

NTS 92G.039  
Lat. 49° 18' 19.61"  
Long 122° 21' 51.63"

Assessment Report  
On The  
Bar-J Claim  
2015

Joseph Baril  
#153-3031 Williams Road  
Richmond, B.C.  
V7E-4G1  
Owner/Operator/Author

*NEW WESTMINSTER  
MINING DIV.*

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

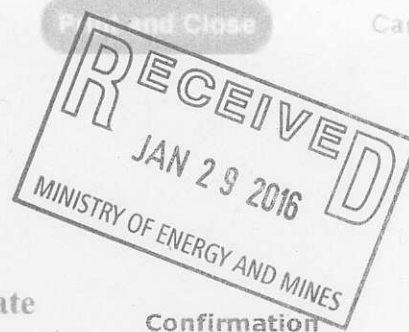
**35,821**



BRITISH  
COLUMBIA

## Mineral Titles Online

### Mineral Claim Exploration and Development Work/Expiry Date Change



**Recorder:** BARIL, JOSEPH ROBERT  
DEAN (262233)

**Submitter:** BARIL, JOSEPH ROBERT  
DEAN (262233)

**Recorded:** 2015/SEP/12

**Effective:** 2015/SEP/12

**D/E Date:** 2015/SEP/12

#### Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

**Event Number:** 5569983

**Work Type:** Technical Work  
**Technical Items:** Prospecting

**Work Start Date:** 2014/NOV/1

**Work Stop Date:** 2015/SEP/1

**Total Value of Work:** \$ 6600.00

**Mine Permit No:**

#### Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Sub- mission Fee
1031742	BAR-J	2014/oct/22	2015/oct/12	2018/oct/12	1096	147.44	\$ 3665.76	\$ 0.00

#### Financial Summary:

**Total applied work value:** \$ 3665.76

**PAC name:** Joseph Robert Dean Baril FMC#262233

**Debited PAC amount:** \$ 0.0

**Credited PAC amount:** \$ 2,934.24

**Total Submission Fees:** \$ 0.0

**Total Paid:** \$ 0.0

*Please print this page for your records.*

The event was successfully saved.

Click [here](#) to return to the Main Menu.

**Ministry of Energy, Mines & Petroleum Resources**  
Mining & Minerals Division  
BC Geological Survey

**Assessment Report**  
**Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Technical/Mineral

TOTAL COST: \$7,312.32

AUTHOR(S): Joseph Baril

SIGNATURE(S): *Joseph Baril*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N.O.W. tracking # 100119406/ File #14675-20-161066

YEAR OF WORK: 2015

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event # 5569983 September 12/2015

PROPERTY NAME: Bar- J Claim

CLAIM NAME(S) (on which the work was done): Bar-J Claim

COMMODITIES SOUGHT: Gold Silver Copper Cobalt

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: \_\_\_\_\_

MINING DIVISION: New Westminster, B.C.

NTS/BCGS: 92G. 039

LATITUDE: 49 ° 18 ' 19.61 " LONGITUDE: 122 ° 21 ' 51.63 " (at centre of work)

OWNER(S):

1) Joseph Baril 2) \_\_\_\_\_

MAILING ADDRESS:

# 153-3031 Williams Road Richmond B.C. V7E-4G1

OPERATOR(S) [who paid for the work]:

1) Joseph Baril 2) \_\_\_\_\_

MAILING ADDRESS:

#153-3031 Williams Road Richmond, B.C. V7E-4G1

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Coastal Mountains Coast Plutonic Group. Lithology ranging from gabbroic to granite. mesozoic to cenozoic metasediments.

Altered Shear zones

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: Roger Kidlark B.S.C. Report # 24,209

Sam Zastavnikovich Geochemical Consultant Report # 19,710 Victor p. Ryback -Hardy Consulting Geological Eng. Rep.# 10,040

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**Page 1**  
**Forward**  
**Bar-J Claim**  
**2015**

The Bar-J Claim is comprised of seven amalgamated cells totalling approximately 147 hectares. The property is located in the New Westminster Mining Division approximately 20 kilometres northwest of Mission, B.C.

Since 1929, limited amounts of exploration has been carried out in the area. The western portion of the Bar-J Claim is part of an area of some of more recent interests by previous claim holders dating from the 1980's through the 1990's. The reports from these previous holders have indicated locating auriferous quartz veins, lenses and stringers. The property is underlain by intrusives of the Coast Plutonic Group, and gold values are reported to be erratic and associated with sulphide minerals. The eastern portions of the claim seem to have been somewhat ignored perhaps because of the rugged nature of the terrain.

No samples have been tested from the western area as of this time however, three samples were tested from the eastern portion of the claim from within the creek canyon that borders the eastern boundary of the claim. One rock sample from loose float was tested. The rock had two tests done. One test, HB-2 Sediment, was done from a crushed sample from where veining was evident and returned values of gold at .077 ppm, 172 ppm copper, 79 ppm cobalt, 62 ppm nickel, and 720 ppm manganese. A second test of this same rock, HB-2 Rock, uncrushed, from the area outside of the veining returned values of gold at .081 ppm, 292 ppm copper, 79 ppm cobalt, 84 ppm nickel, and 867 ppm manganese. The third sample returned significantly less values although manganese was comparative at 812 ppm.

**Page 2**  
**Introduction &**  
**Description**

This report has been prepared by myself, the claim holder, Joseph Baril. It is intended to evaluate and describe the results of exploration and sample testing on the Bar- J Claim. The field work and trail-blazing was carried out by myself and two colleagues, from February 2015 through October 2015.

The intention of this project was to develop trail networks and gather some samples for testing to better understand the mineral tendencies and to determine direction for further exploration.

This report will reflect the findings of these recent workings as well as previous workings, regional geology and area history.

**Description**

The Bar-J Claim is a group of seven cells amalgamated under the tenure number 1031742. Together, they all have a shared expiry date of October 11, 2018, pending this report.

**Location**

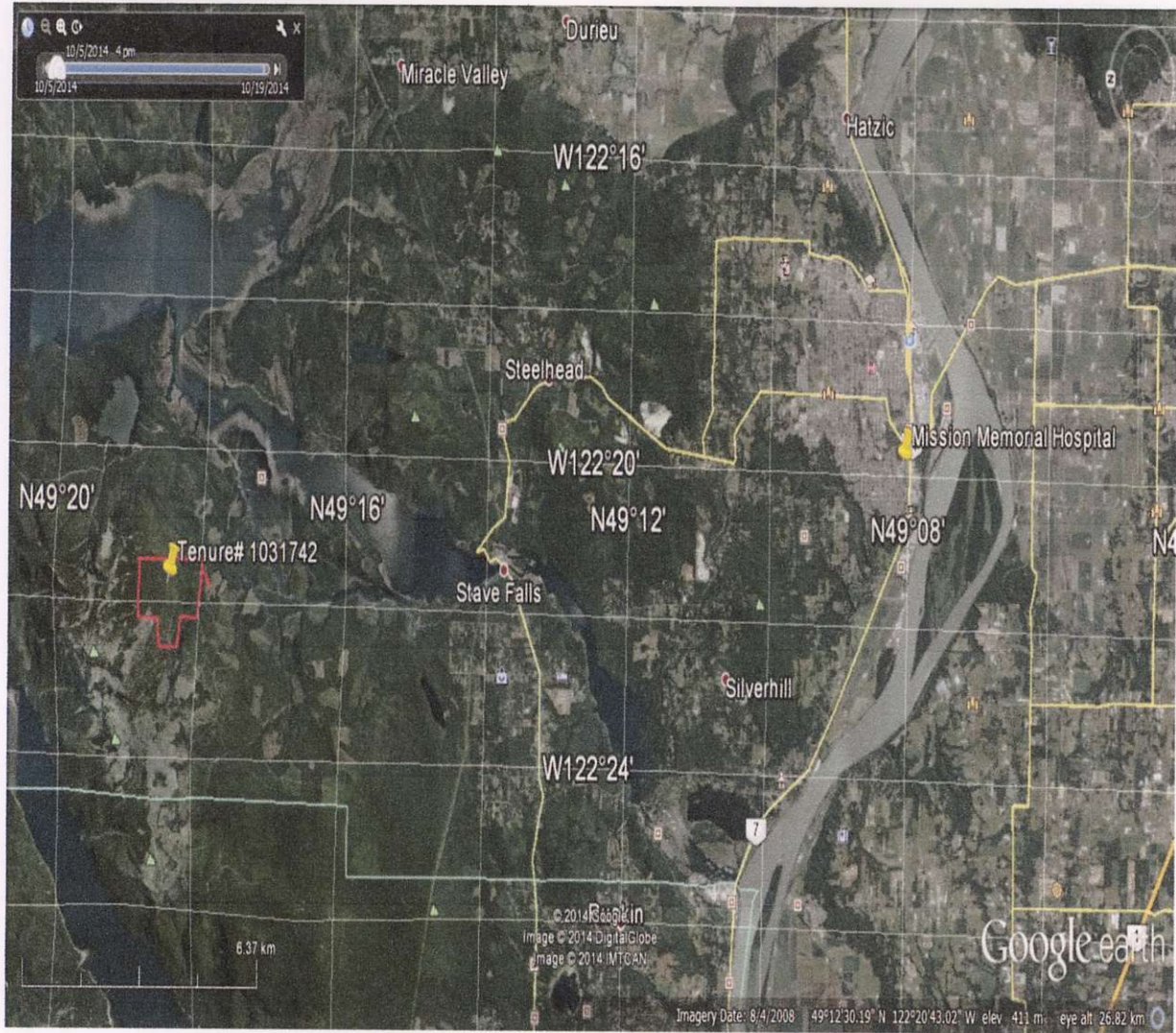
Access to the claim is gained from Dewdney Trunk Rd at the Stave Falls Dam northwest of Mission and east of Haney. From Stave Falls, Florence Lake Service Rd. heads northerly toward the spur roads that lead toward the claim. It would be a good recommendation for 4-wheel drive. Although the first 8-10 kilometres are usually in good shape, the logging spurs are definitely 4 wheel drive. These spur roads, the first one is known as Kearsley South service rd. Is gated and locked mostly. This road leads to the upper most western reach of the claim. There is no vehicle access to most of the claim, vehicles must be parked and final approaches are done on foot. The second road, Kearsley North is always gated. A key is required from Mission Forest District. This road leads to a trail head to gain access to the eastern reaches of the claim.

**Physiology**

The Bar- J Claim lies on the south slope of Mt Crickmer, one of the most southern peaks of the Garibaldi Range. It is midway between Alouette Lake to the west, and Stave Lake to the east. The southern extent of the claim follows along Kearsley Creek, the east is bordered within a rugged creek canyon that may on some maps be called Simpson Creek. The western extreme is bordered by the old Kearsley bridge and the northern extent is high up the slope of Mt.Crickmer. The terrain is steep with outcroppings throughout the canyons and slopes. Elevations range from 300 meters at the southeast to 1200 meters at the north-west. It is thick with forest in the unlogged portions throughout.



Bar-J Claim and Environs



**Page 4**  
**Area History &**  
**Geology**

With the discovery of gold in the Fraser River in the 1860's, prospecting in most every creek system that fed into the river gained interest. Placer gold was discovered during the late 1920's at the Ruskin Dam construction site.

In 1938, free gold was mined from the "79 Hill " near the headwaters of Seventy nine Creek. Although closing its operations in 1939, some high-grade gold was shipped from the 79 Mine, located between Alouette and Stave Lake.

Tapering off since its earlier days, the area still sees some interests for minerals. There are more recent reports from such claims as the Golden Universe Claim, which recorded anomalous values of 21,500 ppb gold and 5970 ppb gold in 1990. Or the Crickmer Property which reported values of silver at 21.4 ppm and one unit sample with a value of 2,190 ppb gold in 1996. Another to mention was the Sky Claim whereas in 1983 reported values at 1.52 oz. Per ton in a major shear zone northeast southwest through the property, and a flat dipping shear in the north wall of an old adit gave a sample yielding a ppb equivalent of 1.60 gold/ton.

**Geology**

The majority of the area is underlain by rock of the Coast Plutonic Complex. The lithology units range from gabbroic rock to granite. There is an abundance however, of diorite, quartz diorite and grannodiorite. The area has been subject to shearing and faulting, and quartz veining and fracture filling silicification is common.



**Page 5**  
**Survey & Summary**

**Geographic & Geological Recording**

**GPS:** Model/Type Garmin eTrex Legend H

**Prospecting/Sampling**

**Location:** 49° 18' 01.22" Lat. / 122° 21' 27.32" Long.

Of this report only three samples have undergone geochemical testing. All three samples, two of which were from the same rock, came from outcroppings and float in the creek canyon bordering the easternmost portion of the claim. The two samples of the same rock, are listed as HB 2 Rock and HB 2 Sediment. They were obtained from a loose float rock at an outcropping in the creek basin, approximately 100 meters downstream of a waterfall. Within the makeup of this outcropping and float, fine metallic veins could be seen, and its lithology ranged from dark greenstone to a whiter granodiorite and then to quartzdiorite. A 4-5 mm solitary silvery-gold vein was found in the transition of dark greenstone to the whiter granodiorite. The darker area of greenstone immediately adjacent to the vein, was heavily peppered with a gold metallic speckling. It is for this speckling that a separate test was done for the host rock and for the rock portion containing the vein. The vein area was separated from the speckled greenstone and crushed separately and a 30g sample of this crush and a 30g sample of the speckled greenstone were provided to A.L.S. Minerals in North Vancouver for testing. A 33-element four acid digestion and fire assay for gold was performed on both samples.

**Location:** 49° 18' 04.66" Lat./ 122° 21' 28.30" Long.

This third sample, know as Bar-J-RC01, came from further up the creek upstream of the waterfall. Up here, the canyon narrows significantly and the walls are quite shear. Water oozes through most outcroppings in this section, decomposition of the rock structure is prevalent. This sample was taken at an outcropping of dark blue-green intrusive rock. This outcropping is heavy with rust staining with small quartz veins running through it. One might say this rock was decomposing for the most part. A sample was chipped out of a rusty quartz vein. Not surprising was this samples attraction to a magnet. This sample was also provided by my associate, Mr. Ryan Rooney, of Outer Rim Explorations to A.L.S. Minerals in North Vancouver for testing. A 51-element aqua regia digestion with an ore grade fire assay was selected for this sample. Results from these tests reveal 5.61% Fe. And 812 ppm Manganese, as being the most notable.

**Page 6**  
**Trailblazing**

From November, 2014 through August,2015, an associate and myself undertook eight overnight trips,striking out each morning into the the depths of forest and canyon, researching and marking trail, The western access to this tenure is gated, although through the winter months, the gate is left open for access of recreational hiking and snowmobile use. The Southeastern access is gated, and a key and a permit were obtained through the Mission Forest District.

Originally, in the notice of work, I had declared that the area was not gated in reference to the western access. It had become apparent during our early exploration, that the western approach was not feasible for research in the eastern part of the claim. Permission to make and mark a trail, through the tree lot to the east of the claim was granted to gain access by the Mission Forest District.

The Southeastern approach trail, very thick in new growth of willow,fern, desidious and conifers was slow going until reaching the old growth nearer the top of the ridge bordering the eastern boundary of the claim. Frequent use and machete work is necessary to keep growth down in the new growth portion of this trail. The descent to the creek from the ridge, gains entry to the southeast corner of the claim. Travelling north along this ridge, enables another descent into the creek above a waterfall, opering the option of tying in to the western approach, or a more northerly exploration. Both descents are steep in in grade, and assistance by rope is required for safety for the last twenty-five meters into the creek canyon.

On the Western approach, trail survey and marking has also commenced. This approach is along an old logging road that is mostly washed away, and if not washed away, it is very overgrown. Access to this area is gained via the South Kearsley service road. This road is extremely rough in spots. Four wheel drive is necessary to complete the trip to where it ends just short of the Kearsley Bridge,approximately five kilometres from where it leaves the Florence Lake service road(also called Burma Street). Unlike the southeastern portion of this claim, this area has had previous geologic surveys conducted that I am aware of. Future endeavours are to include this area into the southeastern approach and and northerly along a shear zone from this old road. Flags 86,87, and 88, show the beginning of our trail marking. The shear zone for the northerly research is located approximately five hundred meters to the east of these flags.

**Page 7**  
**Conclusions Qualifications &**  
**References**

**Conclusion**

For the limited amount of sampling done, for the most part from the test results, there is no doubt the presence of minerals. Results are at par with the average findings in past interests in the area. No significant economical values seem to be present from the limited amount of sampling done, however more exploration is intended and perhaps a closer look of the area of HB-2 Rock/Sediment. As for taking part in this endeavour, and having personally viewed some of the deeper recesses of the terrain, the area has enough tell tale signs of mineralization to keep one's intrigue.

**Qualifications**

I, Joseph D. Baril, of Richmond, British Columbia, do hereby declare, I do not have any formal education or training as a geologist and do not hold any certification as such. I am a practising amateur prospector of eleven years, and have always had an interest in geology. My fieldwork is strictly on the amateur and layman level, although the assay work and testing are all done by certified professionals.

**References**

Roger Kidlark B.S.C. On the Crickmer Properties Claim 1995.  
Report # 24,209

Sam Zastavnikovich Geochemical Consultant. On the Golden Universe Claim 1990  
Report # 19,710

Victor P. Ryback-Hardy Consulting Geological Engineer. On the Sky Claim 1981  
Report # 10,040



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

To: **BAR J**  
 #153- 3031 WILLIAMS RD.  
 RICHMOND BC V7E 4G1

**INVOICE NUMBER 3276768**

BILLING INFORMATION	
Certificate:	<b>VA15006202</b>
Sample Type:	<b>Rock</b>
Account:	<b>BARIJO</b>
Date:	<b>17-JAN- 2015</b>
Project:	
P.O. No.:	
Quote:	
Terms:	<b>Due on Receipt</b> <b>C3</b>
Comments:	

QUANTITY	CODE	ANALYSED FOR DESCRIPTION	UNIT PRICE	TOTAL
1	BAT- 01	Administration Fee	33.10	33.10
2	LOG- 22	Sample login - Rcd w/o BarCode	1.20	2.40
2	PUL- 31	Pulverize split to 85% <75 um	4.30	8.60
2	Au- AA23	Au 30g FA- AA finish	16.05	32.10
2	ME- ICP61	33 element four acid ICP- AES	14.90	29.80
1	CRU- 31	Fine crushing - 70% <2mm	2.80	2.80
0.16	CRU- 31	Weight Charge (kg) - Fine crushing - 70% <2mm	0.48	0.08

SUBTOTAL (CAD) \$ 108.88

R100938885 GST \$ 5.44

**TOTAL PAYABLE (CAD) \$ 114.32**

To: **BAR J**  
 ATTN: JOSEPH BARIL  
 #153- 3031 WILLIAMS RD.  
 RICHMOND BC V7E 4G1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.  
 Bank: Royal Bank of Canada  
 SWIFT: ROYCCAT2  
 Address: Vancouver, BC, CAN  
 Account: 003-00010-1001098  
 Please send payment info to [accounting.canusa@alsglobal.com](mailto:accounting.canusa@alsglobal.com)

Please Remit Payments To :  
**ALS Canada Ltd.**  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7

VA15006202 - Finalized

CLIENT : "BARIJO - BAR J"

# of SAMPLES : 2

DATE RECEIVED : 2015-01-12 DATE FINALIZED : 2015-01-17

PROJECT : " "

CERTIFICATE COMMENTS : ""

PO NUMBER : " "

	Au-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
SAMPLE	Au	Ag	Al	As	Ba	Be	Bi	Ca
DESCRIPTIC	ppm	ppm	%	ppm	ppm	ppm	ppm	%
HB-2 ROCK	0.081	<0.5		7.43	74	190	0.5 <2	3.84
HB-2 SEDIM	0.077	<0.5		7.18	59	240	0.6 <2	4.08

ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	
ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	
<0.5		79	112	292	9.79	10	0.53	10	2.05
<0.5		79	86	172	8.26	20	0.58	10	1.45

ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
867	2	2.86	84	610	7	6.22	<5	22
720	2	2.49	62	460	11	4.87	<5	17



ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
Sr	Th	Ti	Ti	U	V	W	Zn
ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
200	<20	0.32	10	<10	153	<10	55
325	<20	0.24	<10	<10	151	<10	37



Pre-Pay Clients - Vancouver  
ATTN: Ryan Rooney  
Outer Rim Explorations  
18-19270 119 Ave  
Pitt Meadows BC N/A


Date Received: 06-MAY-15  
Report Date: 11-MAY-15 15:11 (MT)  
Version: FINAL REV. 2

Client Phone: 778-836-9033

## Certificate of Analysis

Lab Work Order #: L1608315  
Project P.O. #: NOT SUBMITTED  
Job Reference:  
C of C Numbers: 14-443822  
Legal Site Desc:

**Comments:** 11-MAY-2015 Sample was sublet to ALS Minerals for analysis, please see the attached report for details.



---

Jenny Poon, B.Sc.  
Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700  
ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company

# ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID  
Description  
Sampled Date  
Sampled Time  
Client ID

Grouping

Analyte

Grouping					
Analyte					

## Reference Information

### Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
---------------	--------	------------------	--------------------

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

*The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:*

Laboratory Definition Code	Laboratory Location
----------------------------	---------------------

### Chain of Custody Numbers:

14-443822

### GLOSSARY OF REPORT TERMS

*Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.*

*mg/kg - milligrams per kilogram based on dry weight of sample.*

*mg/kg wwt - milligrams per kilogram based on wet weight of sample.*

*mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.*

*mg/L - milligrams per litre.*

*< - Less than.*

*D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).*

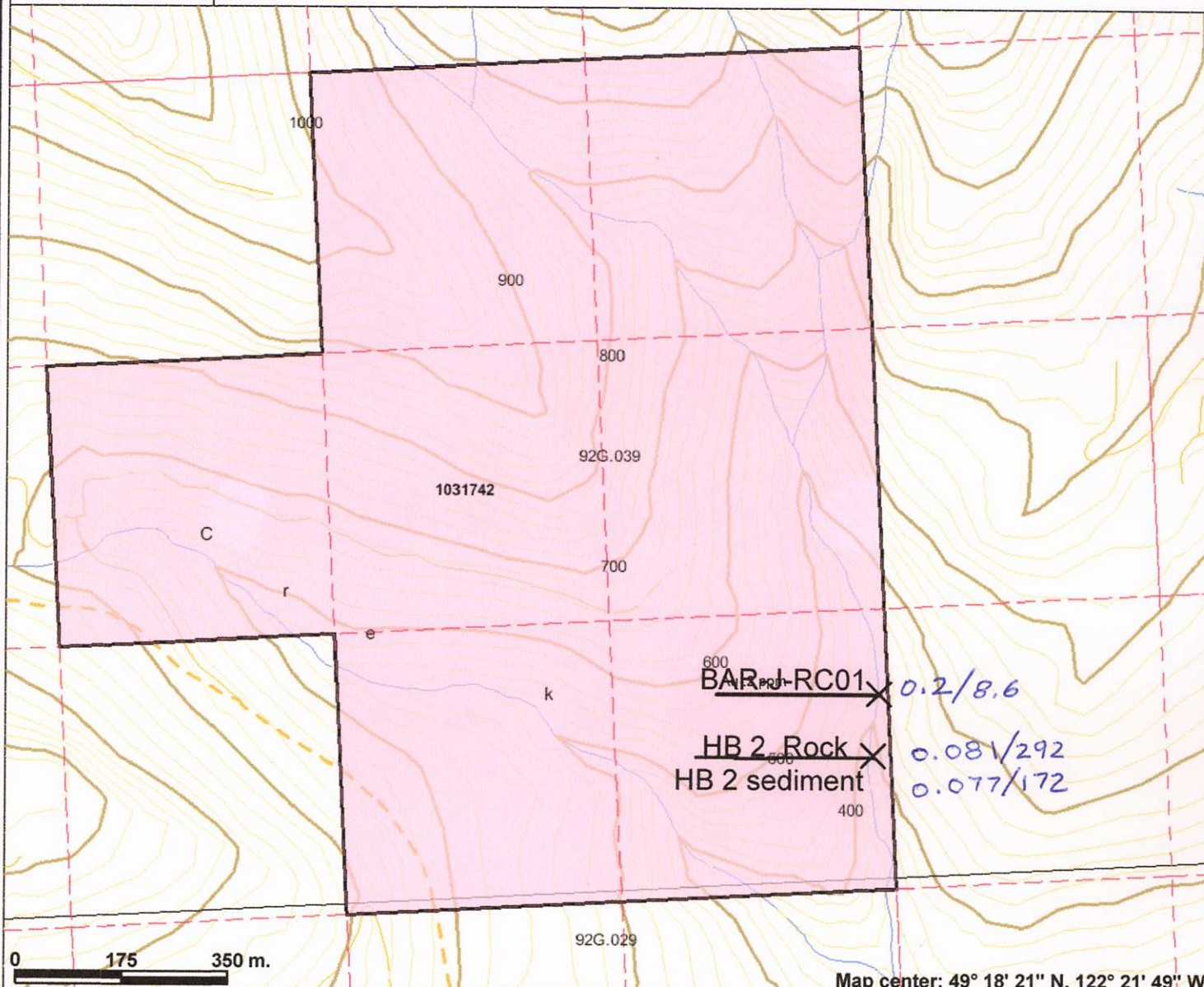
*N/A - Result not available. Refer to qualifier code and definition for explanation.*

*Test results reported relate only to the samples as received by the laboratory.*

**UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.**

*Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.*

# Bar-J Claim 1:10,000



### Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands
- MTO Grid (MTO)
- Mineral Tenure (current)
  - Mineral Claim
  - Mineral Lease
- Mineral Reserves (current)
  - Placer Claim Designation
  - Placer Lease Designation
  - No Staking Reserve
  - Conditional Reserve
  - Release Required Reserve
  - Surface Restriction
  - Recreation Area
  - Others
- First Nations Treaty Related Lands
  - First Nations Treaty Lands
  - Integrated Cadastral Fabric
  - Survey Parcels
- BCGS Grid
- Contours (TRIM)
  - Contour - Index
  - Contour - Index, Indefinite
  - Contour - Index, Depression
  - Contour - Index, Depression Indefinite
  - Contour - Intermediate
  - Contour - Intermediate, Indefinite
  - Contour - Intermediate, Depression

Scale: 1:10,000



Map center: 49° 18' 21" N, 122° 21' 49" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

ppm Au/Cu



**Southeast Approach Trail**



- Yellow line indicates claim boundaries
- Flag # 50 - Staging & overnighting area
- Flag # 14 - Southeastern trailhead
- Flag # 26 - South descent to claim corner (below falls)
- Flag # 65 - Above falls descent
- Flag # 67 - Sample area
- Flag # 85 - Sample area
- Flag # 71 - Connector trail to western approach (incomplete)

**Page 11**  
**Western Approach Trail**







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

To: ALS ENVIRONMENTAL  
100 - 8081 LOUGHEED HWY.  
BURNABY BC V5A 1W9

Page: 1  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 10- MAY- 2015  
Account: APN

**CERTIFICATE VA1506662**

Project: L1608315  
P.O. No.: L1608315  
This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 7- MAY- 2015.

The following have access to data associated with this certificate:

ALSE VANCOUVER WEBTRIEVE

JENNY POON

**SAMPLE PREPARATION**

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

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

To: ALS ENVIRONMENTAL  
ATTN: JENNY POON  
100 - 8081 LOUGHEED HWY.  
BURNABY BC V5A 1W9

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

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

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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 BURNABY BC V5A 1W9

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10- MAY- 2015  
 Account: APN

Project: L1608315

**CERTIFICATE OF ANALYSIS VA1506662**

Sample Description	Method Analyte Units LOR	WEI- 21 Weight kg	ME- MS41 Silver ( ppm)	ME- MS41 Aluminum %	ME- MS41 Arsenic ppm	ME- MS41 Gold (Au) ppm	ME- MS41 Boron (B) ppm	ME- MS41 Barium ( ppm)	ME- MS41 Berylliu ppm	ME- MS41 Bismuth ppm	ME- MS41 Calcium %	ME- MS41 Cadmium ppm	ME- MS41 Cerium ( ppm)	ME- MS41 Cobalt ( ppm)	ME- MS41 Chromium ppm	ME- MS41 Cesium ( ppm)
L1608315- 1 BAR- J- RC01		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

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



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 North Vancouver BC V7H 0A7  
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To: ALS ENVIRONMENTAL  
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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10- MAY- 2015  
 Account: APN

Project: L1608315

**CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Copper ( ppm 0.2	ME- MS41 Iron (Fe % 0.01	ME- MS41 Gallium ppm 0.05	ME- MS41 Germaniu ppm 0.05	ME- MS41 Hafnium ppm 0.02	ME- MS41 Mercury ppm 0.01	ME- MS41 Indium ( ppm 0.005	ME- MS41 Potassiu % 0.01	ME- MS41 Lanthanu ppm 0.2	ME- MS41 Lithium ppm 0.1	ME- MS41 Magnesiu % 0.01	ME- MS41 Manganes ppm 5	ME- MS41 Molybden ppm 0.05	ME- MS41 Sodium ( % 0.01	ME- MS41 Niobium ppm 0.05
L1608315- 1 BAR- J- RC01		8.6	5.01	8.50	0.10	0.12	0.01	0.008	0.04	2.3	6.1	2.45	012	0.23	0.14	0.06

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



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 Finalized Date: 10- MAY- 2015  
 Account: APN

Project: L1608315

**CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Nickel (ppm)	ME- MS41 Phosphor (ppm)	ME- MS41 Lead (Pb) (ppm)	ME- MS41 Rubidium (ppm)	ME- MS41 Rhenium (ppm)	ME- MS41 Antimony (ppm)	ME- MS41 Scandium (ppm)	ME- MS41 Selenium (ppm)	ME- MS41 S (%)	ME- MS41 Tin (Sn) (ppm)	ME- MS41 Strontium (ppm)	ME- MS41 Tantalum (ppm)	ME- MS41 Telluriu (ppm)	ME- MS41 Thorium (ppm)	ME- MS41 Titanium (%)
L1608315- 1 BAR- J- RC01		3.7	1520	1.0	1.3	0.001	0.11	4.7	0.8	0.75	0.2	135.5	0.01	0.25	0.3	0.175

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**CERTIFICATE OF ANALYSIS VA1506662**

Sample Description	Method Analyte Units LOR	ME- MS41 Thallium ppm 0.02	ME- MS41 Uranium ppm 0.05	ME- MS41 Vanadium ppm 1	ME- MS41 Tungsten ppm 0.05	ME- MS41 Yttrium ppm 0.05	ME- MS41 Zinc (Zn) ppm 2	ME- MS41 Zirconium ppm 0.5	Au- AA26 Au ppm 0.01
L1608315- 1 BAR- J- RC01		0.02	0.16	92	0.19	6.51	64	2.2	0.01

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**CERTIFICATE OF ANALYSIS VA1506662**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au- AA26  
ME- MS41  
WEI- 21

CRU- 31  
PUL- 31

CRU- QC  
PUL- QC

LOG- 22  
SPL- 21



**ALS Minerals**

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**QC CERTIFICATE VA1506662**

Project: L1608315  
P.O. No.: L1608315  
This report is for 1 Rock sample submitted to our lab in Vancouver, BC, Canada on 7- MAY- 2015.  
The following have access to data associated with this certificate:  
ALSE VANCOUVER WEBTRIEVE      JENNY POON

**SAMPLE PREPARATION**

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

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
ME- MS41	51 anal. aqua regia ICPMS	

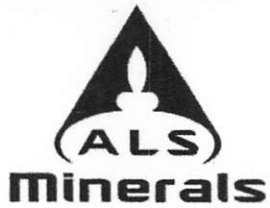
To: **ALS ENVIRONMENTAL**  
**ATTN: JENNY POON**  
100 - 8081 LOUGHEED HWY.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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

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





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**QC CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Silver ( ppm)	ME- MS41 Aluminum %	ME- MS41 Arsenic ppm	ME- MS41 Gold (Au) ppm	ME- MS41 Boron (B) ppm	ME- MS41 Barium ( ppm)	ME- MS41 Berylliu ppm	ME- MS41 Bismuth ppm	ME- MS41 Calcium %	ME- MS41 Cadmium ppm	ME- MS41 Cerium ( ppm)	ME- MS41 Cobalt ( ppm)	ME- MS41 Chromium ppm	ME- MS41 Cesium ( ppm)	ME- MS41 Copper ( ppm)
<b>STANDARDS</b>																
G310- 8																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		21.1	2.26	125.5	0.2	10	90	0.77	10.70	0.91	18.90	63.2	98.7	84	9.80	8570
Target Range - Lower Bound																
Upper Bound																
OREAS 90		0.05	2.33	4.6	0.2	10	50	0.62	0.99	0.38	0.01	60.9	14.3	40	0.95	108.5
Target Range - Lower Bound																
Upper Bound																
OxP91																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		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	0.2
Target Range - Lower Bound																
Upper Bound																
<b>DUPLICATES</b>																
ORIGINAL																
DUP		0.23	2.16	31.4	0.2	10	170	0.61	0.13	1.30	0.44	25.7	19.9	53	1.77	249
Target Range - Lower Bound		0.21	2.04	29.7	<0.2	<10	150	0.53	0.11	1.23	0.41	24.4	18.8	49	1.63	240
Upper Bound		0.25	2.28	33.1	0.4	20	190	0.69	0.15	1.38	0.47	27.0	21.0	57	1.91	258
L1608315- 1 BAR- J- RC01																
DUP																
Target Range - Lower Bound																
Upper Bound																



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**QC CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Iron (Fe %)	ME- MS41 Gallium ppm	ME- MS41 Germaniu ppm	ME- MS41 Hafnium ppm	ME- MS41 Mercury ppm	ME- MS41 Indium ( ppm)	ME- MS41 Potassiu %	ME- MS41 Lanthanu ppm	ME- MS41 Lithium ppm	ME- MS41 Magnesi %	ME- MS41 Manganes ppm	ME- MS41 Molybden ppm	ME- MS41 Sodium ( %)	ME- MS41 Niobium ppm	ME- MS41 Nickel ( ppm)	
		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	0.2	
<b>STANDARDS</b>																	
G310- 8																	
Target Range - Lower Bound																	
Upper Bound																	
OGGeo08		5.26	8.42	0.13	0.82	0.49	1.480	1.11	30.2	29.1	0.98	401	899	0.30	0.97	9170	
Target Range - Lower Bound																	
Upper Bound																	
OREAS 90		3.92	5.87	0.06	0.82	0.01	0.027	0.36	31.0	17.3	1.39	592	0.34	0.01	0.29	87.3	
Target Range - Lower Bound																	
Upper Bound																	
OxP91																	
Target Range - Lower Bound																	
Upper Bound																	
<b>BLANKS</b>																	
BLANK																	
Target Range - Lower Bound																	
Upper Bound																	
BLANK		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	0.2	
Target Range - Lower Bound																	
Upper Bound																	
<b>DUPLICATES</b>																	
ORIGINAL																	
DUP		3.75	6.32	0.10	0.04	0.10	0.051	0.16	15.7	17.0	1.14	1160	2.34	0.06	0.69	53.9	
Target Range - Lower Bound		3.55	5.95	<0.05	<0.02	0.08	0.043	0.14	14.7	16.1	1.07	1095	2.17	0.05	0.61	51.0	
Upper Bound		3.95	6.69	0.16	0.06	0.12	0.059	0.18	16.7	18.0	1.21	1225	2.51	0.07	0.77	56.8	
L1608315- 1 BAR- J- RC01																	
DUP																	
Target Range - Lower Bound																	
Upper Bound																	



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Project: L1608315

**QC CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Phosphor ppm	ME- MS41 Lead (Pb) ppm	ME- MS41 Rubidium ppm	ME- MS41 Rhenium ppm	ME- MS41 Antimony ppm	ME- MS41 Scandium ppm	ME- MS41 Selenium ppm	ME- MS41 S %	ME- MS41 Tin (Sn) ppm	ME- MS41 Strontium ppm	ME- MS41 Tantalum ppm	ME- MS41 Telluriu ppm	ME- MS41 Thorium ppm	ME- MS41 Titanium %	ME- MS41 Thallium ppm
<b>STANDARDS</b>																
G310- 8																
Target Range - Lower Bound																
Upper Bound																
OGGeo08		830	7290	123.0	1.425	21.2	6.3	11.6	2.79	12.7	66.2	0.01	0.17	16.9	0.312	1.33
Target Range - Lower Bound									2.51							
Upper Bound									3.09							
OREAS 90		660	4.9	19.7	0.001	0.36	2.1	0.9	0.07	1.1	11.3	0.01	0.02	16.4	0.085	0.11
Target Range - Lower Bound									0.05							
Upper Bound									0.09							
OxP91																
Target Range - Lower Bound																
Upper Bound																
<b>BLANKS</b>																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		10	0.2	0.1	0.001	0.05	0.1	0.2	<0.01	0.2	0.2	0.01	0.01	0.2	0.005	0.02
Target Range - Lower Bound									<0.01							
Upper Bound									0.02							
<b>DUPLICATES</b>																
ORIGINAL									0.14							
DUP		1140	12.9	10.3	0.003	1.07	7.8	2.1	0.15	0.8	147.0	0.01	0.06	2.3	0.107	0.11
Target Range - Lower Bound		1070	12.1	9.7	0.002	0.94	7.3	1.8	0.13	0.6	139.5	<0.01	0.05	2.0	0.097	0.08
Upper Bound		1210	13.7	10.9	0.004	1.20	8.3	2.4	0.16	1.0	154.5	0.02	0.07	2.6	0.117	0.14
L1608315- 1 BAR- J- RC01																
DUP																
Target Range - Lower Bound																
Upper Bound																

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**QC CERTIFICATE OF ANALYSIS VA1506662**

Sample Description	Method Analyte Units LOR	ME- MS41 Uranium ppm	ME- MS41 Vanadium ppm	ME- MS41 Tungsten ppm	ME- MS41 Yttrium ppm	ME- MS41 Zinc (Zn) ppm	ME- MS41 Zirconiu ppm	Au- AA26 Au ppm
		0.05	1	0.05	0.05	2	0.5	0.01
<b>STANDARDS</b>								
G310- 8								7.97
Target Range - Lower Bound								7.48
Upper Bound								8.46
OGGeo08		4.84	82	2.97	17.45	7170	23.3	
Target Range - Lower Bound								
Upper Bound								
OREAS 90		2.02	21	0.41	16.95	57	22.0	
Target Range - Lower Bound								
Upper Bound								
OxP91								15.25
Target Range - Lower Bound								13.90
Upper Bound								15.70
<b>BLANKS</b>								
BLANK								<0.01
Target Range - Lower Bound								<0.01
Upper Bound								0.02
BLANK		0.05	1	0.05	0.05	2	0.5	
Target Range - Lower Bound								
Upper Bound								
<b>DUPLICATES</b>								
ORIGINAL								
DUP		1.96	86	0.41	14.85	100	1.4	
Target Range - Lower Bound		1.81	81	0.33	14.05	93	0.8	
Upper Bound		2.11	91	0.49	15.65	107	2.0	
L1608315- 1 BAR- J- RC01								0.01
DUP								0.01
Target Range - Lower Bound								<0.01
Upper Bound								0.02



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**QC CERTIFICATE OF ANALYSIS VA15066662**

Sample Description	Method Analyte Units LOR	ME- MS41 Silver ( ppm 0.01	ME- MS41 Aluminum % 0.01	ME- MS41 Arsenic ppm 0.1	ME- MS41 Gold (Au ppm 0.2	ME- MS41 Boron (B ppm 10	ME- MS41 Barium ( ppm 10	ME- MS41 Berylliu ppm 0.05	ME- MS41 Bismuth ppm 0.01	ME- MS41 Calcium % 0.01	ME- MS41 Cadmium ppm 0.01	ME- MS41 Cerium ( ppm 0.02	ME- MS41 Cobalt ( ppm 0.1	ME- MS41 Chromium ppm 1	ME- MS41 Cesium ( ppm 0.05	ME- MS41 Copper ( ppm 0.2
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															

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Project: L1608315

**QC CERTIFICATE OF ANALYSIS VAI506662**

Sample Description	Method Analyte Units LOR	ME- MS41 Iron (Fe) %	ME- MS41 Gallium ppm	ME- MS41 Germaniu ppm	ME- MS41 Hafnium ppm	ME- MS41 Mercury ppm	ME- MS41 Indium ( ppm	ME- MS41 Potassiu %	ME- MS41 Lanthanu ppm	ME- MS41 Lithium ppm	ME- MS41 Magnesi %	ME- MS41 Manganes ppm	ME- MS41 Molybden ppm	ME- MS41 Sodium ( %	ME- MS41 Niobium ppm	ME- MS41 Nickel ( ppm
		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	0.2
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															



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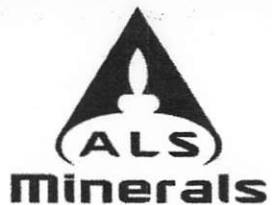
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Project: L1608315

**QC CERTIFICATE OF ANALYSIS VA1506662**

Sample Description	Method Analyte Units LOR	ME- MS41 Phosphor ppm 10	ME- MS41 Lead (Pb) ppm 0.2	ME- MS41 Rubidium ppm 0.1	ME- MS41 Rhenium ppm 0.001	ME- MS41 Antimony ppm 0.05	ME- MS41 Scandium ppm 0.1	ME- MS41 Selenium ppm 0.2	ME- MS41 S % 0.01	ME- MS41 Tin (Sn) ppm 0.2	ME- MS41 Stronium ppm 0.2	ME- MS41 Tantalum ppm 0.01	ME- MS41 Telluriu ppm 0.01	ME- MS41 Thorium ppm 0.2	ME- MS41 Titanium % 0.005	ME- MS41 Thallium ppm 0.02
ORIGINAL DUP Target Range - Lower Bound Upper Bound	<b>DUPLICATES</b>															





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**QC CERTIFICATE OF ANALYSIS VA1506662**

Sample Description	Method Analyte Units LOR	ME- MS41 Uranium ppm 0.05	ME- MS41 Vanadium ppm 1	ME- MS41 Tungsten ppm 0.05	ME- MS41 Yttrium ppm 0.05	ME- MS41 Zinc (Zn) ppm 2	ME- MS41 Zirconiu ppm 0.5	Au- AA26 Au ppm 0.01
		<b>DUPLICATES</b>						
ORIGINAL								6.35
DUP								5.83
Target Range - Lower Bound								5.78
Upper Bound								6.40

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L1608315-COFC

COC Number: 14 - 443822

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<b>Report To</b>		<b>Report Format / Distribution</b>			<b>Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)</b>				
Company: <i>Outer Rim Explorations</i>		Select Report Format: <input type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm)				
Contact: <i>Ryan Rooney</i>		Quality Control (QC) Report with Report <input type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 business days if received by 3pm)				
Address: <i>17-19270-1A Ave Pitt Meadows BC</i>		<input type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 business days if received by 3pm)				
Phone: <i>778-836-9033</i>		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency if received by 10am - contact ALS for surcharge.				
		Email 1 or Fax: <i>ken@ionics@hotmail.com</i>			Specify Date Required for E2, E or P:				
		Email 2:			<b>Analysis Request</b>				
Invoice To: Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<b>Invoice Distribution</b>			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below				
Copy of Invoice with Report: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			ME-MS 41 / AL-AA 26 <del>ALS Minerals</del> (ALS Minerals)				
Company:		Email 1 or Fax:							
Contact:		Email 2:							
<b>Project Information</b>		<b>Oil and Gas Required Fields (client use)</b>							
ALS Quote #:		Approver ID:	Cost Center:						
Job #:		GL Account:	Routing Code:						
PO / AFE:		Activity Code:							
LSD:		Location:							
ALS Lab Work Order # (lab use only)		ALS Contact:		Sampler:					
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type					Number of Containers
	<i>BAR-J-RCO1</i>	<i>05 MAR 15</i>							
<b>Drinking Water (DW) Samples (client use)</b>		<b>Special Instructions / Specify Criteria to add on report (client use)</b>			<b>SAMPLE CONDITION AS RECEIVED (lab use only)</b>				
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>4520 0500 2920 0961 07/15 Ryan Rooney</i>			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>				
Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No					Ice packs Yes <input type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>				
					Cooling Initiated <input type="checkbox"/>				
					INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C		
					<i>32-C</i>				
<b>SHIPMENT RELEASE (client use)</b>			<b>INITIAL SHIPMENT RECEPTION (lab use only)</b>			<b>FINAL SHIPMENT RECEPTION (lab use only)</b>			
Released by:	Date:	Time:	Received by:	Date:	Time:	Received by: <i>JP</i>	Date: <i>APR 06 2015</i>	Time: <i>3:10 PM</i>	

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NA-FM-0036-10-02-02 October 2013

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1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.