	1.15	16.95	0.05	2.9	0.012	1.54	29.9	216	0.11	187
H073209	57.7	1.8	7	13.95	57.6	1.36	20.0	0.06	2.9	0.016	1.77	31.4	251	0.14	232
H073210	50.3	1.6	7	11.55	30.0	1.27	19.05	0.06	2.7	0.014	1.63	27.7	256	0.13	249
H073211	58.7	1.7	6	14.05	28.6	1.25	22.7	0.07	3.3	0.014	1.58	31.4	254	0.14	233
H073212	13.10	0.9	7	18.90	7.3	0.51	5.58	<-0.05	0.7	<-0.005	0.19	7.5	73.5	0.04	77

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



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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
H073173		0.38	1.56	3.5	82.0	380	1.6	84.4	<0.002	0.04	0.10	50.2	2	1.0	106.0	0.49
H073174		0.15	6.02	57.4	1.0	130	4.0	195.5	<0.002	0.01	0.06	0.3	1	5.6	19.5	>100
H073175		0.35	0.58	113.0	4.0	6790	4.4	49.9	<0.002	0.02	0.79	0.9	2	103.0	13.5	59.8
H073176		4.54	1.16	4.2	52.6	490	6.1	119.5	0.003	0.36	0.09	45.2	3	1.5	91.5	0.43
H073177		24.1	2.74	4.3	1.2	130	18.9	59.6	0.004	0.04	0.07	2.7	1	1.7	149.0	0.95
H073178		22.4	2.95	4.5	1.2	110	14.5	66.4	0.004	0.04	0.08	3.2	1	1.5	180.0	0.51
H073179		1.00	2.93	4.7	1.2	100	13.7	69.8	<0.002	0.03	0.08	3.3	1	1.4	160.5	0.50
H073180		3.98	2.91	4.4	1.0	100	13.5	65.5	<0.002	0.03	0.07	3.0	1	1.4	161.5	0.45
H073181		72.5	3.00	5.4	1.6	120	15.7	70.8	0.003	0.10	0.08	3.4	1	2.3	171.0	0.59
H073182		23.2	2.84	4.5	1.0	90	14.4	65.2	0.002	0.07	0.06	2.9	1	1.8	179.0	0.47
H073183		1.61	2.93	4.8	1.2	100	18.6	72.3	<0.002	0.08	0.06	3.2	1	1.7	145.0	0.49
H073184		35.8	3.03	5.3	1.2	90	19.6	74.8	<0.002	0.08	0.06	3.1	1	1.7	164.5	0.81
H073185		6.94	2.72	4.8	1.2	100	16.7	79.0	<0.002	0.02	0.05	3.0	1	2.1	146.5	0.61
H073186		15.60	2.86	5.0	1.0	100	23.9	60.2	<0.002	0.06	0.05	2.8	1	1.7	179.0	0.67
H073187		51.2	2.70	4.6	1.1	110	14.6	70.4	0.002	0.07	0.05	2.9	1	1.5	133.5	0.51
H073188		0.89	2.69	5.0	1.2	90	18.0	83.5	<0.002	0.03	0.05	3.2	1	2.0	138.0	0.50
H073189		88.1	3.13	4.6	1.3	110	24.3	57.0	0.010	0.10	0.08	3.1	1	2.2	139.0	0.44
H073190		11.20	3.09	12.2	1.1	120	61.5	68.6	<0.002	0.24	0.07	3.3	2	7.6	125.0	1.53
H073191		3.32	2.96	5.5	1.3	110	46.9	63.4	<0.002	0.19	0.07	3.1	1	4.1	176.5	0.53
H073192		196.0	2.79	5.3	2.2	110	37.5	182.5	0.004	0.13	0.06	3.6	1	2.4	161.5	0.58
H073193		4.64	0.03	5.6	76.8	890	138.0	950	<0.002	0.33	0.27	45.9	3	2.2	215	0.42
H073194		0.69	3.91	64.9	1.1	160	10.3	1230	<0.002	<0.01	0.10	0.5	1	29.6	28.9	>100
H073195		0.19	2.93	78.2	0.8	140	13.6	1920	<0.002	<0.01	0.08	0.3	1	16.4	12.8	>100
H073196		0.20	2.12	156.0	0.6	70	7.7	660	<0.002	<0.01	0.07	0.3	1	17.5	9.9	>100
H073197		0.30	2.91	116.0	0.5	60	12.5	540	<0.002	0.01	0.05	0.3	1	21.0	7.5	>100
H073198		1.58	2.82	9.7	1.1	180	12.5	820	<0.002	0.01	<0.05	3.0	1	12.4	144.0	25.4
H073199		61.5	2.93	5.0	1.0	90	15.3	99.2	0.004	0.05	0.07	2.8	1	1.7	159.0	0.78
H073200		0.49	2.29	3.2	2.0	300	35.0	137.5	<0.002	0.01	<0.05	3.5	1	0.7	232	0.31
H073201		8.53	3.04	4.6	1.2	80	15.4	50.7	<0.002	0.07	0.07	2.6	1	1.3	193.5	0.54
H073202		4.69	2.71	5.6	0.9	80	15.8	215	<0.002	0.15	<0.05	2.4	1	1.8	141.0	0.88
H073203		0.63	4.31	69.2	0.4	180	10.2	1350	<0.002	<0.01	0.07	0.2	1	9.8	9.9	>100
H073204		1690	2.02	4.3	0.9	70	16.7	167.0	0.093	0.23	0.05	2.2	2	1.4	96.7	0.83
H073205		6.78	1.28	4.0	3.6	100	16.3	127.0	<0.002	0.06	0.08	2.0	2	2.4	87.1	0.64
H073206		5.26	1.02	7.5	3.1	90	10.7	338	<0.002	0.01	0.05	2.1	1	2.8	60.4	10.85
H073207		160.5	2.47	5.1	0.8	110	13.8	110.5	0.012	0.09	0.05	2.2	1	2.1	152.5	0.59
H073208		36.6	2.94	5.2	0.6	70	15.2	65.7	0.003	0.09	0.07	2.0	1	1.9	181.0	0.55
H073209		182.5	3.30	6.4	0.8	80	18.1	84.2	0.019	0.17	0.05	2.5	2	3.2	198.5	0.68
H073210		38.7	2.98	6.1	0.8	70	14.6	90.7	0.002	0.09	0.05	2.2	1	2.9	170.0	0.90
H073211		86.2	3.63	6.6	0.7	60	16.3	97.9	0.002	0.10	0.05	2.4	2	5.4	176.5	0.70
H073212		0.51	0.92	2.4	0.8	30	4.2	66.7	<0.002	0.02	<0.05	0.6	2	1.4	53.5	3.99

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





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To: FLADGATE EXPLORATION CONSULTING  
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 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Finalized Date: 4- MAR- 2011  
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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME-MSG1 Te ppm 0.05	ME-MSG1 Th ppm 0.2	ME-MSG1 Ti % 0.005	ME-MSG1 Tl ppm 0.02	ME-MSG1 U ppm 0.1	ME-MSG1 V ppm 1	ME-MSG1 W ppm 0.1	ME-MSG1 Y ppm 0.1	ME-MSG1 Zn ppm 2	ME-MSG1 Zr ppm 0.5	ME-MSG1 Ag ppm 1	ME-MSG1 Ba ppm 0.5	ME-MSG1 Ce ppm 0.5	ME-MSG1 Co ppm 0.5	ME-MSG1 Cr ppm 10
H073173		<0.05	0.5	0.626	0.71	0.2	319	0.7	26.1	91	33.2					
H073174		<0.05	2.6	<0.005	1.21	4.3	2	0.8	2.2	15	10.1	<1	6.2	0.8	<0.5	<10
H073175		<0.05	0.2	0.037	0.93	1.0	8	7.8	0.4	60	19.7					
H073176		0.05	0.6	0.739	1.10	0.2	342	0.8	29.9	99	42.5					
H073177		<0.05	11.5	0.087	0.40	1.8	9	0.4	6.6	37	96.3					
H073178		<0.05	13.1	0.091	0.49	2.2	8	0.4	7.2	29	106.0					
H073179		<0.05	12.1	0.094	0.52	2.0	8	0.4	7.2	27	111.0					
H073180		<0.05	11.7	0.092	0.49	2.2	7	0.4	7.1	29	105.0					
H073181		<0.05	12.1	0.096	0.52	2.4	10	0.5	7.8	26	107.0					
H073182		0.08	11.6	0.087	0.48	2.4	8	0.4	7.5	24	97.9					
H073183		<0.05	13.1	0.086	0.53	2.8	7	0.5	7.9	28	103.5					
H073184		<0.05	11.9	0.087	0.49	2.7	8	0.5	7.6	45	101.5					
H073185		<0.05	12.8	0.083	0.52	1.9	8	0.7	7.0	33	93.3					
H073186		<0.05	12.8	0.083	0.41	1.9	7	0.5	7.5	45	92.7					
H073187		<0.05	11.6	0.086	0.50	2.1	7	0.5	7.1	36	89.8					
H073188		<0.05	13.0	0.086	0.55	2.0	8	1.9	7.6	47	94.8					
H073189		<0.05	12.8	0.087	0.38	2.2	10	0.8	8.4	83	97.2					
H073190		<0.05	14.7	0.162	0.46	3.2	19	0.7	10.7	136	106.5					
H073191		<0.05	13.4	0.095	0.42	2.1	15	0.6	8.5	94	108.0					
H073192		<0.05	14.4	0.104	1.77	2.5	16	0.8	8.4	135	101.5					
H073193		<0.05	1.0	1.145	9.47	0.3	342	1.3	32.1	889	6.9					
H073194		<0.05	4.6	0.011	8.29	8.6	3	1.2	3.5	34	35.5	<1	36.1	2.6	<0.5	<10
H073195		<0.05	7.6	<0.005	15.60	10.8	1	1.1	8.0	49	35.9	<1	90.3	5.1	0.6	10
H073196		0.05	6.2	<0.005	4.94	6.4	<1	1.3	5.8	47	22.4	<1	194.5	4.7	<0.5	10
H073197		<0.05	9.2	<0.005	3.74	7.0	<1	0.9	5.3	156	13.7	<1	93.8	7.1	<0.5	10
H073198		<0.05	8.9	0.091	6.93	2.1	7	1.2	6.2	37	100.0					
H073199		<0.05	11.8	0.084	0.97	2.4	7	0.3	6.5	34	97.7					
H073200		<0.05	40.2	0.094	0.93	3.5	15	0.1	4.9	30	225					
H073201		<0.05	12.0	0.077	0.41	1.9	6	0.3	6.2	20	89.2					
H073202		<0.05	11.2	0.079	2.41	2.6	9	0.4	6.7	26	99.0					
H073203		<0.05	4.4	<0.005	10.55	7.0	<1	0.7	3.3	63	28.6	<1	29.1	2.3	<0.5	<10
H073204		0.19	9.4	0.071	1.64	2.3	8	0.6	5.8	19	78.7					
H073205		<0.05	7.3	0.064	1.08	1.8	8	11.0	20.9	22	71.8					
H073206		<0.05	9.3	0.068	2.73	2.8	5	0.7	7.2	32	79.0					
H073207		<0.05	8.2	0.068	0.82	2.1	8	0.4	6.6	21	83.8					
H073208		<0.05	9.2	0.067	0.48	2.3	5	0.5	6.6	16	83.7					
H073209		<0.05	9.4	0.079	0.56	2.2	9	0.5	7.5	23	87.2					
H073210		<0.05	8.5	0.073	0.68	2.4	6	0.5	6.8	32	83.0					
H073211		<0.05	10.4	0.073	0.75	2.2	7	1.1	7.2	25	99.8					
H073212		<0.05	2.2	0.019	0.56	0.8	3	0.3	1.7	9	20.3					

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm
H073173 H073174 H073175 H073176 H073177		0.01	5	0.05	0.03	0.03	0.1	0.05	0.2	0.01	0.5	0.01	2	0.2	0.1	5
H073178 H073179 H073180 H073181 H073182		18.35	5	0.52	0.08	0.06	64.2	0.79	2.3	0.04	<0.5	0.01	<2	49.8	0.6	<5
H073183 H073184 H073185 H073186 H073187																
H073188 H073189 H073190 H073191 H073192																
H073193 H073194 H073195 H073196 H073197		57.3 87.8 58.1 38.2	<5 6 <5 <5	0.78 1.35 1.32 1.50	0.13 0.25 0.23 0.20	0.07 0.08 0.04 0.10	63.8 56.5 74.8 72.8	1.35 2.69 2.37 3.36	6.9 6.0 3.3 2.0	0.07 0.11 0.11 0.12	1.3 2.5 2.3 3.0	0.02 0.03 0.04 0.02	<2 2 2 2	54.5 74.8 143.0 108.0	1.1 2.5 2.3 3.5	<5 <5 <5 <5
H073198 H073199 H073200 H073201 H073202																
H073203 H073204 H073205 H073206 H073207		75.1	<5	0.62	0.09	0.05	52.1	1.25	5.7	0.04	1.2	0.01	2	65.7	1.0	<5
H073208 H073209 H073210 H073211 H073212																

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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Pb ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Tl ppm	Tm ppm	U ppm	V ppm	W ppm	Y ppm
H073173 H073174 H073175 H073176 H073177		<5	0.12	190.5	0.71	6	21.8	144.0	0.17	2.59	<0.5	0.02	3.86	<5	1	2.4
H073178 H073179 H073180 H073181 H073182																
H073183 H073184 H073185 H073186 H073187																
H073188 H073189 H073190 H073191 H073192																
H073193 H073194 H073195 H073196 H073197		9 12 6 11	0.31 0.72 0.66 1.00	951 1950 702 558	1.10 2.51 2.46 3.70	32 17 18 22	30.3 13.9 12.1 9.0	316 189.0 167.5 119.0	0.24 0.42 0.39 0.52	4.54 7.40 6.83 11.15	4.5 11.7 3.8 2.6	0.02 0.04 0.03 0.03	8.14 9.84 6.17 8.50	<5 <5 <5 <5	2 1 1 1	4.5 8.8 8.6 8.5
H073198 H073199 H073200 H073201 H073202																
H073203 H073204 H073205 H073206 H073207		10	0.29	1370	1.13	14	11.2	203	0.21	4.08	6.8	0.01	6.49	<5	1	3.6
H073208 H073209 H073210 H073211 H073212																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		Yb ppm	Zn ppm	Zr ppm	Li %
H073173 H073174 H073175 H073176 H073177		0.03	5	2	0.005
H073178 H073179 H073180 H073181 H073182		0.06	18	5	2.760
H073183 H073184 H073185 H073186 H073187					
H073188 H073189 H073190 H073191 H073192					
H073193 H073194 H073195 H073196 H073197		0.08 0.24 0.27 0.18	31 53 53 164	33 42 20 10	
H073198 H073199 H073200 H073201 H073202					
H073203 H073204 H073205 H073206 H073207		0.09	65	24	
H073208 H073209 H073210 H073211 H073212					

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
H073213		0.66														
H073214		0.93														
H073215		2.72														
H073216		3.31														
H073217		3.45														
H073218		4.01														
H073219		4.58														
H073220		4.61														
H073221		0.69														
H073222		1.48														
H073223		1.67														
H073224		1.73														
H073225		0.03														
H073226		1.59														
H073227		4.70														
H073228		2.09														
H073229		1.97														
H073230		3.03														
H073231		3.65														
H073232		0.67														
H073233		1.80														
H073234		1.79														
H073235		4.79														

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
H073213 H073214 H073215 H073216 H073217		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
H073218 H073219 H073220 H073221 H073222																
H073223 H073224 H073225 H073226 H073227																
H073228 H073229 H073230 H073231 H073232																
H073233 H073234 H073235																

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
H073213 H073214 H073215 H073216 H073217		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	
H073218 H073219 H073220 H073221 H073222																
H073223 H073224 H073225 H073226 H073227																
H073228 H073229 H073230 H073231 H073232																
H073233 H073234 H073235																

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Tl	U	V	W	Y	Zn	Zr	Ag	Al	As	Ba	Be	Bi	Ca	Cd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.01	0.01	0.2	10	0.05	0.01	0.01	0.01
H073213									0.05	5.81	<0.2	420	5.53	0.23	1.04	0.06
H073214									<0.01	5.89	<0.2	50	102.5	0.70	0.23	0.18
H073215									0.06	6.15	<0.2	460	8.60	0.41	1.04	0.04
H073216									0.06	6.30	<0.2	590	2.35	0.22	1.06	0.05
H073217									0.06	6.03	<0.2	540	4.69	0.27	1.10	0.04
H073218									0.09	6.21	<0.2	500	3.24	0.18	1.28	0.02
H073219									0.20	7.86	<0.2	170	2.34	1.84	7.74	0.25
H073220									0.18	7.65	<0.2	40	2.81	1.55	7.55	0.23
H073221									0.14	6.73	<0.2	10	186.0	29.5	0.37	0.19
H073222									<0.01	6.79	<0.2	<10	150.0	26.2	0.19	0.18
H073223									0.03	6.33	<0.2	<10	120.5	5.49	0.12	0.11
H073224									0.10	7.02	<0.2	10	296	15.75	0.13	1.43
H073225									<0.01	8.80	4.0	<10	596	0.73	0.43	<0.02
H073226									0.05	6.83	<0.2	10	209	24.2	0.23	0.09
H073227									0.22	8.01	<0.2	80	5.54	1.68	6.41	0.28
H073228									0.06	5.63	<0.2	10	171.0	7.69	0.26	0.26
H073229									0.03	7.25	<0.2	20	93.0	22.0	0.21	0.09
H073230									0.17	8.55	<0.2	60	4.10	1.13	7.74	0.21
H073231									0.15	7.69	<0.2	70	3.51	2.38	7.24	0.17
H073232									0.14	8.00	0.2	30	276	0.55	1.58	0.02
H073233									0.26	8.76	<0.2	90	24.6	2.51	6.89	0.21
H073234									0.07	6.03	<0.2	10	172.5	3.00	0.48	0.04
H073235									0.28	7.15	<0.2	40	5.46	2.82	4.84	0.18

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
H073213		48.4	1.2	7	87.5	26.4	1.01	18.05	0.05	2.4	0.009	0.97	27.5	199.0	0.11	206
H073214		2.96	0.4	6	25.2	2.7	0.32	56.9	<0.05	2.7	<0.005	1.33	1.7	32.6	0.01	1020
H073215		48.4	1.2	14	43.9	22.7	1.06	20.4	0.07	2.9	0.011	1.64	26.4	205	0.11	233
H073216		48.5	1.2	7	11.30	20.2	1.16	18.80	0.06	2.7	0.014	2.04	27.2	168.0	0.11	210
H073217		43.5	1.1	14	6.29	18.1	1.07	19.20	0.08	2.6	0.008	1.63	23.4	136.0	0.10	165
H073218		47.8	3.6	8	9.41	46.0	1.05	18.75	0.08	2.8	0.007	0.98	25.8	122.0	0.12	149
H073219		10.30	49.9	104	22.3	125.5	9.12	19.60	0.21	0.6	0.067	0.78	4.2	160.5	3.96	1660
H073220		10.45	50.7	126	44.0	157.5	8.38	19.30	0.20	0.6	0.070	0.40	4.3	396	3.06	1640
H073221		1.52	0.8	5	38.5	4.6	0.56	86.5	<0.05	3.2	<0.005	1.06	0.6	112.5	0.04	691
H073222		1.70	0.4	5	48.3	1.9	0.48	68.3	<0.05	2.8	<0.005	1.96	0.6	1320	0.01	671
H073223		2.20	0.2	7	61.5	1.7	0.43	61.7	<0.05	2.5	<0.005	2.57	0.8	3470	0.01	633
H073224		2.08	0.4	5	82.6	5.6	0.52	61.1	0.05	4.2	0.018	3.37	0.8	118.0	0.01	725
H073225		0.22	1.7	178	58.6	7.7	0.64	52.1	<0.05	2.5	<0.005	0.22	<0.5	>10000	0.03	1100
H073226		2.80	0.3	4	64.1	2.5	0.49	67.9	<0.05	2.9	<0.005	2.73	1.0	136.0	0.01	866
H073227		11.15	45.6	121	170.5	183.0	8.44	21.4	0.20	1.2	0.070	0.70	4.7	980	2.56	1650
H073228		1.40	0.4	6	45.0	3.9	0.43	51.1	<0.05	1.8	<0.005	1.98	0.5	102.0	0.02	453
H073229		0.66	0.3	5	79.4	3.8	0.28	44.5	0.05	0.6	<0.005	4.37	<0.5	49.3	0.01	107
H073230		12.45	48.4	157	47.3	109.5	8.46	20.0	0.21	0.7	0.068	0.50	5.4	740	3.60	1590
H073231		12.95	47.1	131	106.5	122.0	9.33	20.1	0.19	0.7	0.090	0.71	5.4	356	4.15	1600
H073232		2.04	7.3	25	232	44.6	1.57	74.8	<0.05	5.0	0.005	0.64	0.9	288	0.57	750
H073233		15.45	42.3	137	>500	297	9.50	35.1	0.24	1.1	0.076	1.41	6.8	610	3.88	1650
H073234		0.75	0.7	6	38.0	2.6	0.42	61.1	<0.05	3.5	0.005	0.57	<0.5	83.9	0.05	767
H073235		13.90	44.6	122	>500	286	9.43	18.15	0.23	1.3	0.100	1.27	6.1	880	4.64	1450

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
H073213		71.2	3.05	5.7	0.6	70	17.1	410	0.003	0.08	<0.05	1.9	2	3.7	126.5	2.62
H073214		0.80	4.89	57.9	1.4	160	7.5	590	<0.002	<0.01	0.07	0.2	1	5.9	18.7	>100
H073215		0.91	2.81	9.2	0.7	100	14.9	267	<0.002	0.07	0.08	1.9	2	3.1	132.0	14.05
H073216		85.4	2.89	5.8	0.6	60	18.2	98.7	0.004	0.07	0.07	2.1	2	2.8	150.5	0.80
H073217		2.97	3.05	5.8	0.8	60	14.9	69.2	<0.002	0.09	0.05	1.7	2	3.5	149.5	0.64
H073218		44.5	3.46	6.3	0.9	80	11.8	43.6	0.002	0.13	0.05	2.1	2	1.8	147.5	0.77
H073219		23.1	1.43	3.8	113.0	360	4.8	91.9	0.003	0.10	0.09	38.3	2	2.0	145.0	0.41
H073220		7.56	1.12	3.3	112.5	360	7.7	171.5	0.004	0.20	0.15	38.0	3	1.3	128.0	0.78
H073221		27.8	4.17	96.1	1.8	120	3.2	800	<0.002	0.01	0.07	0.7	2	41.0	12.4	>100
H073222		0.57	3.86	98.2	0.7	90	6.2	1190	<0.002	<0.01	0.05	0.3	1	16.4	4.4	100.0
H073223		0.20	3.07	72.9	0.6	80	9.3	1550	<0.002	<0.01	<0.05	0.2	1	13.9	3.6	62.0
H073224		0.19	3.36	51.7	0.9	100	10.5	2060	<0.002	0.02	0.06	0.2	1	22.1	4.2	65.1
H073225		0.36	0.61	130.0	4.5	7490	5.1	56.9	<0.002	0.03	0.92	1.0	1	113.0	17.4	66.7
H073226		0.15	3.39	113.0	0.5	120	8.4	1670	<0.002	<0.01	0.05	0.3	2	27.3	9.1	>100
H073227		1.09	1.27	8.4	85.8	450	4.9	560	<0.002	0.20	0.11	36.7	3	1.9	105.0	23.1
H073228		0.13	2.81	89.3	0.9	80	6.8	1180	<0.002	0.01	0.07	0.3	1	20.0	8.1	>100
H073229		0.11	2.82	26.1	0.8	140	17.7	2020	<0.002	<0.01	0.07	0.3	1	6.7	11.2	39.6
H073230		0.80	1.34	3.9	116.5	400	4.1	250	0.002	0.08	0.10	37.6	2	2.1	125.5	1.02
H073231		5.73	1.12	3.9	102.5	470	3.6	258	0.004	0.27	0.10	34.2	2	3.0	91.7	0.38
H073232		25.2	5.23	130.5	15.6	700	5.7	650	0.003	0.16	0.09	4.9	1	13.9	52.1	>100
H073233		54.7	1.28	8.0	89.2	940	4.8	1350	0.004	0.76	0.20	34.8	3	10.8	116.0	17.75
H073234		0.30	4.23	55.4	1.7	320	3.5	480	<0.002	0.01	0.05	0.5	1	14.6	16.8	>100
H073235		6.79	1.07	4.0	72.5	460	3.5	860	0.002	0.81	0.11	34.7	3	3.3	76.8	0.83

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		Te ppm 0.05	Th ppm 0.2	Ti % 0.005	Ti ppm 0.02	U ppm 0.1	V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Ba ppm 0.5	Ce ppm 0.5	Co ppm 0.5	Cr ppm 10
H073213		<0.05	8.5	0.057	3.70	2.2	4	0.7	5.8	31	69.9					
H073214		<0.05	2.4	<0.005	3.81	3.8	1	0.7	2.3	37	12.5	<1	53.9	3.8	<0.5	10
H073215		<0.05	8.4	0.057	2.09	2.8	3	0.8	6.7	26	80.7					
H073216		<0.05	8.8	0.060	0.67	2.7	4	0.6	6.9	25	77.9					
H073217		<0.05	8.1	0.055	0.45	2.4	6	1.3	5.9	15	75.8					
H073218		<0.05	8.8	0.059	0.31	3.2	6	0.8	7.1	11	83.5					
H073219		<0.05	0.4	0.582	0.82	0.2	284	1.0	22.1	128	11.7					
H073220		<0.05	0.4	0.599	1.63	0.2	303	3.6	22.7	117	9.0					
H073221		0.07	3.7	0.011	4.61	4.1	5	1.7	3.8	97	15.1	<1	7.8	10.8	1.0	10
H073222		0.07	4.3	<0.005	8.73	5.4	1	1.0	4.0	89	15.8	<1	3.8	2.4	<0.5	10
H073223		<0.05	4.2	<0.005	11.75	3.4	1	0.7	3.5	40	15.0					
H073224		<0.05	4.1	<0.005	14.60	6.7	1	1.0	5.2	293	22.5					
H073225		0.05	0.2	0.039	1.00	1.5	8	7.9	0.5	66	30.5					
H073226		0.05	5.9	<0.005	11.75	9.4	1	1.3	5.8	42	15.0	<1	9.9	3.3	<0.5	10
H073227		<0.05	0.9	0.610	5.30	1.0	284	0.9	22.6	141	18.5					
H073228		<0.05	2.6	0.005	7.76	3.0	3	1.2	3.8	77	8.6	<1	9.9	1.4	<0.5	10
H073229		<0.05	1.0	<0.005	22.1	1.3	2	0.5	1.2	27	2.9					
H073230		<0.05	0.7	0.616	2.23	0.4	309	1.0	22.5	121	17.7					
H073231		0.07	0.5	0.689	2.33	0.2	307	144.0	24.0	146	18.7					
H073232		0.05	4.8	0.107	5.65	6.7	36	21.6	5.4	95	24.8	<1	39.3	2.5	7.3	30
H073233		0.12	1.1	0.666	12.95	0.8	290	19.4	23.5	196	28.0	<1	97.9	15.8	45.0	190
H073234		<0.05	4.5	0.011	2.60	4.8	6	1.0	2.1	31	12.8	<1	10.7	0.9	0.7	10
H073235		0.09	0.9	0.641	8.00	0.3	284	9.0	23.2	141	46.1	<1	42.6	15.4	51.5	170

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



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To: FLADGATE EXPLORATION CONSULTING  
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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Cs ppm	Cu ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm	La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Ni ppm
H073213 H073214 H073215 H073216 H073217		24.2	<5	0.48	0.11	0.07	54.3	0.85	2.7	0.05	2.3	0.02	2	45.7	1.3	<5
H073218 H073219 H073220 H073221 H073222		39.0 55.3	5 <5	0.97 1.00	0.15 0.14	0.14 <0.03	79.3 65.8	2.08 1.71	3.5 3.3	0.08 0.08	4.7 0.9	0.02 0.02	7 <2	81.4 111.5	3.2 1.1	<5 <5
H073223 H073224 H073225 H073226 H073227		67.6	<5	1.22	0.14	<0.03	62.5	2.13	3.1	0.09	1.2	0.01	<2	112.0	1.4	<5
H073228 H073229 H073230 H073231 H073232		47.6	<5	0.79	0.09	<0.03	46.8	1.22	2.5	0.05	0.5	0.01	<2	63.2	0.7	<5
H073233 H073234 H073235		234 487 46.0 491	43 277 <5 262	1.03 4.44 0.52 4.63	0.48 2.87 0.08 2.96	0.17 1.03 0.04 0.94	74.4 35.4 62.5 19.0	1.21 3.64 1.01 3.75	5.8 2.6 3.8 2.4	0.17 0.96 0.04 0.99	1.1 6.4 <0.5 6.1	0.07 0.45 0.01 0.45	27 78 <2 8	144.0 9.2 63.1 4.5	1.4 9.1 0.5 9.2	16 99 5 85

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81 Pb ppm	ME- MS81 Pr ppm	ME- MS81 Rb ppm	ME- MS81 Sm ppm	ME- MS81 Sn ppm	ME- MS81 Sr ppm	ME- MS81 Ta ppm	ME- MS81 Tb ppm	ME- MS81 Th ppm	ME- MS81 Tl ppm	ME- MS81 Tm ppm	ME- MS81 U ppm	ME- MS81 V ppm	ME- MS81 W ppm	ME- MS81 Y ppm
H073213 H073214 H073215 H073216 H073217		7	0.38	594	0.75	6	18.2	182.0	0.13	2.86	2.3	0.02	4.17	<5	1	2.7
H073218 H073219 H073220 H073221 H073222		<5 7	0.96 0.34	796 1045	1.77 1.57	41 18	14.1 4.8	170.0 121.5	0.30 0.33	4.24 5.05	2.8 6.2	0.02 0.02	4.13 6.74	7 <5	2 2	5.0 5.9
H073223 H073224 H073225 H073226 H073227		9	0.43	1415	1.96	28	10.0	118.5	0.39	6.63	7.4	0.02	10.70	<5	2	7.0
H073228 H073229 H073230 H073231 H073232		7	0.19	990	0.97	21	8.5	98.1	0.25	2.73	4.5	0.01	3.07	<5	2	4.4
H073233 H073234 H073235		6 <5 5	2.14 0.13 2.07	1170 411 779	2.88 0.86 2.82	12 16 4	120.5 19.0 84.6	18.5 225 0.6	0.68 0.19 0.72	1.10 5.93 0.99	7.1 1.6 5.8	0.42 0.01 0.45	0.83 5.90 0.34	347 8 355	23 2 14	26.8 2.7 27.4

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**CERTIFICATE OF ANALYSIS TB11027946**

Sample Description	Method Analyte Units LOR	ME- MS81 Yb ppm	ME- MS81 Zn ppm	ME- MS81 Zr ppm	Li- OG63 Li %
H073213 H073214 H073215 H073216 H073217		0.12	35	13	
H073218 H073219 H073220 H073221 H073222		0.11 0.15	94 85	23 18	
H073223 H073224 H073225 H073226 H073227		0.13	37	13	2.770
H073228 H073229 H073230 H073231 H073232		0.07 0.48	64 84	9 28	
H073233 H073234 H073235		2.73 0.07 2.86	186 32 138	87 14 82	

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CERTIFICATE OF ANALYSIS TB11027946

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS61 ME- MS61	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown. REE's may not be totally soluble in this method.



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Page: 1  
 Finalized Date: 7- APR- 2011  
 Account: FLGEXP

**CERTIFICATE TB11049650**

Project: COB- ZIG  
 P.O. No.:  
 This report is for 48 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 28- MAR- 2011.  
 The following have access to data associated with this certificate:  
 AVERY HENDERSON      MICHAEL THOMPSON

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- MS81	38 element fusion ICP- MS	ICP- MS
Li- OG63	Ore grade Li - 4ACID	VARIABLE
ME- OG62o	Ore Grade open beaker - ICPAES	ICP- AES
ME- MS61	48 element four acid ICP- MS	

To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 ATTN: AVERY HENDERSON  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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.

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





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**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	
E450963		0.17	8.22	<0.2	170	6.66	1.85	7.11	0.25	10.35	45.4	126	335	120.0	9.12	19.30	
E450964		<0.01	6.90	0.2	30	62.7	11.60	0.14	0.25	2.00	0.4	5	84.6	2.0	0.41	55.7	
E450965		<0.01	6.38	0.3	10	280	8.15	0.13	0.09	2.44	0.3	4	42.6	1.1	0.46	70.0	
E450966		<0.01	6.05	0.6	10	129.0	14.90	0.16	0.27	1.48	0.3	4	48.8	1.7	0.47	66.1	
E450967		<0.01	5.82	0.2	10	139.5	2.46	0.18	0.34	1.70	1.3	5	37.8	8.6	0.48	60.0	
E450968		0.13	7.87	<0.2	140	3.58	0.93	6.38	0.15	12.80	43.1	101	36.8	85.7	8.01	20.4	
E450969		0.10	6.57	<0.2	660	0.95	0.17	2.13	0.04	25.9	13.9	28	18.90	81.2	2.25	16.45	
E450970		0.16	8.12	<0.2	110	0.54	0.50	7.33	0.13	13.15	45.4	106	16.05	143.0	8.18	17.55	
E450971		0.20	7.98	<0.2	60	1.76	1.79	8.47	0.17	9.91	47.9	114	19.15	166.0	8.59	18.20	
E450972		<0.01	6.49	0.2	20	26.1	10.40	0.21	0.10	1.93	0.4	7	67.3	3.3	0.50	69.3	
E450973		<0.01	6.87	<0.2	20	163.5	7.08	0.31	0.15	1.47	0.5	6	49.7	3.3	0.61	76.9	
E450974		0.21	7.44	<0.2	60	1.13	0.78	7.50	0.16	9.15	50.3	108	14.80	140.5	8.44	17.35	
E450975		0.19	7.65	<0.2	70	2.21	0.97	7.10	0.21	9.75	47.3	113	15.05	133.0	8.73	17.20	
E450976		0.13	7.25	0.2	80	79.4	13.25	2.88	0.10	2.42	7.4	23	22.7	30.8	1.72	41.0	
E450977		0.18	7.97	<0.2	80	1.80	0.94	6.78	0.15	9.25	49.2	116	16.40	91.0	8.84	17.05	
E450978		0.18	7.71	<0.2	70	1.06	1.74	7.06	0.18	11.25	48.4	180	118.0	125.0	9.20	18.05	
E450979		0.25	8.27	<0.2	130	0.95	2.45	7.76	0.24	11.15	44.8	186	131.0	246	8.47	18.60	
E450980		0.20	8.11	<0.2	70	2.02	0.80	7.41	0.18	10.70	45.4	181	24.7	172.0	8.54	18.35	
E450981		0.15	8.40	<0.2	60	1.32	1.72	8.28	0.19	15.10	43.3	170	20.8	87.2	7.97	18.50	
E450982		0.08	7.38	4.1	<10	572	0.92	0.41	<0.02	0.29	1.7	196	60.1	7.0	0.58	43.7	
E450983		0.13	8.19	<0.2	50	1.06	2.54	8.32	0.19	12.10	45.7	170	14.60	124.5	8.11	18.25	
E450984		0.13	8.19	<0.2	130	5.40	2.36	7.83	0.17	11.70	46.8	191	38.7	117.0	7.79	18.20	
E450985		0.11	7.86	<0.2	30	2.07	3.93	8.26	0.20	10.25	40.2	177	6.42	87.8	6.85	19.05	
E450986		0.17	8.05	<0.2	30	0.66	1.03	8.29	0.22	10.25	44.0	183	13.25	131.5	8.40	16.60	
E450987		0.19	7.83	<0.2	20	5.09	4.32	9.38	0.29	11.30	39.4	174	13.90	188.5	8.41	22.2	
E450988		0.22	7.71	<0.2	50	1.09	2.19	8.13	0.34	22.1	44.4	159	16.80	235	8.61	17.55	
E450989		0.32	7.56	<0.2	70	0.60	1.28	6.22	0.35	15.10	61.4	140	77.4	495	10.70	17.50	
E450990		0.19	7.98	<0.2	20	0.76	0.83	7.15	0.34	13.05	46.2	123	8.65	179.0	9.43	18.50	
E450991		0.15	7.76	<0.2	50	0.88	2.15	7.79	0.27	13.35	44.5	125	25.5	79.6	9.30	19.60	
E450992		0.16	7.55	<0.2	40	1.32	3.24	7.13	0.25	14.90	41.8	102	159.0	121.5	9.54	19.20	
E450993		0.14	8.04	<0.2	110	8.62	2.18	5.72	0.17	14.00	43.2	130	>500	113.0	9.32	23.1	
E450994		0.11	8.31	<0.2	50	0.81	1.37	7.03	0.21	13.75	46.6	115	70.8	112.0	9.86	18.45	
E450995		0.03	1.19	<0.2	10	0.52	0.45	1.35	0.05	2.31	7.7	31	6.47	28.4	1.91	3.00	
E450996		<0.01	0.29	<0.2	<10	0.61	0.29	0.48	<0.02	0.57	1.7	14	1.61	6.9	0.61	1.02	
E450997		0.02	0.87	0.2	<10	4.11	4.83	0.88	0.02	0.38	1.8	8	7.07	20.8	0.59	3.42	
E450998		0.13	6.04	<0.2	100	1.86	3.12	4.13	0.12	11.25	33.5	104	433	156.5	7.25	16.80	
E450999		0.05	3.29	<0.2	40	0.36	1.85	3.13	0.09	5.76	15.7	53	17.25	31.9	3.73	8.79	
E451000		0.04	6.89	<0.2	950	0.76	0.04	0.96	0.02	107.0	2.3	4	2.80	4.5	1.33	16.05	
H073051		0.10	7.95	<0.2	70	1.80	2.36	6.69	0.18	14.55	43.8	122	247	53.8	9.51	18.65	
H073052		0.34	9.16	0.6	50	44.7	1.76	7.18	0.20	12.20	48.2	120	119.5	404	9.11	36.6	

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5	Rb ppm 0.1	
E450963		0.18	0.5	0.075	1.07	4.2	1450	3.84	1780	0.87	0.80	3.7	104.5	380	3.6	1130	
E450964		0.07	1.6	<0.005	3.72	0.7	1710	0.02	559	0.09	2.48	42.4	0.9	110	18.7	2340	
E450965		<0.05	13.8	<0.005	0.59	0.9	8710	0.01	1460	0.09	2.80	171.0	0.5	70	18.6	365	
E450966		0.06	3.0	0.006	1.53	0.5	1560	0.01	949	0.10	3.96	106.0	0.7	80	10.7	950	
E450967		<0.05	4.0	<0.005	1.43	0.5	247	0.01	1710	1.35	4.03	73.5	1.5	100	7.9	850	
E450968		0.10	1.1	0.066	0.62	5.2	1190	2.93	1790	0.62	0.96	4.5	89.3	370	5.8	211	
E450969		<0.05	2.3	0.021	0.75	13.4	520	0.73	447	0.38	3.10	4.9	21.1	130	8.9	106.0	
E450970		0.10	0.8	0.069	0.35	5.5	700	3.44	1630	0.47	1.49	3.9	98.6	440	3.0	59.3	
E450971		0.12	0.7	0.083	0.31	3.7	730	3.26	1840	0.32	0.99	3.2	103.0	360	2.5	93.8	
E450972		0.05	0.3	0.006	2.75	0.8	4660	0.02	436	0.07	2.11	73.5	0.8	80	11.9	1650	
E450973		<0.05	0.6	<0.005	1.16	0.5	6620	0.01	616	0.12	3.24	55.8	0.8	70	5.4	680	
E450974		0.14	0.5	0.066	0.51	3.5	820	3.71	1600	5.32	1.01	3.2	116.0	350	1.9	133.5	
E450975		0.13	0.6	0.068	0.56	3.5	740	4.07	1680	5.21	1.27	3.2	99.7	360	1.5	154.5	
E450976		<0.05	7.1	0.013	0.73	1.0	145.0	0.44	1180	1.10	4.32	60.6	17.3	450	6.3	233	
E450977		0.11	0.7	0.067	0.49	3.4	490	4.26	1780	1.82	1.65	3.2	119.0	360	2.2	126.0	
E450978		0.13	0.9	0.076	0.62	4.3	213	4.41	1540	1.50	1.33	3.7	82.5	410	3.5	100.0	
E450979		0.11	0.5	0.085	0.67	4.3	200	4.13	1420	5.17	1.01	3.2	93.1	410	3.9	138.0	
E450980		0.12	0.7	0.070	0.52	4.2	174.0	4.07	1520	1.06	1.57	3.1	100.0	400	2.0	77.7	
E450981		0.12	0.9	0.077	0.28	6.5	83.1	3.31	1660	23.9	1.37	4.0	101.0	500	3.6	24.3	
E450982		<0.05	2.2	<0.005	0.21	<0.5	>10000	0.03	1100	0.32	0.56	120.0	4.2	7580	5.0	62.5	
E450983		0.13	0.5	0.081	0.27	4.4	90.5	3.20	1610	0.92	1.38	3.3	123.0	400	4.2	26.3	
E450984		0.08	0.6	0.076	0.34	4.3	121.0	3.30	1640	3.35	1.67	3.9	113.0	390	3.7	68.2	
E450985		0.08	0.5	0.091	0.19	4.0	69.0	2.48	1500	0.97	1.34	2.9	95.2	420	3.3	14.5	
E450986		0.09	0.6	0.066	0.23	4.0	100.5	3.68	1580	4.53	1.34	3.0	113.0	400	2.5	24.5	
E450987		0.12	0.7	0.113	0.18	4.5	67.9	2.70	1780	11.30	0.78	3.0	91.7	400	3.0	17.2	
E450988		0.12	0.9	0.090	0.24	9.6	92.2	3.35	1820	0.58	1.19	5.6	103.5	490	4.1	23.0	
E450989		0.15	1.3	0.098	0.49	6.3	196.5	3.74	1560	0.85	1.65	3.9	94.6	560	4.2	68.4	
E450990		0.13	0.9	0.092	0.27	5.1	183.0	3.66	1800	0.37	1.57	3.8	90.1	510	3.9	18.1	
E450991		0.13	0.9	0.095	0.31	5.2	176.0	3.73	1860	1.57	1.22	3.9	85.9	540	4.3	25.6	
E450992		0.16	1.1	0.099	0.56	5.9	251	3.66	1780	0.44	1.17	4.2	64.3	580	3.2	177.5	
E450993		0.12	1.1	0.083	1.32	5.4	490	4.63	1520	1.15	1.36	6.0	82.4	530	3.2	690	
E450994		0.17	1.0	0.087	0.57	5.3	281	4.33	1650	0.97	1.39	4.0	94.3	530	4.0	122.0	
E450995		<0.05	0.2	0.013	0.11	0.9	44.0	0.65	315	0.20	0.16	0.7	15.3	90	0.6	34.2	
E450996		<0.05	<0.1	<0.005	0.01	<0.5	14.2	0.08	107	0.12	0.01	0.2	3.5	20	<0.5	1.1	
E450997		<0.05	<0.1	0.010	0.02	<0.5	25.4	0.05	78	0.18	0.13	0.5	2.4	320	0.6	10.1	
E450998		0.17	0.7	0.075	1.15	4.3	370	2.82	1040	0.34	0.53	2.8	63.2	460	1.7	740	
E450999		0.08	0.3	0.044	0.20	2.3	93.4	1.41	681	1.30	0.35	1.4	40.8	200	1.6	73.7	
E451000		0.12	6.0	0.011	4.30	59.3	21.4	0.18	202	0.18	2.38	2.8	1.3	300	38.9	142.5	
H073051		0.19	0.8	0.084	0.93	5.9	322	4.67	1670	7.25	1.03	3.9	106.0	590	3.6	337	
H073052		0.17	0.8	0.081	0.84	4.9	238	3.57	1600	2.15	1.70	7.0	99.5	460	4.3	267	

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



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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME-MSG1 Re ppm 0.002	ME-MSG1 S % 0.01	ME-MSG1 Sb ppm 0.05	ME-MSG1 Sc ppm 0.1	ME-MSG1 Se ppm 1	ME-MSG1 Sn ppm 0.2	ME-MSG1 Sr ppm 0.2	ME-MSG1 Ta ppm 0.05	ME-MSG1 Te ppm 0.05	ME-MSG1 Th ppm 0.2	ME-MSG1 Ti % 0.005	ME-MSG1 Tl ppm 0.02	ME-MSG1 U ppm 0.1	ME-MSG1 V ppm 1	ME-MSG1 W ppm 0.1
E450963		<0.002	0.07	0.16	43.2	2	5.3	126.5	1.70	<0.05	0.3	0.601	9.32	0.2	308	12.9
E450964		<0.002	0.01	0.06	0.3	1	14.6	10.6	49.8	<0.05	4.5	<0.005	17.55	4.2	1	0.7
E450965		<0.002	0.01	0.07	0.3	1	16.3	5.2	>100	0.06	9.8	<0.005	2.30	21.0	1	1.3
E450966		<0.002	0.01	0.07	0.3	1	18.7	7.1	>100	0.05	4.7	<0.005	6.24	12.8	1	1.3
E450967		<0.002	0.02	<0.05	0.2	1	16.7	7.4	>100	<0.05	4.0	<0.005	5.13	7.4	2	0.9
E450968		<0.002	0.07	0.09	34.0	2	2.1	116.0	0.71	<0.05	1.4	0.536	1.89	0.7	261	0.9
E450969		<0.002	0.10	<0.05	8.0	1	0.4	71.6	0.67	<0.05	5.9	0.117	1.04	2.1	56	0.3
E450970		0.002	0.06	0.05	34.6	2	0.9	141.0	0.31	<0.05	0.7	0.563	0.50	0.3	274	0.6
E450971		<0.002	0.16	0.07	37.9	2	2.2	118.5	0.26	<0.05	0.3	0.601	0.94	0.1	307	1.1
E450972		<0.002	0.01	0.07	1.1	1	26.2	12.1	70.8	<0.05	4.1	0.006	12.10	2.5	2	1.4
E450973		<0.002	0.01	0.06	0.8	1	23.8	14.9	72.7	<0.05	2.9	<0.005	4.74	1.4	2	1.1
E450974		0.003	0.06	0.10	29.8	2	1.0	140.0	0.38	<0.05	0.3	0.565	1.51	0.1	289	0.6
E450975		0.003	0.05	0.06	36.5	2	1.3	115.0	0.32	<0.05	0.3	0.592	1.39	0.1	298	0.8
E450976		<0.002	0.02	0.06	6.0	1	5.8	69.4	>100	<0.05	3.2	0.100	1.84	7.9	56	1.6
E450977		0.002	0.04	0.07	35.4	2	0.9	113.5	0.41	<0.05	0.3	0.579	1.17	0.1	293	1.0
E450978		0.002	0.14	0.10	36.0	2	0.9	112.5	0.35	0.10	0.4	0.691	0.92	0.1	340	0.6
E450979		0.003	0.28	0.12	37.2	2	0.8	152.0	0.23	0.07	0.4	0.600	1.03	0.1	294	44.4
E450980		0.002	0.18	0.09	35.5	2	1.1	134.0	0.25	0.06	0.4	0.580	0.63	0.1	299	2.4
E450981		0.004	0.09	0.08	35.0	2	1.3	137.0	0.28	<0.05	0.9	0.597	0.18	0.2	297	0.8
E450982		<0.002	0.03	0.94	0.8	1	108.5	14.0	67.2	<0.05	0.2	0.039	0.97	0.8	9	7.6
E450983		<0.002	0.10	0.11	38.7	2	1.2	130.5	0.23	<0.05	0.4	0.637	0.26	0.1	302	1.6
E450984		0.002	0.20	0.17	34.9	2	2.3	127.0	0.42	<0.05	0.6	0.607	0.64	0.3	297	1.1
E450985		<0.002	0.12	0.08	34.0	2	2.3	146.5	0.19	<0.05	0.4	0.541	0.12	0.1	290	14.4
E450986		0.003	0.09	0.08	34.2	2	0.8	144.5	0.21	<0.05	0.4	0.582	0.20	0.1	287	0.6
E450987		0.002	0.41	0.13	32.9	2	5.6	148.0	0.19	0.05	0.4	0.540	0.12	0.1	288	1.4
E450988		0.002	0.48	0.13	31.7	2	1.3	163.0	0.34	0.12	1.5	0.600	0.18	0.4	275	5.3
E450989		0.002	1.38	0.07	32.7	3	1.0	111.5	0.26	0.07	1.0	0.661	0.55	0.3	293	0.7
E450990		0.002	0.26	0.07	35.5	2	1.1	130.5	0.24	0.06	0.5	0.701	0.16	0.1	327	1.0
E450991		0.003	0.22	0.10	33.1	2	1.2	127.5	0.25	0.06	0.4	0.717	0.23	0.1	335	47.4
E450992		<0.002	0.41	0.11	33.4	2	1.7	108.5	0.26	0.08	0.5	0.723	1.66	0.1	341	8.0
E450993		0.002	0.37	0.10	35.9	2	6.3	86.4	1.47	0.26	0.5	0.738	6.46	0.2	336	21.0
E450994		0.003	0.29	0.14	39.4	1	0.8	113.5	0.27	0.08	0.5	0.743	1.25	0.1	344	1.1
E450995		<0.002	0.07	0.06	6.9	1	0.4	14.9	0.05	<0.05	<0.2	0.131	0.25	<0.1	59	45.5
E450996		<0.002	0.02	<0.05	1.5	1	0.4	7.5	<0.05	<0.05	<0.2	0.021	<0.02	<0.1	11	0.2
E450997		0.002	0.06	0.05	1.5	1	0.8	22.8	0.31	0.10	<0.2	0.028	0.10	<0.1	15	139.0
E450998		<0.002	0.60	0.07	33.5	2	1.8	65.8	0.17	0.09	0.4	0.544	6.72	0.1	321	28.4
E450999		0.002	0.11	0.06	14.1	1	0.5	47.9	0.09	0.05	0.2	0.236	0.47	0.1	129	14.2
E451000		<0.002	0.01	<0.05	2.5	1	0.6	251	0.23	<0.05	33.0	0.093	0.89	2.9	13	0.2
H073051		0.004	0.19	0.08	35.2	1	1.6	77.3	0.24	0.09	0.6	0.630	3.14	0.2	311	16.5
H073052		0.002	1.08	0.10	30.3	2	19.1	126.5	1.89	0.06	0.5	0.607	2.05	0.2	278	0.8

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TBI1049650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Y ppm	Zn ppm	Zr ppm	Ba ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm
E450963		23.5	158	13.0												
E450964		2.5	78	10.1												
E450965		6.0	30	75.7	5.0	3.9	0.6	10	52.6	2.04	0.31	0.03	87.1	3.66	19.9	0.16
E450966		4.3	87	16.6	10.7	1.8	<0.5	10	48.8	0.88	0.10	<0.03	70.2	1.62	4.0	0.06
E450967		4.7	108	21.2	12.4	2.1	1.2	<10	38.9	0.92	0.12	<0.03	59.6	1.48	3.7	0.07
E450968		23.5	124	25.5												
E450969		10.4	26	54.7												
E450970		21.8	113	23.0												
E450971		22.7	136	14.8												
E450972		2.0	47	1.5												
E450973		2.4	72	3.5												
E450974		21.4	119	10.4												
E450975		22.5	127	13.5												
E450976		9.8	35	38.6	86.1	2.5	7.6	30	22.4	1.59	0.45	0.17	43.0	1.62	9.7	0.19
E450977		21.6	119	19.9												
E450978		25.0	125	30.0												
E450979		23.4	115	15.9												
E450980		22.3	116	21.9												
E450981		23.6	120	28.6												
E450982		0.5	74	25.8												
E450983		23.4	113	11.7												
E450984		22.8	138	12.4												
E450985		22.0	112	12.5												
E450986		21.4	128	12.2												
E450987		22.9	122	14.4												
E450988		24.4	167	28.6												
E450989		24.8	172	43.8												
E450990		26.2	183	27.7												
E450991		26.7	180	27.8												
E450992		27.2	155	34.5												
E450993		27.9	186	38.9	124.0	12.6	48.2	170	479	4.30	2.68	0.96	24.4	3.87	2.4	0.92
E450994		27.4	163	33.5												
E450995		4.5	24	4.7												
E450996		1.4	2	1.0												
E450997		1.6	3	0.7												
E450998		28.4	112	22.7												
E450999		11.0	56	7.4												
E451000		4.7	31	201												
H073051		25.9	169	28.8												
H073052		22.0	192	24.8												

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti ppm
E450963		0.5	0.01	2	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5
E450964		1.8	0.05	<2	142.5	2.2	0.56	397	2.86	113	6.0	286	0.63	12.90	1.7
E450965		0.7	0.01	<2	78.7	1.0	0.26	904	1.28	37	6.9	139.0	0.28	5.80	3.5
E450966		1.1	0.01	3	78.2	1.2	0.32	788	1.53	18	8.2	121.0	0.28	4.04	3.6
E450967															
E450968															
E450969															
E450970															
E450971															
E450972															
E450973															
E450974															
E450975		1.2	0.06	4	56.6	1.8	0.37	277	1.12	6	73.9	149.5	0.38	3.42	1.3
E450976															
E450977															
E450978															
E450979															
E450980															
E450981															
E450982															
E450983															
E450984															
E450985															
E450986															
E450987															
E450988															
E450989															
E450990															
E450991															
E450992															
E450993		5.1	0.46	4	6.0	9.8	1.91	627	3.10	7	82.9	1.6	0.67	0.44	4.2
E450994															
E450995															
E450996															
E450997															
E450998															
E450999															
E451000															
H073051															
H073052															

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	LI- OG63
		U ppm	V ppm	W ppm	Y ppm	Yb ppm	Zr ppm	Li %
E450963		0.05		1	0.5	0.03	2	0.005
E450964								
E450965		28.1	<5	2	11.6	0.42	93	
E450966		18.00	<5	1	4.7	0.11	20	
E450967		8.08	<5	1	5.9	0.15	23	
E450968								
E450969								
E450970								
E450971								
E450972								
E450973								
E450974								
E450975								
E450976		8.34	61	2	10.6	0.46	61	
E450977								
E450978								
E450979								
E450980								
E450981								
E450982								2.900
E450983								
E450984								
E450985								
E450986								
E450987								
E450988								
E450989								
E450990								
E450991								
E450992								
E450993		0.18	346	21	27.9	2.91	89	
E450994								
E450995								
E450996								
E450997								
E450998								
E450999								
E451000								
H073051								
H073052								

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**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1
		Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
H073053		0.18	8.53	<0.2	60	13.85	4.46	7.15	0.22	12.00	45.7	122	121.0	206	9.52	24.8
H073054		0.19	7.77	0.3	150	9.65	3.70	5.64	0.21	13.30	47.2	120	>500	175.5	9.83	20.2
H073055		0.26	7.43	0.5	160	7.67	37.8	3.97	0.16	19.90	45.6	175	>500	249	9.05	21.2
H073056		0.10	7.89	<0.2	80	2.61	1.28	3.17	0.03	37.5	22.1	84	>500	108.0	5.65	18.35
H073057		0.04	6.38	0.5	560	1.06	0.16	1.20	0.05	57.8	1.6	2	5.72	11.0	1.14	15.35
H073058		0.02	6.08	0.3	450	1.31	0.09	1.29	<0.02	52.1	1.5	2	4.90	8.4	1.15	14.80
H073059		0.03	6.26	<0.2	610	0.88	0.07	1.24	0.03	47.1	1.2	2	4.05	7.5	1.17	14.25
H073060		0.07	5.83	<0.2	550	1.48	1.43	1.04	0.05	45.7	1.3	3	6.84	18.2	1.26	15.20

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 Account: FLGEXP

Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm
		0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5	
H073053		0.21	0.9	0.093	0.66	4.7	264	4.12	1770	1.46	1.52	5.0	105.5	490	4.5	160.5
H073054		0.21	1.3	0.088	1.39	5.5	480	4.71	1680	5.50	1.35	4.8	88.3	520	3.3	570
H073055		0.21	2.1	0.070	2.08	9.2	560	4.81	1370	47.5	1.46	5.1	90.1	480	4.7	520
H073056		0.13	4.3	0.039	1.35	17.5	317	2.64	745	2.30	2.35	6.9	38.1	720	6.6	344
H073057		0.07	2.6	0.016	1.53	30.7	221	0.13	208	0.78	3.05	4.7	0.3	90	15.1	60.9
H073058		0.08	2.5	0.012	1.09	28.8	192.0	0.09	189	57.7	3.12	4.6	0.2	70	14.0	47.1
H073059		0.08	2.4	0.008	1.62	24.5	204	0.09	190	13.25	2.96	4.7	<0.2	90	14.0	58.8
H073060		0.08	2.7	0.012	1.64	24.3	220	0.09	207	7.58	2.79	4.9	<0.2	70	15.7	64.3

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





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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1	ME-MSG1
		Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm
		0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1
H073053		0.003	0.58	0.09	34.5	2	6.7	106.0	1.00	0.13	0.4	0.682	2.30	0.1	319	1.8
H073054		0.003	0.58	0.09	33.3	2	5.8	78.0	0.34	0.12	0.7	0.727	6.66	0.2	318	1.1
H073055		0.009	0.67	0.10	24.4	2	5.8	76.6	0.56	1.01	1.8	0.546	7.83	0.6	247	0.5
H073056		0.003	0.45	0.07	17.6	1	1.0	146.5	0.63	0.06	5.5	0.582	5.80	1.5	190	0.6
H073057		<0.002	0.03	0.10	2.1	1	1.2	177.5	0.48	<0.05	10.9	0.075	0.46	1.8	7	0.5
H073058		0.004	0.04	0.11	2.0	1	1.5	201	0.49	<0.05	11.1	0.066	0.33	2.0	6	0.2
H073059		<0.002	0.05	0.09	1.9	1	1.2	189.5	0.57	<0.05	8.5	0.072	0.44	2.2	5	0.2
H073060		<0.002	0.09	0.09	1.8	1	1.4	148.0	0.62	0.08	8.8	0.064	0.46	2.4	5	0.7

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME-MSG1	ME-MSG1	ME-MSG1	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
		Y ppm	Zn ppm	Zr ppm	Ba ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Dy ppm	Er ppm	Eu ppm	Ga ppm	Gd ppm	Hf ppm	Ho ppm
		0.1	2	0.5	0.5	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	0.2	0.01
H073053		23.7	168	30.7												
H073054		23.7	193	45.3	154.0	13.3	52.1	170	579	4.11	2.52	1.01	21.4	3.68	2.5	0.90
H073055		18.9	166	77.9	167.5	21.5	50.2	230	1010	3.44	2.06	1.00	22.4	3.32	2.4	0.71
H073056		15.6	73	156.0	89.1	44.0	24.5	110	671	3.58	1.84	1.08	19.6	3.94	5.1	0.68
H073057		6.6	20	87.2												
H073058		6.7	16	84.7												
H073059		6.2	17	77.1												
H073060		6.2	19	81.0												

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81
		La ppm	Lu ppm	Mo ppm	Nb ppm	Nd ppm	Pr ppm	Rb ppm	Sm ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti ppm	Tm ppm
H073053		0.5	0.01	2	0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.5	0.01
H073054		5.7	0.43	8	4.4	9.6	1.98	641	2.97	7	69.7	0.3	0.65	0.67	4.2	0.41
H073055		10.3	0.33	38	4.8	12.0	2.75	807	3.03	6	68.8	0.5	0.55	2.13	4.9	0.32
H073056		22.3	0.30	5	6.8	20.3	5.11	569	4.22	1	138.5	0.6	0.62	6.65	4.0	0.29
H073057																
H073058																
H073059																
H073060																

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB11049650**

Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	Li- OG63
		U ppm 0.05	V ppm 5	W ppm 1	Y ppm 0.5	Yb ppm 0.03	Zr ppm 2	Li % 0.005
H073053								
H073054		0.19	321	2	25.2	2.75	94	
H073055		0.59	257	1	21.3	2.06	94	
H073056		1.62	202	1	20.1	1.93	207	
H073057								
H073058								
H073059								
H073060								

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CERTIFICATE OF ANALYSIS TB11049650

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.



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**CERTIFICATE TB10162532**

Project: COB- ZIG  
 P.O. No.:  
 This report is for 38 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 4- NOV- 2010.  
 The following have access to data associated with this certificate:  
 AVERY HENDERSON      MICHAEL THOMPSON

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

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

To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 ATTN: AVERY HENDERSON  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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.

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB10162532**

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
H181101		0.38	0.10	6.75	<0.2	10	408	0.81	0.14	0.51	1.99	0.4	10	72.8	2.3	0.50
H181103		0.70	0.01	0.09	<0.2	<10	0.46	0.07	0.04	<0.02	0.15	0.6	20	0.63	6.1	0.45
H181104		0.45	<0.01	6.46	0.3	10	211	0.46	0.12	0.12	1.76	0.3	7	59.7	0.7	0.34
H181105		0.61	<0.01	6.97	<0.2	10	53.7	3.24	0.08	0.20	0.56	0.2	12	101.0	2.2	0.36
H181106		0.68	0.05	8.26	<0.2	530	14.30	0.16	1.45	0.03	30.7	0.8	6	33.6	5.7	1.10
H181107		1.00	0.03	6.78	<0.2	10	123.0	0.90	0.20	0.29	3.09	0.2	7	40.1	0.9	0.37
H181108		0.75	<0.01	5.65	<0.2	20	4.27	0.42	0.05	0.06	1.91	0.4	9	103.5	0.9	0.57
H181110		0.64	0.01	1.03	0.2	10	0.23	0.03	1.46	0.06	1.41	2.8	29	0.72	6.1	1.06
H181114		0.97	0.31	4.78	4.2	290	0.44	0.40	1.29	14.90	18.55	39.3	51	2.34	358	10.15
H181115		0.77	0.32	6.10	149.5	490	0.64	0.66	0.78	1.19	18.40	58.9	171	2.05	99.6	10.90
H181116		0.58	0.33	6.90	0.7	20	6.43	1.50	0.35	0.42	32.7	0.6	7	24.5	3.1	1.39
H181117		0.52	0.08	8.03	<0.2	10	222	8.18	0.09	0.13	0.92	0.3	8	56.2	2.7	0.84
H181118		0.49	<0.01	6.64	<0.2	<10	129.5	0.06	0.07	0.23	0.63	0.2	7	92.5	1.1	0.42
H181119		1.35	0.04	6.65	<0.2	310	1.54	0.12	0.92	0.03	9.91	1.0	16	3.09	1.9	0.83
H181120		1.25	0.30	6.61	<0.2	30	1.20	0.11	0.25	0.04	19.05	0.4	8	3.13	21.2	0.66
H181121		1.09	<0.01	3.96	<0.2	<10	2.48	14.35	0.26	<0.02	5.28	0.2	12	2.98	8.1	0.26
H181122		0.54	<0.01	5.17	<0.2	<10	69.3	0.60	0.09	0.04	16.65	0.2	6	19.90	1.1	0.61
H181123		0.90	<0.01	5.89	<0.2	10	2.68	1.26	0.13	<0.02	8.38	0.2	6	16.20	2.1	0.37
H181124		0.81	<0.01	6.08	<0.2	10	2.65	30.0	0.10	0.09	4.65	0.2	6	19.05	2.1	0.42
H181125		0.90	<0.01	6.09	0.5	10	3.23	1.56	0.11	0.09	1.77	0.2	8	19.65	2.2	0.36
H181126		0.64	0.02	7.07	<0.2	80	35.1	6.29	0.15	0.03	2.23	0.2	5	28.1	5.9	0.45
H181127		0.61	0.06	0.19	<0.2	20	0.24	0.16	0.01	<0.02	0.09	0.2	20	0.31	1.3	0.31
H181128		1.17	<0.01	6.91	0.3	40	1.36	1.32	0.08	<0.02	2.85	0.2	8	38.0	1.2	0.44
H181131		0.60	<0.01	6.52	<0.2	50	1.35	0.23	0.05	<0.02	1.29	0.2	7	30.0	3.0	0.23
H181132		0.63	<0.01	5.13	<0.2	<10	2.37	2.02	0.07	0.08	2.87	0.2	9	17.60	1.5	0.72
H181133		0.45	<0.01	7.51	0.2	20	1.60	0.19	0.10	0.15	3.23	0.2	7	19.90	0.9	0.53
H181134		0.67	<0.01	3.87	<0.2	<10	2.45	1.05	0.09	0.10	17.20	0.3	9	18.75	1.9	0.56
H181135		0.67	0.35	5.88	<0.2	70	7.23	62.5	0.30	<0.02	19.25	0.9	10	13.45	2.1	0.52
H181136		0.99	0.06	7.49	<0.2	300	1.84	1.87	0.45	<0.02	15.75	0.4	6	14.10	5.4	0.94
H181138		0.43	<0.01	5.03	<0.2	10	3.19	0.61	0.45	0.07	14.85	0.2	5	4.80	0.8	0.32
H181231		0.91	<0.01	9.27	0.7	40	32.3	0.11	0.35	0.87	3.33	1.5	9	109.0	1.5	0.77
H181232		0.57	0.01	7.28	<0.2	10	148.0	0.15	0.48	<0.02	1.05	0.6	7	9.82	1.6	0.35
H181233		0.57	<0.01	8.81	<0.2	30	307	0.65	0.56	<0.02	0.62	0.4	3	71.8	1.1	0.34
H181234		1.68	<0.01	6.83	<0.2	10	84.9	0.76	0.15	0.02	2.60	0.2	6	34.6	1.5	0.30
H181235		0.49	<0.01	6.17	<0.2	<10	211	0.06	0.09	0.06	0.50	0.2	6	45.8	0.8	0.39
H181236		1.25	<0.01	6.28	0.4	<10	215	0.07	0.07	0.02	0.31	0.2	4	124.0	0.6	0.24
H181237		1.30	0.17	7.23	0.8	30	32.9	0.22	0.07	<0.02	1.73	0.3	8	131.0	2.2	0.78
H181238		0.80	1.80	0.53	2.9	10	0.26	0.13	0.45	0.08	1.83	3.4	13	0.50	237	3.97

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**CERTIFICATE OF ANALYSIS TB10162532**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
H181101		77.8	<0.05	6.0	0.012	1.19	0.7	5170	0.01	1180	0.12	3.08	82.6	2.1	50	9.6
H181103		0.45	<0.05	<0.1	<0.005	0.01	<0.5	21.0	0.01	48	0.19	0.02	0.2	1.8	10	<0.5
H181104		70.7	0.11	11.4	0.006	2.08	0.6	60.3	<0.01	1820	0.09	3.75	119.0	0.6	90	9.8
H181105		73.5	0.20	1.1	<0.005	2.94	<0.5	9070	<0.01	845	0.13	1.59	46.0	0.7	100	11.0
H181106		23.9	<0.05	3.7	0.006	0.88	13.9	139.5	0.16	206	1.51	5.14	6.2	0.6	60	19.5
H181107		59.4	<0.05	7.5	<0.005	0.72	1.0	4680	0.01	905	0.08	4.57	130.0	0.5	90	8.2
H181108		79.2	0.20	0.2	0.011	1.98	0.7	127.5	0.02	474	0.12	1.85	45.1	0.7	10	4.1
H181110		2.81	<0.05	0.1	0.009	0.03	0.7	5.2	0.34	417	0.09	0.03	0.9	4.5	120	1.6
H181114		26.2	0.19	2.9	2.04	1.04	7.9	19.2	1.21	940	6.65	0.56	2.1	49.6	290	22.7
H181115		19.40	0.21	3.8	0.363	3.99	9.2	20.2	0.90	1000	5.80	0.87	5.3	42.8	350	30.8
H181116		38.7	<0.05	9.1	0.076	1.21	10.9	9.5	0.03	4830	0.14	4.58	142.0	1.7	70	11.8
H181117		98.9	<0.05	3.9	<0.005	0.78	<0.5	>10000	<0.01	733	0.12	0.71	47.6	1.3	30	7.3
H181118		73.5	0.23	5.1	<0.005	2.25	<0.5	7100	0.01	750	0.11	2.20	63.6	0.7	110	8.2
H181119		18.45	<0.05	1.6	0.009	2.81	4.2	39.7	0.10	224	0.13	2.87	5.3	3.1	40	18.2
H181120		24.1	<0.05	1.6	0.039	3.69	7.1	14.3	0.02	530	1.37	3.06	34.9	0.5	40	55.0
H181121		16.75	<0.05	0.8	0.006	0.23	2.6	19.5	<0.01	29	0.10	2.85	38.6	0.5	40	7.8
H181122		64.7	<0.05	1.2	0.299	0.47	5.2	25.8	0.01	560	0.11	4.41	75.6	0.6	100	3.6
H181123		45.3	<0.05	0.4	0.250	2.16	3.0	24.8	0.02	91	0.10	3.74	56.1	0.5	100	7.7
H181124		53.4	0.24	1.4	0.013	2.92	1.5	6.3	<0.01	477	0.38	4.06	74.8	0.5	110	8.9
H181125		56.7	0.23	0.5	0.027	2.53	0.6	36.9	0.01	124	0.15	3.16	90.4	0.9	80	6.1
H181126		44.8	<0.05	3.3	<0.005	4.73	1.0	5.1	0.01	473	0.09	1.10	56.3	0.6	80	14.2
H181127		0.91	<0.05	<0.1	<0.005	0.09	<0.5	6.6	0.01	32	0.12	0.01	0.5	1.0	<10	1.9
H181128		28.3	0.21	0.9	0.015	5.64	1.4	6.2	<0.01	127	0.10	1.72	32.9	0.5	60	52.8
H181131		47.2	0.18	0.2	0.005	6.04	<0.5	4.4	<0.01	29	0.15	1.61	25.4	0.7	80	15.5
H181132		59.5	0.17	0.5	0.683	1.85	1.2	56.8	0.03	98	0.12	1.78	80.9	0.5	30	5.4
H181133		55.8	0.17	0.5	0.568	5.67	1.4	17.8	0.02	525	0.14	2.18	87.6	0.5	60	28.6
H181134		36.6	0.16	0.9	0.047	0.77	5.8	24.6	0.01	642	0.11	2.03	66.4	0.8	50	4.0
H181135		39.1	<0.05	2.2	0.065	1.66	7.8	33.9	0.08	339	0.11	3.09	40.7	1.2	70	7.4
H181136		52.5	<0.05	1.4	0.097	4.36	6.9	51.7	0.05	436	0.85	2.76	108.5	0.6	70	18.0
H181138		24.8	<0.05	2.2	0.040	0.30	4.9	21.1	0.01	215	0.95	3.70	136.5	0.4	40	9.6
H181231		107.5	<0.05	16.0	0.070	2.34	1.0	256	0.08	848	0.14	4.77	115.5	3.3	180	10.3
H181232		51.3	<0.05	7.0	0.006	0.35	<0.5	37.4	0.02	794	0.24	5.89	52.4	4.0	100	5.3
H181233		83.2	<0.05	8.5	<0.005	0.87	<0.5	214	0.02	2260	0.11	6.33	73.6	0.8	160	10.0
H181234		64.7	<0.05	5.2	0.007	1.03	0.8	2040	0.01	645	0.11	5.19	103.0	0.4	130	12.7
H181235		70.7	0.13	1.5	0.008	1.02	<0.5	63.9	<0.01	224	0.09	4.15	35.5	0.4	90	2.2
H181236		61.5	0.17	4.9	<0.005	2.89	<0.5	3830	<0.01	745	0.11	3.21	55.8	0.4	140	11.7
H181237		84.7	<0.05	0.6	<0.005	3.52	0.7	7310	0.02	491	0.11	1.16	59.8	1.4	50	15.0
H181238		1.98	0.06	0.3	0.035	0.07	1.2	9.9	0.36	343	0.25	0.08	0.8	2.5	420	40.0

\*\*\*\*\* See Appendix Paag for comments reardina this certificate \*\*\*\*\*





ALS Canada Ltd.  
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To: FLADGATE EXPLORATION CONSULTING  
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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB10162532**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	
H181101		710	<0.002	0.01	0.06	0.2	1	27.3	5.8	>100	<0.05	0.05	0.2	0.005	0.02	0.1	1
H181103		5.1	<0.002	<0.01	<0.05	0.1	1	0.2	2.1	0.09	<0.05	5.4	<0.005	4.37	6.3	1	1
H181104		1310	<0.002	<0.01	0.05	0.1	1	18.1	15.0	>100	<0.05	7.5	<0.005	8.79	6.6	4	1
H181105		2100	<0.002	<0.01	<0.05	0.2	1	19.1	23.0	100.0	<0.05	1.4	<0.005	17.65	1.0	1	1
H181106		103.0	<0.002	0.01	0.07	2.2	1	1.9	167.5	1.31	<0.05	11.2	0.078	0.98	1.8	9	9
H181107		470	<0.002	<0.01	<0.05	0.1	1	10.6	9.1	>100	0.05	6.5	<0.005	3.37	3.5	1	1
H181108		1290	<0.002	<0.01	<0.05	1.0	<1	33.9	18.0	54.4	<0.05	3.6	0.010	8.93	0.6	9	9
H181110		10.7	<0.002	0.01	0.09	3.7	1	0.5	10.5	0.39	<0.05	0.2	0.046	0.06	0.1	26	26
H181114		36.7	0.015	7.17	0.96	13.6	13	2.6	59.5	0.27	1.17	2.8	0.143	0.99	0.8	63	63
H181115		135.5	0.013	8.40	2.72	16.0	9	6.2	159.5	0.60	0.37	8.1	0.193	3.96	2.1	76	76
H181116		263	0.002	0.05	0.08	26.4	2	14.2	14.5	67.0	0.08	17.8	0.016	1.46	11.6	2	2
H181117		510	<0.002	0.03	0.07	1.3	1	28.1	8.0	64.2	<0.05	2.5	<0.005	3.69	3.6	3	3
H181118		1860	<0.002	<0.01	0.05	0.2	<1	26.1	17.0	>100	<0.05	2.5	<0.005	15.30	2.5	1	1
H181119		105.5	<0.002	<0.01	0.05	1.9	1	1.2	117.5	1.27	<0.05	6.4	0.042	0.62	3.4	3	3
H181120		193.5	<0.002	0.01	0.05	11.4	1	5.3	23.3	4.14	<0.05	6.9	0.009	1.02	3.6	2	2
H181121		37.9	<0.002	<0.01	<0.05	1.3	1	1.6	6.2	7.98	<0.05	4.7	<0.005	0.21	9.0	<1	<1
H181122		263	<0.002	<0.01	0.05	22.2	1	72.4	2.7	63.0	<0.05	14.6	<0.005	1.28	1.3	1	1
H181123		500	<0.002	<0.01	<0.05	25.1	1	55.4	6.4	16.40	<0.05	6.7	0.006	3.12	0.7	<1	<1
H181124		720	<0.002	<0.01	<0.05	2.1	1	6.9	8.0	27.0	<0.05	4.6	<0.005	4.42	1.5	1	1
H181125		830	<0.002	<0.01	<0.05	3.0	1	49.4	10.0	37.8	<0.05	2.4	<0.005	5.10	1.6	<1	<1
H181126		448	<0.002	<0.01	<0.05	0.2	1	6.2	31.1	72.1	<0.05	1.9	<0.005	5.21	3.1	2	2
H181127		6.7	<0.002	<0.01	<0.05	0.2	1	0.4	0.7	0.10	<0.05	<0.2	<0.005	0.03	0.1	2	2
H181128		620	<0.002	<0.01	<0.05	2.0	1	2.4	17.0	5.69	<0.05	3.1	<0.005	5.48	3.3	1	1
H181131		1300	<0.002	<0.01	<0.05	0.8	<1	3.8	22.0	22.5	<0.05	4.3	<0.005	9.13	1.5	<1	<1
H181132		421	<0.002	<0.01	<0.05	64.5	1	75.9	4.0	8.61	<0.05	1.3	0.012	2.23	0.2	<1	<1
H181133		990	<0.002	<0.01	<0.05	49.5	1	83.9	13.0	11.55	<0.05	1.1	0.009	6.53	1.1	<1	<1
H181134		357	<0.002	<0.01	<0.05	2.2	1	26.2	5.0	37.8	<0.05	8.4	<0.005	1.91	1.1	<1	<1
H181135		368	0.069	0.06	0.05	4.2	1	22.9	15.7	41.4	0.10	6.5	0.013	1.87	2.6	4	4
H181136		640	<0.002	<0.01	<0.05	8.7	1	27.8	57.4	16.10	0.06	5.7	0.020	3.87	2.1	2	2
H181138		54.1	<0.002	<0.01	<0.05	5.0	1	4.7	20.7	16.75	0.07	14.7	<0.005	0.30	4.6	1	1
H181231		1610	<0.002	0.01	0.07	1.3	1	53.5	21.2	>100	0.05	7.5	0.022	8.41	14.8	9	9
H181232		228	<0.002	<0.01	<0.05	0.2	1	12.0	38.0	98.5	<0.05	5.8	<0.005	1.16	8.0	2	2
H181233		770	<0.002	<0.01	<0.05	0.3	1	19.2	29.3	>100	<0.05	4.2	0.006	4.39	6.8	4	4
H181234		650	<0.002	<0.01	<0.05	0.2	1	15.6	5.6	>100	<0.05	10.2	<0.005	4.07	10.0	2	2
H181235		730	<0.002	<0.01	<0.05	0.1	<1	24.9	6.0	90.3	<0.05	1.5	<0.005	4.50	1.2	7	7
H181236		2280	<0.002	<0.01	<0.05	0.1	<1	15.7	20.0	>100	<0.05	1.8	<0.005	18.70	3.3	1	1
H181237		2110	<0.002	0.01	0.09	0.7	1	36.0	31.0	87.2	<0.05	4.0	0.006	15.55	8.0	4	4
H181238		6.4	<0.002	0.75	0.13	1.0	2	1.0	3.0	0.32	0.28	0.4	0.028	0.12	0.1	7	7

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB10162532**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
H181101		1.4	5.5	279	30.3
H181103		0.3	0.1	2	<0.5
H181104		1.1	7.5	30	69.7
H181105		0.4	1.9	78	4.8
H181106		0.4	5.0	22	103.0
H181107		1.0	3.9	70	38.9
H181108		2.1	0.8	21	1.3
H181110		0.1	2.8	15	4.0
H181114		0.4	10.5	6190	106.5
H181115		1.8	11.3	456	132.0
H181116		0.9	108.0	30	98.5
H181117		0.9	1.9	52	14.9
H181118		0.7	1.2	67	18.9
H181119		0.2	7.0	19	44.2
H181120		0.4	20.1	57	15.5
H181121		0.1	8.0	2	9.4
H181122		1.1	11.7	20	6.7
H181123		1.2	5.3	11	4.2
H181124		0.7	8.2	3	15.4
H181125		1.2	2.6	11	4.0
H181126		0.3	1.5	4	14.1
H181127		0.2	0.1	2	0.6
H181128		0.4	6.7	2	10.7
H181131		0.3	0.7	<2	2.0
H181132		2.1	3.0	29	5.7
H181133		1.5	10.7	11	6.9
H181134		1.6	15.1	30	5.7
H181135		1.3	12.4	25	25.8
H181136		0.9	8.7	27	33.5
H181138		0.4	19.5	9	31.0
H181231		5.9	4.8	346	84.6
H181232		0.6	7.3	7	41.2
H181233		1.1	3.2	13	31.5
H181234		1.3	6.0	87	30.9
H181235		0.8	0.9	24	6.6
H181236		0.5	1.5	14	19.4
H181237		1.4	4.0	38	3.8
H181238		0.3	2.3	38	12.3

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Project: COB- ZIG

CERTIFICATE OF ANALYSIS TB10162532

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Mo> 400ppm on ICP- MS Cd,ICP- AES results shown. REE's may not be totally soluble in this method.



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 Account: FLGEXP

**CERTIFICATE TB10167112**

Project: COB- ZIG  
 P.O. No.:  
 This report is for 29 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 11- NOV- 2010.  
 The following have access to data associated with this certificate:  
 AVERY HENDERSON      MICHAEL THOMPSON

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

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

To: FLADGATE EXPLORATION CONSULTING CORPORATION  
 ATTN: AVERY HENDERSON  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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.

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB10167112**

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm	ME- MS61 Fe %
H181201		4.39	0.09	8.93	0.7	220	2.80	0.20	8.08	0.11	15.85	42.4	181	24.5	110.0	9.24
H181202		4.22	0.04	6.27	1.3	20	186.5	0.98	0.12	0.09	1.28	0.4	5	343	1.9	0.39
H181203		4.65	0.13	6.78	0.5	30	2.34	0.24	9.19	0.14	5.59	40.0	173	92.5	374	15.20
H181204		4.42	0.06	7.87	0.6	20	97.1	1.32	1.05	1.45	2.33	3.8	20	>500	8.2	1.62
H181205		4.18	<0.01	7.18	0.7	30	105.5	0.40	0.32	0.14	1.04	0.6	4	201	7.3	0.39
H181206		3.02	<0.01	6.37	0.7	20	131.5	0.83	0.21	0.10	1.17	0.3	4	148.0	2.0	0.29
H181207		3.15	0.10	6.56	0.6	100	1.66	0.21	7.69	0.14	5.04	41.5	152	6.24	181.5	17.35
H181208		0.96	0.08	6.05	0.6	20	167.5	0.17	0.19	0.06	1.19	0.4	3	111.0	2.0	0.33
H181209		2.93	0.13	7.47	1.1	60	9.84	0.33	7.76	0.46	6.16	43.0	160	265	239	13.15
H181239		0.04	0.14	7.58	4.0	<10	541	0.71	0.44	<0.02	0.18	1.6	188	54.4	9.4	0.62
H181210		2.83	<0.01	6.01	0.7	10	117.0	0.41	0.09	0.23	0.85	0.2	4	284	2.3	0.30
H181211		3.71	0.26	6.59	0.5	20	3.00	0.55	8.21	0.24	7.01	37.1	143	91.4	767	16.85
H181212		3.58	0.03	6.79	0.7	30	215	0.89	0.15	0.11	0.81	0.9	6	>500	3.4	0.39
H181213		4.74	<0.01	6.62	0.6	60	113.5	0.71	0.23	0.07	0.83	0.8	6	>500	4.4	0.36
H181214		2.10	0.24	2.21	0.6	10	39.7	2.16	9.30	0.52	9.34	15.2	5	76.0	356	19.70
H181215		1.93	0.04	5.96	1.1	10	144.5	3.24	0.32	<0.02	1.31	0.8	7	242	3.8	0.83
H181216		5.30	0.01	6.92	1.4	30	116.0	0.31	0.16	<0.02	0.54	0.5	5	>500	2.7	0.44
H181217		4.39	0.03	8.34	0.7	110	1.12	0.07	6.63	0.13	6.54	52.9	211	41.1	20.5	9.87
H181218		3.71	0.06	6.50	0.4	10	123.0	8.75	0.07	<0.02	1.73	0.3	4	253	1.1	0.50
H181219		3.68	0.02	6.39	0.8	20	177.0	3.24	0.10	<0.02	1.02	0.4	4	255	1.1	0.50
H181240		0.82	0.07	6.62	0.5	910	1.43	0.08	0.98	0.02	146.0	2.6	10	2.96	5.2	1.33
H181220		3.39	0.02	6.37	1.0	10	85.5	3.54	0.10	0.09	0.51	0.3	4	452	1.1	0.31
H181221		1.81	0.12	8.49	1.3	40	8.43	0.48	8.63	0.32	6.69	47.6	223	335	159.5	7.46
H181222		2.82	0.03	6.37	2.5	40	138.0	1.18	0.23	0.15	0.49	0.7	5	>500	1.8	0.41
H181223		2.45	0.07	8.07	0.7	60	2.49	0.15	8.10	0.25	6.48	47.7	175	317	45.4	9.39
H181224		2.48	0.02	6.32	<0.2	20	108.5	10.20	0.34	<0.02	1.45	0.8	4	82.1	3.7	0.34
H181225		2.34	0.11	8.99	<0.2	130	2.46	0.18	8.52	0.13	7.57	57.3	247	11.00	226	8.15
H181226		2.55	<0.01	6.03	<0.2	10	72.7	19.60	0.22	0.02	1.02	0.5	4	60.5	5.3	0.30
H181227		3.33	0.08	8.32	<0.2	90	1.80	0.11	8.34	0.11	6.90	50.5	229	22.0	127.0	8.03

\*\*\*\*\* See Appendix Paee for comments reardina this certificate \*\*\*\*\*



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To: FLADGATE EXPLORATION CONSULTING  
 CORPORATION  
 195 PARK AVE  
 THUNDER BAY ON P7B 1B9

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Project: COB- ZIG

**CERTIFICATE OF ANALYSIS TB10167112**

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
H181201		18.50	0.20	1.4	0.053	0.37	7.2	620	4.05	2960	0.12	1.43	3.2	118.5	360	2.0
H181202		61.0	0.10	3.1	<0.005	1.38	<0.5	3140	0.02	548	0.06	3.45	67.2	3.4	210	3.3
H181203		14.05	0.24	0.8	0.051	0.29	2.2	610	3.98	5720	0.22	0.71	2.0	104.5	250	0.7
H181204		60.8	0.09	3.9	<0.005	1.18	0.9	640	0.36	1600	0.06	4.42	48.8	13.1	2230	10.4
H181205		67.1	0.10	5.1	<0.005	1.08	<0.5	152.5	0.03	581	<0.05	4.86	59.1	2.6	510	2.9
H181206		58.2	0.09	4.0	<0.005	0.88	<0.5	163.5	0.01	529	0.06	5.02	74.4	2.5	590	2.6
H181207		13.85	0.31	1.0	0.048	0.22	1.9	253	3.95	5940	0.11	0.82	1.9	109.5	230	0.5
H181208		57.7	0.08	4.9	<0.005	0.83	<0.5	93.6	0.01	464	0.05	4.67	86.5	2.5	260	2.6
H181209		16.80	0.23	1.1	0.051	0.39	2.5	720	3.90	4620	0.22	1.04	2.6	115.5	230	1.3
H181239		43.3	0.08	1.9	<0.005	0.21	<0.5	>10000	0.03	1160	0.35	0.59	112.5	4.5	7120	5.1
H181210		57.3	0.09	3.1	<0.005	1.69	<0.5	5340	0.01	588	0.06	2.95	155.0	2.2	240	4.5
H181211		13.50	0.30	1.0	0.048	0.27	3.0	337	4.22	8150	0.19	0.64	2.2	88.3	280	0.7
H181212		66.8	0.08	2.5	<0.005	1.32	<0.5	8740	0.02	907	0.08	2.22	46.7	2.5	290	4.2
H181213		59.7	0.09	3.1	<0.005	1.21	<0.5	5300	0.03	737	0.05	3.21	65.0	2.4	460	4.2
H181214		9.63	0.24	0.6	0.054	0.16	4.3	90.8	3.08	10600	0.27	0.32	4.9	18.8	170	1.7
H181215		41.3	0.12	4.1	<0.005	1.17	0.6	299	0.03	781	0.06	2.64	32.9	2.5	120	4.5
H181216		51.6	0.12	2.9	<0.005	3.07	<0.5	3890	0.03	432	0.08	2.29	29.4	2.0	290	10.5
H181217		16.55	0.18	1.2	0.062	0.24	2.5	760	2.96	3440	0.16	1.72	2.3	147.0	220	1.6
H181218		63.0	0.09	2.7	<0.005	1.68	0.6	7430	0.01	712	0.08	2.62	79.6	2.2	110	4.3
H181219		60.7	0.11	2.4	<0.005	2.35	<0.5	5320	0.01	604	0.05	2.53	67.3	1.8	120	5.4
H181240		17.65	0.23	6.7	0.014	3.85	80.6	44.8	0.24	212	0.12	2.41	3.8	2.9	330	34.9
H181220		54.9	0.10	1.4	<0.005	2.31	<0.5	8690	0.01	542	0.05	1.49	28.6	1.7	350	6.6
H181221		16.35	0.15	0.5	0.054	0.33	2.9	448	2.73	2400	0.13	0.66	3.3	150.0	240	2.0
H181222		55.7	0.10	1.8	<0.005	1.79	<0.5	7370	0.03	528	0.06	2.25	64.1	2.1	310	7.0
H181223		16.60	0.18	0.7	0.061	0.42	2.7	1330	4.39	2770	0.08	1.01	2.2	131.0	250	1.1
H181224		47.0	0.09	3.6	<0.005	2.16	0.5	73.7	0.03	248	<0.05	4.20	61.6	3.0	310	4.8
H181225		18.55	0.17	0.5	0.059	0.54	3.4	230	3.81	2070	0.15	0.95	2.1	179.0	220	3.5
H181226		48.7	0.06	2.2	<0.005	1.95	<0.5	47.7	0.02	114	0.06	4.22	56.6	4.0	170	4.7
H181227		17.50	0.18	0.5	0.057	0.46	2.7	161.0	3.80	1960	0.14	0.87	1.8	125.0	220	2.3

\*\*\*\*\* See Appendix Paee for comments reardina this certificate \*\*\*\*\*

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To: FLADGATE EXPLORATION CONSULTING  
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Project: COB-ZIG



**CERTIFICATE OF ANALYSIS TB10167112**

Method Analyte Units LOR	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Tl %	ME-MS61 TI ppm	ME-MS61 U ppm	ME-MS61 V ppm
H181201	123.5	<0.002	0.01	0.18	37.0	1	3.2	163.5	0.86	<0.05	1.9	0.489	1.01	0.4	267
H181202	1860	<0.002	<0.01	0.96	0.2	1	67.7	5.5	>100	<0.05	2.7	0.005	13.25	2.7	2
H181203	95.6	0.002	0.51	29.5	2	2	4.0	23.0	0.98	0.07	0.2	0.384	1.02	0.1	218
H181204	3090	<0.002	<0.01	0.52	2.9	1	92.1	18.8	>100	0.06	4.2	0.039	22.1	8.9	22
H181205	1640	<0.002	0.01	0.31	0.3	1	77.3	14.9	>100	0.05	3.7	0.005	9.01	2.8	2
H181206	1150	<0.002	<0.01	0.54	0.2	1	62.9	7.1	>100	0.05	2.6	<0.005	6.75	3.6	1
H181207	18.0	<0.002	0.39	0.44	24.3	2	2.9	38.6	1.07	0.05	0.2	0.393	0.27	0.1	233
H181208	1130	<0.002	<0.01	0.30	0.2	1	55.0	6.6	>100	0.05	3.5	<0.005	6.77	3.8	1
H181209	259	0.002	0.28	0.69	31.7	2	30.0	77.9	1.24	0.05	0.3	0.426	2.83	0.1	239
H181239	58.6	<0.002	0.03	1.25	0.7	1	106.5	13.3	63.6	<0.05	<0.2	0.038	0.95	0.8	8
H181210	2240	<0.002	<0.01	0.41	0.1	1	70.4	3.6	>100	<0.05	2.5	<0.005	17.50	2.9	1
H181211	107.5	0.005	1.93	0.47	31.0	3	13.8	31.4	1.11	0.17	0.4	0.339	0.98	0.1	194
H181212	2780	<0.002	0.01	1.59	0.1	1	90.4	8.2	>100	<0.05	2.8	<0.005	18.95	3.2	1
H181213	2270	<0.002	0.01	1.23	0.2	<1	105.5	18.9	>100	<0.05	4.1	<0.005	14.90	3.3	1
H181214	162.5	0.002	2.53	0.48	3.9	3	26.0	46.5	12.70	0.28	0.7	0.038	1.37	0.4	19
H181215	1850	<0.002	0.01	0.52	0.1	1	91.7	34.6	>100	0.12	6.0	<0.005	10.25	3.7	1
H181216	4370	<0.002	0.02	0.43	0.1	1	101.5	8.9	>100	<0.05	2.6	<0.005	34.2	2.0	1
H181217	36.2	<0.002	0.01	0.64	42.7	1	2.7	151.5	1.69	<0.05	0.3	0.488	0.58	0.1	278
H181218	1960	<0.002	<0.01	0.30	0.2	1	63.9	2.7	>100	<0.05	3.1	<0.005	13.80	2.4	1
H181219	2550	<0.002	<0.01	0.29	0.2	1	86.9	5.7	83.4	<0.05	1.9	<0.005	18.55	2.4	1
H181240	145.0	<0.002	0.01	<0.05	3.2	1	0.9	231	0.77	<0.05	43.3	0.118	0.84	2.5	15
H181220	3040	<0.002	<0.01	0.58	0.1	1	54.3	4.6	>100	<0.05	1.2	<0.005	24.7	0.8	1
H181221	337	<0.002	0.02	1.43	40.4	1	15.9	123.5	3.55	<0.05	0.5	0.417	3.33	0.2	245
H181222	2570	<0.002	<0.01	4.02	0.3	1	46.2	12.3	>100	<0.05	2.3	<0.005	22.6	1.8	2
H181223	436	<0.002	<0.01	0.85	38.2	1	5.5	123.0	0.88	<0.05	0.3	0.479	4.71	0.1	272
H181224	2070	<0.002	<0.01	0.09	0.3	<1	39.9	8.0	>100	<0.05	2.9	<0.005	13.85	2.4	3
H181225	141.5	<0.002	0.01	0.15	49.4	1	4.7	111.5	0.48	0.05	0.3	0.420	0.77	0.1	268
H181226	1870	<0.002	<0.01	0.07	0.2	1	42.1	5.9	>100	<0.05	1.7	<0.005	12.30	1.8	2
H181227	127.0	<0.002	0.01	0.12	51.4	1	2.9	111.5	0.27	<0.05	0.2	0.446	0.80	0.1	278

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



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Project: COB- ZIG

CERTIFICATE OF ANALYSIS TB10167112

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
H181201		0.7	16.5	82	44.7
H181202		1.0	2.0	92	20.8
H181203		0.6	17.7	90	23.9
H181204		1.9	4.9	143	15.9
H181205		1.2	2.1	94	23.4
H181206		1.1	3.0	62	23.1
H181207		2.1	19.5	88	29.7
H181208		1.0	2.7	39	32.8
H181209		4.7	17.5	118	31.8
H181239		6.9	0.4	69	21.4
H181210		1.0	2.0	80	19.2
H181211		4.5	17.7	106	30.2
H181212		1.8	1.0	105	10.1
H181213		1.6	1.1	96	12.1
H181214		17.2	13.4	70	19.8
H181215		1.8	0.8	40	11.7
H181216		1.0	0.8	41	10.6
H181217		0.4	18.1	87	38.1
H181218		0.9	1.3	102	17.5
H181219		1.2	1.7	123	15.7
H181240		0.1	5.2	40	231
H181220		0.7	1.2	50	4.5
H181221		4.5	15.2	90	11.0
H181222		0.9	1.1	46	7.8
H181223		1.9	18.1	98	22.1
H181224		0.8	2.4	33	20.3
H181225		0.8	18.2	98	11.2
H181226		0.8	1.6	24	11.4
H181227		3.8	17.8	96	10.0

\*\*\*\*\* See Appendix Paee for comments reardina this certificate \*\*\*\*\*





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Project: COB- ZIG

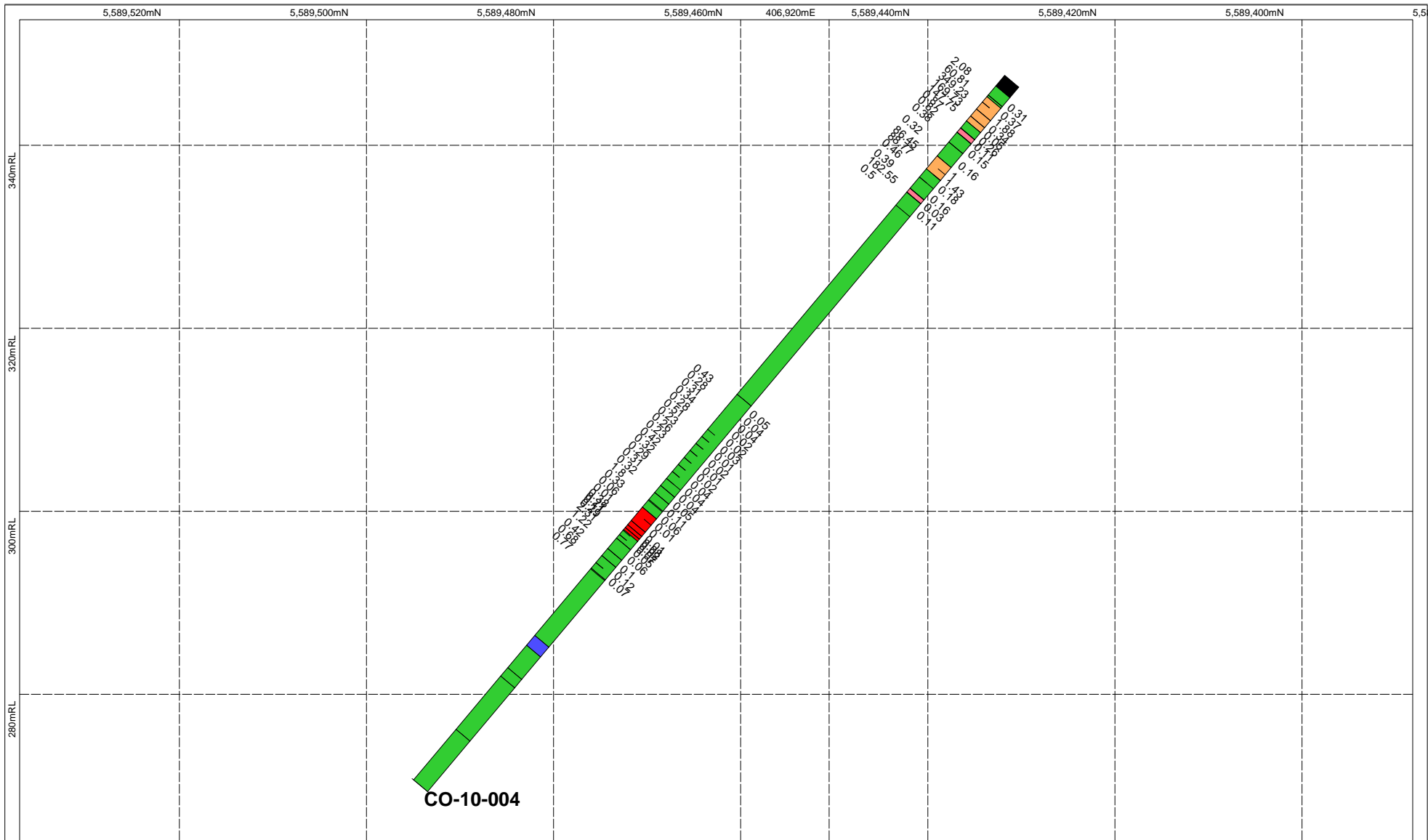
CERTIFICATE OF ANALYSIS TB10167112

Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.

## Appendix IV – Drillhole Sections

See attached Drill Sections



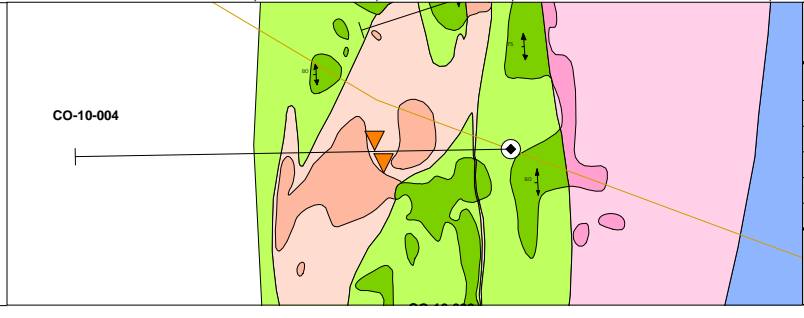


**CO-10-004**

**Legend**

4 Lithium bearing pegmatite	Fall 2010 Program Grab Samples
3 Albite-microcline granite	MDI Showing (Tebishogeshik)
2 Basic intrusive (diabase?)	Historical Channel Sample (Bird River Mines, 1979, with anomalous Ta results)
1 Schistose basic volcanics	Historical Channel Sample (Bird River Mines, 1975, with anomalous Li results)
Casing/Overburden	Grid lines (Dempster Explorations, 1958)
Foliation measurement	DDH Hole (Dempster Explorations, 1958)
Bedding measurement	2011 Drilling Program (Fladgate Exploration)

**Hole ID**



**Fladgate Exploration**  
consulting corporation

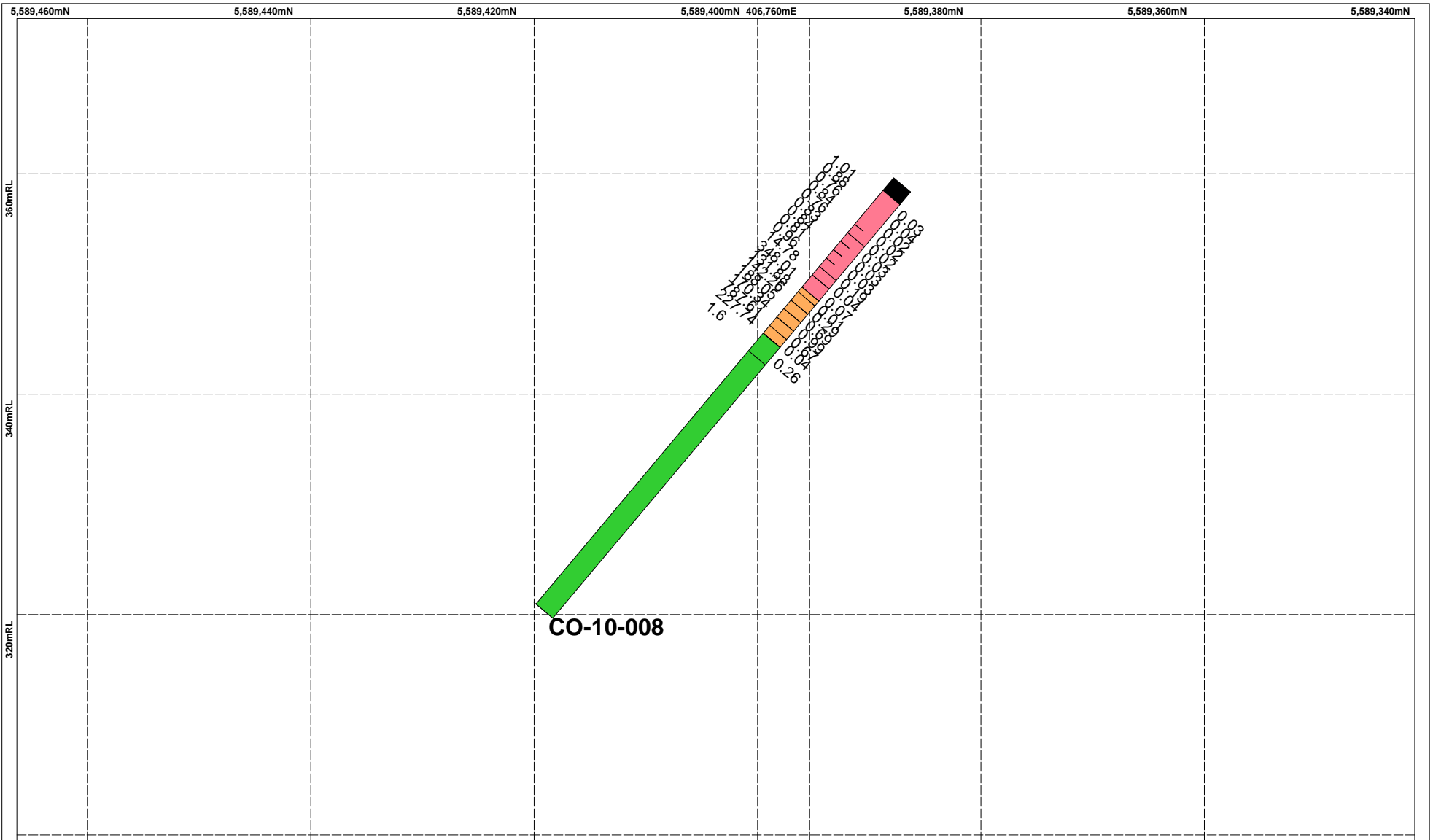
Date: 8/4/2011	<b>Canadian Orebodies</b> <b>ZigZag Property</b>  <b>2011 Drill Program</b> <b>CO-10-004</b>
Author: A. Henderson	
Office: T. Bay	
Drawing: N/A	
Scale: 1:800	Projection: Non-Earth (meters)

0 5 10 20  
metres







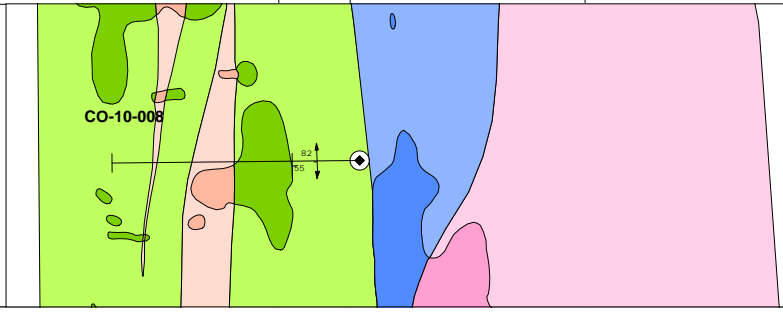


**CO-10-008**

**Legend**

4 Lithium bearing pegmatite	Fall 2010 Program Grab Samples
3 Albite-microcline granite	MDI Showing (Tebishogeshik)
2 Basic intrusive (diabase?)	Historical Channel Sample (Bird River Mines, 1979, with anomalous Ta results)
1 Schistose basic volcanics	Historical Channel Sample (Bird River Mines, 1975, with anomalous Li results)
Casing/Overburden	Grid lines (Dempster Explorations, 1958)
Foliation measurement	DDH Hole (Dempster Explorations, 1958)
Bedding measurement	2011 Drilling Program (Fladgate Exploration)

**Hole ID**  
 Trench (m/min)  
 L (m)



**Fladgate Exploration**  
 consulting corporation

Canadian Orebodies  
 ZigZag Property

2011 Drill Program  
 CO-10-008

Date: 06/04/2011  
 Author: A. Henderson  
 Office: T. Bay  
 Drawing: N/A  
 Scale: 1:500  
 Projection: UTM Zone 16 (NAD 83)

0 5 10 20  
 metres









## Appendix V – Detailed Drill Logs

See attached Drill Logs  
(printed on Legal size paper)



Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 347	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -50	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 100.5	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 17-Jan-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 25-Jan-11				<b>Surveyed:</b>
<b>Logged:</b> 15-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 406924	<b>East:</b> 406924	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589431	<b>North:</b> 5589431	<b>Making water:</b> no
		<b>Elev.:</b> 347	<b>Elev.:</b> 347	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	347.00	-50.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
0.00	1.50	<b>CS</b> <i>Overburden/Casing</i> Overburden/Casing.						
1.50	3.03	<b>MV</b> <i>Mafic Metavolcanic</i> Basic metavolcanics, foliated. Interlayered carb veining throughout.	E450963	1.50	2.80	1.30	0.31	2.08
		<i>Structure Maj.:</i> 2.00 - 2.00						
		<i>Type/Core Angle</i> FOL 30						
3.03	6.50	<b>PEG</b> <i>Pegmatite</i> Coarse-grained pegmatite, white. Abundant qtz, feldspar, and large spodumene crystals. Abundant muscovite as well. Spodumenes are ~1-4cm in length; qtz blebs are ~1-3cm; micas ~1-3cm. No obvious alteration. Equigranular texture throughout.	E450964	2.80	3.80	1.00	0.37	60.81
			E450965	3.80	4.80	1.00	1.88	349.23
			E450966	4.80	5.80	1.00	0.34	169.73
			E450967	5.80	6.50	0.70	0.05	147.75
6.50	7.50	<b>MV</b> <i>Mafic Metavolcanic</i> Back to basic metavolcanic. Minor carb veining throughout.	E450968	6.50	7.50	1.00	0.26	0.87

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
7.50	8.10	<b>GRAN Granite</b> White granite, fairly med-grained. Foliated. Mostly feldspar with bt, aligned to the foliation. Not evidence of spodumene.	E450969	7.50	8.10	0.60	0.11	0.82
		<b>Structure Maj.:</b> 7.80 - 7.80						
		<b>Type/Core Angle</b> FOL 28						
8.10	11.49	<b>MV Mafic Metavolcanic</b> Metavolcanic, greenschist facies. Foliated, same orientation as above.	E450970	8.10	9.50	1.40	0.15	0.38
			E450971	9.50	11.49	1.99	0.16	0.32
11.49	13.32	<b>PEG Pegmatite</b> Same composition as previous pegmatite interval. Equigranular composition of qtz, muscovite, feldspar and spodumene. Spodumene crystals appear slightly larger in this interval (~1-5cm).	E450972	11.49	12.50	1.01	1.00	86.45
			E450973	12.50	13.32	0.82	1.43	88.77
13.32	16.10	<b>MV Mafic Metavolcanic</b> Basic metavolcanic.	E450974	13.32	14.50	1.18	0.18	0.46
			E450975	14.50	16.10	1.60	0.16	0.39

**LITHOLOGY REPORT**  
- Detailed -

Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
16.10	16.65	<b>GRAN Granite</b> Small granite interval. Dissimilar from previous unit. Coarser-grained, not foliated. More pink hue, mostly composed of qtz and k-spar.	E450976	16.10	16.65	0.55	0.03	182.55
16.65	45.50	<b>MV Mafic Metavolcanic</b> Basic metavolcanic. Abundant carb veining throughout (no veining exceeds ~1cm in width). Two minor qtz veins @ 19.12 (5cm), and 22.93 (13cm).	E450977	16.65	18.50	1.85	0.11	0.50
		<b>Structure Maj.:</b>						
		28.50 - 28.50						
		<b>Type/Core Angle</b>						
		FOL 32						
		<b>Comment</b>						
45.50	61.60	<b>MV Mafic Metavolcanic</b> General composition is similar to previous intervals, however gradually becoming more altered and commonly interbedded with sulphides throughout, mostly py+po; ~4-5% of combined py+po. Very foliated throughout.	E450978	45.50	46.50	1.00	0.05	0.43
			E450979	46.50	47.50	1.00	0.04	0.28
			E450980	47.50	48.50	1.00	0.04	0.31
			E450981	48.50	49.50	1.00	0.02	0.34
			E450983	49.50	50.50	1.00	0.02	0.28
			E450984	50.50	51.50	1.00	0.03	0.51
			E450985	51.50	52.50	1.00	0.01	0.23
			E450986	52.50	53.50	1.00	0.02	0.26
			E450987	53.50	54.50	1.00	0.01	0.23
			E450988	54.50	55.50	1.00	0.02	0.42
			E450989	55.50	56.50	1.00	0.04	0.32
		<b>Structure Maj.:</b>						
		49.50 - 49.50						
		59.00 - 59.00						
		<b>Type/Core Angle</b>						
		FOL 34						
		FOL 36						
		<b>Comment</b>						

**LITHOLOGY REPORT**  
- Detailed -

Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
			E450990	56.50	57.50	1.00	0.04	0.29
			E450991	57.50	58.50	1.00	0.04	0.31
			E450992	58.50	59.50	1.00	0.05	0.32
			E450993	59.50	60.50	1.00	0.11	1.80
			E450994	60.50	61.60	1.10	0.06	0.33
61.60	64.80	<b>QTZ Quartz Vein</b> Large qtz vein; bull white. No visible mineralization in vein itself, however abundant sulphides surrounding vein in mafic volcanics (~1-3% py+po).	E450995	61.60	62.50	0.90	0.01	0.06
			E450996	62.50	63.50	1.00	0.00	0.01
			E450997	63.50	64.10	0.60	0.01	0.38
			E450998	64.10	64.50	0.40	0.08	0.21
			E450999	64.50	64.90	0.40	0.02	0.11
64.80	70.30	<b>MV Mafic Metavolcanic</b> Similar to previous interval. Very foliated, at times chaotic with angles to CA <10. Moderate sulphides throughout, mostly po+py (~1-5%); mostly concentrated along foliation planes.	H073051	64.90	65.50	0.60	0.07	0.29
			H073052	65.50	66.00	0.50	0.05	2.31
			H073053	66.00	67.50	1.50	0.06	1.22
			H073054	67.50	68.50	1.00	0.10	0.42
			H073055	68.50	69.50	1.00	0.12	0.68
			H073056	69.50	70.30	0.80	0.07	0.77
		<b>Structure Maj.:</b>						
		65.50 - 65.50	<b>Type/Core Angle</b>					
			FOL 29					
		67.00 - 67.00	FOL 8					
		70.00 - 70.00	FOL 33					
70.30	79.90	<b>MV Mafic Metavolcanic</b> Foliated mafic volcanic, greenschist facies. Meta facies increases ~75.5-78m to amphibolite facies, characterized by abundant garnets, ~0.2-0.8cm in size; no change in foliation.						



Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
79.90	81.30	<b>MT</b> <i>Mafic Metaintrusive</i> More intusive texture, slight fol; gradational contact?						
81.30	84.50	<b>MV</b> <i>Mafic Metavolcanic</i> Bedded, light in colour (looks like sed); altered mafic volcanics, amphibolite facies? Fine-grained, possibly fine-grained garnets contained within layers.						
84.50	85.70	<b>MV</b> <i>Mafic Metavolcanic</i> Basic mafic metavolcanics, foliated, no alteration.						
85.70	93.30	<b>MV</b> <i>Mafic Metavolcanic</i> Metavolcanics with small feldspars stretched in foliation plane, could be interval of small lapilli (<0.2cm in size); abundant. No more foliated than previous intervals.						

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-004**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
93.30	100.50	<b>MV</b> <b>Mafic Metavolcanic</b> Back to altered layer of metavolcanics, very foliated, light in colour. Interbedded with minor qtz+carb veining. Possible interbedded layers of fine-grained ankerite, although very acicular grains in texture, could also be intermixed with bt.						

Hole Number **CO-10-005**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 330	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -50	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 50.9	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 26-Jan-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 26-Jan-11				<b>Surveyed:</b>
<b>Logged:</b> 16-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 406953	<b>East:</b> 406953	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589428	<b>North:</b> 5589428	<b>Making water:</b> no
		<b>Elev.:</b> 346	<b>Elev.:</b> 346	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	330.00	-50.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-005**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
0.00	0.37	<b>CS</b> <b>Overburden/Casing</b>						
0.37	10.73	<b>GRAN</b> <b>Granite</b> Black & white granite, mostly feldspar + bt (almost 50/50). Most of feldspar contained in matrix, however small (~<0.2cm) abundant feldspar phenos are consistent throughout entire interval. Well foliated.	H073057	0.37	1.50	1.13	0.05	0.59
			H073058	1.50	2.50	1.00	0.04	0.60
			H073059	2.50	3.50	1.00	0.04	0.70
			H073060	3.50	4.50	1.00	0.05	0.76
			H073061	4.50	5.50	1.00	0.05	2.70
			H073062	5.50	6.50	1.00	0.06	0.73
			H073063	6.50	7.50	1.00	0.08	0.71
			H073064	7.50	8.50	1.00	0.07	0.98
			H073065	8.50	9.50	1.00	0.07	0.73
			H073066	9.50	10.73	1.23	0.08	1.18
10.73	11.26	<b>PEG</b> <b>Pegmatite</b> Very coarse-grained pegmatite interval. Mostly feld, qtz and spodumene (~1-2cm in length). Small interval (10cm) of abundant lenticular black crystals, possibly tantalite, aligned with foliation, same as spodumene; crystals are slightly weathered, but clearly black; soft; crystals are ~0.5-1cm in length, 1:3 l/w ratio. Some garnets noticed as well, only a couple crystals, <0.3cm in size.	H073067	10.73	11.26	0.53	0.59	319.93
11.26	11.89	<b>GRAN</b> <b>Granite</b> Back to granite, same composition as previous interval.	H073068	11.26	11.89	0.63	0.15	38.46

**Structure Maj.:**      **Type/Core Angle**      **Comment**  
8.50 - 8.50      FOL 36

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-005**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
11.89	14.48	<b>PEG</b> <i>Pegmatite</i> Similar in composition, however crystals are noticeably larger/longer (spodumene, 2-4cm). Instances of abundant muscovite as well. Qtz occurs as blebs throughout, feldspar composes majority of matrix.	H073069	11.89	12.50	0.61	0.94	235.67
			H073070	12.50	13.50	1.00	0.67	120.03
			H073071	13.50	14.48	0.98	0.05	272.31
14.48	18.50	<b>GRAN</b> <i>Granite</i> Back to similar granite as previous intervals; mostly feldspar with abundant bt aligned in foliation.	H073072	14.48	15.50	1.02	0.20	1.54
			H073073	15.50	16.50	1.00	0.07	1.12
			H073074	16.50	17.50	1.00	0.06	1.10
			H073076	17.50	18.50	1.00	0.06	28.33
		<b>Structure Maj.:</b> <i>Type/Core Angle</i> <i>Comment</i> 17.50 - 17.50 FOL 30						
18.50	19.50	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated mafic volcanics; minor carb veining throughout interval; possible ankerite.	H073077	18.50	19.50	1.00	0.49	0.79
19.50	21.10	<b>PEG</b> <i>Pegmatite</i> Coarse-grained peg interval; mostly composed of feldspar+qtz; spodumene is present as large crystals	H073078	19.50	20.50	1.00	0.24	76.44
			H073079	20.50	21.10	0.60	0.05	115.15

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-005**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
		(~1-4cm), however are sporadic throughout interval; muscovite common alongside spodumene. Garnets also present, only 2-3 grains noticed, ~0.2-0.7cm in size.						
21.10	30.36	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated metavolcanics, no mineralization; foliated, slightly more altered in some places. Carb stringers common throughout.	H073080	21.10	22.50	1.40	0.22	0.93
			H073081	22.50	23.50	1.00	0.07	0.38
			H073082	23.50	30.36	6.86	0.05	0.63
30.36	30.75	<b>GRAN</b> <i>Granite</i> Small interval of granite. Very coarse-grained, could very well be a small pegmatite zone, however no spodumene present; mostly composed of feldspar matrix with qtz blebs.	H073083	30.36	30.75	0.39	0.03	116.86
30.75	35.30	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated metavolcanics, common carb veinlets throughout. Some possible ankerite veinlets in places. Qtz blebs/veinlets observed in places.	H073084	30.75	32.50	1.75	0.06	10.64
		<b>Structure Maj.:</b>						
		33.00 - 33.00	<b>Type/Core Angle</b>					
			FOL 25					
		<b>Comment</b>						

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-005**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
35.30	50.90	<b>MV</b> <b>Mafic Metavolcanic</b> Interbedded mafic volcanics with carb bands; foliated. Two larger bands of qtz/carb veining: 40.1-40.45m, and 41.6-42m; second vein is mostly composed of qtz with some interstitial bt.	H073085	38.50	40.00	1.50	0.03	0.59
			H073086	40.00	40.50	0.50	0.04	1.07
			H073087	40.50	41.50	1.00	0.03	0.65
			H073088	41.50	42.00	0.50	0.01	0.59
			H073089	42.00	43.50	1.50	0.01	0.39

Hole Number **CO-10-006**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 345	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -60	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 50.5	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 26-Jan-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 27-Jan-11				<b>Surveyed:</b>
<b>Logged:</b> 16-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 406899	<b>East:</b> 406899	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589412	<b>North:</b> 5589412	<b>Making water:</b> no
		<b>Elev.:</b> 353	<b>Elev.:</b> 353	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	345.00	-60.00	C	<input checked="" type="checkbox"/>	



LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-006**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
0.00	0.50	<b>CS</b> <i>Overburden/Casing</i>						
0.50	19.80	<b>GRAN</b> <i>Granite</i> Black & white granite, foliated; mostly feldspar with interstitial bt aligned in fol. Equigranular for the most part, and consistent composition and texture throughout interval. Small vein mostly qtz+feld, absend of bt (altered qtz vein), 11.65-11.8m. No min.	H073090	0.50	1.50	1.00	0.04	0.55
			H073091	1.50	2.50	1.00	0.03	0.51
			H073092	2.50	3.50	1.00	0.04	0.68
			H073093	3.50	4.50	1.00	0.04	0.56
			H073094	4.50	5.50	1.00	0.04	0.49
			H073095	5.50	6.50	1.00	0.04	0.51
			H073096	6.50	7.50	1.00	0.04	173.40
			H073097	7.50	8.50	1.00	0.05	0.66
			H073098	8.50	9.50	1.00	0.05	0.71
			H073099	9.50	10.50	1.00	0.05	0.61
			H073101	10.50	11.50	1.00	0.05	0.71
			H073102	11.50	12.50	1.00	0.05	154.47
			H073103	12.50	13.50	1.00	0.06	0.84
			H073104	13.50	14.50	1.00	0.07	6.44
			H073105	14.50	15.50	1.00	0.06	63.62
			H073106	15.50	16.50	1.00	0.06	1.07
			H073107	16.50	17.50	1.00	0.07	5.23
			H073108	17.50	18.50	1.00	0.06	2.91
			H073109	18.50	19.80	1.30	0.07	1.64
		<b>Structure Maj.:</b> 6.50 - 6.50	<b>Type/Core Angle</b> FOL 30	<b>Comment</b>				

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-006**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
19.80	22.37	<b>PEG</b> <i>Pegmatite</i> Coarse-grained pegmatite unit. Very distinct qtz blebs, muscovite and spodumene crystals embedded in a mostly feldspar-dominant matrix. Spodumenes are ~0.5-2cm in size/length. Overall grains are very angular. Gradational lower contact into a more granite composition, much less spodumene.	H073110	19.80	20.50	0.70	0.40	127.60
			H073111	20.50	21.75	1.25	1.28	170.34
			H073112	21.75	22.40	0.65	0.07	120.16
22.37	23.50	<b>GRAN</b> <i>Granite</i> Back to standard foliated granite.	H073113	22.40	23.60	1.20	0.17	1.36
		<i>Structure Maj.:</i> 23.00 - 23.00						
		<i>Type/Core Angle</i> FOL 45						
		<i>Comment</i>						
23.50	26.85	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated metavolcanic, interbedded carb veinlets, very fine-grained.	H073114	23.60	25.50	1.90	0.34	0.40
			H073115	25.50	26.85	1.35	0.29	4.35
26.85	30.50	<b>PEG</b> <i>Pegmatite</i> Similar composition to previous peg interval, spodumene occurs more as interstitial 'veins' than actual full crystals; more med-grained relative to previous pegmatite units.	H073116	26.85	27.50	0.65	0.02	110.02
			H073117	27.50	28.50	1.00	0.31	106.97
			H073118	28.50	29.50	1.00	0.06	142.87
			H073119	29.50	30.50	1.00	0.05	197.82

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-006**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
30.50	50.50	<b>MV</b> <b>Mafic Metavolcanic</b> Foliated mafic volcanics, carb veins and veinlets throughout; larger carb vein at ~35m, 7-10cm wide. Foliation gradually shallows downhole.	H073120	30.50	32.50	2.00	0.27	0.70
		<b>Structure Maj.:</b> 46.50 - 46.50						
		<b>Type/Core Angle</b> FOL 15						
		<b>Comment</b>						

Hole Number **CO-10-007**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 345	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -55	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 50	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 29-Jan-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 31-Jan-11				<b>Surveyed:</b>
<b>Logged:</b> 16-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 406839	<b>East:</b> 406839	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589410	<b>North:</b> 5589410	<b>Making water:</b> no
		<b>Elev.:</b> 354	<b>Elev.:</b> 354	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	345.00	-55.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-007**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
0.00	1.50	<b>CS</b> <i>Overburden/Casing</i>						
1.50	2.55	<b>MV</b> <i>Mafic Metavolcanic</i> Basic metavolcanic.	H073121	1.60	2.55	0.95	0.10	0.49
2.55	4.45	<b>GRAN</b> <i>Granite</i> Foliated granite, mostly feldspar with bt.	H073122 H073123	2.55 3.50	3.50 4.45	0.95 0.95	0.05 0.03	1.20 4.65
4.45	4.80	<b>PEG</b> <i>Pegmatite</i> Small unit of pegmatite, mostly characterized by large feldspars; no spodumene.	H073124	4.45	4.85	0.40	0.01	305.28

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-007**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
4.80	7.15	<b>GRAN</b> <i>Granite</i> Foliated granite, similar to previous unit.	H073126	4.85	6.00	1.15	0.03	1.43
			H073127	6.00	7.15	1.15	0.03	23.75
		<b>Structure Maj.:</b> 6.00 - 6.00						
		<b>Type/Core Angle</b> FOL 28						
		<b>Comment</b>						
7.15	12.45	<b>MV</b> <i>Mafic Metavolcanic</i> Basic metavolcanic unit, greenschist facies.	H073128	7.15	8.50	1.35	0.09	1.60
			H073129	8.50	10.50	2.00	0.06	0.71
			H073130	10.50	12.45	1.95	0.14	0.70
12.45	18.45	<b>PEG</b> <i>Pegmatite</i> Very coarse-grained pegmatite unit. Qtz blebs, spodumene and feldspar abundant, as well as associated muscovite. Spodumene mostly abundant in upper half of unit, as well with qtz. Bottom half is mostly comprised of feldspar, although spodumene and qtz are still present, in lesser amounts and as smaller crystals. Some potassic alt seen in unit.	H073131	12.45	13.50	1.05	0.93	253.99
			H073132	13.50	14.50	1.00	1.05	278.41
			H073133	14.50	15.50	1.00	1.33	187.44
			H073134	15.50	16.50	1.00	1.68	69.48
			H073135	16.50	17.50	1.00	0.34	214.91
			H073136	17.50	18.55	1.05	0.01	177.67
18.45	50.00	<b>MV</b> <i>Mafic Metavolcanic</i> Basic mafic volcanics, qtz and carb stringers throughout.	H073137	18.55	21.50	2.95	0.03	0.76
		<b>Structure Maj.:</b> 29.00 - 29.00						
		<b>Type/Core Angle</b> FOL 30						
		<b>Comment</b>						

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-007**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> <i>(%)</i>	<i>Ta2O5</i> <i>(ppm)</i>
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Hole Number **CO-10-008**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 350	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -50	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 50.5	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 01-Feb-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 02-Feb-11				<b>Surveyed:</b>
<b>Logged:</b> 17-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 406761	<b>East:</b> 406761	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589387	<b>North:</b> 5589387	<b>Making water:</b> no
		<b>Elev.:</b> 359	<b>Elev.:</b> 359	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	350.00	-50.00	C	<input checked="" type="checkbox"/>	



LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-008**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
0.00	1.50	<b>CS</b>	<b>Overburden/Casing</b>						
1.50	12.95	<b>GRAN</b>	<b>Granite</b>						
			Foliated granite, mostly feldspar+qtz; black bt aligned with foliation plane.	H073138	1.50	2.50	1.00	0.03	1.01
				H073139	2.50	3.50	1.00	0.04	0.88
				H073140	3.50	4.50	1.00	0.02	0.76
				H073141	4.50	5.50	1.00	0.02	0.84
				H073142	5.50	6.50	1.00	0.02	0.76
				H073143	6.50	7.50	1.00	0.03	0.83
				H073144	7.50	8.50	1.00	0.03	0.84
				H073145	8.50	9.50	1.00	0.03	0.81
				H073146	9.50	10.50	1.00	0.19	0.96
				H073147	10.50	11.50	1.00	0.04	14.78
				H073148	11.50	12.95	1.45	0.07	348.01
12.95	18.42	<b>PEG</b>	<b>Pegmatite</b>						
			Very coarse-grained pegmatite. Mostly feldspar matrix, coupled with abundant dark qtz in places. Spodumene is abundant with associated muscovite; spodumene ranges in size ~0.5-4cm, euhedral crystals. Local instances of tantalite crystals, ~1-2cm in length.	H073149	12.95	13.50	0.55	0.01	131.88
				H073151	13.50	14.50	1.00	0.29	142.26
				H073152	14.50	15.50	1.00	0.69	188.05
				H073153	15.50	16.50	1.00	0.99	170.34
				H073154	16.50	17.50	1.00	0.67	787.61
				H073155	17.50	18.42	0.92	0.04	227.74
18.42	50.50	<b>MV</b>	<b>Mafic Metavolcanic</b>						
			Mafic metavolcanics, greenschist facies; interbedded carb veins/veinlets throughout, some bands of	H073156	18.42	20.50	2.08	0.26	1.60

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-008**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> <i>(%)</i>	<i>Ta2O5</i> <i>(ppm)</i>
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ankerite as well. Minor qtz vein/veinlets are common.

<i>Structure Maj.:</i>	<i>Type/Core Angle</i>	<i>Comment</i>
34.00 - 34.00	FOL 29	
47.00 - 47.00	FOL 30	

Hole Number **CO-10-009**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 345	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -50	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 51	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 03-Feb-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 04-Feb-11				<b>Surveyed:</b>
<b>Logged:</b> 17-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysics:</b> None
		<b>East:</b> 0	<b>East:</b> 407144	<b>Geophysic Contractor:</b>
		<b>North:</b> 0	<b>North:</b> 5589476	<b>Left in hole:</b> Nothing
		<b>Elev.:</b> 0	<b>Elev.:</b> 345	<b>Making water:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	<b>Multi shot survey:</b> no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	345.00	-50.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
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Hole Number **CO-10-009**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
0.00	0.50	<b>CS</b> <i>Overburden/Casing</i>						
0.50	4.25	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated mafic volcanics, fairly light in colour. Banded with alternating carb veinlets.	H073157	2.50	4.25	1.75	0.05	0.72
4.25	5.10	<b>GRAN</b> <i>Granite</i> Small unit of granite, could be considered pegmatite; no spodumene, some potassic alt.	H073158	4.25	5.10	0.85	0.01	0.94
5.10	10.50	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated greenschist volcanics, alternating bands of carb.	H073159 H073160	5.10 8.50	6.50 10.50	1.40 2.00	0.03 0.15	0.46 1.99
		<b>Structure Maj.:</b> 8.50 - 8.50						
		<b>Type/Core Angle</b> FOL 17						
		<b>Comment</b>						

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-009**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
10.50	18.65	<b>PEG</b> <i>Pegmatite</i> Very coarse-grained pegmatite; mostly feldspar matrix, pink hue (k alt). Very euhedral qtz crystals, dark and mostly equigranular, ~0.5-1cm. Spodumene is abundant throughout, very euhedral, ~0.5-2cm in size.	H073161	10.50	11.50	1.00	0.02	189.27
			H073162	11.50	12.50	1.00	0.03	189.88
			H073163	12.50	13.50	1.00	0.09	250.33
			H073164	13.50	14.50	1.00	0.18	249.10
			H073165	14.50	15.50	1.00	0.81	155.69
			H073166	15.50	16.50	1.00	0.69	135.54
			H073167	16.50	17.50	1.00	0.99	158.74
			H073168	17.50	18.65	1.15	0.02	178.28
18.65	26.25	<b>MV</b> <i>Mafic Metavolcanic</i> Greenschist facies mafic volcanics, foliated with common carb stringers throughout.	H073169	18.65	20.50	1.85	0.20	0.50
			H073170	24.50	26.25	1.75	0.10	0.45
26.25	27.50	<b>PEG</b> <i>Pegmatite</i> Small interval of pegmatite, similar in composition to previous peg unit.	H073171	26.25	27.50	1.25	0.01	243.00
27.50	41.25	<b>MV</b> <i>Mafic Metavolcanic</i> Greenschist facies mafic volcanics, similar to previous units.	H073172	27.50	29.50	2.00	0.07	0.49
			H073173	39.50	41.25	1.75	0.08	0.60

LITHOLOGY REPORT  
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Hole Number **CO-10-009**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
41.25	42.08	<b>PEG</b> <i>Pegmatite</i> Coarse-grained pegmatite unit, mostly feldspar+qtz, spodumene is sparse and med-grained (<1cm).	H073174	41.25	42.10	0.85	0.01	175.84
42.08	51.00	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated greenschist volcanics.	H073176	42.10	44.50	2.40	0.07	0.53
		<i>Structure Maj.:</i> 43.50 - 43.50						
		<i>Type/Core Angle</i> FOL 25						
		<i>Comment</i>						

Hole Number **CO-10-010**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 345	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -55	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 81	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 05-Feb-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 07-Feb-11				<b>Surveyed:</b>
<b>Logged:</b> 17-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysics:</b> None
		<b>East:</b> 0	<b>East:</b> 407153	<b>Geophysic Contractor:</b>
		<b>North:</b> 0	<b>North:</b> 5589451	<b>Left in hole:</b> Nothing
		<b>Elev.:</b> 0	<b>Elev.:</b> 345	<b>Making water:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	<b>Multi shot survey:</b> no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	345.00	-55.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-010**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
0.00	3.00	<b>CS</b> <i>Overburden/Casing</i>						
3.00	34.20	<b>GRAN</b> <i>Granite</i> Black & white granite, foliated; mostly bt with feldspar and qtz; bt ~40%, feld+qtz ~ 60%.	H073177	3.00	5.00	2.00	0.02	1.16
			H073178	5.00	7.00	2.00	0.02	0.62
			H073179	7.00	9.00	2.00	0.03	0.61
			H073180	9.00	11.00	2.00	0.03	0.55
			H073181	11.00	13.00	2.00	0.03	0.72
			H073182	13.00	15.00	2.00	0.03	0.57
			H073183	15.00	17.00	2.00	0.03	0.60
			H073184	17.00	19.00	2.00	0.03	0.99
			H073185	19.00	21.00	2.00	0.04	0.74
			H073186	21.00	23.00	2.00	0.03	0.82
			H073187	23.00	25.00	2.00	0.04	0.62
			H073188	25.00	27.00	2.00	0.04	0.61
			H073189	27.00	29.00	2.00	0.04	0.54
			H073190	29.00	31.00	2.00	0.05	1.87
			H073191	31.00	33.00	2.00	0.05	0.65
			H073192	33.00	33.85	0.85	0.06	0.71
			H073193	33.85	34.20	0.35	0.68	0.51
		<b>Structure Maj.:</b> 15.50 - 15.50						
		<b>Type/Core Angle</b> FOL 11						
		<b>Comment</b>						



LITHOLOGY REPORT  
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Hole Number **CO-10-010**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
34.20	37.85	<b>PEG</b> <i>Pegmatite</i> Coarse-grained peg unit, mostly large feldspar crystals with associated qtz. Very little muscovite observed, spodumene are sporatically found throughout unit, fairly abundant; ~0.5-2cm in length. Minerals are suddenly aligned in a foliation @ 35m to end of unit (~0 degrees to CA).	H073194	34.20	35.00	0.80	0.01	385.87
			H073195	35.00	36.00	1.00	0.23	230.79
			H073196	36.00	37.00	1.00	1.86	204.53
			H073197	37.00	37.85	0.85	1.51	145.31
37.85	44.60	<b>GRAN</b> <i>Granite</i> Granite similar to previous unit.	H073198	37.85	39.00	1.15	0.13	31.02
			H073199	39.00	41.00	2.00	0.08	0.95
			H073201	41.00	43.00	2.00	0.07	0.66
			H073202	43.00	44.60	1.60	0.08	1.07
44.60	45.10	<b>PEG</b> <i>Pegmatite</i> Small unit of peg, mostly feldspar, some spodumene and qtz. Some associated, fine-grained muscovite.	H073203	44.60	45.10	0.50	0.01	247.88

LITHOLOGY REPORT  
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Hole Number **CO-10-010**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
45.10	61.70	<b>GRAN Granite</b> Similar granite to previous intersections, some compositional changes within interval (modal amounts). Foliated.	H073204	45.10	47.00	1.90	0.08	1.01
			H073205	47.00	49.00	2.00	0.07	0.78
			H073206	49.00	51.00	2.00	0.15	13.25
			H073207	51.00	53.00	2.00	0.07	0.72
			H073208	53.00	55.00	2.00	0.05	0.67
			H073209	55.00	57.00	2.00	0.05	0.83
			H073210	57.00	59.00	2.00	0.06	1.10
			H073211	59.00	60.95	1.95	0.05	0.85
			H073212	60.95	61.30	0.35	0.02	4.87
			H073213	61.30	61.70	0.40	0.04	3.20
61.70	62.23	<b>PEG Pegmatite</b> Med-grained peg, some larger feldspar crystals (~3-4cm). No visible spodumene.	H073214	61.70	62.23	0.53	0.01	222.24
62.23	71.40	<b>GRAN Granite</b> Granite same composition as previous intervals.	H073215	62.23	64.00	1.77	0.04	17.16
			H073216	64.00	66.00	2.00	0.04	0.98
			H073217	66.00	68.00	2.00	0.03	0.78
			H073218	68.00	71.40	3.40	0.03	0.94
71.40	81.00	<b>MV Mafic Metavolcanic</b> Basic metavolcanic greenschist. Foliated, observable by carb veinlets.	H073219	71.40	73.00	1.60	0.03	0.50

LITHOLOGY REPORT  
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Hole Number **CO-10-010**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
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Hole Number **CO-10-011**

Project: **ARMSTRONG**

Project Number: **001**

<b>Drilling</b>	<b>Casing</b>	<b>Core</b>	<b>Location</b>	<b>Other</b>
<b>Azimuth:</b> 345	<b>Length:</b> 0	<b>Dimension:</b> BTW	<b>Township:</b> CRESCENT	<b>Logged by:</b> Avery Henderson
<b>Dip:</b> -50	<b>Pulled:</b> no	<b>Storage:</b> Thunder Bay	<b>Claim No.:</b>	<b>Relog by:</b>
<b>Length:</b> 50.2	<b>Capped:</b> yes	<b>Section:</b>	<b>NTS:</b> 052I08	<b>Contractor:</b> Rugged Aviation Inc.
<b>Started:</b> 08-Feb-11	<b>Cemented:</b> no	<b>Hole Type</b> DD	<b>Hole:</b> SURFACE	<b>Spotted by:</b> Avery Henderson
<b>Completed:</b> 08-Feb-11				<b>Surveyed:</b>
<b>Logged:</b> 17-Feb-11				<b>Surveyed by:</b>
<b>Comment:</b>				<b>Geophysics:</b> None
		<b>Coordinate - Gemcom</b>	<b>Coordinate - UTM</b>	<b>Geophysic Contractor:</b>
		<b>East:</b> 407422	<b>East:</b> 407422	<b>Left in hole:</b> Nothing
		<b>North:</b> 5589521	<b>North:</b> 5589521	<b>Making water:</b> no
		<b>Elev.:</b> 355	<b>Elev.:</b> 355	<b>Multi shot survey:</b> no
			<b>Zone:</b> 16 <b>NAD:</b> NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	345.00	-50.00	C	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-011**

Project: **ARMSTRONG**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2 (%)</i>	<i>Ta2O5 (ppm)</i>
0.00	0.50	<b>CS</b> <i>Overburden/Casing</i>						
0.50	14.06	<b>MV</b> <i>Mafic Metavolcanic</i> Basic mafic metavolcanics. Foliated, carb veinlets/banding throughout.	H073220	11.50	14.06	2.56	0.09	0.95
		<b>Structure Maj.:</b> 11.50 - 11.50						
		<b>Type/Core Angle</b> FOL 26						
14.06	18.56	<b>PEG</b> <i>Pegmatite</i> Coarse-grained pegmatite unit, large qtz and feldspar crystals, both ~2-6cm, inconsistent modal percentages through, however abundant in each. Qtz is very dark. Spodumene present throughout unit, both as large euhedral crystals (~0.5-2cm), and as long acicular laths, aligned with a foliation (+/- 0 degrees TCA). Laths are ~1-2cm long.	H073221 H073222 H073223 H073224 H073226	14.06 14.50 15.50 16.50 17.50	14.50 15.50 16.50 17.50 18.56	0.44 1.00 1.00 1.00 1.06	0.02 0.28 0.75 0.03 0.03	207.59 148.36 75.71 79.49 144.70
18.56	21.15	<b>MV</b> <i>Mafic Metavolcanic</i> Greenschist mafic volcanic.	H073227	18.56	21.15	2.59	0.21	28.21

LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-011**

Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
21.15	23.70	<b>PEG</b> <i>Pegmatite</i> Abundant qtz, feldspar, muscovite with spodumene. No foliation in this interval, mostly large euhedral/angular crystals; similar to previous peg unit.	H073228	21.15	22.50	1.35	0.02	119.79
			H073229	22.50	23.70	1.20	0.01	48.36
23.70	39.50	<b>MV</b> <i>Mafic Metavolcanic</i> Banded mafic volcanics with qtz and carb veinlets. Some veins are 8-15cm in width, no associated min. Increasing bt aligned within foliation downhole.	H073230	23.70	25.50	1.80	0.16	1.25
			H073231	37.50	39.50	2.00	0.08	0.46
39.50	39.80	<b>PEG</b> <i>Pegmatite</i> White pegmatite, mostly white feldspar+qtz, very little spodumene (fine-grained).	H073232	39.50	39.85	0.35	0.06	638.64
39.80	40.85	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated greenschist metavolcanics.	H073233	39.85	40.85	1.00	0.13	22.59

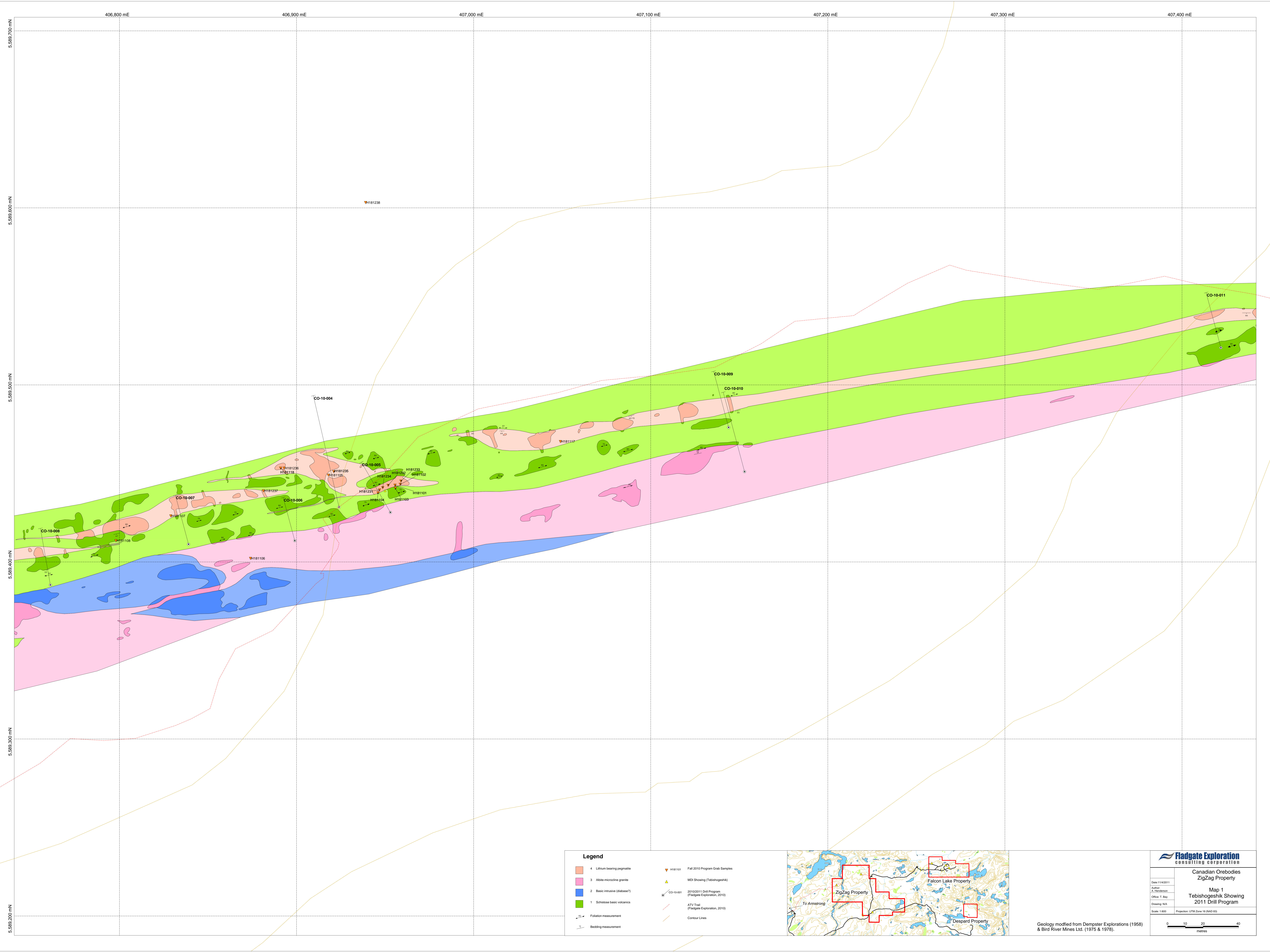
LITHOLOGY REPORT  
- Detailed -

Hole Number **CO-10-011**

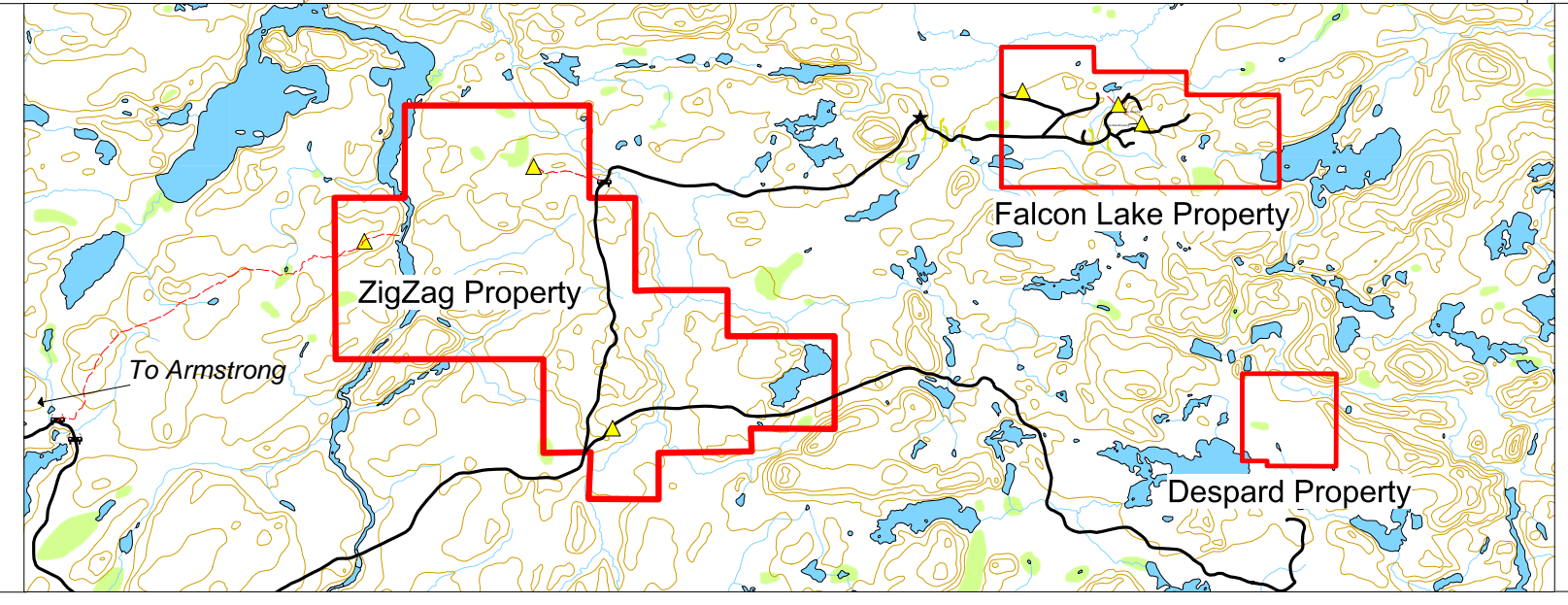
Project: **ARMSTRONG**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>LiO2</i> (%)	<i>Ta2O5</i> (ppm)
40.85	41.95	<b>PEG</b> <i>Pegmatite</i> Coarse-grained pegmatite; similar to previous peg unit, very little visible spodumene.	H073234	40.85	41.95	1.10	0.02	274.75
41.95	50.20	<b>MV</b> <i>Mafic Metavolcanic</i> Foliated greenschist metavolcanics.	H073235	41.95	44.50	2.55	0.19	0.73



- Legend**
- 4 Lithium bearing pegmatite
  - 3 Albite-microcline granite
  - 2 Basic intrusive (dabase?)
  - 1 Schistose basic volcanics
  - Foliation measurement
  - Bedding measurement
  - H18101 Fall 2010 Program Grab Samples
  - MDI Showing (Tebishogoshik)
  - CO-10-001 2010/2011 Drill Program (Fladgate Exploration, 2010)
  - ATV Trail (Fladgate Exploration, 2010)
  - Contour Lines



**Fladgate Exploration**  
consulting corporation

Canadian Orebodies  
ZigZag Property

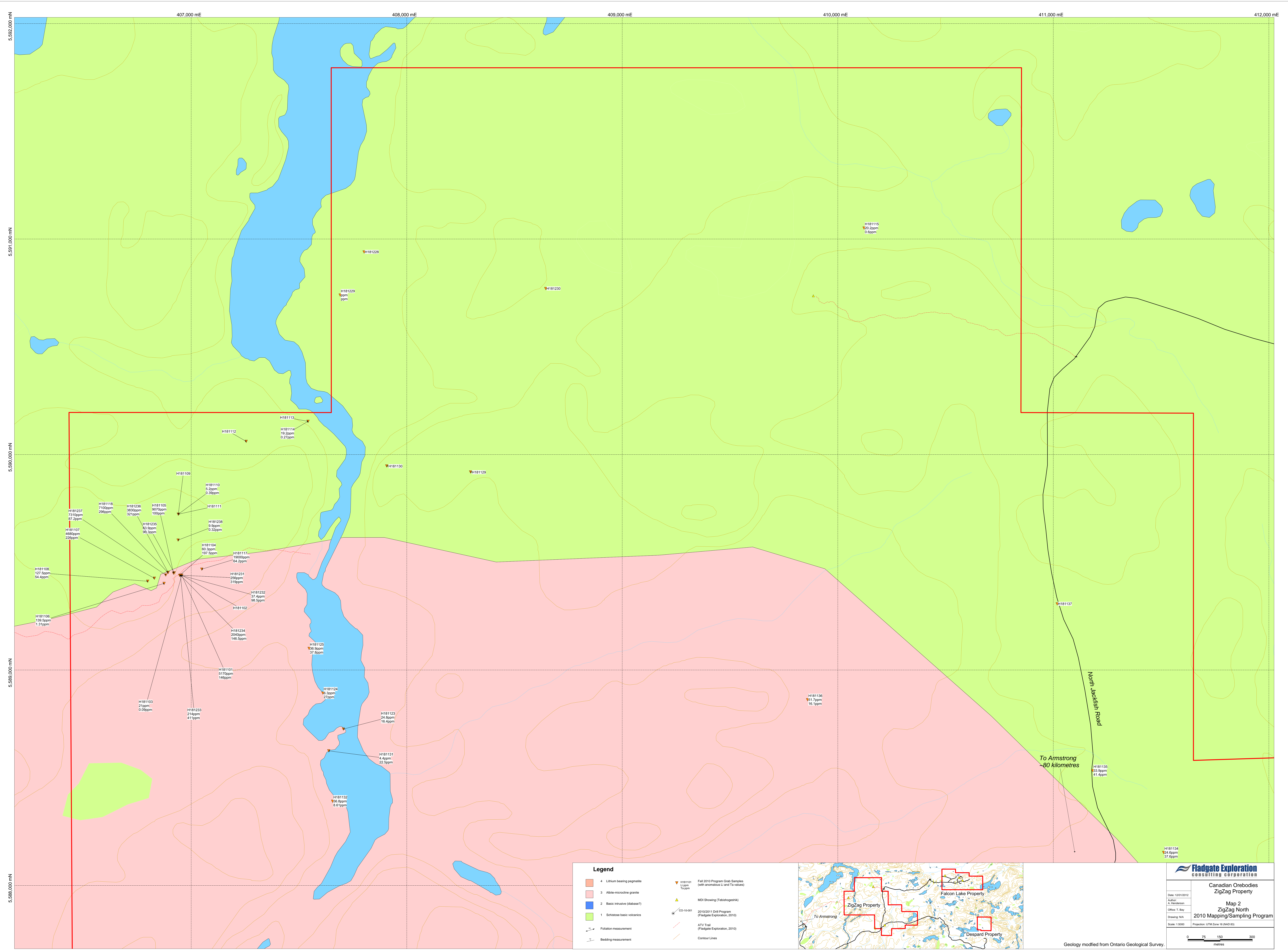
Map 1  
Tebishogoshik Showing  
2011 Drill Program

Date: 11/6/2011  
Author: A. Henderson  
Client: T. Day  
Drawing: N/A  
Scale: 1:800  
Projection: UTM Zone 16 (NAD 83)

0 10 20 40  
metres

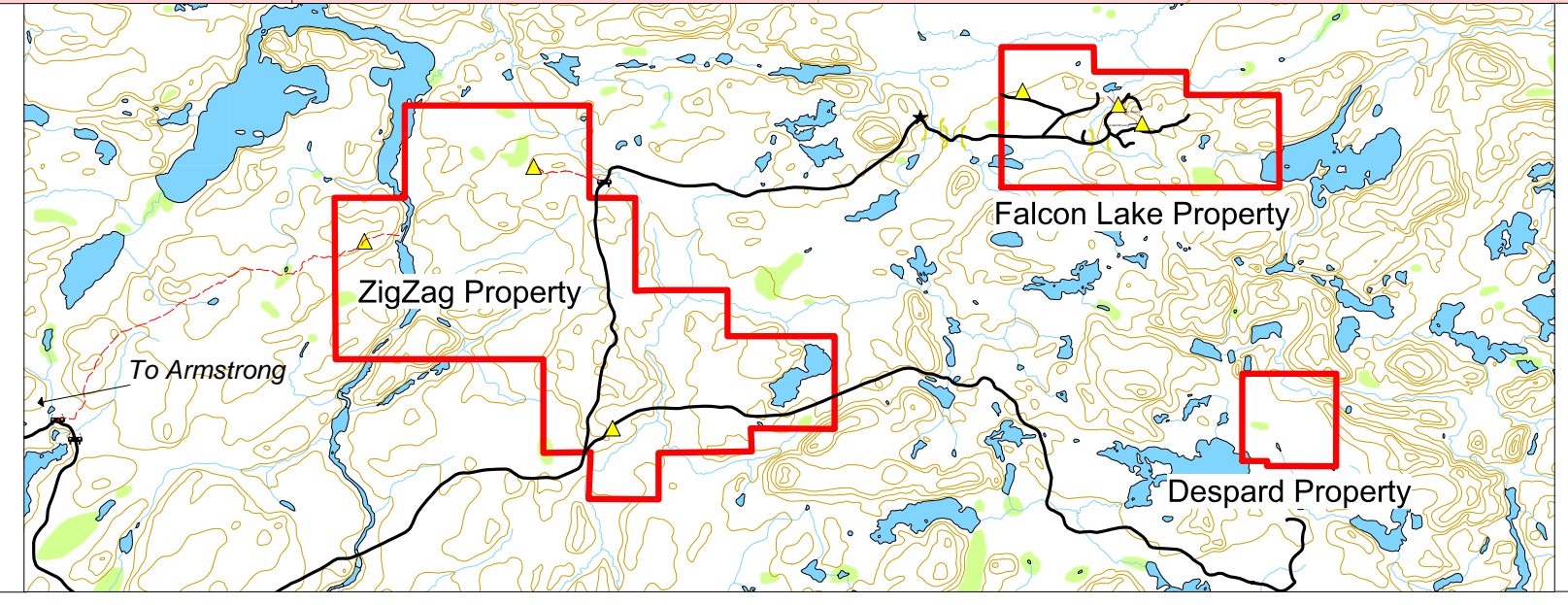
Geology modified from Dempster Explorations (1958) & Bird River Mines Ltd. (1975 & 1978).





**Legend**

- 4 Lithium bearing pegmatite
- 3 Albita-microcline granite
- 2 Basic intrusive (dabase?)
- 1 Schistose basic volcanics
- Foliation measurement
- Bedding measurement
- H181101 1.9ppm  
1.9ppm
- CD-10-001
- 2010/2011 Drill Program  
(Falcon Lake Exploration, 2010)
- ATTI Trail  
(Falcon Lake Exploration, 2010)
- Contour Lines
- Fal 2010 Program Grab Samples  
(with anomalous Li and Ta values)
- MDI Showing (Tebahogehshik)



**Fladgate Exploration**  
consulting corporation

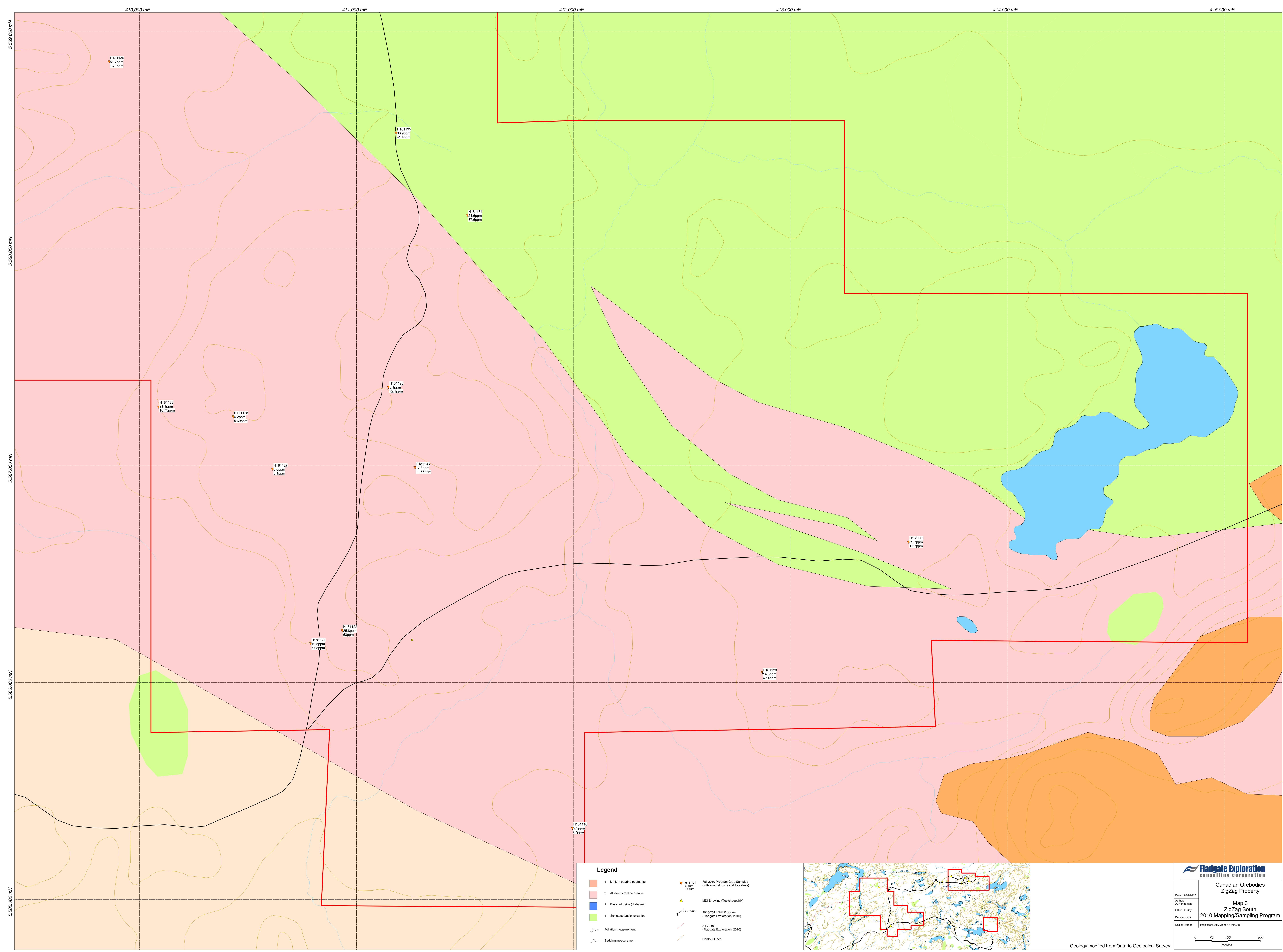
Canadian Orebodies  
ZigZag Property

Date: 10/01/2012  
Author: A. Henderson  
Client: 3 Day  
Drawing: N/A  
Scale: 1:5000  
Projection: UTM Zone 18 (NAD 83)

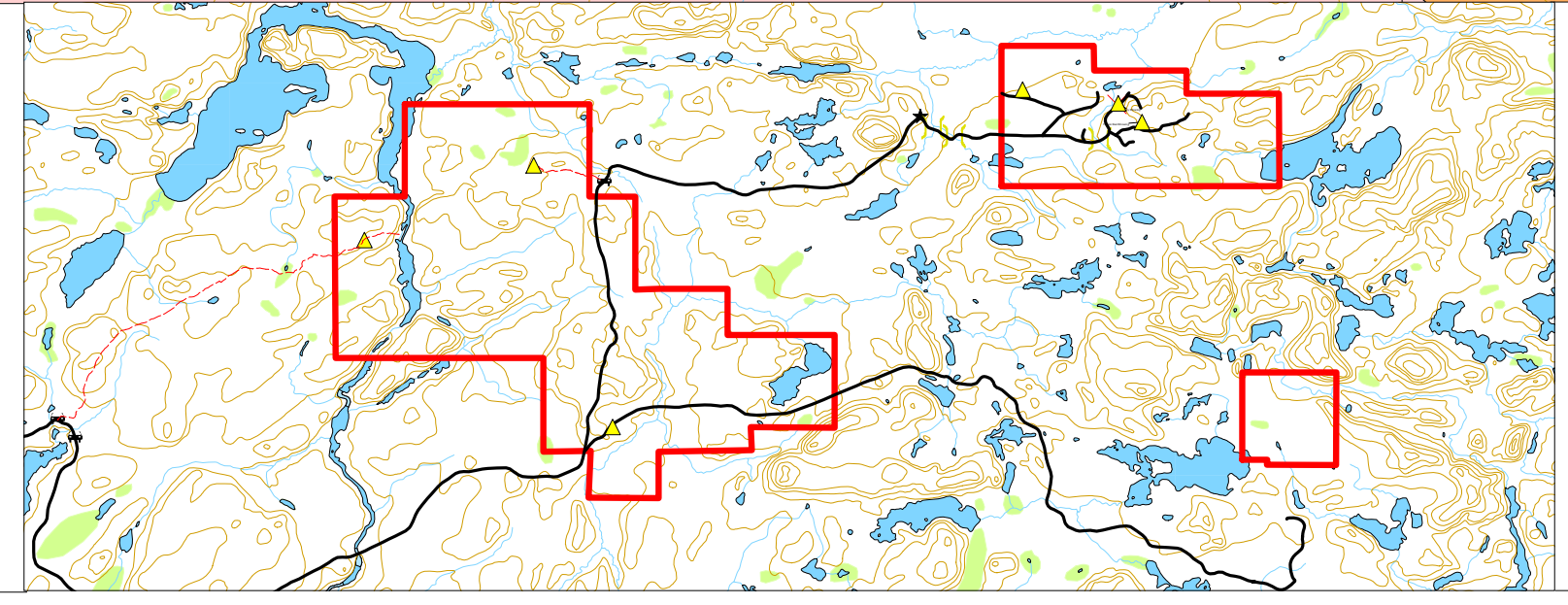
Map 2  
ZigZag North  
2010 Mapping/Sampling Program

0 75 150 300  
metres

Geology modified from Ontario Geological Survey.



- Legend**
- 4 Lithium bearing pegmatite
  - 3 Abitibi-microcline granite
  - 2 Basic intrusive (diabase?)
  - 1 Schistose basic volcanics
  - Foliation measurement
  - Bedding measurement
  - H181101 1.0ppm  
1.9ppm
  - Fal 2010 Program Grab Samples (with anomalous Li and Ta values)
  - MDI Showing (Tebahogeshki)
  - CD-10-001
  - 2010/2011 Drill Program (Fladgate Exploration, 2010)
  - ATV Trail (Fladgate Exploration, 2010)
  - Contour Lines



**Fladgate Exploration**  
consulting corporation

Canadian Orebodies  
ZigZag Property

Date: 10/01/2012  
Author: J. Henderson  
Office: St. John's  
Drawing: N/A  
Scale: 1:5000  
Projection: UTM Zone 18 (NAD 83)

Map 3  
ZigZag South  
2010 Mapping/Sampling Program

0 75 150 300  
metres

Geology modified from Ontario Geological Survey.