ASSESSMENT REPORT

On the

FALLS BASIN PROJECT

Events: # 5423424

Clinton Mining Division, B.C.

N.T.S 92 0/4

Latitude: 51 5' 52"N, L longitude 123 35'55"W

Owned by

<u>**Valor Resources Ltd.**</u>

Report by

John H. Hajek, Geochemist

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Work was done:

On Tenures # **208501, 207933, 354065, 510770, 514566, 514694**

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Date of Report: March 15, 2013

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I. INTRODUCTION

J. H. Hajek was commissioned by Valor Resources Ltd. to oversee the Falls Basin project which is a follow up on earlier geochemical promising results.

This report documents geochemical & geological exploration work done under the author's supervision, during the period of September 10, 2012 to October 30, 2012 on the Pellaire-Falls River property, Clinton Mining Division, British Columbia.
Event # 5423524 applies to the work which was done on tenure # 207933, 208501, 354065, 514566, 514694, and 510770.

The purposes of the exploration were to extend the previous bank sampling coverage and the identification of metal dispersion in the Falls River drainage basin.
The total of samples send to the Acme labs was 62 not including geological rocks.
A section totalling 4,500 meters of the Falls River was sampled with encouraging results on the Twin Creek east talus slopes in two areas identified as T1(Twin slide) & T2 (Twin faults).

The results are indicating possible mineralisation coming from under the talus bank through seepage and ionic transport of gold & arsenic in several locations.
Comparative results were obtained from drainage samples, for arsenic, silver, gold, Uranium, thorium, cerium and other elements by analysing the (-40+80) coarse fraction crushed to -200 mesh and the (-80) sample fraction. Results are presented on drawings # DR-1F-2F-3F-4F& appendix #2.

The upper Falls River drainage representing the Twin slide T1 area & the Twin Fault area T2 zone are anomalous for gold associated to thorium, arsenic and other metal assemblages. T1area is of interest for arsenic & gold with T2 area anomalous for Vanadium-thorium-cerium & gold.

Metal leaching precipitating in the fine detrital fraction seems to occur under the slide-talus cover indicative of mafics intruding shale which may explain the high vanadium, cerium-thorium, uranium linked to gold & arsenic enrichment. The role of surface water, seepage and springs is not to be neglected since its transfer of dissolved elements is important but an unknown quantity.

The author is an experienced geochemist since 1968 and he has been on the property intermittently since 1995.

II. PROPERTY DESCRIPTION and LOCATION

1. LOCATION, ACCESS, CLIMATE & PHYSIOGRAPHY

- **LOCATION**

Pellaire Gold Mine's property is located in south central British Columbia, south of the Upper Taseko Lakes.
The work area is located within the Falls River drainage and west of the Lord River system.

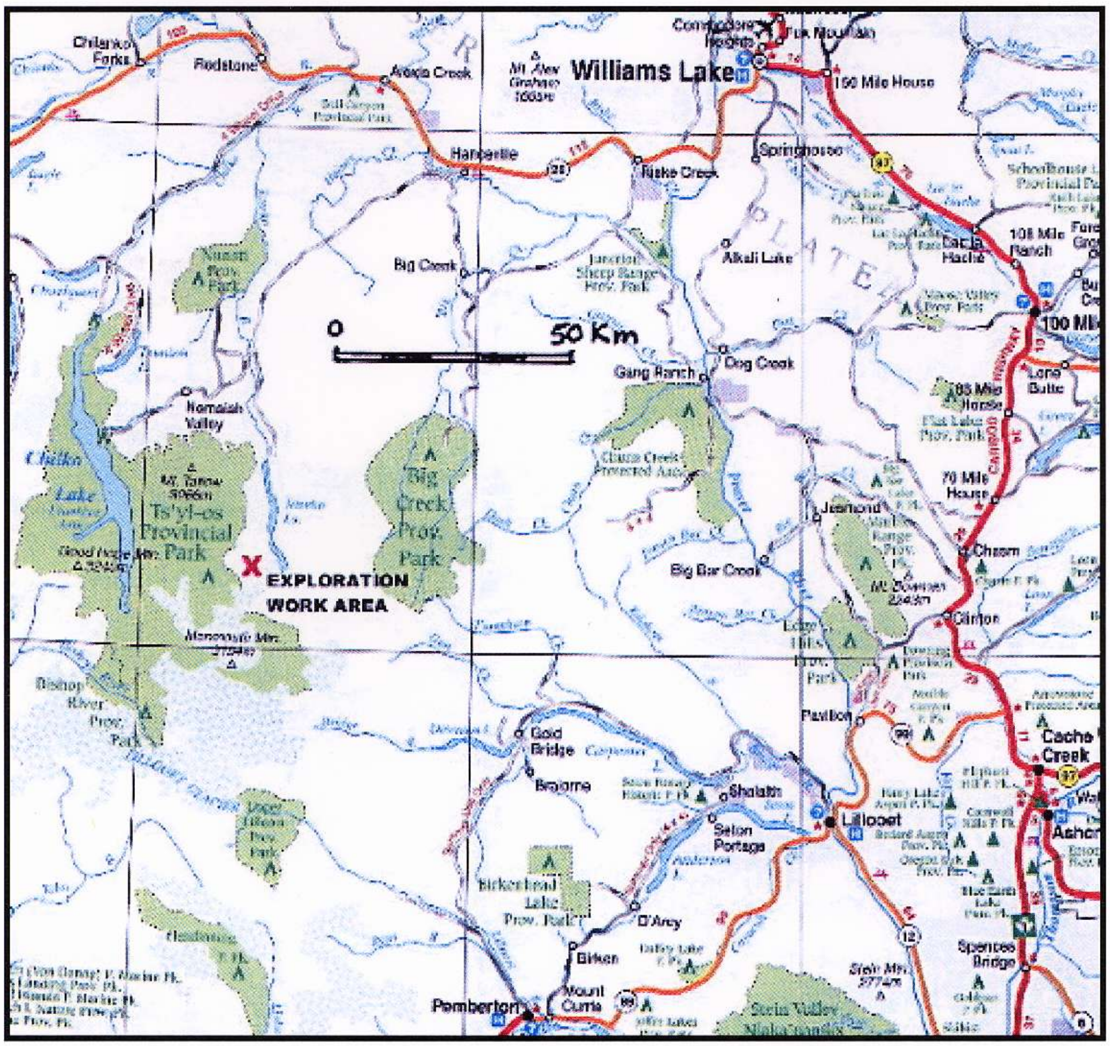

Fig 1: Location Map. "X" marks the exploration area.
The property is 220 km due north of Vancouver and 160 km southwest of William's Lake.

A central point within the claims area is situated between Pellaire West ridge and Pellaire East ridge located at: 51 5" 52" North Latitude and 123 35' 55" West Longitude in N.T.S area 92O/4

- **ACCESS**

Access to the claims is available by road, from William's Lake over the Bella Coola road to Hanceville and then southerly for about 70 km along the Nemiah-Taseko road to the bridge crossing the Taseko River.
Twelve kilometres west of the Taseko River Bridge is the junction with the Pellaire road. From this junction, a newly upgraded 60 km section of road runs southerly to the Falls River campsite situated at the base of Pellaire West ridge.
The total distance from William's Lake to the Falls River camp is about 260 km.
By air, access is by helicopter from bases located at Pemberton or William's Lake.

- **CLIMATE & PHYSIOGRAPHY**

The claim group is situated in rugged terrain of high relief, along the eastern margin of the Pacific Ranges of the Coast plutonic complex.
Valleys, with basal elevations of between 1375m to 1675m, have been glacially scoured and thus are wide and gently sloped.
Tree line extends to about 1900 meters above which the slopes rise more abruptly to elevations of up to 2590 meters.
Numerous melting glaciers are present at the higher elevations throughout the area; these are the source of all streams draining into the valleys.
About 70% of the claims are above tree line where alpine vegetation predominates.
Sub alpine vegetation of pine and spruce trees predominates along valley floors.

2. PROPERTY & WORK AREA

- Property Description and Mineral Titles:

Valor Resources is the beneficial owner of 20 claims in the Clinton Mining Division.
The staked area forms a contiguous claim group, north-easterly elongate over 8 kilometres and about 6 kilometres wide, all within NTS: map sheet 92-O/4.
It is encompassed between Falls River to the west and Lord River to the east.

- Geological location

The property lies within and along the prospective northeast contact zone of the Coast Plutonic Complex, where it contacts strata of the back arc deposional basin known as Tyaughton Trough.

TABLE 1: Claim listing for Assessment Work started September 10, 2012 and finished October 30, 2012, event # 5423524

- Work was done on tenure # 207933, 208501,510770, 514566, 514694 & 553960.

Tenure	Claim Name	Good to Date	Division	Area
				Hectare
354065	HAMILTON	2017/March 01	CLINTON	500
209470	HI #1	2015/May 03	CLINTON	25
209471	HI #2	2015/May 03	CLINTON	25
209472	HI #3	2015/ May 03	CLINTON	25
209473	HI #4	2015/May 03	CLINTON	25
207974	LORD #2	2016/JUL/19	CLINTON	500
358595	MICHELE	2015/Dec/29	CLINTON	500
208501	LORD #5	2017/Sep/ 02	CLINTON	100.0
510770		2015/Dec/ 29	CLINTON	405.9
510824		2016/Aug/ 15	CLINTON	81.22
514566		2015/Dec/ 29	CLINTON	426.34
514569		2015/Dec. 29	CLINTON	405.84
514689		2015/Dec. 29	CLINTON	385.62
514694		2016/Aug/ 24	CLINTON	101.51
569613	2 FRACTIONS	2015/Nov. 07	CLINTON	40.60
569614	SUMMITFR	2015/Nov/ 07	CLINTON	20.30
588742	HAMILTON #2	2016/Mar/ 08	CLINTON	405.80
605792	RIDGEFR	2015/Jun/ 10	CLINTON	60.91
922489	ESLOPE	2015/Oct/ 24	CLINTON	405.84
947609	ADJACENT	2015/Feb/ 09	CLINTON	507.94
514699		2015/Dec/ 29	CLINTON	81.21
553960	TILL	2017/Mar/ 09	CLINTON	467.03
514556		2014/Dec. 29	CLINTON	365.58
510763		2015/Dec/ 29	CLINTON	689.52

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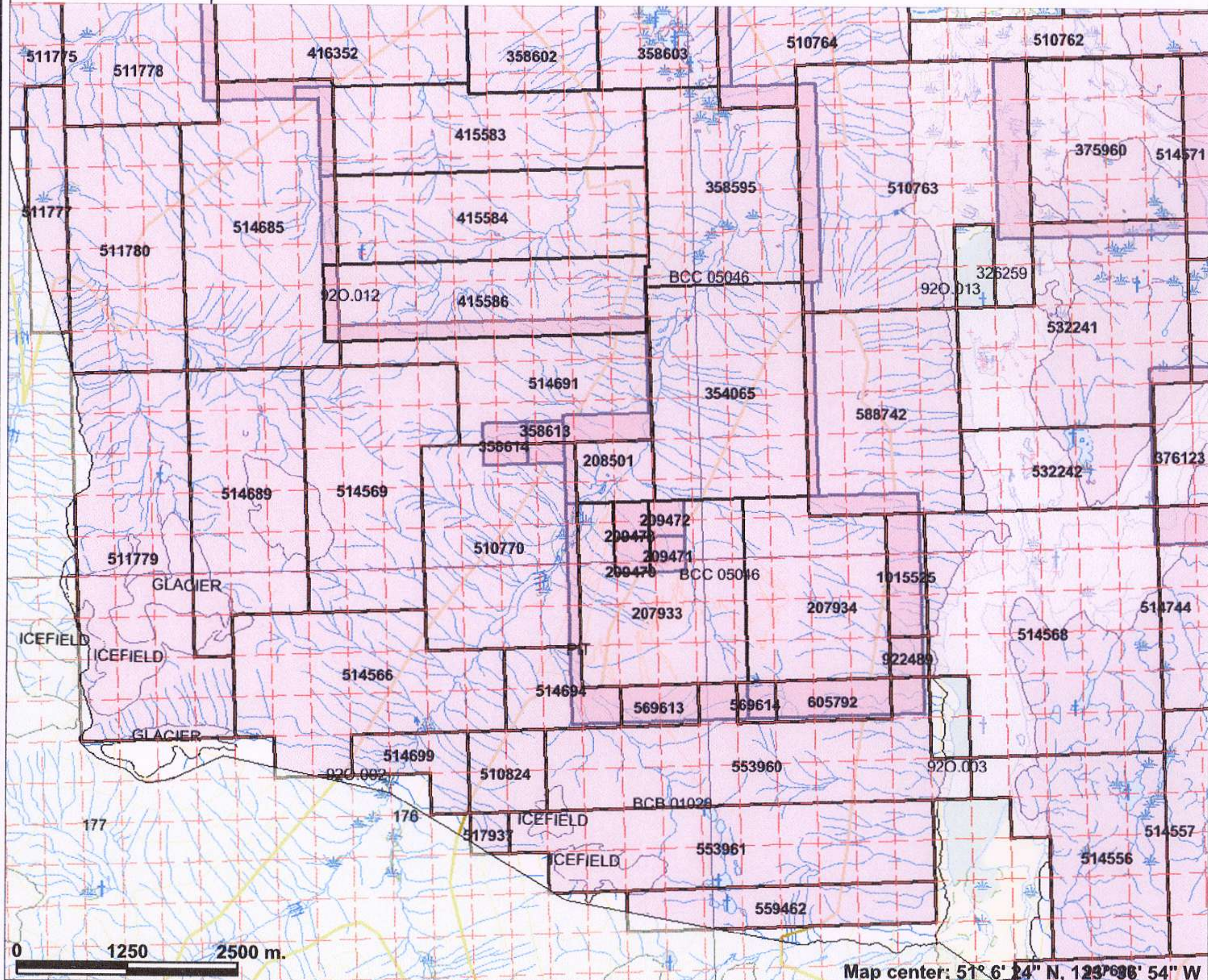
Mineral Titles Online BC

TWIN-PELLAIRE



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
- Survey Parcels
- BCGS Grid

Contours (1:250K)

- Contour - Index
- Contour - Intermediate
- Areaof Exclusion
- Areaof Indefinite Contours

Transportation - Points (TRIM)

- Helipad

Transportation - Lines (TRIM)

Scale: 1:68,152

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.

Notes: DECEMBER 27,2012

Pellaire - Falls Basin

fig 02

3. PROPERTY HISTORY

- **Discovery and Early Exploration (1936 to 1947)**

Gold-silver bearing quartz veins were discovered in 1936 by the prospectors A. Pelletier and AJ.Allaire on a northerly trending ridge east of Falls River and south of Upper Taseko Lake. Five north-easterly striking quartz veins, up to 2.4 meters wide, were discovered within granodiorite of the Coast plutonic complex near its contact with Lower Cretaceous volcaniclastics.
1937: High-grade values of up to 400 g/t Au and up to 1345 g/t Ag, as recorded in the B.C. Minister of Mines Annual Report, 1937, prompted the formation of Hi Do Mines Ltd. in 1937 to explore and exploit the veins.
In 1945/46: a renewed work program was undertaken by Pellaire Mines Ltd., a subsidiary of Quebec Gold Mining Corp., they tested the depth extent of several veins by diamond drilling 1,453 meters. A tractor road was put in to connect the property to the Fishem Lake road, a camp was installed and three adits, totalling 180m, were started on the principal veins (# 1, #3, #4 and #5).
During 1947: about 850 metres of drifts and crosscuts were completed on three different veins, which exposed a total of 140 metres of ore grade vein material in the new underground workings.

- **Lord River Gold Mines and Silver Standard (1973 to 1990)**

In 1973: Silver Standard Mines Ltd. and Lord River Gold Mines Ltd. rehabilitated the workings and conducted surface exploration. Roads were repaired; geological mapping and geochemical sampling were carried out, as well as bulldozer stripping.
In 1979/80/81: Silver Standard Mines Ltd. conducted a program of mapping, sampling along with the construction of an access road. A new adit was put in on the east-side of the ridge advancing 60 metres towards the #4 vein.
In 1987: Consolidated Silver Standard Mines Ltd., managed a program of geological exploration, adit development and diamond drilling for the Pellaire Joint Venture, as described in Holtby's report of 1987. A total of 1335 m of NQ core was drilled in 12 holes from 10 surface locations to test for ore shoots on the #3, #4 and #5 veins. As a result 49 m of drifting and crosscutting were done and a new vein labelled the #6 vein was discovered.

- **Pellaire Gold Mines Ltd. (1995 TO 1999)**

In 1995/96/97: International Jaguar Equities Inc., through its subsidiary, Pellaire Gold Mines Ltd., acquired the property. It rehabilitated 73 kilometres of roads & installed 60 steel cavers. Mine development comprised 605 feet of raise, crosscut, sub-drift and stopes in the 731 adit on vein #4, from which 1,270 tonnes of ore were extracted & shipped to the Trail smelter, with an average grade of 1.2oz/t gold and 4.2oz silver. A program of mapping, sampling, bulldozer trenching, soil sampling and underground mining was carried out from July to September (Gaboury 1997). It also resulted in the discovery of a 32 feet section of 3.78oz/t gold over 4.1 feet wide above the 749 level.
In 1997: 1,000 tons of ore were also shipped to the smelter with gold averaged 0.75oz/t.
In 1998-99: Jaguar resumed the bulk sampling program. A total of 1,500 tons of vein material was extracted and stored and the Pellaire base camp site.

- **Zelon Chemicals Ltd. and Valor Resources Ltd. (2000 to present)**

In March 2000: Zelon Chemicals Ltd. purchased the Pellaire property from Jaguar International Equities Inc. Zelon extended the bulk sampling program and established a gravity processing plant with a capacity of 40 tonnes per hour, a screen, wash and secondary recovery plant, all set up in the Pellaire camp area. Extraction of rock material for the purpose of bulk sampling continued with Zelon as operator from 2000 to 2001. A total of 1,200 tons of ore was produced from 15,000 tons of rock extracted via an open cut from the #3 and #4 veins on the same location as Jaguar's 1999 excavation. It also included the development of a site for a larger processing facility located below the Pellaire West ridge, above the tree line at 6,000 feet elevation and 3,000 metres from the Main Bulk Sample Site.
The 2002-04-05: Valor Resources Ltd. conducted exploration of the region with stream and slope soil/rock sampling of the Pellaire claims. It was followed by Magnetics & VLF as an orientation survey on the west ridge access road.

In 2006-07: Valor Resources Ltd. supported an 87 kilometres airborne survey conducted by Aeroquest which outlined several areas of interest and establishes the presence of a volcanic/intrusive system on the Pellaire East Ridge.
Air photography confirmed the presence of the airborne geophysieal anomalies and was followed by some ground work. A 354 samples soil/rock sampling survey has been done on Pellaire East, West and South to provide data on metal movement. Metallurgical testing of 334 kilograms of rocks from vein #3 was done to confirm gold-silver distribution and its association with indicator elements.

In 2008: Zelon Chemicals ltd. established the presence of an intrusive system on the Pellaire south area. On the Pellaire west breccia a correlation between the airborne geophysical data and ground magnetics was established. 68 rock samples were analysed.
In 2009-2011: Exploration of the Pellaire West ridge extension to the south & sampling some of the northern EM anomalies with 200 geochemical samples.
The zero vein area has geological similarities with the main gold zone to the north, however there are high copper & base metal values suggesting VMS and porphyry sources to the mineralizing fluids. 225 samples were collected and analysed for 53 elements. Metallurgical testing and compilation of all available results were done on stock pilled rock at 6,600 feet on the temporary millsite. 19 bulk samples of 1cubic meter each or approximately 50 tons were extracted and representative samples were fire assayed for gold & silver.
Favourable geology & prospecting results seems to indicate the presence of precious metals mineralized trends associated to sulphide deposits therefore potential drill targets.

In 2012: Stream sediment sampling along Falls River indicated a new source of gold (1.8g) and polymetalic enrichment along the Twin Creek eastern talus covered drainage.
The river has been sampled in the past with unexplained high uranium, thorium & other minor enrichment repeated and extended with our present survey.
A follow-up drainage and slope talus sampling confirmed the ionic enrichment of gold and other elements. A comparative evaluation of (-80 and 40 mesh) analysis revealed a background level for the solid particulates versus the enrichment from distal sources in the -80 mesh.

From 2003 to 2012: $880,000 was spent on exploration by the Zelon & Valor group of companies on the Pellaire area.

III. TASEKO WEST GEOLOGY

The property is located along the east margin of the Coast Plutonic Complex and is bounded to the northeast by Cretaceous volcanic and sedimentary rocks of the back arc depositional basin known as Tyaughton Trough.
Volcanic and sedimentary rocks in the trough range in age from Lower to Upper Cretaceous; Cretaceous time spans 145-65 Ma.
The Taseko Lakes region has undergone at least three phase of transpressional & contractional deformation:

- Sinistral reverse strike-slip movement (D1), 97-88 Ma (Twin Creeks). The rocks within the shear zone consist of sheared interlayed andesitic & clastic marine sedimentary rocks.
- South vergent contractional faults (D2), 91-86 Ma (Pellaire & Bralorne).
- Dextral strike-slip faulting, (Twin Creeks). The Twin Creeks fault is inferred to be left-stepover associated with the Tchaikazan fault.

A. REGIONAL ROCK TYPES

The region is underlain by several rock units of Paleozoic to Cretaceous age. These units from oldest to youngest are:

- Twin Creek succession, Permian 251 Ma
- Tchaikazan River Succession, 102 Ma
- Falls River Succession, 103 Ma
- Taylor Creek Group, 113-97 Ma
- Powell Creek Group, 95 Ma

Mount McLeod Batholith intrudes all stratigraphic units and the bulk of the batholith is dominated by granodiorite. The fringe intrusive rocks range, from diorite to felsites and include various intermediate phases such as quartz diorite, quartz-feldspar porphyry, and feldspar porphyry.
The Falls River succession defined by Israel et al. (2006) was in the past included in the Taylor Creek Group classification. The Falls River succession consists of intermediate coherent and clastic volcanic units with subordinate amount of sedimentary rocks

1. STRATIFIED ROCK UNITS

a) Palaeozoic rocks;

<u>Twin Creek Succession:</u> (251 Ma)

The unit occurs in fault lenses within the Twin Creek area and is composed of marine sedimentary rocks of Permian age. The age for the succession is 251 Ma (Israel and

Kennedy, 2001) and is interpreted as Permian basement rocks to the Mesozoic Tyaughton basin.
The Twin Creeks succession is comprised of clastic sedimentary rocks composed of black silty shale, interbedded with muddy shale or sandstone.

b) **Mesozoic rocks**

- **Upper Cretaceous;**

Powell Creek Formation:(95-79 Ma)
The formation consists of andesitic units and associated volcaniclastic rocks. Breccias and conglomerates often bound in coherent units on either side and have been interpreted as flow front units, suggesting a sub-aerial environment of deposition. Therefore it is likely that the Powell Creek Formation was deposited in a costal environment with both sub-aerial & submarine location typical of a volcanic arc setting. The majority of the Powell Creek Fm has a characteristic purple weathering colour.

- **Lower Cretaceous;**

Falls River succession: (103 Ma)
The succession consists of intermediate and clastic volcanic units with few clastic sedimentary rocks. The Falls River units have more abundant plagioclase phenocrysts than those of the Tchaikazan River succession. The lack of olivine and the increased plagioclase to hornblende ratio in most rocks give the Falls River volcanic rocks a slightly more felsic appearance than those of the Tchaikazan River. Veining and alteration are common and increase in intensity proximal to E-SE trending vertical fault zones in both the Twin Creeks & Pellaire areas. They are composed of quartz and carbonate, and less common epidote and pyrite.

Tchaikazan River succession: (102 Ma)
It is the most prominent lithologic unit in the area. The succession has been subdivided into sedimentary and volcanic dominated facies.

Sedimentary facies:
The sedimentary facies of the Tchaikazan River succession occurs in the Twin Creeks and Pellaire areas. The sedimentary rocks vary from silty and muddy shales up to coarse grained volcanic rich sandstone. Pyrite and arsenopyrite occur sporadically throughout the Tchaikazan sedimentary facies.

Volcanic facies:
The facie is composed mainly of clastic and intermediate to mafic volcanic rocks with lesser clastic sediment. Coherent volcanic flows are andesitic with up to 30% phenocryst consisting of hornblende and or plagioclase in varying proportions. Sedimentary rocks comprise a minority of the Tchaikazan volcanic facies and consist of coarse lithic sandstones and fine clastic siltstone and mudstones.
Clay alteration and weathering are widespread with zones of weak chlorite and carbonate alteration occurring proximal to fault zones.

Taylor Creek Group: (113-97 Ma)

The Taylor Creek Group consists mainly of clastic marine sedimentary rocks. The unit is intruded by the Tchaikazan Rapids Pluton (89 Ma).
The Taylor Creek Group is typically composod of grey bedded sandstone. Grains are mainly quartz and feldspar with rare larger lithic clasts.

2. INTRUSIVE ROCKS

The most extensive igneous body in the area is the Mount McLeod Batholith, which occurs in the southern part of the Twin Creek and Pellaire areas.
It comprises medium to coarse grained hornblende rich granodiorite, with U-Pb dating on the Batholith has given the ages of 101-103 Ma, (Israel and Kennedy, 2001).

a) Mount McLeod granodiorite: (103-101 Ma)

The batholith is composed mainly of uniform, medium to coarse grained biotite-hornblende granodiorite.
The granodiorite is equigranular and is composed of 35% plagioclase, 30% quartz, 15% K-feldspar, 10% biotite, and 10% hornblende. It may contain up to 3% of combined clinopyroxene, Fe-oxides or pyrite. Sets of imbricated thrust faults occur within the batholith. Also areas of copper and iron oxide alteration occur sporadically throughout the batholith.

b) Porphyritic biotite-hornblende granite: (97 Ma)

The Porphyritic biotite-hornblende granite cuts all other intrusive phases in the Mount McLeod Batholith; however, it is cut by the Mount McLure pluton.
The porphyritic biotite granodiorite consist of 50% feldspar, 34% quartz, 6% biotite and 5% hornblende. The remaining 5% of the modal composition is comprised of iron oxide and pyrite. The variation in feldspar and hornblende phenocryst size gives the rock its porphyritic texture.

c) Grizzly Cabin pluton: (102-99 Ma)

The Grizzly Cabin pluton occurs as an elongate W-NW trending lens in the NE part of the Twin Creeks area. It intrudes Permian rocks of the Twin Creek succession and Cretaceous rocks of the Tchaikazan River formation. The peripheral areas of the pluton are characterized by intermingling layers of quartz monzonite to monzodiorite and fine grained biotite-pyroxene diorite. The central area of the pluton is composed of a single homogeneous phase pyroxene diorite.

d) Tchaikazan Rapids pluton: (89-76 Ma)

The Tchaikazan Rapids pluton is composed of plagioclase-hornblende porphyry. The rock composition is 50% aphanitic plagioclase, quartz rich groundmass and 50%

phenocrysts. Plagioclase phenocrysts (30%) occur as subhedral to euhedral lathes; elongate hornblende lathes (15%); rounded quartz phenocrysts (5%).

e) <u>Dikes: (89-65 Ma)</u>

Twin Creeks dikes consists of fine grained andesite slightly porphyritic (1-2m wide) with an age of 65Ma. Northwest Copper dikes are similar in composition to the Tchaikazan Rapids Pluton (89 Ma), plagioclase-hornblende porphyry.

A separate hornblende-phyritic andesitic dike that cross cuts beds within the Powell Creek Formation in Northwest Copper yielded an age of 22 Ma. This age is correlative with Pemberton Arc volcanism to the south (29-6 Ma)

B. REGIONAL SETTING & STRUCTURE

<u>Strong crustal faults occur along the east margin of the Coast Plutonic Complex:</u>

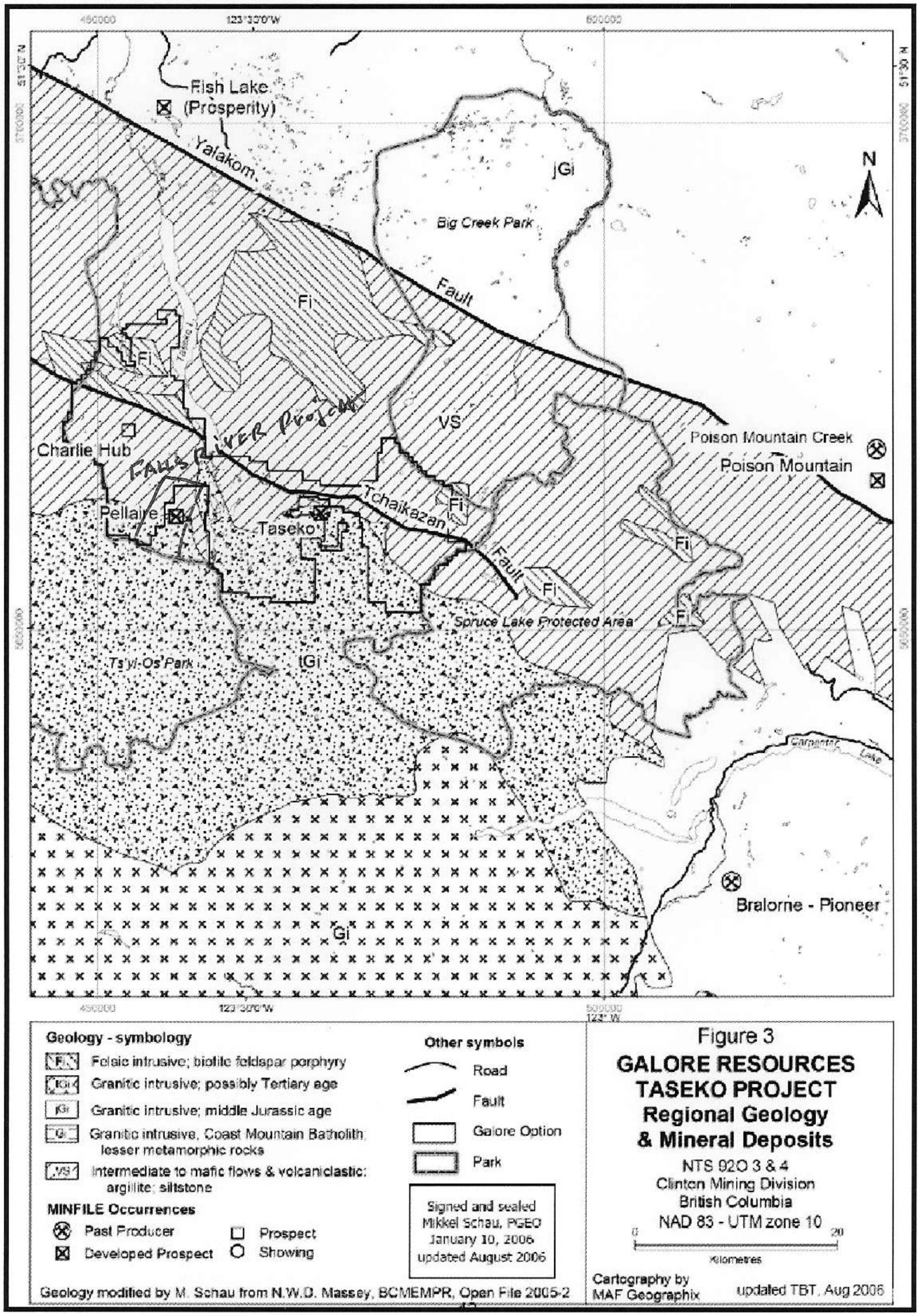
During the early stages of subduction of Pacific plate, direction of convergence of the two plates was northeast, nearly orthogonally: oceanic crust under thrusting the lighter continental crust.

During later stages, the direction of convergence became more northerly more oblique; this generated a large component or right lateral translation.

The result is major crustal faults with under thrust component during early stages, with time, changing to mixed components of under thrusting and right lateral translation.

The paralleling Yalakom Fault, 24 km further to the northeast, makes the boundary between Chilcotin Ranges and Interior Plateau.

FIG. 3: Regional Geology of the Pellaire-Falls Project.



IV. PROPERTY GEOLOGY

The region is underlain by several rock units of Paleozoic to Cretaceous age with the new Twin Creek identification of Permian sediment (251 Ma), ref.2-3.

1. LITHOLOGIES

Falls River succession: (103 Ma)

The Falls River succession was defined by Israel et al., (2006) prior to this it was included in the Taylor Creek Group.
The succession consists of intermediate and clastic volcanic units with few clastic sedimentary rocks. The Falls River units have more abundant plagioclase phenocrysts than those of the Tchaikazan River succession. The lack of olivine and the increased plagioclase to hornblende ratio in most rocks give the Falls River volcanic rocks a slightly more felsic appearance.
The andesitic volcaniclastics represent a small portion of the map area. It is thought to be the oldest unit in the Pellaire deposit. Pendants are left scattered throughout the region with intrusive bodies and faulting breaking up the continuity.

Tchaikazan River succession: (102 Ma)

It is the most prominent lithologic unit in the area. The succession has been subdivided into sedimentary and volcanic dominated facies.

Sedimentary facies:

The sedimentary facies of the Tchaikazan River succession occurs in the Twin Creeks and Pellaire areas. The sedimentary rocks vary from silty and muddy shales up to coarse grained volcanic rich sandstone. Pyrite and arsenopyrite occur sporadically throughout the Tchaikazan sedimentary facies.

Volcanic facies:

The volcanic facies of the Tchaikazan River succession seem to be more extensive than the sediment dominated one. The facie is composed mainly of clastic and intermediate to mafic volcanic rocks with lesser clastic sediment.
Coherent volcanic flows are andesitic with up to 30% phenocryst consisting of hornblende and or plagioclase in varying proportions.
Sedimentary rocks comprise a minority of the Tchaikazan volcanic facies & consist of coarse lithic sandstones and fine clastic siltstone and mudstones. Clay alteration and weathering are widespread with zones of weak chlorite and carbonate alteration occurring proximal to fault zones.

Taylor Creek Group: (113-97 Ma)

The Taylor Creek Group consists mainly of clastic marine sedimentary rocks. The unit is intruded by the Tchaikazan Rapids Pluton (89 Ma).

The Taylor Creek Group is typically composed of grey bedded sandstone. Grains are mainly quartz and feldspar with rare larger lithic clasts.

2. INTRUSIVE ROCKS

The most extensive igneous body in the area is the Mount McLeod Batholith. It comprises hornblende rich granodiorite; with U-Pb dating on the Batholith has given the ages of 101-103 Ma, (Israel and Kennedy, 2001).

The intrusive rocks described on most maps are classified as:

- A: Hornblende diorite
- B: Coast plutonic complex; granodiorite, quartz diorite
- C: Felsites; feldspar and biotite-feldspar porphyry
- D: Plagioclase hornblende porphyry

Mount McLeod granodiorite: (103-101 Ma)

The batholith is composed mainly of uniform, medium to coarse grained biotite-hornblende granodiorite. The granodiorite is equigranular and is composed of 35% plagioclase, 30% quartz, 15% K-feldspar, 10% biotite, and 10% hornblende. It may contain up to 3% of combined clinopyroxene, Fe-oxides or pyrite.

Sets of imbricated thrust faults occur within the batholith in Twin Creeks and Pellaire areas. Also areas of copper and iron oxide alteration occur sporadically throughout the batholith in both areas.

Porphyritic biotite-hornblende granite: (97 Ma)

The Porphyritic biotite-hornblende granite cuts all other intrusive phases in the Mount McLeod Batholith; however and it is cut by the Mount McLure pluton.

The porphyritic biotite granodiorite consist of 50% feldspar, 34%quartz, 6% biotite and 5% hornblende. The remaining 5% of the modal composition is comprised of iron oxide & pyrite. The variation in feldspar & hornblende phenocryst size gives the rock its porphyritic texture.

3. PELLAIRE WEST RIDGE SYSTEM

The Pellaire gold-silver quartz vein deposit is comprised of 10 or more mineralised quartz-filled fractures in a biotite hornblende granodiorite body along its intrusive contact with overlying volcaniclastics and sediments of the Lower Cretaceous Falls River Succession.

Of the known ten veins, four have been partially explored by underground workings to depth of 70 meters or less.
The four veins are exposed in the granodiorite along the Pellaire west ridge crest and range in length, on surface, from 100 to 300 meters and thickness varying from 0.3 to 7.7 meters.
Veins #1, #2, #3, #4, #5, #6 and #7, within the main mine area, trend north-easterly to almost east-west, at about 0400 to 0900 and dip variably to the northwest at 2500 to 450.
In some cases the veins pinch and swell in width and in the case of #2 vein, individual en echelon lenses of crushed quartz, representing dismembered vein segments, are present, indicating post mineral deformation.
Pre-mineral, north trending andesite dykes are offset slightly by fault movements and north-trending, non-tectonized, post-mineral basalt dikes are also common.

The granodiorite-volcanic contact zone, which some previous workers have mapped as a possible thrust fault, is typically silicified, oxidized and fractured.
Pyroclastics and volcanic flow rocks are metamorphosed to a siliceous hornfels, which is fractured and limonite stained. Sedimentary beds are less intensely altered.

An east-west normal fault within the granodiorite, south of the mine site area, cuts across volcanic lithologies to the east.
The A, B, East and SE veins are aligned with this structure and are made up of layers or sheets of quartz, parallel with the walls, which have filled the open space.
Where fault movement has taken place after quartz-mineral emplacement, a clay and rock flour gouge has developed. Wall rock alteration may persist several centimetres to meters into the enclosing granodiorite, depending on vein width.
The alteration consists of assemblages of epidote, chlorite, clays, sericite, kaolinite and quartz, sericite being the most common alteration product.

The zero vein area consists of a porphyritic microdiorite intruding the Mont MacLeod Granodiorite mass. A patch of intermediary volcanics outcrops to the S-W about 250 x 250 meters across. The original Zero vein outcrop is 200 meters long, with several alteration zones revealing the presence of other vein systems.

4. LATE MINERALIZATION STAGE

From underground work done on #3 & #4 veins, it appears that sulphides and tellurides deposition came at a late stage of mineralization.

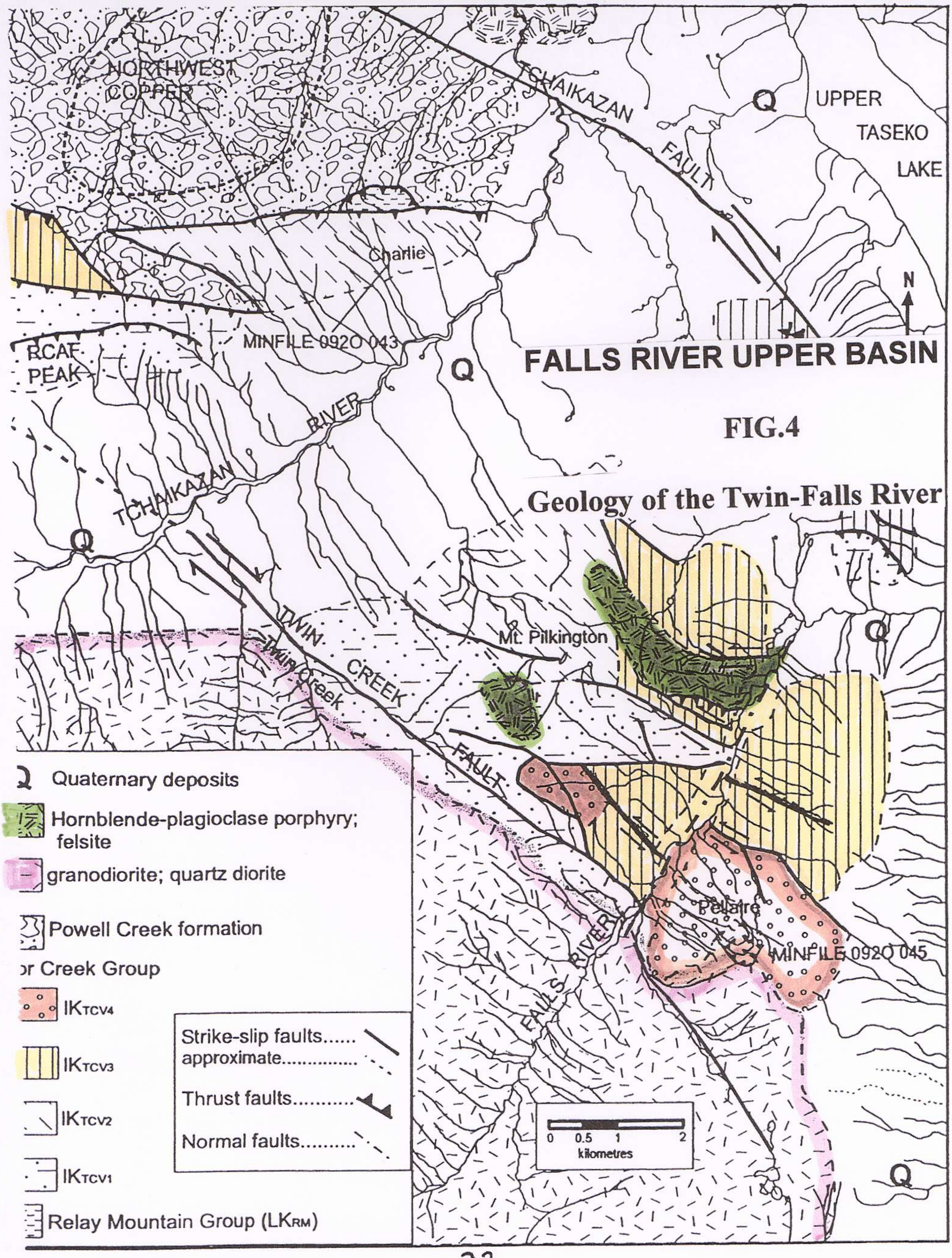
The facts are that the sulphides are not disseminated through the quartz matrix. However the tellurides must have been deposited during all stages of mineralization and remobilized several times, since tellurides are found in quartz and other rocks associated with alterations.
It was determined that hessite, containing large amounts of gold and silver, had been introduced into fractures, open spaces, in alteration zones and in the pyrite as in a late mineralization stage.
Hessite apparently oxidizes rather rapidly and forms a fine powder during ground water percolation as it tends to be washed downwards into lower parts of the vein. This results in generally low gold grades at the surface of the vein outcrops, but increases the gold grades in underground workings.

Vein #4 as an example, caries low gold values of (0.1g to 1g) near surface, but at a lower level (20 feet down), gold values are enhanced up to +100g.
The five main veins located in the mine site area, have been the subject of numerous reports by the authors listed below, on which surface and underground exploration has been conducted over the years.

At the present we have found up to 10 veins along the Pellaire west ridge extending to the south for about 1,500 meters into the zero area at 7,800 feet elevation.
The zero vein area is located south of West ridge and consists of a porphyritic microdiorite intruding the Mt. McLeod granodiorite mass.
An intermediary volcanic outcrop to the S-W of the Zero vein (aprox. 250m x 150m).
The original Zero vein outcrop is 200 meters long, with several alteration zones revealing the presence of other vein systems.

The main tonnage potential may come from the "zero vein" and a proposed interpreted X vein, which may be related to the Red Rock thrust.
All veins may be part of the same hydrothermal system pumping the metal rich solutions into zones of weakness.

Skerl (1947), Phendler (1980, 1984), Saunders (1984), Ash (1996), and Gaboury (1997), have all described in their reports, the geometry, the extent and the tenor of ore mineralization of the main veins.



FALLS RIVER UPPER BASIN

FIG.4

Geology of the Twin-Falls River

V. EXPLORATION OBJECTIVES

1. OBJECTIVES

The Pellaire-Falls River basin property is comprised of a glacial bowl and a high ridge to the south flanked by a west ridge toward Falls River, were most exploration has been done.

The objectives are:

- Provide new data on a 4,500 meters of the Falls river drainage
- Identify metal movement under various slides and boulder areas
- Follow up on previous sampling by extending the coverage and increased density in anomalous areas previously sampled.
- Locate areas with metal enrichment related to gold-silver

2. FIELD PERSONNEL

A 3-4 men crew have been using accommodation at the Pellaire exploration camp on Falls River, about 2,000 meters from the work area.

The exploration/sampling started September 10, 2012 and finished October 30, 2012.

- Work was done on tenure # 208501, 207933, 354065, 510770,514566,514694; Events # 54233524

TABLE #2: Below, lists the personnel involved with the fieldwork

Workman, 2012	Time Frame	Cost/day	Days
John H. Hajek, manager	Sept.10-October 30,2012	$450	10
D. Hajek, field supervisor	Sept.10-October 30,2012	$350	20
R. Pierce, first Aid.	Sept.10-October 30,2012	$350	20
G. Pierce, sampler	Sept.10-October 30,2012	$200	20

VI. 2010 DATA INTERPRETATION

1. OVERVIEW OF DATA

The analytical results presented in this report are to facilitate exploration of the Pellaire and Twin Creek claims.
Analytical sample results are presented in the appendix #2, #3, #5 & #6; with sampling method and approach listed in appendix #4.

The exploration/sampling started September 10, 2011 and finished October 30, 2012.

- Work was done on tenure # # 208501, 207933, 354065, 510770, 514566, 514694; Events # 54233524
- The 2012 exploration data added to previous orientation surveys, by presenting a wider data base on the geochemistry of Falls River drainage basin.

Appendix A2:
It summarizes the analysis of 62 samples send to the Acme labs.
The results listed in this appendix are outlining values of interest which are above background. It also outlines elemental values which are higher than normal but not necessarily within the strict definition of anomalous.

Appendix A3:
Geological sample description of Falls River basin

Appendix A4:
Sampling method, approach, sample preparation, analysis & security are outlined to present a descriptive view of the various steps.
Duplicate samples extraction is presented to provide a confidence level in the accuracy of the field and analytical work.

Appendix A5:
Tables #7 to #10 provide data on geochemical control values in various rock types.

Appendix A6:
Acme labs analytical reports

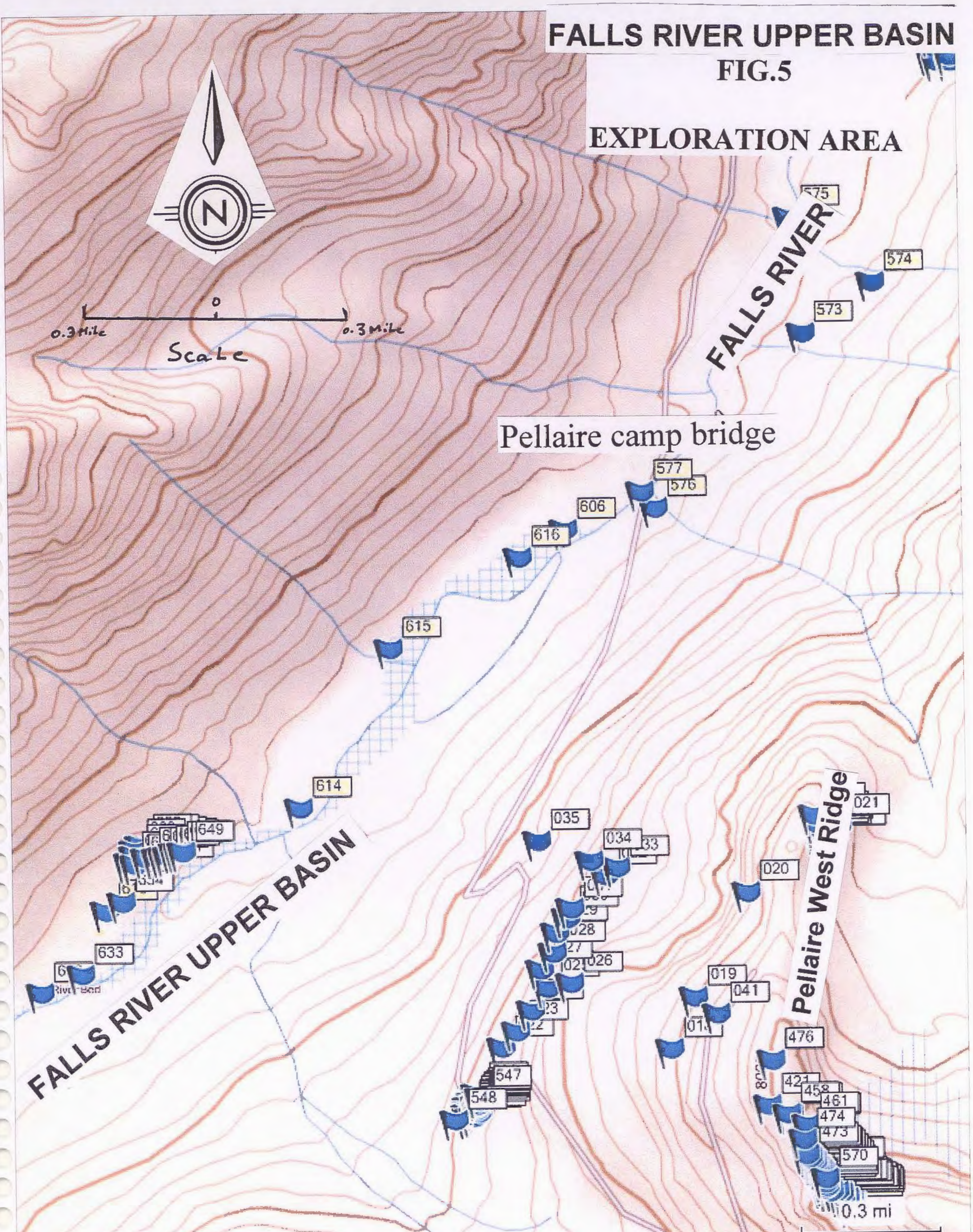
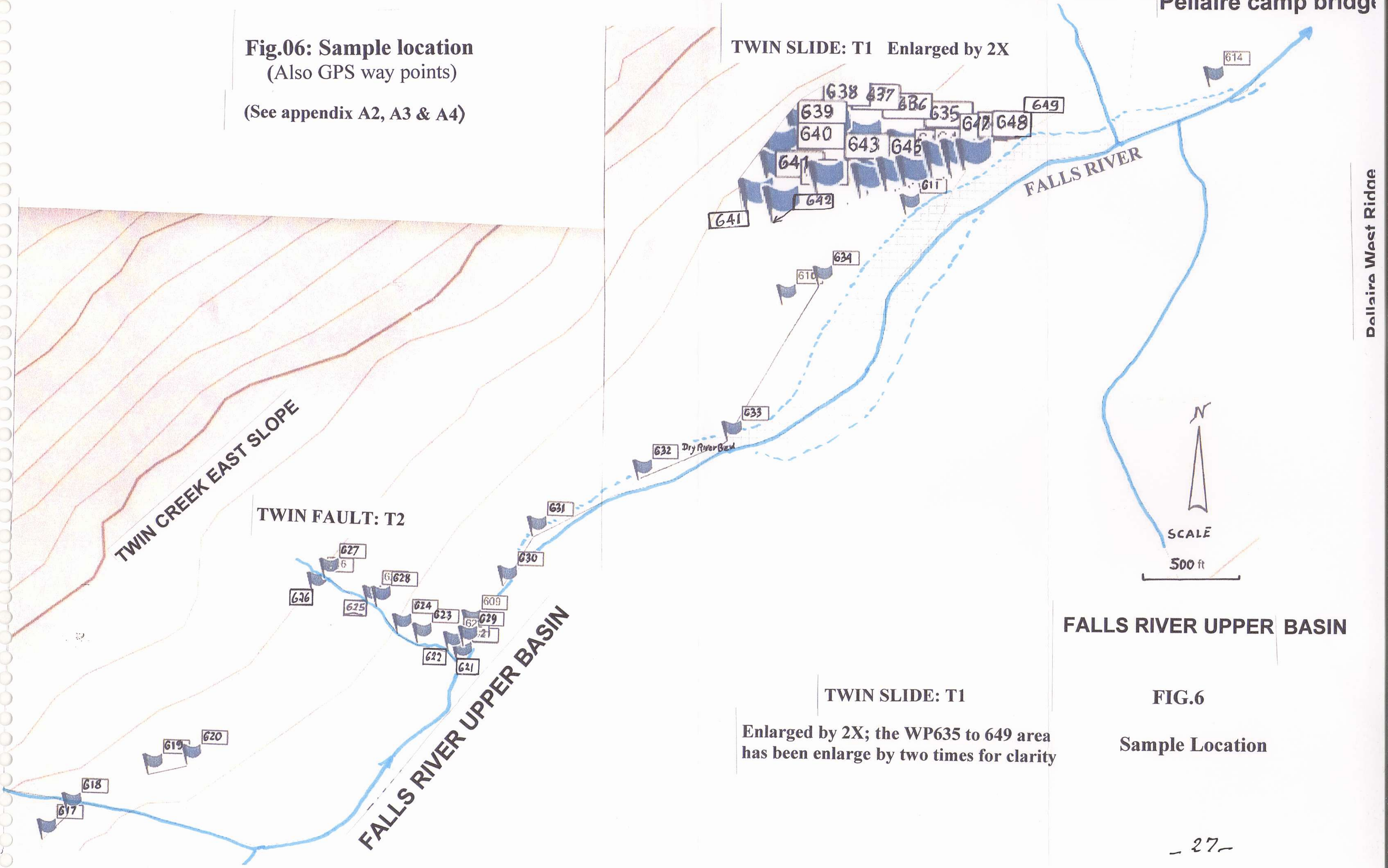

FALLS RIVER UPPER BASIN
FIG.5
EXPLORATION AREA
0.3 Mile
0
0.3 Mile
Scale
N
FALLS RIVER
575
574
573
Pellaire camp bridge
577
576
606
616
615
614
649
633
River Bed
FALLS RIVER UPPER BASIN
035
034
033
028
027
026
023
547
548
021
020
019
041
Pellaire West Ridge
476
421
458
461
474
473
570
0.3 mi
GPS Map Detail

Fig.06: Sample location
(Also GPS way points)

(See appendix A2, A3 & A4)



FALLS RIVER UPPER BASIN

TWIN SLIDE: T1

Enlarged by 2X; the WP635 to 649 area has been enlarge by two times for clarity

FIG.6

Sample Location

2. DATA INTERPRETATION

The 2012 exploration consisted of evaluating the gold-silver distribution in the upper Falls River drainage basin. This river sampling started with 4,500 meters upstream follow-up from the Pellaire camp bridge.
Previous work did outline several conductors under the Twin creek east big talus which may be related to several large iron-manganese stains coming from the river bank seepage from under numerous talus slopes, fig.08.
The analytical results for 62 samples are compiled in appendix #2. The emphasis is to outline values of interest which are above background.
The objective is to outline metal which values are indicative of metal movement coming from mineralized strata leaching through ground water movement of dissolved metal probably in the ionic form.
We found that anomalous values of manganese, arsenic, uranium-thorium, gold and other suites of elements are abundant.
The 8 Km Falls River drainage sampling does not have the density to reflect the area geology and should be used only as an orientation survey to plan further work. The latest results seem to confirm the geophysical anomalies found in 2005.

GEOCHEMICAL ANOMALIES from 62 samples:
The elements **As, U, Th, Au, Mn & V** and other metal values are important as indicator elements.
Falls River stream sediments contain gold 126/448ppb, U=8/Th=18ppm, As=104/88 and Mn as loeal enrichment possibly transported under the ionic form with other metals movement originating from upstream and under talus (see table 9A).
The Twin Creek faults system may be the source of the multi-elements anomalies. However the high uranium (8-27ppm) & thorium (18-33ppm) and vanadium may have its sources in the Twin Creek tertiary shales and E-W fault structures.

A. ANOMALOUS VALUES OF INTEREST

Relation between the two size fractions analysed i.e. (-80 & -200 mesh) is outlined below to emphasis the enrichment versus the residual metal content.

WP-617-M80; Au=12-Th=14, K=0.27%, Tl=0.23, Cs=5.4-Rb=31, Ce=47.
WP 617-M40; Au=2-Th=7.8, K=0.24%, Tl=0.15, Cs=3.1-Rb=24, Ce=41
Association: Au=12/2, Th=14/7, K=0.27/0.24%, Tl=0.23/0.23, Cs=5.4/3.1, Rb=31/24, Ce=47/41.
Conclusion: Au-Th, Cs-Rb elements are of interest for WP-617 location

WP-622-M80; U=8-Au=12-Th=6, V=98, Sc=6.8, Tl=0.15, Ce=30
WP 622-M40; U=5-Au=8-Th=5, V=163, Sc=4.5, Tl=0.13, Ce=41
Association: U=8/5, Au=12/8, Th=6/5, V=98/163, Sc=6.8/4.5, Ce=30/41.
Conclusion: U-Au-Th & Sc elements are of interest for WP-622 location

WP-624-M80; U=6-Au=126-Th=11, V=109, Cr=30, Ti=0.15%, Sc=6.5, Ce=33
WP 624-M40; U=3.9-Au=12-Th=6, V=178, Cr=40, Ti=0.15%, Sc=5, Ce=39
Association: U=6/3.9-Au=126/12-Th=11/6, V=109/178, Sc=6.5/5, Ce=33/39
Conclusion: U-Au-Th, V-Sc-Ce elements are of interest for WP-624 location

WP-626-M80; U=4.6-Au=36-Th=9, Ti=0.18%, Sc=7.3, Tl=0.16, Ce=34
WP 626-M40; U=2.5-Au=12-Th=4.8, Ti=0.15%, Sc=4.3, Tl=0.13, Ce=28
Association: U=4.6/2.5-Au=36/12-Th=9/4.8, Sc=7.3/4.3, Tl=0.16/0.13,
Conclusion: U-Au-Th, Sc-Ce elements are of interest for WP-626 location

WP-627-M80; Fe=5.5%, U=5.7-Au=10-Th=18, V=104, Cr=62, Ce=51
WP 627-M40; Fe=6.7%, U=2.7-Au=27-Th=8, V=322, Cr=72, Ce=48
Association: Fe=5.5/6.7%, U=5.7/2.7-Au=10/27-Th=18/8, V=104/322, Cr=62/72, Ce=51/48
Conclusion: U-Au-Th, V-Cr elements are of interest for WP-627 location

WP-635-M80; Mn=900, Fe=4.5%, As=89, Au=23, Mg=1.26%, Al=3.5%, Sc=6
WP 635-M40; Mn=871, Fe=4.2%, As=61, Au=23, Mg=1.25%, Al=3% Sc=6.9
Association: Mn=900/871, Fe=4.5/4.2%, Au=23/23, As=89/61
Conclusion: Mn, As & Au, elements are of interest for WP-635 location

WP-636-M80; Ag=111, Mn=1053, As=91, Au=16, Mg=0.87%, Sc=7.4, Cs=3.3
WP 636-M40; Ag=101, Mn=807, As=57, Mg=0.75%, Sc=6.3, Cs=2.3
Association: Ag=111/101, Mn=1053/807, As=91/57, Mg=0.87/0.75%, Sc=7.4/6.3, Cs=3.3/2.3
Conclusion: Ag-Mn-Mg-Sc-Cs elements are of interest for WP-636 location

WP-638-M80; Ag=358, Mn=747, Fe=3.4%, As=87, Mg=0.77%, Sc=6.6, Nb=0.71,
WP 638-M40; Ag=173, Mn=543, Fe=2.8%, As=44, Mg=0.61%, Nb=0.74
Association: Ag=358/173, Mn=747/543, Fe=3.4/2.8%, Mg=0.77/0.61%,
Conclusion: Ag-Mn-Fe-Mg elements are of interest for WP-638 location

WP-639-M80; Mn=747, Fe=3.2%, As=61, Au=16, Mg=0.6%, Nb=0.52
WP 639-M40; Mn=656, Fe=3.2%, As=42, Mg=0.55%, Nb=0.65

Association: Mn=747/656, As=61/42, Nb=0.52/0.65
Conclusion: Mn-As elements are of interest for WP-639 location

WP-640-M80; Ag=115, As=38, Nb=0.91
WP 640-M40; Ag=69, As=20, Nb=0.85
Association: Ag=115/69, As=38/20, Nb=0.91/0.85
Conclusion: Ag-As elements are of interest for WP-640 location

WP-641-M80; Ag=335, As=38, U=5.4-Au=7-Th=6, Tl=0.17, Nb=0.88, Zr=1.2
WP 641-M40; Ag=180, As=22, Tl=0.12, Nb=0.86
Association: Ag=335/180, As=38/22, Tl=0.17/0.12, Nb=0.88/0.86
Conclusion: Ag-As-Tl elements are of interest for WP-641 location
Anomalous to follow up: Ag=335/180, As=38/22

WP-642-M80; Ag=137, As=69, Tl=0.13, Nb=0.72
WP 642-M40; Ag=99, As=58, Tl=0.15, Nb=0.76
Association: Ag=137/99, As=69/58
Conclusion: As element is of interest for WP-642 location

WP-645-M80; As=71, Au=19, Tl=0.12
WP 645-M40; As=40, Tl=0.12
Association: As=71/40
Conclusion: As elements is of interest for WP-645 location

WP-646-M80; Ag=138, Mn=508, As=46
WP 646-M40; Ag=161, Mn=674, As=54
Association: Ag=138/161, Mn=508/674, As=46/54
Conclusion: As is the elements of interest for WP-646 location

WP-647-M80; Mn=806, As=59, Al=2.79%
WP 647-M40; Mn=726, As=42, Al=2.4%
Association: Mn=806/726, As=59/42
Conclusion: Mn-As elements are of interest for WP-647 location

WP-648-M80; Mn=815, As=96, Mg=1.44%, Ba=132, Al=3.27%
WP 648-M40; Mn=778, As=77, Mg=1.49%, Ba=113, Al=2.9%
Association: Mn=815/778, As=96/77, Mg=1.4/1.4%, Ba=132/113
Al=3.2/2.9%
Conclusion: As-Ba-Al elements are of interest for WP-648 location
Anomalous to follow up: As=96/77, Ba=132/113

WP-649-M80; Ag=133, Mn=750, As=104, Au=5, Sr=89, Cr=38, Mg=1.51%, Ba=144, Al=3.3%, Sc=6.8

WP 649-M40; Ag=237, Mn=765, As=88, Au=448, Sr=65, Cr=37, Mg=1.59%, Ba=113, Al=3.1%, Sc=6.7

Association: Ag=133/237, As=104/88, Sr=89/65, Ba=144/113,
Conclusion: Ag-As-Sr-Ba elements are of interest for WP-649 location
Anomalous to follow up: As=104/88, Ba=144/113

B. ANOMALIES SUMMARY

WP-624 location: U-Au-Th, V-Sc-Ce elements are of interest
Anomalous to follow up: U=6/3.9-Au=126/12-Th=11/6

WP-626 location: U-Au-Th, Sc-Ce elements are of interest
Anomalous to follow up: Au=36/12-Th=9/4.8, Sc=7.3/4.3,

WP-627 location: U-Au-Th, V, Cr, Ce elements are of interest

WP-635 Location: As &Au, elements are of interest
Anomalous to follow up: Au=23/23, As =89/61

WP-636 location: Ag-Mn-Mg-Sc-Cs elements are of interest
Anomalous to follow up: Mn=1053/807, As =91/57, Sc=7.4/6.3

WP-638 location: Ag-Mn-Fe-Mg elements are of interest

WP-639 location: Mn-As elements are of interest
Anomalous to follow up: As=61/42

WP-641 location: Ag-As-Tl elements are of interest
Anomalous to follow up: Ag=335/180, Tl=0.17/0.12

WP-645 location: As elements is of interest
Anomalous to follow up: As=71/40

WP-648 location: As-Ba-Al elements are of interest
Anomalous to follow up: As=96/77, Ba=132/113

WP-649 location: Ag-As-Sr-Ba elements are of interest
Anomalous to follow up: As=104/88, Ba=1

Maps D1/7A, D2/7B, and D3/7C outline the location and values of metals suites such as: Cu-Ag-Fe, As-U-Au-Th and V-K-Ce-Li.
The distinction between the elements of interest and the ones to follow up as listed above is one of practical and economical value.
Many secondary elements of interest are valuable mainly within a larger data base representing the variation within transported and the distal bedrock.

Table 9B; represents a comparison of mean values for future geochemical exploration.

- The calculated arithmetic mean represents the average of all sample values per element as represented on each map sheet and is compared to crustal data from appendix #5.

TABLE 9B:Upper FALLS river East slopes: mean values summary				
D1/7A	**Copper**	**Silver, ppb**	**Iron %**	
Mean, 80/40	**35-28**	**111-80**	**3.1-3.0**	
Appendix #6	50-70	80-150	3-4	
D2/7B	**Arsenic**	**Uranium**	**Gold, ppb**	**Thorium**
Mean, 80/40	**38-26**	**2.3-1.5**	**12-20**	**5.3-3.3**
Appendix #6	10-15	1-3	5-20	3-5
D3/7C	**Vanadium**	**Potassium%**	**Cerium**	**Lithium**
Mean	**77-81**	**0.14-0.15**	**18-16**	**18-16**
Appendix #6	60-200	0.10-0.15	20	15-20

- Arsenic and gold mean values are well above the norm indicating a general enrichment in T1 & T2 areas.

C. ANOMALOUS RESULTS INTERPRETATION

(Values are in part per million unless specified, as gold-silver in ppb)
Overviews of 62 samples results which conclusions are drawn from the analytical data in appendix #2 and summarizes in DR-1-2-3F & fig 07.

- The Falls River drainage basin caries various amount of metals enrichment in the Twin Slide area T1 & in the Twin Fault area.
- The selected locations have enough metal enrichment to be significant in a further detailed sampling and evaluation.

1. **WP-624 location: U-Au-Th, V-Sc-Ce elements are of interest**
Anomalous to follow up: U=6/3.9-Au=126/12-Th=11/6

2. **WP-626 location: U-Au-Th, Sc-Ce elements are of interest**
Anomalous to follow up: Au=36/12-Th=9/4.8, Sc=7.3/4.3,

3. **WP-635 Location: As &Au, elements are of interest**
Anomalous to follow up: Au=23/23, As =89/61

4. **WP-636 location: Ag-Mn-Mg-Sc-Cs elements are of interest**
Anomalous to follow up: Mn=1053/807, As =91/57, Sc=7.4/6.3

5. **WP-645 location: As elements is of interest**
Anomalous to follow up: As=71/40

6. **WP-648 location: As-Ba-Al elements are of interest**
Anomalous to follow up: As=96/77, Ba=132/113

7. **WP-649 location: Ag-As-Sr-Ba elements are of interest**
Anomalous to follow up: As=104/88, Ba=144/113

From the detailed data listed on drawings DR-1F, 2F, 3F and data listed above we suggest the following conclusions:

- Polymetallic enrichment seem to suggest the presence of VMS (volcanic massive sulphides deposits)
- High As, U/Th, Cr & Fe are also the elements which may be associated with the gold ore in conjunction with VMS & others type of deposits.
- Appendix A5: Geochemical statistics sets a base for interpretation of each of the 53 elements analysed (see table 7 to 10).
- Vanadium, & thorium high values may have a multiple source as origin of the enrichment: shales, hot spring, and fault leaching as from Pellaire vein #3-4.

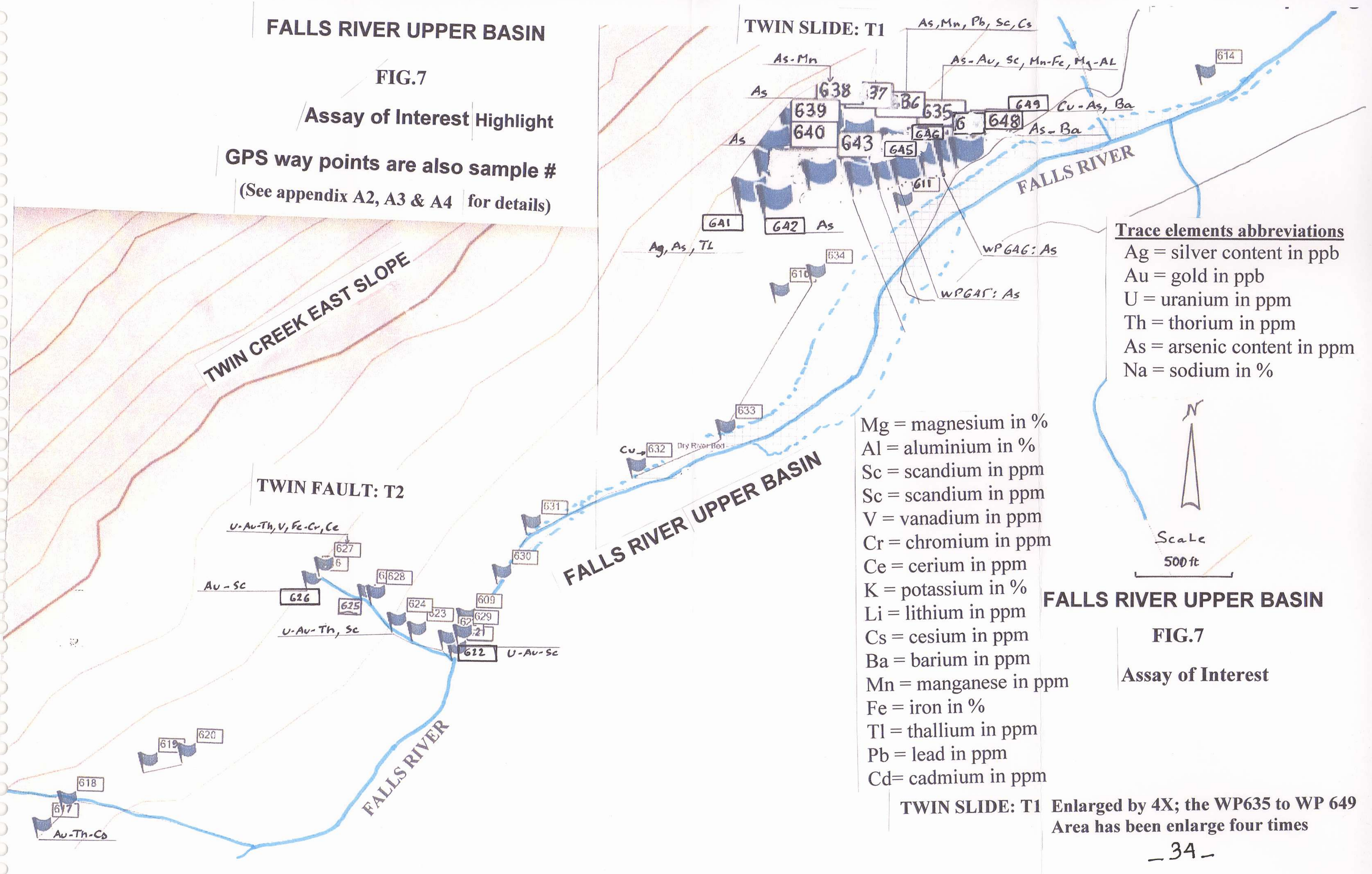
FALLS RIVER UPPER BASIN

FIG.7

Assay of Interest Highlight

GPS way points are also sample #

(See appendix A2, A3 & A4 for details)



Trace elements abbreviations

Ag = silver content in ppb
Au = gold in ppb
U = uranium in ppm
Th = thorium in ppm
As = arsenic content in ppm
Na = sodium in %
Mg = magnesium in %
Al = aluminium in %
Sc = scandium in ppm
Sc = scandium in ppm
V = vanadium in ppm
Cr = chromium in ppm
Ce = cerium in ppm
K = potassium in %
Li = lithium in ppm
Cs = cesium in ppm
Ba = barium in ppm
Mn = manganese in ppm
Fe = iron in %
Tl = thallium in ppm
Pb = lead in ppm
Cd= cadmium in ppm

FALLS RIVER UPPER BASIN

FIG.7

Assay of Interest

TWIN SLIDE: T1 Enlarged by 4X; the WP635 to WP 649 Area has been enlarge four times

FALLS RIVER UPPER BASIN

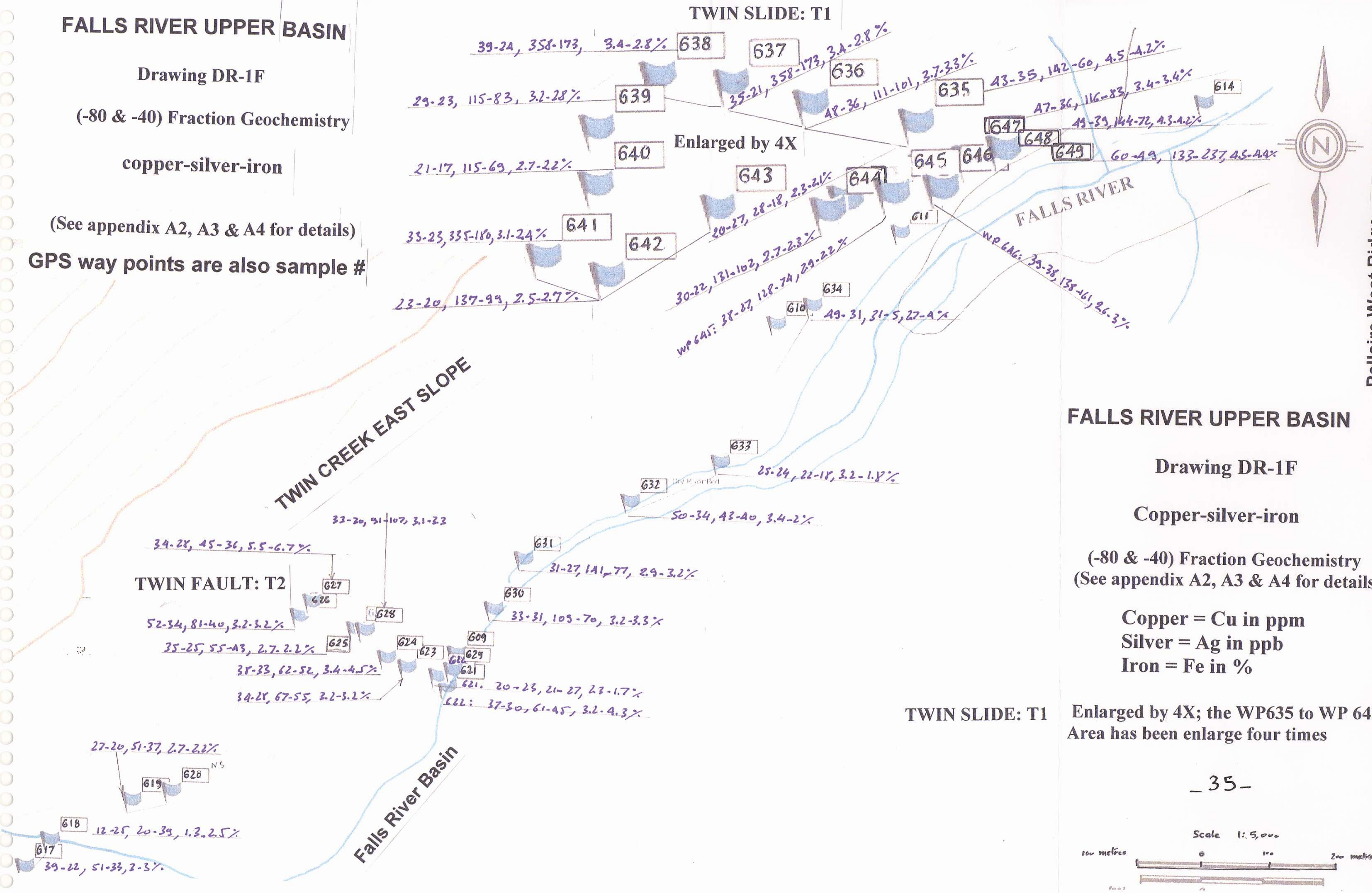
Drawing DR-1F

(-80 & -40) Fraction Geochemistry

copper-silver-iron

(See appendix A2, A3 & A4 for details)

GPS way points are also sample #



FALLS RIVER UPPER BASIN

Drawing DR-1F

Copper-silver-iron

(-80 & -40) Fraction Geochemistry
(See appendix A2, A3 & A4 for details)

Copper = Cu in ppm
Silver = Ag in ppb
Iron = Fe in %

TWIN SLIDE: T1

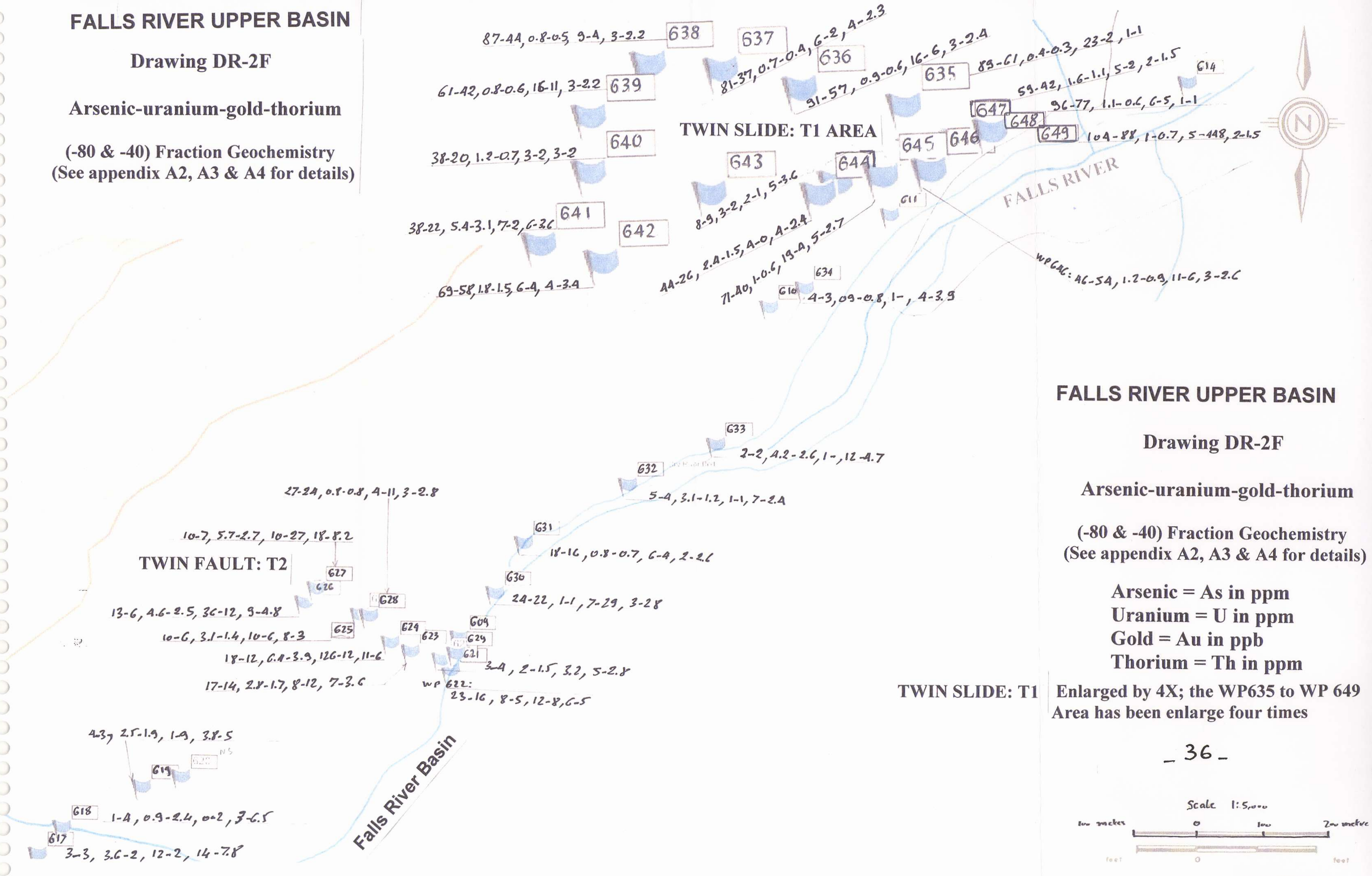
Enlarged by 4X; the WP635 to WP 649 Area has been enlarge four times

FALLS RIVER UPPER BASIN

Drawing DR-2F

Arsenic-uranium-gold-thorium

(-80 & -40) Fraction Geochemistry
(See appendix A2, A3 & A4 for details)



FALLS RIVER UPPER BASIN

Drawing DR-2F

Arsenic-uranium-gold-thorium

(-80 & -40) Fraction Geochemistry
(See appendix A2, A3 & A4 for details)

Arsenic = As in ppm
Uranium = U in ppm
Gold = Au in ppb
Thorium = Th in ppm

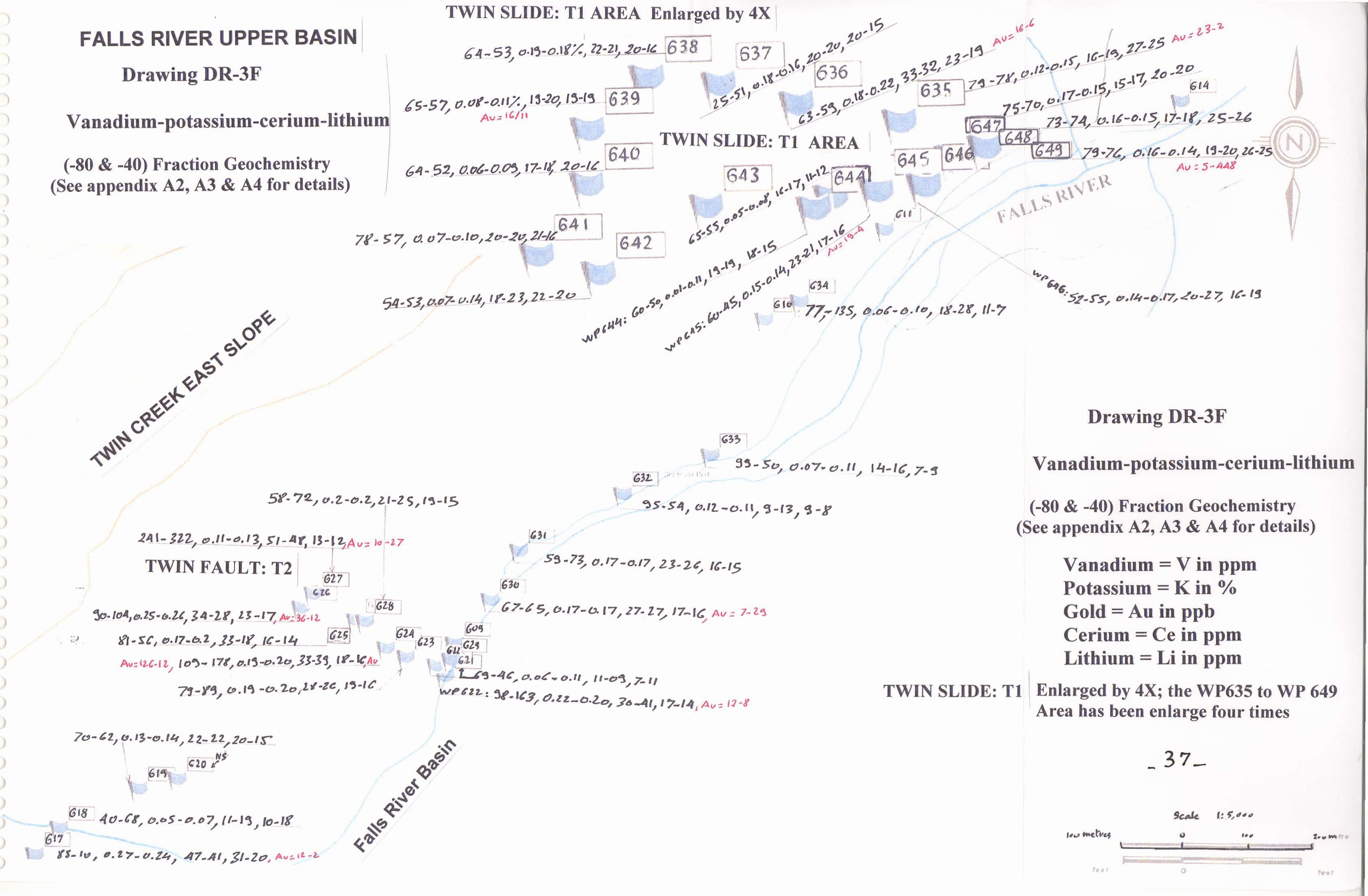
TWIN SLIDE: T1 Enlarged by 4X; the WP635 to WP 649 Area has been enlarge four times

FALLS RIVER UPPER BASIN

Drawing DR-3F

Vanadium-potassium-cerium-lithium

(-80 & -40) Fraction Geochemistry
(See appendix A2, A3 & A4 for details)



Drawing DR-3F

Vanadium-potassium-cerium-lithium

(-80 & -40) Fraction Geochemistry
(See appendix A2, A3 & A4 for details)

Vanadium = V in ppm
Potassium = K in %
Gold = Au in ppb
Cerium = Ce in ppm
Lithium = Li in ppm

TWIN SLIDE: T1 Enlarged by 4X; the WP635 to WP 649 Area has been enlarge four times

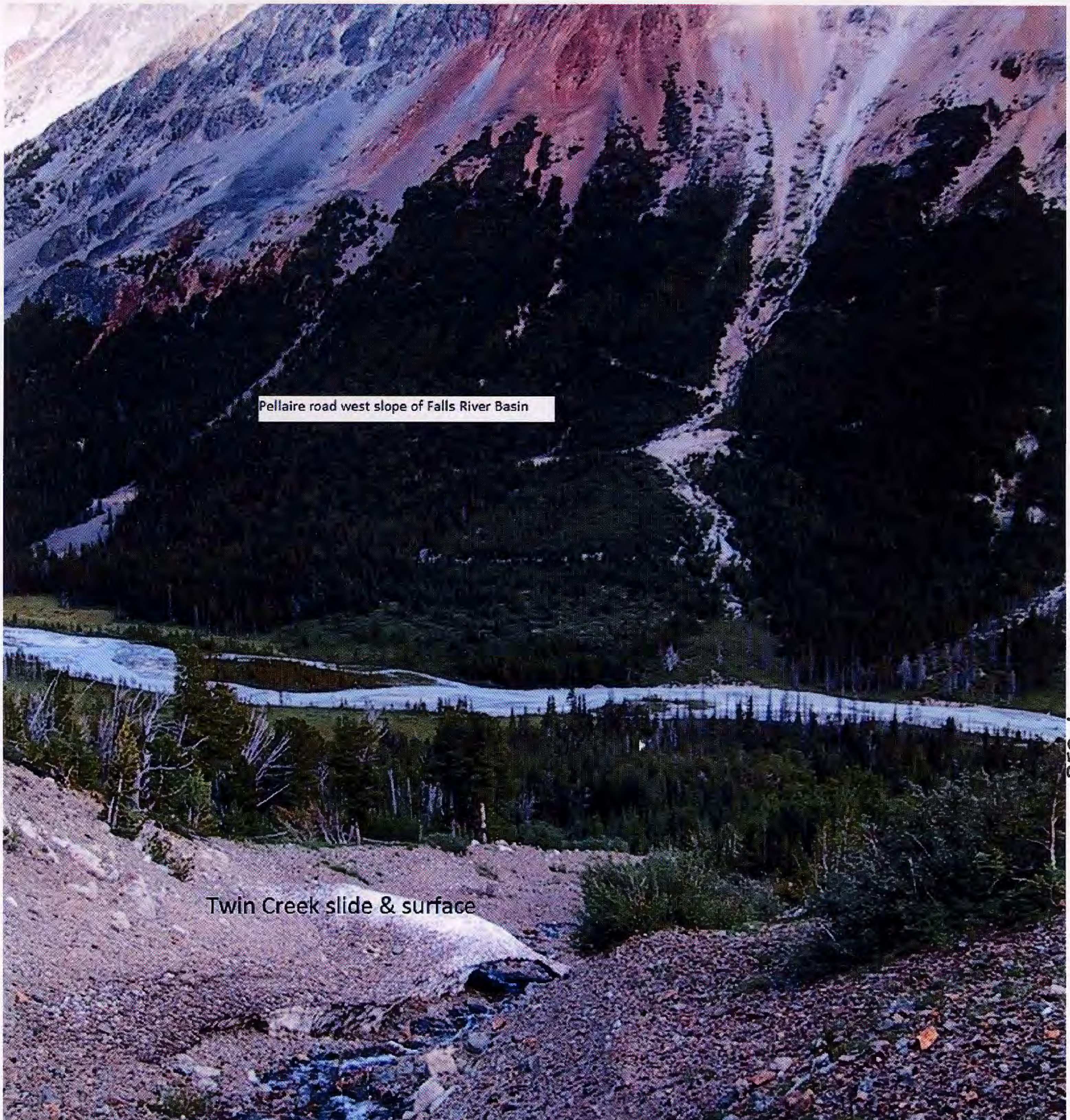
VII. CONCLUSION & RECOMMENDATIONS

1. CONCLUSION

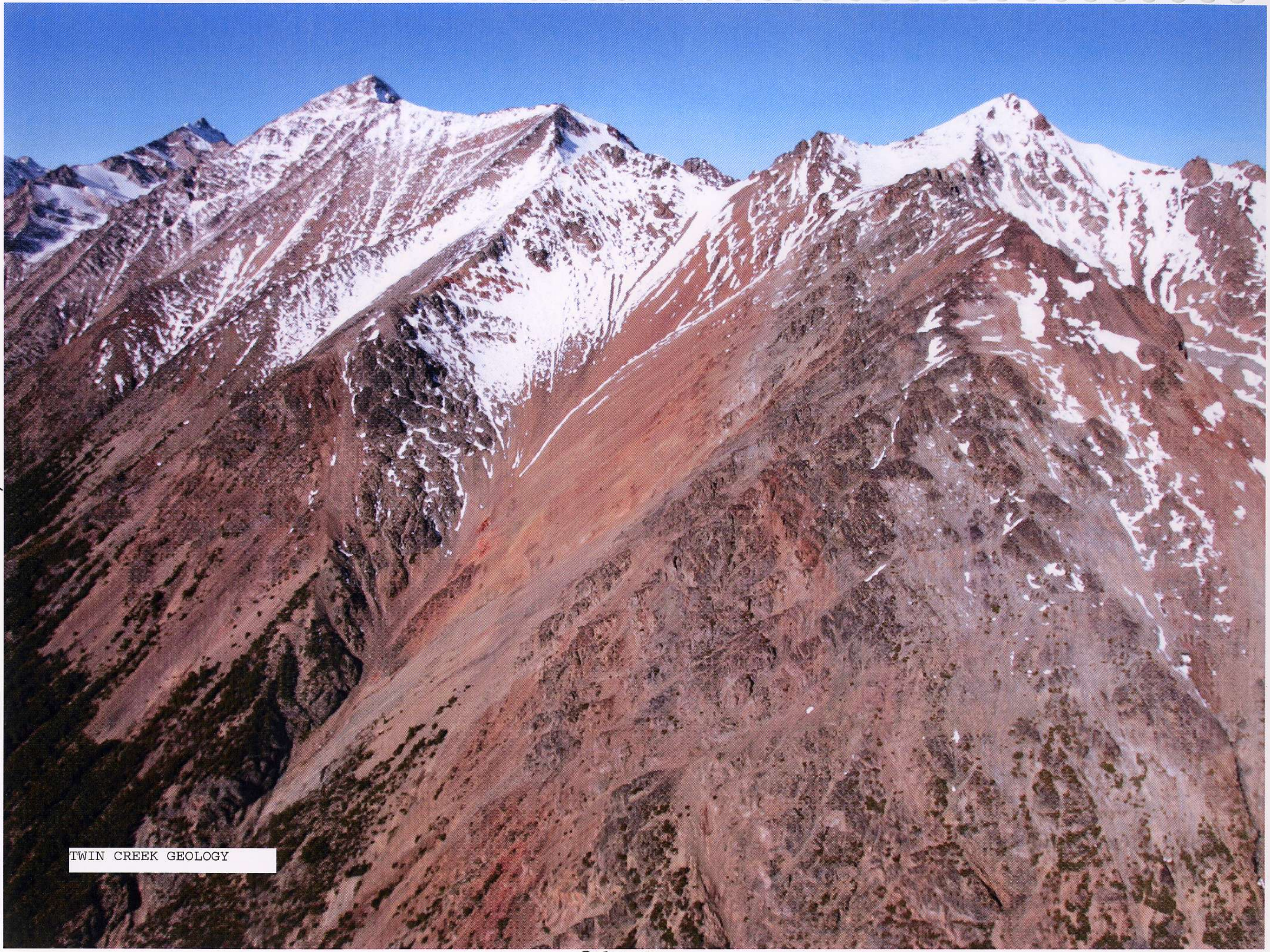
A total of 62 samples have been taken from Falls River Basin and represented by the Pellaire-Twin property, have been sent to Acme Labs for 53 elements analysis.
From the analytical results enhanced metal values have been tabulated (table 9A & 9B) with emphasis on the ionic retention of two size fraction of the same sample.
Various metal associations were outlined in appendix #2 & #3 and illustrated on drawings DR-1F-2F-3F.
The metal enrichment and dispersion along the Falls River 9 Kilometers drainage basin is significant and indicates several exploration target areas.
The region comprise between the Twin Creek fault and the Pellaire camp bridge represent a geological section favourable to ionic movement of metals as indicated by previous ground geophysics and covered by talus slides, fig.08.
High gold values in (-80 & 40 mesh) bank samples are indicative of ionic movement and precipitation of gold over two areas of interest: T1 & T2, fig.06.

1. RECOMMENDATIONS

Follow up sampling is required to delineate the movement of dissolved metals and to correlate with ground Magnetic & VLF surveys.
If our follow up samples give a precise anomaly then more ground geophysics is recommended.
Several small grids 200 x 200 meters should be established centered on each anomalous sample.
Auger geochemical sampling followed by ground geophysics should be conducted over the gridded areas.
Finally drilling on prospective results is recommended.


Pellaire road west slope of Falls River Basin
Twin Creek slide & surface

PFR-1



PFR-2

VIII. STATEMENT OF EXPENDITURES

The exploration work was done as a two stages program with follow up on anomalous results and with the realisation that the Falls River basin was still unexplored.

Phase one:

The exploration/sampling started September 10, 2012 and finished October 30, 2012.

- Work was done on tenure # 208501, 207933, 354065, 510770, 514566, 514694; Events # 5399910
- The total work values in the statement of expenditures listed below is $40,756

TABLE # 4

List of expenditures from Sept. 10, 2011 to October 30, 2012:

1. Crew & equipment mobilization $1,500

2. Personnel: September10, 2012 to October 30, 2012

Description		Rate		Total $
John H. Hajek, manager	Sept.10/October30	$450	10	4,500
D. Hajek, technician	Sept.10/October30	$300	10	3,500
R. Pierce , First Aid	Sept.10/October30	$350	10	3,500
G. Pierce, sampler	Sept.10/October30	$200	10	2,000
TOTAL: $13,500			50	
Food & lodging	Sept.10/Octobr30	$120	50	5,000
TOTAL: $5,000				

3. Rentals	Sept.10/Octobr30			
1 ton truck 4x4 rental	Two units/$100	$200	10	2,000
4x4 wheelers, 2 units	$60/unit/day	$120	10	1,200
2 chain saws	$25/day x2 units	$50	20	500
Phone, GPS & others	$600+$200+$200	$50	10	500
Backhoe, 5 days	30 hours	$100/h	30	3,000
TOTAL: $7,200				

4. Supplies	Sept.10/Octobr30			
Fuel, oil ,supplies				1,600
Field supplies				2,600
Fuel, oil & supplies	Backhoe			1,500
TOTAL: $10,850				

5. Field crew & equipment demobilization.......................$1,800
6. Assays ....$953.06 + $1,153.82.............$2,106.88 Sample preparation...$1,100
7. Assessment report $2,850
TOTAL EXPLORATION EXPENSES: $40,756.88

AUTHOR'S CERTIFICATE

I, John H. Hajek, resident at 1502-1320 Chesterfield Av. North Vancouver
V7M 0A6

Hereby certify that:

I graduated in 1963 from the University of Paris, FRANCE

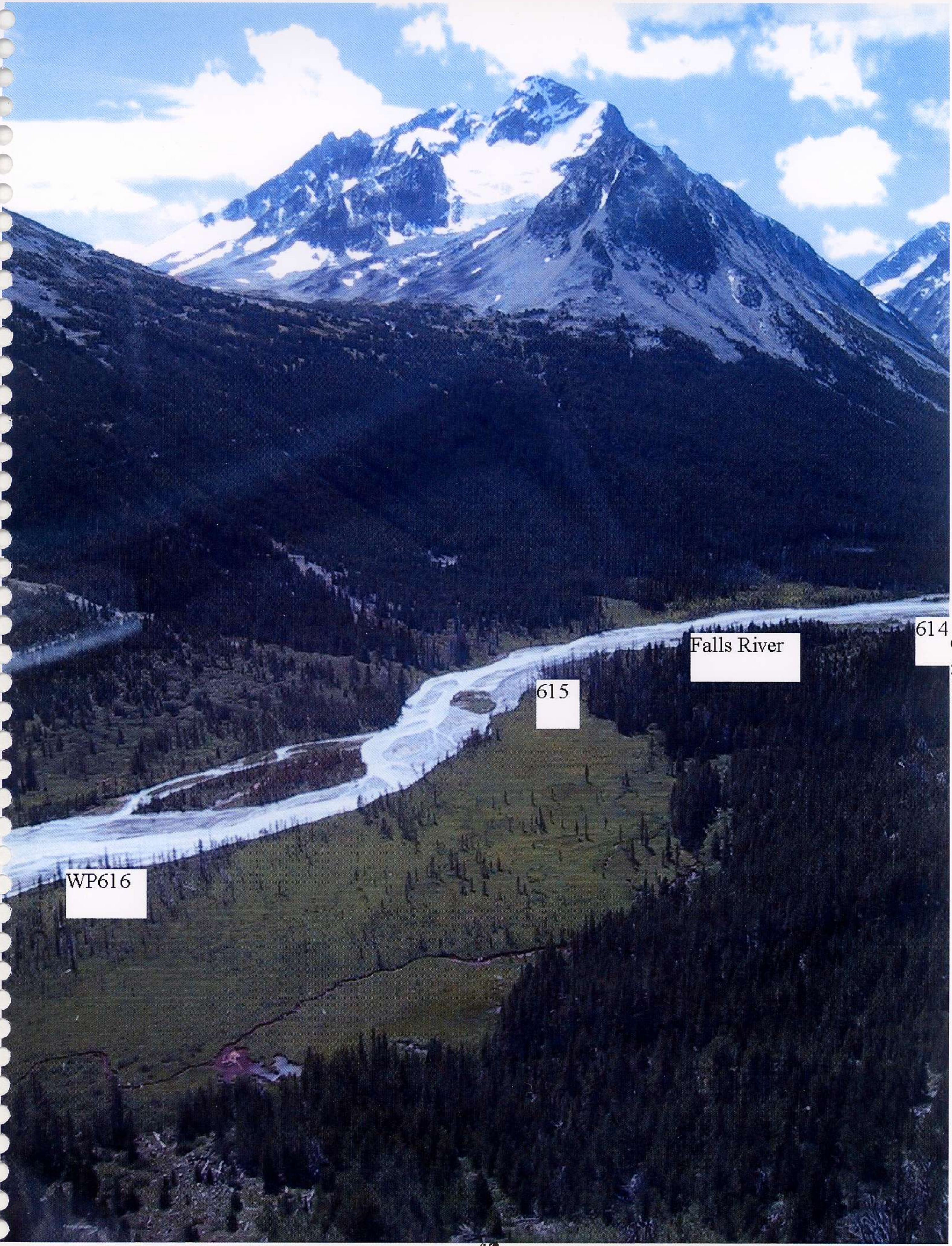
I have practiced my profession of geochemist for 40 years. During much of
That time I was employed by RIO TINTO, MOBIL OIL and others.
For the past 30 years, I have been self employed as a consulting geochemist.
I am responsible for this report, entitled Assess report on FALLS BASIN project,
2012 geochemical sampling, and dated March 15, 2013

I spend 10 days on the property from September 10 to October 30, 2012 and
20 days managing and supervising the work described in the report.
I have worked on the property since 1996 with JAGUAR International Inc. and for last
15 years I have been working with several professional geologists to the advancement
of the Pellaire property.

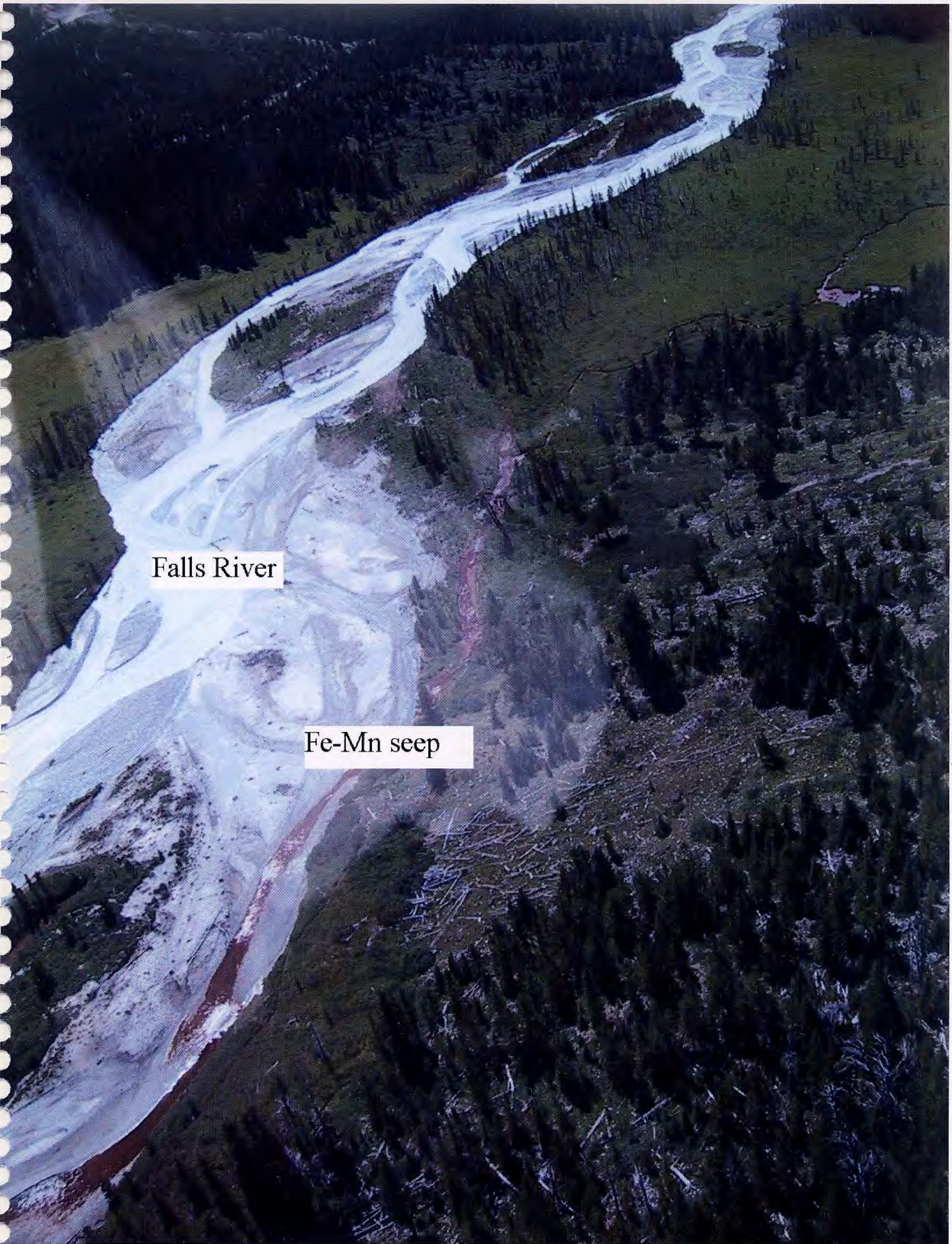
I am not independent, nor at arm's length from Valor Resources ltd.

Signed and dated March 15, 2013

John H. Hajek, Geochemist.



PFR-3



PFR-4

APPENDIX # A1: REFERENCES

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APPENDIX # A2:

PELLAIRE GEOCHEMICAL SAMPLING 2012

I. SAMPLE ANALYSIS

II. GEOCHEMICAL RESULTS OF INTEREST

III. GEOCHEMICAL ANOMALOUS RESULTS

ACME LABS, four folios with analytical anomalous values selected from 62 samples

I. SAMPLE ANALYSIS

i. Acme labs #VAN13000332.1
31 samples analyzed for 53 elements on 15g sample (-80 mesh) by ICP/ES & MS, 1 standard, 2 blank control & 2 repeat samples. February 18, 2013;
Falls River = 31 samples of (-80 mesh)

ii. Acme labs #VAN13000333.1
34 samples analyzed for 53 elements on 15g sample (-200 mesh) by ICP/ES & MS, 1 standard, 1 blank control & 2 repeat samples. February 15, 2012;
Falls River = 31 samples of (+80-40) crushed to (-200 mesh)

II. GEOCHEMICAL ANALYTICAL RESULTS
(Values are in part per million unless specified)

Acme labs #VAN13000332.1 & VAN 13000333.1
31 samples analyzed for 53 elements on 15g sample (-80 mesh) by ICP/ES & MS, & 31 samples of (+80, -40 mesh; crushed to -200 mesh)
Each sample analysis has been reviewed outlining values above background for the medium sampled. Listed values represent trace elements with above background results. Silver and gold values are listed in part per billion (ppb.).

1. Stream sediments: 31 samples along Falls River, fig 08:

WP-617-M80; Th, Ti, K, Tl, Cs, Rb, Ce, Li
Cu=39, U=3.6-Au=12-Th=14, La=19, Mg, Ba, Ti=0.19%, K=0.27%, Sc-Tl=0.23, Cs=5.4-Rb=31, Sn-Ce=47, Li=31.

WP 617-M40; Th, K, Tl, Cs, Rb, Ce
U=2-Au=2-Th=7.8, V=100, La=20, Ti, K=0.24%, Tl=0.15, Cs=3.1-Rb=24, Sn-Ce=41, Li=20, Pt.

WP-618-M80; Background values

WP 618-M40; Ag, Nb
Ag=64, Th=6.5, Cs=2.5, Nb=0.79, Rb=20,

WP-619-M80; Nb
Ti=0.16%, Sc, Nb=1.0, Rb=25, Sn-Ce=22, Li=20

WP 619-M40; Nb
Ag=52, U=1.9-Au=9-Th=3.8, Nb=0.85, Rb=23, Ce=22.

WP-621-M80; Na=0.055%

WP 621-M40; Ca=0.5%,

WP-622-M80; As, U-Au, V, Cr, K, Hf, Ce
Cu=37, Ag=92, As=23, U=8.1-Au=12-Th=6, V=98, Cr=30, Ba, Ti=0.16%, K=0.22%, Sc=6.8, Tl=0.15, Se=0.8, Sn=0.9, Ce=30

WP 622-M40; U-Th, V, Cr, Ce
Cu=30, Ag=75, Fe=4.3%, As=16, U=5.1-Au=8-Th=5, V=163, Cr=38, Ba, Ti=0.16%, K=0.2%, Sc=4.5, Tl=0.13, Se=0.5, Hf=0.23, Sn=0.7, Ce=41, Pt.

WP-623-M80; Th, Ce
Cu=34, Ag=88, As=17, U=2.8-Au=8-Th=7, V, Cr=27, Ba, Ti=0.14%, K=0.19%, Sc=6.4, Tl=0.12, Se=0.5, Sn, Ce=28

WP 623-M40; Ce

Ag=75, As=14, U=1.7-Au=12-Th=3.6, V, Cr=22, Ba, Ti=0.13%, K=0.2%, Sc, Tl=0.12, Se=0.4, Sn, Zr=1.5, Ce=26

WP-624-M80; Ag, Au, V, Ce

Cu=38, Pb-Ag=201, As=18, U=6.4-Au=126-Th=11, V=109, Cr=30, Ba, Ti=0.15%, K=0.19%, Sc=6.5, Tl=0.13, Se=0.5, Sn, Ce=33

WP 624-M40; V, Cr, Ce

Cu=33, Pb-Ag=86, Fe=4.5%, As=12, U=3.9-Au=12-Th=6.1, V=178, Cr=40, Ba, Ti=0.15%, K=0.2%, Sc=5, Tl=0.1, Sn, Y=10, Ce=39, Pd.

WP-625-M80; Ce

Cu=35, Pb-Ag=80, As=10, U=3-Au=10-Th=8, V=81, Ti=0.13%, K=0.17%, Sn, Y-Ce=33

WP 625-M40; K

Cu=25, Pb-Ag=63, U=1.4-Au=16-Th=3, V, Ti=0.12%, K=0.2%, Tl=0.12, Sn, Ce=18

WP-626-M80; Cu, K, Ce

Cu=52, Pb=14-Ag=81, As=13, U=4.6-Au=36-Th=9, V=90, Ti=0.18%, K=0.25%, Sc=7.3, Tl=0.16, Rb=21, Sn=0.6, Zr=1.3, Y=15-Ce=34, Li=23

WP 626-M40; V, K, Ce

Cu=34, Pb=10-Ag=40, As=6, U=2.5-Au=12-Th=4.8, V=104, Ti=0.15%, K=0.26%, Sc=4.3, Tl=0.13, Cs=2.2, Rb=20, Sn=0.5, Zr=1.2, Ce=28, Li=17

WP-627-M80; Ag, Fe, Th, V, Cr, Ce

Pb=14-Ag=93, Fe=5.5%, As, U=5.7-Au=10-Th=18, V=104, P, La=21, Cr=62, Y- Ce=51

WP 627-M40; Ag, Fe, Th, V, Cr, Ce

Pb=15-Ag=98, Fe=6.7%, U=2.7-Au=27-Th=8.2, V=322, La=24, Cr=72, Y- Ce=48, Pd.

WP-628-M80; Ag, As

Ag=91, Mn=498, As=27, Sb, Ba, Cr=25, Sc=7, Zr=1.3, Ce=21

WP 628-M40; Ag, As, K

Cu=30, Ag=107, Mn=449, As=24, Au=11, Sb, V=72, Ba=77, Cr=21, K=0.2%, Sc=5.6, Zr=1.9, Ce=25, Li=15

WP-630-M80; Ag, Mn, As, Cr

Cu=33, Ag=109, Mn=673, As=24, Cr=28, Sc=7.6, Y=13, Ce=27

WP 630-M40; Ag, Mn, As, Cr

Cu=31, Ag=70, Mn=617, As=22, Au=29, Ba=77, Cr=22, Sc=6.3, Cs=2, Y=11, Ce=27

WP-631-M80; Ag, Mn

Cu=31, Ag=141, Mn=662, As=18, Cr=24, Nb=0.72, Y=10, Ce=23

WP 631-M40; Ag, Mn

Cu=27, Ag=77, Mn=549, As=16, Ba=65, Cr=22, Nb=0.72, Ce=26

WP-632-M80; Cu, K

Cu=50, V=95, K=0.2%, Sc=7, Zr=1.3, Y=10, Y=10, Ce=21

WP 632-M40; Na

Cu=34, Na=0.10%

WP-633-M80; U-Th

U=4.2-Th=12, V=99, Cr=30, W

WP 633-M40; U-Th, Na

U=2.6-Th=4.7, V=50, Na=0.09%

WP-634-M80; Cu

Cu=49, V=77, Cr=23

WP 634-M40; V, Na

Cu=31, V=135, Cr=34, Na=0.09%, Ce=2

WP-635-M80; Ag, Mn, As, Cr, Mg, Al

Cu=43, Zn=130-Ag=142, Mn=900, Fe=4.5%, As=89, Au=23, Sb, V=79, P=0.13%, Ba=96, Cr=31, Mg=1.26%, Al=3.5% Sc=6.1, Ga B=0.7, Li=27

WP 635-M40; Ag, Mn, As, Cr, Mg, Al

Cu=35, Zn=105-Ag=60, Mn=871, Fe=4.2%, As=61, Au=23, Sb, V=78, Ba=86, Cr=27, Mg=1.25%, Al=3% Sc=6.9, Ga, Ce=19, Li=25

WP-636-M80; Pb, Ag, Mn, As, Al

Cu=48, Pb=30, Zn=118, Ag=111, Mn=1053, Fe=3.7%, As=91, Au=16, Cd-Sb, V=63, Ba=94, Cr=23, Mg=0.87%, Al=2.5% Sc=7.4, Cs=3.3, Ce=33, Be=0.8, Li=23

WP 636-M40; Ag, Mn, As, K

Cu=36, Pb=19, Zn=90, Ag=101, Mn=807, Fe=3.3%, As=57, V=59, Ba=78, Cr=20, Mg=0.75%, Al=2%, K=0.22%, Sc=6.3, Cs=2.3, Nb=0.61, Y=11, Ce=32, Be=0.6, Li=19, Pd=23ppb.

WP-637-M80; Ag, As, Al

Cu=35, Zn=89, Ag=118, Mn=572, Fe=3.2%, As=81, Au=6, V=65, Ba=81, Cr=22, Mg=0.76%, Al=1.9%, Sn, Cs=2, Ce=20, Be=0.6

WP 637-M40; As

Ag=65, As=37, Ce=20, Li=15

WP-638-M80; Ag, As, Al

Cu=39, Zn=98, Ag=358, Mn=747, Fe=3.4%, As=87, Au=9, V=64, Ba=87, Cr=21, Mg=0.77%, Al=2%, Sc=6.6, Tl=0.12, Cs=2.3, Nb=0.71, Ce=22, Li=20

WP 638-M40; Ag, As

Ag=173, Mn=543, Fe=2.8%, As=44, Au=4, V=53, Ba=65, Cr=16, Mg=0.61%, Al=1.5%, Nb=0.74, Ce=21, Li=26

WP-639-M80; Ag, As

Zn=102, Ag=115, Mn=747, Fe=3.2%, As=61, Au=16, V=65, Ba=95, Cr=21, Mg=0.61%, Al=2%, Nb=0.52, Ce=19

WP 639-M40; Ag, As

Zn=77, Ag=83, Mn=656, Fe=3.2%, As=42, Au=11, Ba=80, Cr=16, Mg=0.55%, Al=1.8%, Nb=0.65, Ce=20

WP-640-M80; Ag, As

Mo, Ag=115, As=38, Au=3, V=64, Al=1.8%, Nb=0.91

WP 640-M40; Ag, As, Al

Ag=69, As=20, Au=2, Nb=0.85, Pd.

WP-641-M80; Ag, As, Al

Mo=7.8, Cu=33, Zn=79, Ag=335, As=38, U=5.4-Au=7-Th=6, V=78, La=15, Cr=22, Al=2.8%, Tl=0.17, Ga, Cs=2.7, Nb=0.88, Zr=1.2, Ce=20, Li=21

WP 641-M40; Ag, As

Mo=4.5, Ag=180, As=22, Au=2, V=57, Al=1.3%, Tl=0.12, Nb=0.86, Zr=1.3, Y, Ce=20

WP-642-M80; Ag, As

Mo=5, Ag=137, As=69, Au=6, Al=1.9%, Tl=0.13, Nb=0.72, Zr=1.1, Ce=18, Li=22

WP 642-M40; Ag, As

Mo=4, Ag=99, As=58, Au=4, Al=1.8%, Tl=0.15, Nb=0.76, Zr=1.7, Y, Ce=23, Li=20, Pd.

WP-643-M80; U=3.2-Au=2-Th=5, Nb=0.46, Zr=1.1

WP 643-M40; Nb=0.63

WP-644-M80; Ag, As

Ag=131, Mn=661, As=44, Au=4, Tl=0.1, Nb=0.65

WP 644-M40; Ag, As

Ag=102, Mn=520, As=26, Nb=0.76

WP-645-M80; Ag, As

Cu=38, Ag=129, Mn=563, As=71, Au=19, Cr=22, Tl=0.12, Ce=23

WP 645-M40; As

Ag=74, Mn=433, As=40, Au=4, Tl=0.12, Ce=21

WP-646-M80; Ag, As

Cu=39, Ag=138, Mn=508, As=46, Au=11, Ce=20

WP 646-M40; Ag, As

Cu=38, Pb=16, Ag=161, Mn=674, As=54, Au=6, Sc=6.1, Y=12, Ce=27, Li=19

WP-647-M80; Ag, As, Mg-Al

Cu=47, Pb=17, Ag=116, Mn=806, As=59, Au=5, Sr=74, Sb, Cr=25, Mg=1%, Ba=96, Al=2.79%, Na=0.05%, Li=20

WP 647-M40; As, Mg-Al

Cu=36, Pb=12, Ag=83, Mn=726, As=42, Au=2, Sr=58, Ca=0.96%, Cr=25, Mg=1%, Ba=80, Al=2.4%, Sc=6, Li=20

WP-648-M80; Ag, As, Mg-Al, Cr, Ba

Cu=49, Pb=24, Zn=112, Ag=144, Mn=815, Fe=4.3%, As=96, Au=6, Sr=85, Sb, Cr=36, Mg=1.44%, Ba=132, Al=3.27%, Li=25

WP 648-M40; As, Cr, Mg-Al, Ba

Cu=39, Pb=18, Zn=102, Ag=72, Mn=778, As=77, Au=5, Sr=66, Sn, Ca=0.85%, Cr=34, Mg=1.49%, Ba=113, Al=2.9%, Sc=6.3, Li=26, Pd.

WP-649-M80; Ag, Mn, As, Mg-Al, Cr, Ba

Cu=60, Pb=20, Zn=99, Ag=133, Mn=750, Fe=4.3%, As=104, Au=5, Sr=89, Sb, Cr=38, Mg=1.51%, Ba=144, Al=3.3%, Sc=6.8, Be=0.8, Li=26

WP 649-M40; Ag, As, Cr, Mg-Al, Ba

Cu=49, Pb=19, Zn=98, Ag=237, Mn=765, As=88, Au=448, Sr=65, Sn, Ca=0.86%, Cr=37, Mg=1.59%, Ba=113, Al=3.1%, Sc=6.7, Hg, Ga, Ce=20, Li=25

2. Interpretation of Falls River samples:

Falls River stream sediments contain trace metals enrichment higher in the (-80) fraction due to the ionic form enrichment after been transported and precipitated.
A large rusty black-brown (Mn-Fe) seepage area on the west bank of Falls River could be the source for some of the enrichment (shale formation).
Detrital movement is indicated by high thorium above the uranium ratio 1:1 which could come from shales weathering under talus covered slopes as indicated by vanadium enrichment in some samples.

3) Falls Basin Statistics, Table 9A:

Table 9A: Upper FALLS River East slopes: Values summary				
D1/7A	**Copper**	**Silver ppb**	**Iron %**	
Falls (-80)	12-95	28-335	1.3-5.5	
Mean 80	**35**	**111**	**3.1**	
Falls (40)	19-49	5-180	1.6-6.7	
Mean 40	**28**	**80**	**3.0**	
Appendix #6	50-70	80-150	3-4%	
D2/7B	**Arsenic**	**Uranium**	**Gold ppb**	**Thorium**
Falls (-80)	1-104	0.8-8	1-126	1-18
Mean 80	**38**	**2.3**	**12**	**5.3**
Falls (40)	4-88	0.3-5	0.9-448	1-8.2
Mean 40	**26**	**1.5**	**20**	**3.3**
Appendix #6	10-15	1-3	5-20	3-5
D3/7C	**Vanadium**	**Potassium%**	**Cerium**	**Lithium**
Falls (-80)	40-241	0.06-0.27	9-51	7-31
Mean 80	**77**	**0.14**	**22**	**18**
Falls (40)	45-322	0.07-0.26	9-48	7-26
Mean 40	**81**	**0.15**	**23**	**16**
Appendix #6	60-200	0.15%	20	15-20

The Upper Falls River analytical values are represented by samples taken on the east of the main river partly on talus slope; see maps: D1/7A, D2/7B/ D3/7C.
Elemental results outlined in each drawing above, are compared to the calculated arithmetic mean of 31 samples for the metals described.

From Table 9A results, we could outline the following conclusions:

- In the -80 mesh/40 mesh; copper mean is 35/28, silver = 111/80, arsenic = 38/26, Thorium =5.3/3.3 all showing enrichment in the -80 fraction.
- Only gold is higher in the coarser 40 fraction possibly due to the ions of gold precipitating or electroplating the coarser grains.

III. GEOCHEMICAL ANOMALOUS RESULTS

Zn, Cu, Ag, Mn and other elements without specific value are important as indicator to the anomalous element listed. Values are in part per million unless specified.
The results are outlining values of interest which are above background. It also outlines elemental values which are higher than normal but not necessarily within the strict definition of anomalous. The two sets of analysis are used to distinguish between ionic enrichment and in-situ content of solid particles.
Acme labs #VAN13000332.1 & VAN 13000333.1
31 samples analyzed for 53 elements on 15g sample (-80 mesh) by ICP/ES & MS, & 31 samples of (+80 analysed as is, -40 mesh crushed to -200 mesh)
Samples along Falls River with values of interest above background, gold & silver values are listed in ppb, are listed below.

WP-617-M80; Th, K, Tl, Cs, Rb, Ce, Li
U=3.6-Au=12-Th=14, K=0.27%, Tl=0.23, Cs=5.4-Rb=31, Ce=47, Li=31.

WP 617-M40; Th, K, Tl, Cs, Rb, Ce
U=2-Au=2-Th=7.8, K=0.24%, Tl=0.15, Cs=3.1-Rb=24, Ce=41

WP-622-M80; As, U-Au, V, Cr, K, Sc, Ce
As=23, U=8.1-Au=12-Th=6, V=98, Cr=30, Ti=0.16%, K=0.22%, Sc=6.8, Tl=0.15, Ce=30

WP 622-M40; U-Th, V, Cr, Ce
Fe=4.3%, U=5.1-Au=8-Th=5, V=163, Cr=38, Ti=0.16%, K=0.2%, Sc=4.5, Tl=0.13, Hf=0.23, Ce=41

WP-624-M80; Ag, Au, V, Ce
Ag=201, As=18, U=6.4-Au=126-Th=11, V=109, Cr=30, Ti=0.15%, K=0.19%, Sc=6.5, Tl=0.13, Ce=33

WP 624-M40; V, Cr, Ce
Fe=4.5%, U=3.9-Au=12-Th=6.1, V=178, Cr=40, Ti=0.15%, K=0.2%, Sc=5, Tl=0.1, Ce=39

WP-626-M80; Cu, K, Ce
Cu=52, U=4.6-Au=36-Th=9, V=90, Ti=0.18%, K=0.25%, Sc=7.3, Tl=0.16, Rb=21, Zr=1.3, Y=15-Ce=34

WP 626-M40; V, K, Ce
U=2.5-Au=12-Th=4.8, V=104, Ti=0.15%, K=0.26%, Sc=4.3, Tl=0.13, Cs=2.2, Rb=20, Zr=1.2, Ce=28

WP-627-M80; Fe, Th, V, Cr, Ce
Fe=5.5%, U=5.7-Au=10-Th=18, V=104, Cr=62, Ce=51

WP 627-M40; Ag, Fe, Th, V, Cr, Ce
Ag=98, Fe=6.7%, U=2.7-Au=27-Th=8.2, V=322, Cr=72, Ce=48

WP-635-M80; Mn, As, Cr, Mg, Al

Zn=130-Ag=142, Mn=900, Fe=4.5%, As=89, Au=23, Cr=31, Mg=1.26%, Al=3.5%, Sc=6, Li=27

WP 635-M40; Mn, As, Cr, Mg, Al

Mn=871, Fe=4.2%, As=61, Au=23, Cr=27, Mg=1.25%, Al=3% Sc=6.9, Li=25

WP-636-M80; Pb, Ag, Mn, As, Al

Pb=30, Zn=118, Ag=111, Mn=1053, Fe=3.7%, As=91, Au=16, Cr=23, Mg=0.87%, Al=2.5% Sc=7.4, Cs=3.3, Ce=33, Li=23

WP 636-M40; Ag, Mn, As, K

Ag=101, Mn=807, Fe=3.3%, As=57, Mg=0.75%, Al=2%, K=0.22%, Sc=6.3, Cs=2.3, Nb=0.61, Ce=32

WP-638-M80; Ag, As, Al

Ag=358, Mn=747, Fe=3.4%, As=87, Mg=0.77%, Al=2%, Sc=6.6, Tl=0.12, Cs=2.3, Nb=0.71, Ce=22, Li=20

WP 638-M40; Ag, As

Ag=173, Mn=543, Fe=2.8%, As=44, Mg=0.61%, Al=1.5%, Nb=0.74, Ce=21, Li=26

WP-639-M80; Ag, As

Zn=102, Ag=115, Mn=747, Fe=3.2%, As=61, Au=16, Mg=0.6%, Al=2%, Nb=0.52

WP 639-M40; Ag, As

Mn=656, Fe=3.2%, As=42, Mg=0.55%, Al=1.8%, Nb=0.65

WP-640-M80; Ag, As

Ag=115, As=38, Nb=0.91

WP 640-M40; Ag, As, Al

Ag=69, As=20, Nb=0.85

WP-641-M80; Ag, As, Al

Ag=335, As=38, U=5.4-Au=7-Th=6, Al=2.8%, Tl=0.17, Cs=2.7, Nb=0.88, Zr=1.2

WP 641-M40; Ag, As

Ag=180, As=22, Tl=0.12, Nb=0.86

WP-642-M80; Ag, As

Ag=137, As=69, Tl=0.13, Nb=0.72

WP 642-M40; Ag, As

Ag=99, As=58, Tl=0.15, Nb=0.76, Zr=1.7

WP-645-M80; Ag, As

Ag=129, Mn=563, As=71, Au=19, Tl=0.12

WP 645-M40; As

As=40, Tl=0.12

WP-646-M80; Ag, As

Ag=138, Mn=508, As=46

WP 646-M40; Ag, As

Ag=161, Mn=674, As=54, Sc=6.1, Y=12, Ce=27

WP-647-M80; Ag, As, Mg-Al

Ag=116, Mn=806, As=59, Cr=25, Mg=1%, Al=2.79%

WP 647-M40; As, Mg-Al

Mn=726, As=42, Ca=0.96%, Cr=25, Mg=1%, Al=2.4%, Sc=6

WP-648-M80; Ag, As, Mg-Al, Cr, Ba

Zn=112, Ag=144, Mn=815, Fe=4.3%, As=96, Cr=36, Mg=1.44%, Ba=132, Al=3.27%, Li=25

WP 648-M40; As, Cr, Mg-Al, Ba

Mn=778, As=77, Ca=0.85%, Cr=34, Mg=1.49%, Ba=113, Al=2.9%, Sc=6.3, Li=26

WP-649-M80; Ag, Mn, As, Mg-Al, Cr, Ba

Cu=60, Pb=20, Ag=133, Mn=750, Fe=4.3%, As=104, Au=5, Sr=89, Cr=38, Mg=1.51%, Ba=144, Al=3.3%, Sc=6.8, Li=26

WP 649-M40; Ag, As, Cr, Mg-Al, Ba

Ag=237, Mn=765, As=88, Au=448, Sr=65, Ca=0.86%, Cr=37, Mg=1.59%, Ba=113, Al=3.1%, Sc=6.7, Li=25

2. ANOMALOUS VALUES

Relation between the two size fractions analysed i.e. (-80 & -200 mesh) is outlined below to emphasis the ionic enrichment versus the residual metal content in coarse particulates. Gold & silver values listed in ppb.

WP-617-M80; Au=12-Th=14, K=0.27%, Tl=0.23, Cs=5.4-Rb=31, Ce=47.
WP 617-M40; Au=2-Th=7.8, K=0.24%, Tl=0.15, Cs=3.1-Rb=24, Ce=41

Association: Au=12/2, Th=14/7, K=0.27/0.24%, Tl=0.23/0.23, Cs=5.4/3.1, Rb=31/24, Ce=47/41.

Conclusion: Au-Th, Cs-Rb elements are of interest for WP-617 location

WP-622-M80; U=8-Au=12-Th=6, V=98, Sc=6.8, Tl=0.15, Ce=30
WP 622-M40; U=5-Au=8-Th=5, V=163, Sc=4.5, Tl=0.13, Ce=41

Association: U=8/5, Au=12/8, Th=6/5, V=98/163, Sc=6.8/4.5, Tl=0.15/0.13, Ce=30/41.

Conclusion: U-Au-Th & Sc elements are of interest for WP-622 location

WP-624-M80; U=6-Au=126-Th=11, V=109, Cr=30, Ti=0.15%, Sc=6.5, Ce=33
WP 624-M40; U=3.9-Au=12-Th=6, V=178, Cr=40, Ti=0.15%, Sc=5, Ce=39
Association: U=6/3.9-Au=126/12-Th=11/6, V=109/178, Sc=6.5/5, Ce=33/39
Conclusion: U-Au-Th, V-Sc-Ce elements are of interest for WP-624 location

WP-626-M80; U=4.6-Au=36-Th=9, Ti=0.18%, Sc=7.3, Tl=0.16, Ce=34
WP 626-M40; U=2.5-Au=12-Th=4.8, Ti=0.15%, Sc=4.3, Tl=0.13, Ce=28
Association: U=4.6/2.5-Au=36/12-Th=9/4.8, Sc=7.3/4.3, Tl=0.16/0.13, Ce=34/28
Conclusion: U-Au-Th, Sc-Ce elements are of interest for WP-626 location

WP-627-M80; Fe=5.5%, U=5.7-Au=10-Th=18, V=104, Cr=62, Ce=51
WP 627-M40; Fe=6.7%, U=2.7-Au=27-Th=8, V=322, Cr=72, Ce=48
Association: Fe=5.5/6.7%, U=5.7/2.7-Th=18/8, V=104/322, Cr=62/72, Ce=51/48
Conclusion: U-Au-Th, V-Cr elements are of interest for WP-627 location

WP-635-M80; Mn=900, Fe=4.5%, As=89, Au=23, Mg=1.26%, Al=3.5%, Sc=6
WP 635-M40; Mn=871, Fe=4.2%, As=61, Au=23, Mg=1.25%, Al=3% Sc=6.9
Association: Mn=900/871, Fe=4.5/4.2%, Au=23/23, Dc=6/6.9
Conclusion: As &Au, elements are of interest for WP-635 location

WP-636-M80; Ag=111, Mn=1053, As=91, Au=16, Mg=0.87%, Sc=7.4, Cs=3.3, Ce=33,
WP 636-M40; Ag=101, Mn=807, As=57, Mg=0.75%, Sc=6.3, Cs=2.3, Ce=32
Association: Ag=111/101, Mn=1053/807, Mg=0.87/0.75%, Sc=7.4/6.3, Cs=3.3/2.3, Ce=33/32
Conclusion: Ag-Mn-Mg-Sc-Cs elements are of interest for WP-636 location

WP-638-M80; Ag=358, Mn=747, Fe=3.4%, As=87, Mg=0.77%, Sc=6.6, Nb=0.71,
WP 638-M40; Ag=173, Mn=543, Fe=2.8%, As=44, Mg=0.61%, Nb=0.74
Association: Ag=358/173, Mn=747/543, Fe=3.4/2.8%, Mg=0.77/0.61%, Nb=0.71/0.74
Conclusion: Ag-Mn-Fe-Mg elements are of interest for WP-638 location

WP-639-M80; Mn=747, Fe=3.2%, As=61, Au=16, Mg=0.6%, Nb=0.52
WP 639-M40; Mn=656, Fe=3.2%, As=42, Mg=0.55%, Nb=0.65
Association: Mn=747/656, As=61/42, Nb=0.52/0.65
Conclusion: Mn-As elements are of interest for WP-639 location

WP-640-M80; Ag=115, As=38, Nb=0.91
WP 640-M40; Ag=69, As=20, Nb=0.85
Association: Ag=115/69, As=38/20, Nb=0.91/0.85
Conclusion: Ag-As elements are of interest for WP-640 location

WP-641-M80; Ag=335, As=38, U=5.4-Au=7-Th=6, Tl=0.17, Nb=0.88, Zr=1.2
WP 641-M40; Ag=180, As=22, Tl=0.12, Nb=0.86
Association: Ag=335/180, As=38/22, Tl=0.17/0.12, Nb=0.88/0.86
Conclusion: Ag-As-Tl elements are of interest for WP-641 location

WP-642-M80; Ag=137, As=69, Tl=0.13, Nb=0.72
WP 642-M40; Ag=99, As=58, Tl=0.15, Nb=0.76
Association: Ag=137/99, As=69/58
Conclusion: As element is of interest for WP-642 location

WP-645-M80; As=71, Au=19, Tl=0.12
WP 645-M40; As=40, Tl=0.12
Association: As=71/40
Conclusion: As elements is of interest for WP-645 location

WP-646-M80; Ag=138, Mn=508, As=46
WP 646-M40; Ag=161, Mn=674, As=54
Association: Ag=138/161, Mn=508/674, As=46/54
Conclusion: Mn-As elements are of interest for WP-646 location

WP-647-M80; Mn=806, As=59, Al=2.79%
WP 647-M40; Mn=726, As=42, Al=2.4%
Association: Mn=806/726, As=59/42
Conclusion: Mn-As elements are of interest for WP-647 location

WP-648-M80; Mn=815, As=96, Mg=1.44%, Ba=132, Al=3.27%
WP 648-M40; Mn=778, As=77, Mg=1.49%, Ba=113, Al=2.9%
Association: Mn=815/778, As=96/77, Mg=1.4/1.4%, Ba=132/113 Al=3.2/2.9%
Conclusion: As-Ba-Al elements are of interest for WP-648 location

WP-649-M80; Ag=133, Mn=750, As=104, Au=5, Sr=89, Cr=38, Mg=1.51%, Ba=144, Al=3.3%, Sc=6.8

WP 649-M40; Ag=237, Mn=765, As=88, Au=448, Sr=65, Cr=37, Mg=1.59%, Ba=113, Al=3.1%, Sc=6.7

Association: Ag=133/237, As=104/88, Sr=89/65, Ba=144/113,

Conclusion: Ag-As-Sr-Ba elements are of interest for WP-649 location

CONCLUSION: Falls River sediments from Pellaire Bridge up- stream are characterised by high As-Fe-U/Th-V content.

Other trace elements are found in the river, side streams and banks in above threshold amounts.

Increased of most anomalous values are in the (-80) fraction compared to the coarse 40 mesh fraction especially for arsenic, uranium, Thorium, copper, silver, vanadium and others elements such as cerium….

Gold is widely enriched in all fractions illustrating its ionic movement and then the final precipitation on the coarse mesh fraction.

The proximity of several splice of the Twin Creek fault cutting through Triassic to more recent sediment may provide a source for the ionic metal enrichment in our samples.

It also is illustrated by the movement of some less mobile elements such as vanadium, niobium, barium, cerium…

APPENDIX # A3: ROCK DESCRIPTION

Falls River West Slope Sample Description

The samples represent the composition of the coarse fraction of the bank sample (-40+80 mesh) and they have been pulverised to 85% passing 200 mesh for analysis.

612F; 1Kg bank-slide sample, 20% black organic including leaves, 40% small grey rocks (1mm), layer of light brown clay-coarse silt, edge of land slide-talus, soil like in bog drainage.

613F; Bank-slide sample from 100 meters above the Falls River & 50 meters down stream from 612F sample, possibly also an ancient creek drainage, 50% white-grey-black rocks, 20% organic including 10% moss, 15m N of WP612.

614F; ; 1Kg river sample, 60% white-black diorite with iron rusty schist , 20% black & grey rocks, 20% others; seepage zone within bog.

615F; 1Kg river sample next to west bank underground drainage, 350 meters upstream (south-west) from camp bridge, 50% white quartz diorite with rusty schist , 50% black & grey rocks; 350m above ridge, overflow channel.

WP617; Quartz diorite float, site made of 80% rocks, 900m south of wp608

WP618; Quartzite with mica schist cut by 2 cm quartz veins, 200m south of 619

WP619; Siltstone, greisen weathered pink-red, some black crystals

WP620; Black schist, greisen-gneiss cut by 2cm quartz veins, 2-4cm mica

WP625; Black schist, white quartz diorite, box work, mica schist on fracture plane, Granodiorite, 140 meters up slope from river

WP626; Biotite granite

WP627; Large drainage: a) Shale with pink quartzite, gneiss with mica on fractures

b) Conglomerate, pale grey gneiss c) gneiss with quartz vein on contact with conglomerate

WP628; White granodiorite/ shale-schist, sandstone, biotite granite (1% biotite) 80 meters from wp625

WP629; White siltstone, minor disseminated fine grained pyrite

WP631; Quartz diorite, slate-meta sediments, minor pyrite, old slide

WP634; Quartz diorite, biotite granodiorite, 10 meters from river

WP649; Black schist, quartzite, diorite, 30 meters from wp613

APPENDIX # A4

1. SAMPLING METHOD & APPROACH

- **<u>Description geochemical sampling:</u>**

The 2012 geochemical sampling is comprised of rocks and stream fines.
62 samples were collected and send to Acme Labs.
The sampling was carried out by a 2 men team using a pick and trowel for the retrieve of a fine sediment.
The silt/bog/gravel sample from the Falls River basin, were passed through a -1/4" plastic sieve, then put into a standard paper sample bag for drying.
Each location is flagged and marked with a station number, sample number and each sample hole has a coloured tape with the sample number.

- **<u>Sample quality</u>**

Soil/silt/rock results are representative of the terrain, the geology and glaciations.
Results between sample stations are uniform reflecting the amount of metal retention.

- **<u>Sampling intervals</u>**

The sampling intervals are set as required.

2. SAMPLE PREPARATION, ANALYSIS & SECURITY

- **Sample drying & shipping**

J.HAJEK, Geochemist, supervised shipping of all geochemical soil samples shipped to ACME LABS.

- **ACME Analytical laboratories**

This Vancouver laboratory is well established certified and is known to the author for its high standards and quality control.

- **Quality control**

For every batch of 40 samples, 2 duplicates, 2 standards and 2 blanks are analyzed.
Each batch of 20 samples contains one or more internal duplicate sample known only to VALOR RESOURCES staff.

- **Statement on sampling & analytical control**

Acme has used 53 elements ICP-MS procedure on 15 grams pulp. The -80 mesh samples were analysed as is. The 40 mesh samples were crushed to -200 mesh fines before being analysed. Bothe size fractions of the same sample provide a good analytical control on each element analysed.

3. **DUPLICATE SAMPLES EXTRACTION:**
   - Sampling method and approach
     The coarse screened material is composed of (+80-40) mesh to be crushed to (-200) mesh by Acme labs. The (-80) mesh fraction is to be analysed as is.
     The purpose of analyzing the standard crushed rocks to -200 mesh, described as fines versus the coarser fraction (+80 and -40 fractions) is to measure any noticeable differences in metals content due to leaching and to measure the rate of extraction of various metals.

   - **DUPLICATE SAMPLES EXTRACTION**
     (Values are reported as part per million or ppm unless specified)

REPORT: VAN11000332.1:
The results are consistent with fluctuations below 5% for most elements except for gold. WP640M80: Au vary from 3.2 to 30.8 ppb

REPORT: VAN12000333.1:
Consistent results with fluctuations below 5%
650-L40: Au vary from 377 to 1845ppb, Ag=569 to 740ppb
622-M40: Ag=75 to 99ppb

All others analytical results are of good accuracy and could be used for geochemical metal assemblages & conclusions.

APPENDIX A5

GEOCHEMICAL CRUSTAL STATISTICS

Values used to assess the analytical results in this report are listed in the following tables #7, #8, #9 & #10 and are partially based on references #2 and #4

Notes:

- Pairs of dispersed occurrences: Hafnium-zirconium, Gallium-aluminium & Potassium-rubidium, are used as indicator ratios,
- (Sc) has a compatible crystallization and is immobile during alteration.
- K & Rb= pair of dispersed occurrences such as Al & Ga are used as indicator ratios.

Table 7.

Geochemical statistics on crustal composition of the lithosphere and its shells expressed as elemental composition with n.10-4 in % = ppm. Values are in part per million unless expressed.

	-----ppb----		--Actinides--		--------- ore trace elements -------------					
AT	**Ag**	**Au**	**U ®**	**Th®**	**Co(s)**	**Ni(s)**	**As**	**Mo**	**Re**	**W®**
	47	**79**	**92**	**90**	**27**	**28**	**33**	**42**	**75**	**74**
Crust	70	2	1.5	8	24	56	1.7	1.1	.5 ppb	1
Granite	30- 50	0.8- 1.2	2.5- 3.0	12- 17	1-10 20	5-26	1.5-2	1-2	.6 ppb	1.7- 2.2
Interm.	70	2.8	2	9	10	50	2	1.1	1ppb	1.2
Basic	110	3.6	ppm	4	50	130	2	1.5	.7ppb	0.7
Ultrabasic	60	6	ppm	.04	150	2000	1	3	ppb	0.1
Schist/shale	70	3	3-4	12	20-30	68	10/20	2.6	1-3	1.8
Sediment	+10n	3	3-5	2-5	1-5	20-80	2-10	1-2	1-2	1.6
Carbonate	+10n		2.2	1.7	0.1	20	1	0.4	-1	0.6
Anomaly crustal	100	4	3	20	35 200	100	5 40	3 5	2 ppb 4	2
Threshold streams	150	5-25	1	3	15- 20	20- 30	10	1.0	2-5 ppb	2
Report	50	5	1	3	10	15	15	2	3	1
Anomalous	300	30	3	5	30	50	20	6	5 ppb	4

Notes: AT# represent the atomic number of the element.

- ® means part of the rare earth group
- (s) means part of the siderophile group
- ( ); indicates an element compatible during crystallisation and mostly immobile during alteration such as Ti, Cr, Sc, V.
- Thresh means threshold level, Anomaly is the level of significance. Anomaly represents values used to differentiate a level of importance. Interm. stands for intermediate rocks, Basic stands for basic rocks, Ultrabasic Is stands for ultrabasics rocks and Sediment means sedimentary rocks, Carbonat. Stands for carbonate series of rock formations,

Table 8.
Geochemical statistics on crustal composition of the lithosphere and its shells expressed as elemental composition with n.10 -4 in % = ppm. Values are in part per million unless expressed.

AT	Fe %	(V)	Ca%	P%	Sr	Mn	Al*%	(Ti*%)	Mg %	Sn
	26	23	20	15	38	25	13	22	12	50
Crust	5.7	100	4.3	0.15	330	900	10	0.6	2.4	2
Granite	1.8-3.6	44-88	1.1-2.5	0.8-0.11	110-440	400-700	7-8.6	0.17-0.3	0.3-1.3	2.5-3.0
Interm.	5.5	150	4.6	0.15	250	1000	7	0.4	2	1.6
Basic	8.4	250	7.3	0.15	470	1200	8.5	0.8	4.5	1.5
Ultrabasic	8.7	40	3.4	0.05	1	1000	2.4	0.35	2	0.5
Schist/shale	5-6	130	2-3	0.1	300	1100	8-10	0.5	1.5-2	6
Sediment	2.8	20	2.6	0.1	200	600	3	0.30	1-2	0.5
Carbonate	0.8	20	30/40	0.05	610	1400	1	0.1	5	0.3
Anomaly crustal	7% 9%	200 300	6	0.20	500 800	1200 1500	12 9	0.7 0.9	4 5	3 8
Threshold streams	3.0	120	1	.05	40	300	2.5	0.10	1.0	0.4
Report	3.0	60	0.6	0.10	50	400	2.0	0.10	1.0	0.5
Anomalous	4%	200	1%	0.10	60	500	4%	0.15	1.5%	0.6

Notes:* indicates Immobile elements, AT # represent the atomic number of the element.

- Interm. Stands for intermediate rocks, Basic stands for basic rocks, Ultrabasic Is for ultrabasics rocks and Sediment means sedimentary rocks, Carbonat. Stands for carbonate series of rock formations,
- ( ); indicates an element compatible during crystallisation and mostly immobile during alteration such as Ti, Cr, Sc, V, ref 2& 4.
- Anomaly represents values used to differentiate a level of importance.
- Pair of dispersed occurrences as Al & Ga is used as indicator ratios.

Table 9.

Geochemical statistics on crustal composition of the lithosphere and its shells expressed as elemental composition with n.10 -4 in % = ppm. Values are in part per million unless expressed.

	-------------Alkali suite-------------						--ore trace elements----			
AT	**Na %**	**K %**	**Rb**	**Cs**	**Li**	**Ga**	**Cu**	**Pb**	**Zn**	**Cd**
	11	**19**	**37**	**55**	**3**	**31**	**29**	**82**	**30**	**48**
Crust	2.3	1.8	78	2-3	18	15	25	9-15	65	0.10
Granite	2.2-2.8	2.5-3.5	160-210	2-5	30-38	20	10-26	15-19	40-60	0.13-0.16
Intermed.	2.6	1-2	72	1-2	25	17	30	14	75	0.18
Basic	1.9	0.7	50	1.1	15	17	87	6	105	0.22
Ultrabasic	0.18	0.05	5	2	2	1.5	10	1	50	0.01
Schist/shale	1-3	2.7	140	5	50-60	19	45	20	95	0.3
Sediment	1	1.3	60	0.1	15	12	1	7	16	0.03
Carbonate	0.3	0.28	3	0.15	5	4	4	9	20	0.04
Anomaly crustal	3.5	4	250	8	80	25	100	25	120	0.4
Threshold streams	0.01	0.10	7	1.5	15	6	30	10	50	0.3
Report	0.05	0.15	12	2.0	20	8	30	15	60	0.5
Anomalous	0.10	0.20	15	2.5	30	10	45	20	100	1.0

Notes: AT# represent the atomic number of the element.

- Thresh means threshold level, Anomaly is the level of significance.
- Interm. Stands for intermediate rocks, Basic stands for basic rocks,
- Ultrabasic Is for ultrabasics rocks and Sediment means sedimentary Carbonate stands for carbonate series of rock formations,
- ( ); indicates an element compatible during crystallisation and immobile during alteration such as Ti, Cr, Sc, V.
- Anomaly represents values used to differentiate a level of importance.

(V) Has a compatible crystallization and is immobile during alteration.

Table 10.

Geochemical statistics on crustal composition of the lithosphere and its shells expressed as elemental composition with n.10 -4 in % = ppm. Values are in part per million unless expressed.

	-------Lanthanides suite---------- Crustal abundance								
	Hf	**Nb***	**Zr***	**Y***	**La**	**Ce**	**B**	**Ba**	**(Sc)**
AT #	**72**	**41**	**40**	**39**	**57**	**58**	**5**	**56**	**21**
Crust	2-5	19	150	24	25-30	60	7-11	550	16
Granite	3-3.2	20	160-200	40-34	40-55	80-92	10-15	450-800	7-14
Intermed.	2-3.5	8	140	26	30	58	9-37	400	20
Basic	2.2	19	110	2.1	15	48	5	330	30
Ultrabasic	0.5	16	45	0.n	10	50	3	0.4	15
Schist/shale	2.8	11	160	26	24	50	10	580	13
Sediment	3.9	3	210	30	7-30	80	35	600	1-16
Carbonat.	0.3	0.3	20	30	6-20	12	20	100	1
Anomaly crustal	5	25	200	50	100	100	40	1200	40
Threshold streams	0.15	0.4	1.0	8	12	20	6	50	3
Report	0.15	0.7	1.5	10	10	20	2	70	5
Anomalous	0.20	1.0	1.5	12	20	40	10	100	7

Notes: AT# represent the atomic number of the element.

- Interm. Stands for intermediate rocks, Basic stands for basic rocks, Ultrabasic stands for ultrabasics rocks and Sediment means sedimentary rocks, Carbonate. Stands for carbonate series of rock formations,
- Threshold means threshold level, Anomaly is the level of significance.
- Anomaly represents values used to differentiate a level of importance.

- Nb* means the element Nb is mostly immobile.

Notes on Abbreviations

The high strength elements (HFSE) are generally incompatible as Zr, Y, and Nb; elements relatively immobile during hydrothermal alteration such as Ti, Al, Zr, Nb, Y and Hf are partially immobile, ref 2.

The Lanthanide suite is represented by Nb, Y, La and Ce.
The Actinides are represented by U & Th.
The Alkali suite is represented by Na, K, Rb, Cs and Li.
The light rare earth (REE) is represented by La, Ce, Nd, Sn, and Tb, ref 4.
Values are in part per million unless expressed.

Abbreviations:

- ® means part of the rare earth group
- (s) Means part of the siderophile group
- * indicates immobile elements
- AT# represent the atomic number of the element
- Thresh means threshold level, Anomaly is the level of significance, used represents values used for evaluating different sets of analysis
- Interm. Stands for intermediate rocks, Basic stands for basic rocks
- Ultrabasic Is for ultrabasics rocks
- Sediment means sedimentary rocks
- Carbonat. Stands for carbonate series of rock formations
- Anomaly represents values used to differentiate a level of importance
- ( ); indicates an element compatible during crystallisation and immobile during alteration: Ti, Cr, Sc, V.

Pairs of dispersed occurrences used as indicator ratios are Aluminum-gallium, Potassium-rubidium, Hafnium-zirconium (ref 4).
Ore trace elements are Co, Ni, As, Mo, Re, W and Cu, Pb, Zn, Cd, Ga.

APPENDIX # A6

ACME ANALYTICAL REPORTS

- **Acme Labs # VAN11006437.1 (14 samples)**
- **Acme Labs # VAN12003052.1 (28 samples)**

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Acme Analytical Laboratories (Vancouver) Ltd.

PHONE (604) 253-3158

www.acmelab.com

Client: **Zelon Enterprises Ltd.**
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6 CANADA

Submitted By: John Hajek
Receiving Lab: Canada-Vancouver
Received: January 24, 2013
Report Date: February 18, 2013

CERTIFICATE OF ANALYSIS VAN13000332.1

CLIENT JOB INFORMATION

Project: PELLAIVE-TWIN
Shipment ID:
P.O. Number
Number of Samples: 31

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SPLP	31	Sorting, labeling and boxing samples received as pulps			VAN
1F05	31	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days

ADDITIONAL COMMENTS

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

Invoice To: Zelon Enterprises Ltd.
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
Country Manager - Canada

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Client: **Zelon Enterprises Ltd.**
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North Vancouver BC V7W 0A6 CANADA

Project: PELLAIVE-TWIN
Report Date: February 18, 2013

CERTIFICATE OF ANALYSIS VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617-M80	Soil Pulp	0.78	38.73	6.00	50.7	45	13.3	9.9	400	3.01	4.9	3.6	12.2	13.5	34.9	0.05	0.22	0.08	85	0.51	0.104
618-M80	Soil Pulp	0.57	11.96	1.75	19.7	29	4.1	3.2	100	1.32	1.3	0.9	0.3	2.5	5.8	0.02	0.07	0.03	40	0.09	0.027
619-M80	Soil Pulp	1.55	27.17	4.08	50.9	30	8.8	7.5	326	2.66	6.9	2.5	0.7	5.3	18.3	0.08	0.15	0.07	70	0.35	0.075
621-M80	Soil Pulp	1.98	19.81	1.47	20.6	21	4.6	4.4	143	2.28	2.7	2.0	3.2	4.9	27.9	0.05	0.11	0.06	69	0.61	0.072
622-M80	Soil Pulp	1.75	36.83	11.28	60.8	92	17.5	9.0	474	3.16	22.7	8.1	11.9	6.0	23.6	0.26	0.31	0.09	98	0.53	0.102
623-M80	Soil Pulp	1.57	33.81	9.19	67.3	88	13.8	9.9	574	3.19	16.9	2.8	7.7	6.9	24.3	0.37	0.38	0.11	79	0.49	0.098
624-M80	Soil Pulp	1.50	37.95	13.28	61.5	201	14.0	9.5	435	3.41	18.2	6.4	126.4	11.0	23.0	0.25	0.32	0.11	109	0.55	0.111
625-M80	Soil Pulp	1.08	34.93	12.75	55.2	80	10.8	8.6	461	2.72	10.0	3.1	9.8	8.3	17.9	0.26	0.30	0.12	81	0.48	0.111
626-M80	Soil Pulp	1.16	52.41	14.00	63.2	81	13.4	11.1	415	3.20	12.7	4.6	35.6	9.4	23.5	0.31	0.37	0.11	90	0.58	0.110
627-M80	Soil Pulp	1.23	34.48	14.43	44.7	93	11.1	9.2	310	5.49	10.4	5.7	10.4	18.4	15.4	0.24	0.32	0.12	241	0.53	0.142
628-M80	Soil Pulp	1.04	32.76	6.98	69.9	91	14.6	10.3	498	3.06	27.2	0.8	4.3	3.0	19.7	0.16	0.52	0.14	58	0.35	0.103
630-M80	Soil Pulp	2.40	32.57	6.55	65.0	109	15.7	10.8	673	3.24	23.5	1.1	7.2	3.1	25.5	0.13	0.41	0.10	67	0.45	0.082
631-M80	Soil Pulp	1.11	30.64	6.28	61.6	141	13.7	9.6	662	2.90	18.4	0.8	6.3	2.0	20.9	0.19	0.29	0.09	59	0.36	0.089
632-M80	Soil Pulp	1.46	50.46	1.53	29.4	43	9.6	8.6	244	3.42	5.0	3.1	1.4	7.3	25.7	0.03	0.10	0.11	95	0.58	0.055
633-M80	Soil Pulp	0.65	25.09	1.41	21.5	22	5.8	5.6	158	3.15	2.3	4.2	0.8	11.8	23.4	0.02	0.10	0.08	99	0.58	0.090
634-M80	Soil Pulp	0.46	49.03	2.18	26.8	31	8.5	7.5	213	2.68	4.3	0.9	0.9	4.4	15.3	0.04	0.09	0.05	77	0.32	0.058
635-M80	Soil Pulp	2.33	43.11	16.78	130.3	142	25.2	20.6	900	4.49	89.4	0.4	22.5	0.6	68.3	0.26	1.09	0.11	79	0.74	0.126
636-M80	Soil Pulp	1.64	47.88	29.57	118.2	111	18.1	14.9	1053	3.73	91.0	0.9	15.7	3.1	34.1	0.46	0.84	0.12	63	0.40	0.070
637-M80	Soil Pulp	1.04	35.13	13.21	88.5	118	12.8	12.1	572	3.19	80.8	0.7	5.6	4.0	41.6	0.24	0.51	0.08	65	0.48	0.079
638-M80	Soil Pulp	1.52	38.63	15.34	98.0	358	13.6	13.3	747	3.37	86.5	0.8	8.5	2.7	48.8	0.30	0.69	0.11	64	0.53	0.082
639-M80	Soil Pulp	2.49	28.92	12.07	102.3	115	12.2	9.3	747	3.22	61.0	0.8	15.7	2.9	31.4	0.23	0.54	0.13	65	0.31	0.055
640-M80	Soil Pulp	4.44	21.13	7.76	77.1	115	10.8	8.3	299	2.73	37.5	1.2	3.2	2.8	21.2	0.15	0.29	0.09	64	0.26	0.031
641-M80	Soil Pulp	7.77	32.94	17.35	79.0	335	13.0	11.3	489	3.11	38.3	5.4	7.3	6.1	29.6	0.24	0.62	0.25	78	0.42	0.042
642-M80	Soil Pulp	5.02	22.99	9.33	54.0	137	10.5	7.9	251	2.53	68.5	1.8	6.1	4.1	26.2	0.07	0.34	0.09	54	0.29	0.025
643-M80	Soil Pulp	3.71	30.18	4.02	30.8	28	7.0	5.7	213	2.32	9.3	3.2	2.3	4.9	15.3	0.06	0.24	0.07	65	0.24	0.040
644-M80	Soil Pulp	3.09	29.87	11.09	69.7	131	10.6	10.4	661	2.73	43.8	2.4	4.1	3.6	35.5	0.33	0.41	0.09	60	0.48	0.048
645-M80	Soil Pulp	1.73	38.37	11.64	74.5	129	12.7	11.6	563	2.92	71.4	1.1	19.3	4.8	40.3	0.22	0.47	0.08	60	0.55	0.065
646-M80	Soil Pulp	2.59	38.80	13.94	71.5	138	12.8	9.7	508	2.64	46.1	1.2	11.2	3.4	39.3	0.23	0.51	0.08	52	0.60	0.063
647-M80	Soil Pulp	3.58	47.19	16.57	82.0	116	18.3	17.2	806	3.44	59.3	1.6	4.7	1.6	74.1	0.30	0.81	0.11	75	1.12	0.082
648-M80	Soil Pulp	2.44	49.43	24.19	112.1	144	30.6	21.3	815	4.28	96.3	1.1	5.6	1.1	85.1	0.36	1.64	0.11	73	1.06	0.103

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Client: **Zelon Enterprises Ltd.**
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6 CANADA

Project: PELLAIVE-TWIN
Report Date: February 18, 2013

CERTIFICATE OF ANALYSIS VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617-M80	Soil Pulp	18.9	18.9	0.73	67.1	0.186	2	1.34	0.016	0.27	0.4	5.2	0.23	<0.02	20	0.3	0.02	7.6	5.36	0.3	0.09
618-M80	Soil Pulp	5.6	9.9	0.19	17.2	0.065	<1	0.65	0.006	0.05	0.2	1.1	0.07	<0.02	8	0.1	<0.02	3.0	1.35	0.1	0.03
619-M80	Soil Pulp	9.1	18.5	0.53	54.8	0.163	1	1.24	0.010	0.13	0.9	4.3	0.13	<0.02	11	0.2	<0.02	6.3	2.60	0.1	0.04
621-M80	Soil Pulp	5.4	18.5	0.32	32.4	0.057	2	0.92	0.055	0.06	1.0	2.3	0.03	<0.02	20	0.2	<0.02	3.5	0.56	0.2	<0.02
622-M80	Soil Pulp	11.5	29.6	0.68	67.4	0.163	3	1.23	0.016	0.22	0.4	6.8	0.15	<0.02	25	0.8	<0.02	6.6	2.36	0.3	0.03
623-M80	Soil Pulp	11.2	26.7	0.71	66.7	0.143	3	1.27	0.016	0.19	0.4	6.4	0.12	<0.02	23	0.5	0.03	6.2	2.03	0.2	0.03
624-M80	Soil Pulp	12.7	30.2	0.70	62.4	0.154	3	1.25	0.017	0.19	0.4	6.5	0.13	<0.02	31	0.5	0.02	6.5	2.34	0.3	0.04
625-M80	Soil Pulp	13.0	22.6	0.58	44.5	0.133	3	0.98	0.011	0.17	0.4	4.9	0.12	<0.02	29	0.4	<0.02	5.2	1.89	0.3	0.03
626-M80	Soil Pulp	13.5	24.2	0.83	67.3	0.183	3	1.41	0.017	0.25	0.4	7.3	0.16	<0.02	26	0.5	<0.02	6.9	2.92	0.3	0.06
627-M80	Soil Pulp	21.3	61.6	0.50	40.1	0.103	2	0.86	0.007	0.11	0.5	3.9	0.09	<0.02	16	0.2	0.03	5.9	1.55	0.2	0.04
628-M80	Soil Pulp	8.4	24.5	0.74	77.6	0.140	3	1.45	0.016	0.20	0.3	7.0	0.10	<0.02	18	0.4	0.04	6.5	2.08	0.2	0.04
630-M80	Soil Pulp	10.4	28.3	0.74	75.4	0.143	3	1.46	0.017	0.17	0.4	7.6	0.11	<0.02	15	0.5	0.04	6.5	1.90	0.3	0.02
631-M80	Soil Pulp	8.7	24.4	0.66	65.9	0.123	3	1.53	0.010	0.17	0.2	5.7	0.09	0.03	23	0.6	0.03	6.6	1.72	0.2	<0.02
632-M80	Soil Pulp	4.9	28.2	0.50	43.2	0.081	2	1.09	0.050	0.12	0.9	2.6	0.06	<0.02	9	0.2	0.02	4.1	0.78	0.2	0.02
633-M80	Soil Pulp	7.6	29.6	0.32	28.6	0.065	1	0.80	0.043	0.07	1.9	2.2	0.04	<0.02	8	0.2	<0.02	3.7	0.59	0.2	0.04
634-M80	Soil Pulp	7.5	23.1	0.41	32.2	0.089	2	1.22	0.020	0.06	0.3	2.6	0.04	<0.02	22	0.3	0.02	4.7	0.94	0.1	0.03
635-M80	Soil Pulp	6.2	31.0	1.26	96.3	0.045	5	3.51	0.011	0.12	0.2	6.1	0.08	0.03	52	0.2	0.03	10.5	2.55	<0.1	<0.02
636-M80	Soil Pulp	11.1	23.4	0.87	93.8	0.084	5	2.54	0.019	0.18	0.3	7.4	0.14	<0.02	27	0.2	<0.02	8.8	3.25	0.1	<0.02
637-M80	Soil Pulp	7.9	21.9	0.76	81.0	0.104	3	1.94	0.027	0.18	0.3	5.6	0.13	<0.02	10	0.3	0.10	7.5	1.98	0.1	<0.02
638-M80	Soil Pulp	9.4	21.1	0.77	86.8	0.091	2	2.07	0.025	0.19	0.3	6.6	0.12	0.02	27	0.2	<0.02	8.2	2.30	<0.1	<0.02
639-M80	Soil Pulp	8.6	21.0	0.61	95.2	0.066	2	2.08	0.015	0.08	0.3	4.7	0.11	<0.02	20	0.2	0.02	8.9	1.87	<0.1	<0.02
640-M80	Soil Pulp	9.2	18.1	0.54	54.1	0.114	2	1.86	0.013	0.06	0.4	4.2	0.09	<0.02	16	<0.1	0.02	8.6	1.85	<0.1	0.03
641-M80	Soil Pulp	15.1	21.8	0.64	71.2	0.116	2	2.82	0.017	0.07	0.7	5.7	0.17	<0.02	30	0.1	<0.02	10.7	2.72	<0.1	<0.02
642-M80	Soil Pulp	9.5	18.4	0.62	65.1	0.110	2	1.91	0.019	0.07	0.3	4.9	0.13	<0.02	24	0.3	<0.02	7.7	1.89	<0.1	0.04
643-M80	Soil Pulp	8.2	15.8	0.39	36.0	0.076	2	1.23	0.016	0.05	0.5	2.6	0.07	<0.02	12	0.2	<0.02	4.7	1.28	<0.1	<0.02
644-M80	Soil Pulp	10.6	19.8	0.64	64.0	0.097	2	1.79	0.026	0.10	0.3	5.1	0.10	<0.02	31	0.3	0.03	7.2	1.88	<0.1	<0.02
645-M80	Soil Pulp	10.1	22.2	0.70	79.3	0.106	2	1.77	0.032	0.15	0.3	5.7	0.12	<0.02	33	0.2	0.07	7.0	1.94	<0.1	<0.02
646-M80	Soil Pulp	9.4	18.4	0.65	71.0	0.084	2	1.75	0.046	0.14	0.4	4.8	0.09	<0.02	21	0.3	0.03	6.2	1.97	<0.1	<0.02
647-M80	Soil Pulp	6.7	25.4	1.02	96.4	0.090	3	2.79	0.051	0.17	0.4	5.5	0.09	0.04	37	0.2	<0.02	9.2	2.50	<0.1	<0.02
648-M80	Soil Pulp	7.0	36.1	1.44	132.1	0.065	3	3.27	0.034	0.16	0.2	5.8	0.07	0.05	57	0.1	0.08	9.4	2.25	<0.1	<0.02

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Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617-M80	Soil Pulp	0.49	31.2	0.6	<0.05	2.0	11.78	46.5	<0.02	<1	0.4	30.6	<10	<2
618-M80	Soil Pulp	0.38	11.8	0.2	<0.05	0.6	2.11	10.7	<0.02	<1	0.1	9.6	<10	<2
619-M80	Soil Pulp	1.01	25.4	0.6	<0.05	1.0	6.44	21.9	0.02	<1	0.3	20.1	<10	<2
621-M80	Soil Pulp	0.24	3.9	0.1	<0.05	0.5	4.04	10.6	<0.02	<1	<0.1	6.7	<10	<2
622-M80	Soil Pulp	0.58	16.3	0.9	<0.05	0.4	12.55	29.5	0.03	<1	0.2	17.2	<10	<2
623-M80	Soil Pulp	0.58	14.5	0.5	<0.05	0.8	11.69	27.7	0.03	<1	0.3	19.0	<10	<2
624-M80	Soil Pulp	0.42	14.1	0.6	<0.05	0.5	13.69	33.4	0.02	<1	0.3	18.0	<10	<2
625-M80	Soil Pulp	0.53	14.7	0.5	<0.05	0.5	11.08	33.4	<0.02	<1	0.3	15.6	<10	<2
626-M80	Soil Pulp	0.37	20.9	0.6	<0.05	1.3	15.15	33.7	0.03	<1	0.4	23.2	<10	<2
627-M80	Soil Pulp	0.27	9.5	0.5	<0.05	0.7	13.85	51.2	<0.02	<1	0.2	13.3	<10	<2
628-M80	Soil Pulp	0.52	13.0	0.5	<0.05	1.3	9.90	20.5	0.03	<1	0.4	18.8	<10	<2
630-M80	Soil Pulp	0.48	10.6	0.5	<0.05	0.8	13.05	26.8	0.03	<1	0.4	16.5	<10	<2
631-M80	Soil Pulp	0.72	11.9	0.5	<0.05	0.2	9.71	23.3	0.03	<1	0.5	16.4	<10	<2
632-M80	Soil Pulp	0.20	6.1	0.2	<0.05	0.4	3.29	9.2	<0.02	<1	0.1	9.4	<10	<2
633-M80	Soil Pulp	0.24	4.5	0.2	<0.05	0.6	3.98	13.6	<0.02	<1	<0.1	7.4	<10	<2
634-M80	Soil Pulp	0.45	6.5	0.3	<0.05	0.7	4.35	18.0	<0.02	<1	0.2	11.1	<10	<2
635-M80	Soil Pulp	0.46	9.0	0.4	<0.05	0.3	7.49	15.6	0.03	<1	0.7	26.5	<10	<2
636-M80	Soil Pulp	0.57	12.1	0.4	<0.05	0.7	12.20	32.5	0.04	<1	0.8	22.7	<10	<2
637-M80	Soil Pulp	0.65	13.0	0.6	<0.05	0.7	8.35	19.5	0.02	<1	0.6	20.1	<10	<2
638-M80	Soil Pulp	0.71	13.5	0.4	<0.05	0.3	10.46	21.9	0.04	<1	0.4	20.0	<10	<2
639-M80	Soil Pulp	0.52	10.8	0.4	<0.05	0.4	8.36	18.6	0.03	<1	0.4	19.4	<10	<2
640-M80	Soil Pulp	0.91	11.4	0.5	<0.05	0.7	6.97	16.7	0.03	<1	0.5	20.0	<10	<2
641-M80	Soil Pulp	0.88	14.8	0.6	<0.05	1.2	12.69	20.1	0.03	<1	1.0	20.9	<10	<2
642-M80	Soil Pulp	0.72	10.2	0.5	<0.05	1.1	7.72	17.7	<0.02	2	0.6	21.8	<10	<2
643-M80	Soil Pulp	0.46	5.9	0.2	<0.05	0.4	6.49	16.0	<0.02	<1	0.3	10.7	<10	<2
644-M80	Soil Pulp	0.65	12.3	0.5	<0.05	0.4	10.12	19.1	0.02	<1	0.4	18.0	<10	2
645-M80	Soil Pulp	0.45	11.4	0.3	<0.05	0.5	11.37	22.7	0.03	<1	0.5	17.4	<10	<2
646-M80	Soil Pulp	0.40	9.9	0.2	<0.05	0.4	10.57	20.4	0.02	<1	0.6	15.8	<10	<2
647-M80	Soil Pulp	0.63	13.7	0.4	<0.05	0.2	8.34	15.0	0.04	<1	0.5	20.0	<10	<2
648-M80	Soil Pulp	0.54	9.3	0.2	<0.05	0.2	8.17	16.6	0.04	<1	1.0	24.7	<10	<2

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

CERTIFICATE OF ANALYSIS VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
649-M80	Soil Pulp	2.05	60.29	20.08	99.2	133	35.3	22.0	750	4.28	104.2	1.0	4.8	1.7	89.4	0.46	2.07	0.19	79	1.01	0.086

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

 Part: 2 of 1

CERTIFICATE OF ANALYSIS

VAN13000332.1

		Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
		Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
649-M80	Soil Pulp		7.8	38.0	1.51	144.3	0.086	4	3.31	0.039	0.16	0.3	6.8	0.08	0.03	42	0.2	0.05	9.3	2.21	<0.1	<0.02

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

CERTIFICATE OF ANALYSIS VAN13000332.1

		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
649-M80	Soil Pulp	0.43	8.5	0.4	<0.05	0.5	9.16	18.7	0.04	<1	0.8	26.4	<10	<2

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

QUALITY CONTROL REPORT VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
640-M80	Soil Pulp	4.44	21.13	7.76	77.1	115	10.8	8.3	299	2.73	37.5	1.2	3.2	2.8	21.2	0.15	0.29	0.09	64	0.26	0.031
REP 640-M80	QC	4.96	22.49	8.32	75.7	125	11.4	8.6	303	2.82	37.2	1.3	30.8	3.1	21.1	0.12	0.32	0.12	66	0.28	0.034
649-M80	Soil Pulp	2.05	60.29	20.08	99.2	133	35.3	22.0	750	4.28	104.2	1.0	4.8	1.7	89.4	0.46	2.07	0.19	79	1.01	0.086
REP 649-M80	QC	2.11	60.38	20.48	98.1	133	34.8	22.4	751	4.22	102.8	1.0	6.5	2.0	84.9	0.43	2.01	0.14	78	1.00	0.085
Reference Materials																					
STD DS9	Standard	12.98	106.3	106.6	303.9	1900	38.6	7.2	582	2.30	24.8	2.4	117.5	5.6	66.3	2.22	5.18	6.00	40	0.73	0.085
STD DS9	Standard	13.48	104.4	121.5	309.4	1908	41.8	7.5	601	2.34	23.7	2.3	110.6	5.5	66.4	2.19	5.31	5.76	38	0.72	0.088
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	0.02	0.03	0.02	0.2	4	<0.1	0.3	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

QUALITY CONTROL REPORT VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
640-M80	Soil Pulp	9.2	18.1	0.54	54.1	0.114	2	1.86	0.013	0.06	0.4	4.2	0.09	<0.02	16	<0.1	0.02	8.6	1.85	<0.1	0.03
REP 640-M80	QC	9.6	18.8	0.56	55.6	0.118	1	1.94	0.013	0.07	0.4	4.4	0.10	<0.02	22	<0.1	0.02	8.7	1.98	<0.1	<0.02
649-M80	Soil Pulp	7.8	38.0	1.51	144.3	0.086	4	3.31	0.039	0.16	0.3	6.8	0.08	0.03	42	0.2	0.05	9.3	2.21	<0.1	<0.02
REP 649-M80	QC	7.7	36.2	1.49	145.2	0.086	4	3.26	0.039	0.16	0.3	6.8	0.08	0.03	43	0.2	0.08	9.1	2.28	<0.1	0.03
Reference Materials																					
STD DS9	Standard	12.9	113.1	0.61	304.6	0.101	2	0.95	0.086	0.40	3.0	2.6	5.43	0.16	194	5.0	5.30	4.6	2.40	<0.1	0.08
STD DS9	Standard	12.8	123.1	0.62	293.3	0.118	3	0.94	0.080	0.40	3.1	2.6	5.27	0.16	209	5.6	5.25	4.9	2.27	0.3	0.08
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

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Project: PELLAIVE-TWIN
Report Date: February 18, 2013

QUALITY CONTROL REPORT VAN13000332.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
640-M80	Soil Pulp	0.91	11.4	0.5	<0.05	0.7	6.97	16.7	0.03	<1	0.5	20.0	<10	<2
REP 640-M80	QC	0.87	11.1	0.5	<0.05	0.7	7.26	16.8	0.03	<1	0.4	21.4	<10	<2
649-M80	Soil Pulp	0.43	8.5	0.4	<0.05	0.5	9.16	18.7	0.04	<1	0.8	26.4	<10	<2
REP 649-M80	QC	0.45	8.3	0.4	<0.05	0.5	8.92	19.0	0.04	2	0.7	26.6	<10	<2
Reference Materials														
STD DS9	Standard	1.47	32.7	6.6	<0.05	1.8	5.85	23.4	2.23	59	5.1	25.9	128	354
STD DS9	Standard	1.71	31.2	5.9	<0.05	2.0	6.13	25.0	2.03	60	5.9	26.5	122	350
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

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Submitted By: John Hajek
Receiving Lab: Canada-Vancouver
Received: January 24, 2013
Report Date: February 15, 2013
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN13000333.1

CLIENT JOB INFORMATION

Project: PELLAIVE-TWIN
Shipment ID:
P.O. Number
Number of Samples: 34

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Soil Pulverize	34	Soil Pulverize			VAN
1F05	34	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
Dispose of Reject After 90 days

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

ADDITIONAL COMMENTS

Invoice To: Zelon Enterprises Ltd.
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6
CANADA

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
RAYMOND CHAN
CHIEF ASSAYER

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Project: PELLAIVE-TWIN
Report Date: February 15, 2013

CERTIFICATE OF ANALYSIS VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
617-M40	Soil	0.51	22.27	3.75	33.1	16	8.1	7.3	237	3.00	3.0	2.0	2.1	7.8	22.1	0.05	0.15	0.07	100	0.31	0.044
618-M40	Soil	1.42	25.23	3.28	39.1	64	7.7	6.0	177	2.47	3.7	2.4	1.8	6.5	11.6	0.05	0.13	0.10	68	0.17	0.060
619-M40	Soil	0.95	19.90	3.56	37.0	52	7.0	6.1	222	2.21	4.0	1.9	8.7	3.8	17.8	0.03	0.19	0.24	62	0.30	0.037
621-M40	Soil	1.73	22.57	1.77	27.4	34	5.3	4.8	171	1.69	3.8	1.5	1.6	2.8	32.0	0.08	0.11	0.07	46	0.56	0.038
622-M40	Soil	1.26	29.87	8.34	45.4	75	10.9	8.2	380	4.33	16.0	5.1	7.7	5.3	22.6	0.19	0.35	0.07	163	0.43	0.056
623-M40	Soil	0.97	27.93	7.42	54.7	75	11.0	8.5	425	3.18	13.6	1.7	12.1	3.6	21.2	0.25	0.32	0.05	89	0.39	0.054
624-M40	Soil	0.89	33.42	10.81	52.3	86	11.6	8.9	370	4.54	12.3	3.9	12.0	6.1	22.1	0.20	0.35	0.07	178	0.43	0.061
625-M40	Soil	0.69	25.08	7.92	43.2	63	8.2	6.7	253	2.21	5.9	1.4	15.5	3.0	18.3	0.17	0.24	0.06	56	0.32	0.039
626-M40	Soil	0.59	33.71	9.80	47.3	40	10.8	8.8	330	3.20	6.3	2.5	12.2	4.8	18.1	0.21	0.23	0.04	104	0.38	0.045
627-M40	Soil	0.88	28.03	14.99	35.5	98	9.5	8.5	218	6.69	7.1	2.7	26.5	8.2	12.9	0.13	0.29	0.07	322	0.33	0.060
628-M40	Soil	0.73	29.55	6.81	58.0	107	12.2	9.1	449	3.31	23.7	0.8	10.7	2.8	18.9	0.08	0.50	0.06	72	0.33	0.072
630-M40	Soil	1.76	30.65	6.86	63.9	70	14.2	10.3	617	3.29	21.8	1.0	28.9	2.8	23.8	0.06	0.41	0.08	65	0.42	0.062
631-M40	Soil	0.99	26.58	6.24	56.4	77	11.8	9.0	549	3.16	16.1	0.7	3.7	2.6	18.5	0.08	0.32	0.05	73	0.32	0.062
632-M40	Soil	0.68	33.58	1.63	21.9	40	6.3	5.5	174	2.00	4.0	1.2	0.9	2.4	29.8	0.02	0.13	<0.02	54	0.62	0.025
633-M40	Soil	0.51	24.10	1.40	22.0	18	5.3	4.8	158	1.77	2.4	2.6	<0.2	4.7	26.8	<0.01	0.09	<0.02	50	0.54	0.025
634-M40	Soil	0.37	30.89	1.94	20.2	5	6.1	5.9	192	4.02	2.6	0.8	<0.2	3.9	24.1	0.02	0.14	0.02	135	0.38	0.029
635-M40	Soil	1.70	35.18	12.89	104.9	60	20.4	16.6	871	4.15	61.4	0.3	1.6	1.0	53.7	0.27	0.98	0.04	78	0.67	0.091
636-M40	Soil	1.04	35.73	18.83	90.1	101	13.9	11.2	807	3.34	57.4	0.6	5.9	2.4	28.2	0.40	0.74	0.05	59	0.39	0.049
637-M40	Soil	0.67	21.07	7.12	53.0	65	8.7	7.2	375	2.42	37.1	0.4	1.6	2.3	26.7	0.25	0.35	0.05	51	0.38	0.045
638-M40	Soil	0.74	24.02	8.77	64.0	173	9.1	9.0	543	2.80	44.3	0.5	4.4	2.2	29.0	0.09	0.44	0.02	53	0.41	0.050
639-M40	Soil	1.83	22.73	8.78	76.9	83	10.1	7.6	656	2.84	42.3	0.6	10.6	2.2	24.9	0.19	0.50	0.06	57	0.33	0.038
640-M40	Soil	2.48	16.58	5.54	52.7	69	7.8	5.9	219	2.21	20.4	0.7	1.5	2.0	18.0	0.07	0.20	0.03	52	0.26	0.022
641-M40	Soil	4.49	23.27	10.49	55.8	180	8.8	7.3	376	2.40	22.4	3.1	1.7	3.6	22.3	0.16	0.44	0.12	57	0.37	0.025
642-M40	Soil	3.98	20.30	8.16	48.9	99	9.9	7.5	285	2.74	57.8	1.5	3.5	3.4	27.7	0.05	0.34	0.04	53	0.36	0.020
643-M40	Soil	2.50	27.05	3.96	36.3	18	7.8	6.1	235	2.05	7.6	2.2	0.5	3.6	17.7	0.06	0.26	<0.02	55	0.30	0.026
644-M40	Soil	1.80	21.66	7.08	54.0	102	7.8	8.2	520	2.31	26.0	1.5	<0.2	2.4	27.6	0.23	0.41	0.03	50	0.44	0.034
645-M40	Soil	0.76	26.98	7.44	59.6	74	8.8	8.2	433	2.23	40.2	0.6	3.7	2.7	27.8	0.14	0.35	0.02	45	0.47	0.041
646-M40	Soil	2.81	37.59	16.15	79.7	161	13.5	10.9	674	3.01	53.7	0.9	5.9	2.6	29.8	0.36	0.68	0.06	55	0.50	0.046
647-M40	Soil	2.32	35.98	12.05	75.7	83	16.5	14.3	726	3.38	41.8	1.1	1.7	1.5	57.7	0.20	0.95	0.06	70	0.96	0.063
648-M40	Soil	1.96	38.61	17.78	102.2	72	26.0	17.5	778	4.18	76.9	0.6	4.8	1.1	65.6	0.41	1.47	0.07	74	0.85	0.079

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Client: **Zelon Enterprises Ltd.**
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6 CANADA

Project: PELLAIVE-TWIN
Report Date: February 15, 2013

CERTIFICATE OF ANALYSIS VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
617-M40	Soil	19.5	20.0	0.50	54.9	0.127	3	0.90	0.049	0.24	0.9	3.5	0.15	<0.02	9	0.2	<0.02	5.2	3.09	0.1	0.13
618-M40	Soil	9.2	13.7	0.32	35.5	0.115	1	1.36	0.026	0.07	0.5	2.5	0.13	<0.02	23	0.4	<0.02	6.0	2.48	<0.1	0.08
619-M40	Soil	10.1	14.2	0.44	47.4	0.124	2	0.90	0.046	0.14	0.8	3.2	0.10	<0.02	9	0.2	<0.02	5.0	2.06	<0.1	0.06
621-M40	Soil	4.5	10.7	0.37	51.8	0.076	2	1.02	0.078	0.11	0.6	2.6	0.10	<0.02	<5	0.5	<0.02	4.0	0.90	<0.1	0.03
622-M40	Soil	20.2	37.8	0.57	59.6	0.126	4	1.09	0.076	0.20	0.2	4.5	0.13	<0.02	15	0.5	<0.02	5.9	1.87	<0.1	0.23
623-M40	Soil	11.6	21.9	0.65	63.6	0.128	3	1.13	0.047	0.20	0.2	4.6	0.12	<0.02	21	0.4	<0.02	5.8	1.96	0.1	0.03
624-M40	Soil	18.5	40.1	0.65	60.6	0.145	3	1.16	0.063	0.20	0.4	5.0	0.10	<0.02	12	0.1	<0.02	6.4	2.12	<0.1	0.05
625-M40	Soil	8.0	12.4	0.52	48.4	0.119	3	0.88	0.055	0.20	0.2	3.3	0.12	<0.02	16	0.2	<0.02	4.4	1.84	<0.1	0.04
626-M40	Soil	13.2	22.3	0.67	58.9	0.152	4	1.10	0.062	0.26	0.2	4.3	0.13	<0.02	14	<0.1	<0.02	5.6	2.17	<0.1	0.09
627-M40	Soil	24.1	71.5	0.40	34.2	0.102	3	0.76	0.040	0.13	0.6	3.5	0.09	<0.02	13	<0.1	<0.02	5.9	1.22	<0.1	0.05
628-M40	Soil	11.1	21.4	0.68	77.1	0.120	3	1.31	0.041	0.20	0.4	5.6	0.08	<0.02	10	0.5	<0.02	6.0	1.81	<0.1	0.08
630-M40	Soil	11.5	22.2	0.77	77.3	0.135	3	1.41	0.042	0.17	0.3	6.3	0.10	<0.02	<5	0.2	<0.02	6.4	1.96	0.1	0.06
631-M40	Soil	11.0	21.5	0.66	65.4	0.117	3	1.31	0.033	0.17	0.3	5.0	0.09	<0.02	21	0.2	<0.02	6.3	1.77	<0.1	<0.02
632-M40	Soil	6.2	15.1	0.34	43.6	0.079	3	1.06	0.103	0.11	0.5	3.1	0.06	<0.02	<5	0.2	<0.02	3.7	0.75	<0.1	0.06
633-M40	Soil	7.8	13.0	0.33	40.7	0.092	2	0.90	0.087	0.11	0.3	2.4	0.03	<0.02	<5	0.3	<0.02	3.5	0.76	0.1	0.08
634-M40	Soil	13.4	33.5	0.26	38.0	0.099	3	0.94	0.088	0.10	0.5	2.6	0.04	<0.02	12	0.2	<0.02	4.3	0.68	0.1	0.08
635-M40	Soil	7.5	27.2	1.25	86.2	0.082	6	2.98	0.037	0.15	0.1	6.9	0.08	<0.02	35	0.3	<0.02	10.1	2.07	<0.1	<0.02
636-M40	Soil	12.0	19.7	0.74	78.1	0.088	6	2.02	0.061	0.22	0.2	6.3	0.10	<0.02	26	0.3	<0.02	7.6	2.33	<0.1	<0.02
637-M40	Soil	8.1	15.0	0.55	58.5	0.094	3	1.30	0.056	0.16	0.3	4.2	0.07	<0.02	6	0.2	0.04	5.6	1.28	<0.1	0.03
638-M40	Soil	9.2	15.8	0.61	64.8	0.086	4	1.49	0.053	0.18	0.1	4.7	0.07	<0.02	14	0.4	<0.02	6.2	1.48	<0.1	0.02
639-M40	Soil	9.3	16.3	0.55	80.3	0.080	2	1.78	0.043	0.11	0.2	4.6	0.11	<0.02	15	0.3	0.04	8.1	1.80	<0.1	0.03
640-M40	Soil	9.1	14.2	0.38	43.7	0.107	3	1.31	0.042	0.09	0.3	3.5	0.07	<0.02	<5	0.2	<0.02	6.5	1.72	<0.1	0.04
641-M40	Soil	13.1	14.4	0.49	52.2	0.112	3	1.82	0.043	0.10	0.4	4.2	0.12	<0.02	13	0.3	<0.02	7.6	2.34	<0.1	0.04
642-M40	Soil	10.9	15.8	0.59	67.4	0.132	3	1.84	0.084	0.14	0.2	5.4	0.15	<0.02	<5	0.6	<0.02	7.8	1.82	<0.1	0.06
643-M40	Soil	8.4	14.6	0.43	41.3	0.104	3	1.16	0.041	0.08	0.3	3.3	0.09	<0.02	15	0.2	<0.02	5.0	1.32	<0.1	0.02
644-M40	Soil	9.7	14.0	0.55	51.0	0.105	4	1.39	0.051	0.11	0.2	4.2	0.10	<0.02	8	0.2	<0.02	6.0	1.51	<0.1	0.03
645-M40	Soil	9.2	14.2	0.57	59.5	0.109	3	1.31	0.049	0.14	0.2	5.0	0.12	<0.02	13	0.4	0.05	6.2	1.39	0.1	0.02
646-M40	Soil	11.5	18.2	0.76	72.9	0.095	4	1.92	0.046	0.17	0.2	6.1	0.09	<0.02	17	<0.1	0.02	7.4	2.07	<0.1	0.02
647-M40	Soil	7.6	24.5	1.09	80.4	0.103	4	2.44	0.055	0.15	0.4	6.0	0.10	0.02	38	0.2	0.02	9.0	1.82	<0.1	<0.02
648-M40	Soil	7.2	33.8	1.49	112.6	0.092	4	2.88	0.043	0.15	0.1	6.3	0.04	0.03	44	<0.1	0.02	9.2	1.61	<0.1	<0.02

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Project: PELLAIVE-TWIN
Report Date: February 15, 2013

CERTIFICATE OF ANALYSIS VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
617-M40	Soil	0.39	23.7	0.5	<0.05	2.0	8.15	40.5	<0.02	<1	0.3	20.4	<10	9
618-M40	Soil	0.79	19.6	0.4	<0.05	1.7	5.51	19.1	<0.02	<1	0.4	18.0	<10	<2
619-M40	Soil	0.85	23.3	0.5	<0.05	1.3	5.76	22.4	<0.02	<1	0.3	15.3	<10	<2
621-M40	Soil	0.38	8.5	0.3	<0.05	0.8	3.72	9.4	<0.02	<1	0.2	10.5	<10	<2
622-M40	Soil	0.60	13.8	0.7	<0.05	1.2	9.99	41.0	<0.02	<1	0.3	13.9	<10	8
623-M40	Soil	0.55	15.6	0.5	<0.05	1.5	8.95	25.5	<0.02	<1	0.3	15.8	11	<2
624-M40	Soil	0.36	15.4	0.6	<0.05	1.1	10.93	39.1	0.02	<1	0.3	15.7	14	<2
625-M40	Soil	0.51	16.2	0.5	<0.05	0.8	6.58	18.4	<0.02	<1	0.2	13.8	<10	<2
626-M40	Soil	0.21	20.4	0.5	<0.05	1.2	8.95	28.0	0.03	<1	0.2	16.5	<10	<2
627-M40	Soil	0.14	9.5	0.5	<0.05	1.0	9.40	47.8	<0.02	<1	0.1	11.6	17	<2
628-M40	Soil	0.52	14.0	0.4	<0.05	1.9	9.40	25.4	<0.02	<1	0.4	15.2	<10	<2
630-M40	Soil	0.49	12.7	0.4	<0.05	1.9	11.71	26.9	<0.02	<1	0.3	15.8	<10	<2
631-M40	Soil	0.72	12.6	0.4	<0.05	0.9	8.99	26.3	0.04	<1	0.4	14.6	<10	<2
632-M40	Soil	0.23	6.1	0.2	<0.05	0.8	4.11	12.9	<0.02	<1	0.2	7.6	<10	<2
633-M40	Soil	0.34	7.7	0.2	<0.05	1.2	4.79	15.9	<0.02	<1	0.2	9.3	<10	<2
634-M40	Soil	0.62	6.4	0.4	<0.05	1.1	6.21	27.8	<0.02	<1	<0.1	7.0	<10	<2
635-M40	Soil	0.54	9.2	0.4	<0.05	0.5	8.74	18.8	<0.02	<1	0.5	25.2	<10	<2
636-M40	Soil	0.61	12.6	0.4	<0.05	1.0	11.46	31.5	<0.02	<1	0.6	19.4	23	<2
637-M40	Soil	0.63	9.9	0.3	<0.05	0.9	7.05	19.5	0.03	<1	0.3	14.5	<10	<2
638-M40	Soil	0.74	11.4	0.4	<0.05	0.4	8.51	20.7	0.02	<1	0.4	16.2	<10	<2
639-M40	Soil	0.65	11.9	0.5	<0.05	0.7	8.46	20.1	0.04	<1	0.4	18.7	<10	<2
640-M40	Soil	0.85	12.5	0.4	<0.05	0.8	6.38	18.2	0.02	<1	0.4	15.8	20	<2
641-M40	Soil	0.86	15.0	0.5	<0.05	1.3	10.38	19.5	<0.02	<1	0.5	16.0	<10	<2
642-M40	Soil	0.76	13.1	0.6	<0.05	1.7	9.14	22.6	0.03	<1	0.4	19.9	11	<2
643-M40	Soil	0.63	8.3	0.3	<0.05	0.9	6.87	17.1	<0.02	<1	0.3	12.2	<10	<2
644-M40	Soil	0.76	13.1	0.5	<0.05	0.5	8.71	19.0	<0.02	<1	0.3	15.2	<10	<2
645-M40	Soil	0.50	10.3	0.3	<0.05	0.8	9.11	21.0	0.03	<1	0.3	15.8	<10	<2
646-M40	Soil	0.43	11.7	0.4	<0.05	0.9	12.86	26.9	0.04	<1	0.4	19.0	<10	<2
647-M40	Soil	0.62	12.4	0.4	<0.05	0.4	8.55	16.9	<0.02	<1	0.3	20.0	<10	<2
648-M40	Soil	0.53	8.0	0.4	<0.05	0.5	8.96	18.0	0.03	<1	0.6	26.2	12	<2

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Project: PELLAIVE-TWIN
Report Date: February 15, 2013

CERTIFICATE OF ANALYSIS VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
649-M40	Soil	1.64	49.00	19.41	97.9	237	33.2	19.3	765	4.35	87.8	0.7	448.1	1.5	64.8	0.42	1.82	0.08	76	0.86	0.073
650-L20	Soil	2.49	64.75	356.5	149.9	812	71.1	58.8	665	11.12	53.7	1.7	232.0	5.1	13.5	0.67	2.12	0.83	11	0.35	0.082
650-L40	Soil	2.38	44.19	58.55	157.6	569	48.2	22.7	558	6.95	23.6	2.2	377.8	10.7	13.4	0.66	2.11	0.45	13	0.17	0.100
652-ROL-20	Soil	1.40	35.17	14.20	80.9	136	38.9	12.5	406	3.69	9.1	1.4	685.9	5.9	13.4	0.25	0.47	0.48	36	0.32	0.085

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
649-M40	Soil	7.8	36.7	1.59	113.2	0.104	5	3.08	0.040	0.14	<0.1	6.7	0.07	<0.02	92	<0.1	<0.02	9.9	1.78	<0.1	0.04
650-L20	Soil	8.2	15.5	0.77	54.3	0.004	1	0.73	0.010	0.11	92.7	2.8	0.03	4.89	19	5.7	0.16	2.2	0.27	<0.1	0.29
650-L40	Soil	27.1	15.4	0.45	101.4	0.003	1	0.76	0.011	0.13	>100	2.0	0.03	0.73	37	1.1	0.05	2.1	0.29	<0.1	0.19
652-ROL-20	Soil	20.3	42.0	0.79	100.9	0.091	<1	1.33	0.014	0.13	0.9	3.0	0.06	<0.02	<5	1.0	0.05	3.9	0.66	<0.1	0.07

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	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
649-M40	Soil	0.46	6.8	0.3	<0.05	0.8	9.99	20.3	0.02	<1	0.6	25.3	<10	<2
650-L20	Soil	0.12	5.1	<0.1	<0.05	13.9	4.65	16.9	0.06	2	0.3	10.3	<10	10
650-L40	Soil	0.05	5.9	0.2	<0.05	12.2	5.79	56.8	<0.02	<1	0.2	9.5	12	<2
652-ROL-20	Soil	0.44	10.6	0.5	<0.05	5.1	7.61	39.2	<0.02	<1	0.2	14.8	<10	<2

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QUALITY CONTROL REPORT VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
622-M40	Soil	1.26	29.87	8.34	45.4	75	10.9	8.2	380	4.33	16.0	5.1	7.7	5.3	22.6	0.19	0.35	0.07	163	0.43	0.056
REP 622-M40	QC	1.36	28.58	8.32	43.8	99	10.6	7.9	369	4.22	15.8	5.1	9.0	5.2	22.9	0.14	0.34	0.08	159	0.42	0.054
650-L40	Soil	2.38	44.19	58.55	157.6	569	48.2	22.7	558	6.95	23.6	2.2	377.8	10.7	13.4	0.66	2.11	0.45	13	0.17	0.100
REP 650-L40	QC	2.38	45.52	61.69	159.5	740	49.4	23.8	531	7.04	23.9	2.2	1845	11.0	13.8	0.67	2.00	0.46	13	0.17	0.098
Reference Materials																					
STD DS9	Standard	12.93	104.0	128.9	320.5	1864	38.9	7.4	636	2.36	27.2	2.7	128.8	6.6	67.9	2.45	5.50	5.60	40	0.74	0.088
STD DS9 Expected		12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201	0.0819
BLK	Blank	<0.01	0.05	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	0.07	3.61	3.03	51.2	10	4.1	3.9	616	1.97	0.2	1.0	0.9	4.0	46.7	0.07	<0.02	0.08	34	0.49	0.084
G1	Prep Blank	0.03	4.25	2.71	54.1	10	4.1	4.5	616	2.10	<0.1	1.3	1.0	4.9	54.6	0.01	<0.02	0.06	38	0.44	0.091

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PHONE (604) 253-3158

Client: **Zelon Enterprises Ltd.**
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6 CANADA

Project: PELLAIVE-TWIN
Report Date: February 15, 2013

QUALITY CONTROL REPORT VAN13000333.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
622-M40	Soil	20.2	37.8	0.57	59.6	0.126	4	1.09	0.076	0.20	0.2	4.5	0.13	<0.02	15	0.5	<0.02	5.9	1.87	<0.1	0.23
REP 622-M40	QC	19.4	37.1	0.56	57.3	0.124	4	1.08	0.075	0.20	0.3	4.5	0.14	<0.02	8	0.3	<0.02	5.7	1.74	0.1	0.04
650-L40	Soil	27.1	15.4	0.45	101.4	0.003	1	0.76	0.011	0.13	>100	2.0	0.03	0.73	37	1.1	0.05	2.1	0.29	<0.1	0.19
REP 650-L40	QC	27.6	15.1	0.43	101.0	0.003	1	0.76	0.011	0.15	>100	2.1	0.03	0.75	47	1.4	0.08	2.1	0.33	<0.1	0.16
Reference Materials																					
STD DS9	Standard	14.4	116.2	0.62	330.5	0.100	3	0.96	0.088	0.41	3.1	2.7	5.92	0.16	198	5.8	5.83	5.2	2.75	0.2	0.09
STD DS9 Expected		13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1	0.08
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
Prep Wash																					
G1	Prep Blank	9.2	6.1	0.61	239.4	0.094	1	0.89	0.073	0.48	<0.1	2.5	0.35	<0.02	7	0.2	<0.02	5.4	2.89	0.2	0.07
G1	Prep Blank	9.6	7.6	0.60	272.3	0.110	1	0.99	0.084	0.55	<0.1	2.8	0.37	<0.02	<5	0.4	<0.02	5.9	3.08	0.2	0.12

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Client: **Zelon Enterprises Ltd.**
1502 - 1320 Chesterfield Ave.
North Vancouver BC V7W 0A6 CANADA

Project: PELLAIVE-TWIN
Report Date: February 15, 2013

QUALITY CONTROL REPORT VAN13000333.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
622-M40	Soil	0.60	13.8	0.7	<0.05	1.2	9.99	41.0	<0.02	<1	0.3	13.9	<10	8
REP 622-M40	QC	0.56	13.7	0.6	<0.05	2.0	9.98	40.3	0.04	<1	0.3	13.5	<10	<2
650-L40	Soil	0.05	5.9	0.2	<0.05	12.2	5.79	56.8	<0.02	<1	0.2	9.5	12	<2
REP 650-L40	QC	0.07	6.0	<0.1	<0.05	13.3	5.83	58.0	0.08	.3	0.3	9.2	<10	<2
Reference Materials														
STD DS9	Standard	1.76	37.8	7.1	<0.05	2.1	6.44	28.4	2.36	65	5.8	28.3	162	337
STD DS9 Expected		1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
Prep Wash														
G1	Prep Blank	0.51	42.2	0.4	<0.05	1.3	4.58	18.7	0.04	<1	0.2	31.8	<10	<2
G1	Prep Blank	0.54	47.5	0.4	<0.05	1.5	5.16	20.2	0.03	<1	0.2	34.1	10	<2

IX PHYSICAL REPORT OF WORK

IX PHYSICAL REPORT OF WORK

1. Physical road work:

Road maintenance was done on 4,500 meters of roads, by a two men crew using a John Deer backhoe, chain saws, a one ton truck and two four wheelers;

- 3,000 meters of access road were cleared in talus slide to have access to the Falls River camp, also known as Pellaire camp.

- 1,500 meters of access trails were cleared for geological and sampling purposes.

  (A backhoe was used for four days, for a total of 30 hours, see details on page 40)

- Environmental clean up
  Two men for three days to pick up trash and other items left on roads, camp sites and ditches.

2. Physical work as rock sampling, appendix #3:

- Samples of auger stream/soil & witness float rock were taken as follow up to the anomalous results.

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: HAJEK, JOHN HENRY (110734) **Submitter:** HAJEK, JOHN HENRY (110734)
Recorded: 2012/DEC/27 **Effective:** 2012/DEC/27
D/E Date: 2012/DEC/27

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: **5423524**

Work Type: Technical Work
Technical Items: Geochemical, Geological, Geophysical, PAC Withdrawal (up to 30% of technical work performed), Preparatory Surveys, Prospecting

Work Start Date: 2012/SEP/10
Work Stop Date: 2012/OCT/30
Total Value of Work: $ 39800.00
Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
209472	HI #3	1965/may/03	2014/may/03	2015/may/03	365	25.00	$ 125.00	$ 0.00
354065	HAMILTON	1997/mar/02	2016/mar/01	2017/mar/01	365	500.00	$ 5000.00	$ 0.00
209471	HI #2	1965/may/03	2014/may/03	2015/may/03	365	25.00	$ 125.00	$ 0.00
207934	LORD #2	1979/jul/19	2015/jul/19	2016/jul/19	366	500.00	$ 2500.00	$ 0.00
207933	LORD #1	1979/jul/19	2016/jul/19	2017/jul/19	365	500.00	$ 2500.00	$ 0.00
358595	MICHELE	1997/aug/15	2014/dec/29	2015/dec/29	365	500.00	$ 5000.00	$ 0.00
208501	LORD #5	1988/sep/02	2016/sep/02	2017/sep/02	365	100.00	$ 1000.00	$ 0.00
209473	HI #4	1965/may/03	2014/may/03	2015/may/03	365	25.00	$ 125.00	$ 0.00
209470	HI #1	1965/may/03	2014/may/03	2015/may/03	365	25.00	$ 125.00	$ 0.00
510770		2005/apr/14	2014/dec/29	2015/dec/29	365	405.90	$ 4059.04	$ 0.00
510824		2005/apr/15	2015/aug/15	2016/aug/15	366	81.22	$ 812.18	$ 0.00
514566		2005/jun/15	2014/dec/29	2015/dec/29	365	426.34	$ 4263.43	$ 0.00
514569		2005/jun/15	2014/dec/29	2015/dec/29	365	405.84	$ 4058.44	$ 0.00
514689		2005/jun/17	2014/dec/29	2015/dec/29	365	385.62	$ 3856.17	$ 0.00
514694		2005/jun/17	2015/aug/24	2016/aug/24	366	101.51	$ 1015.09	$ 0.00
569613	2 FRACTIONS	2007/nov/07	2013/nov/07	2015/nov/07	730	40.60	$ 406.05	$ 0.00
569614	SUMMITFR.	2007/nov/07	2014/nov/07	2015/nov/07	365	20.30	$ 101.51	$ 0.00
588742	HAMILTON #2	2008/jul/22	2015/mar/08	2016/mar/08	366	405.80	$ 2029.01	$ 0.00
605792	RIDGEFR	2009/jun/10	2014/jun/10	2015/jun/10	365	60.91	$ 304.54	$ 0.00
922489	ESLOPE	2011/oct/24	2013/oct/24	2015/oct/24	730	20.30	$ 304.52	$ 0.00
947609	ADJACENT	2012/feb/09	2014/feb/09	2015/feb/09	365	507.94	$ 2539.69	$ 0.00

514699		2005/jun/17	2014/dec/29	2015/dec/29	365	81.21	$ 812.13	$ 0.00
553960	TILL	2007/mar/09	2016/mar/09	2017/mar/09	365	467.03	$ 2335.15	$ 0.00
514556		2005/jun/15	2013/dec/29	2014/dec/29	365	365.58	$ 1827.89	$ 0.00
510763		2005/apr/14	2014/dec/29	2015/dec/29	365	689.52	$ 6895.17	$ 0.00

Financial Summary:

Total applied work value:$ 52120.01

PAC name: ZELON CHEMICALS
Debited PAC amount: $ 12320.01
Credited PAC amount: $ 0.0

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

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The event was successfully saved.

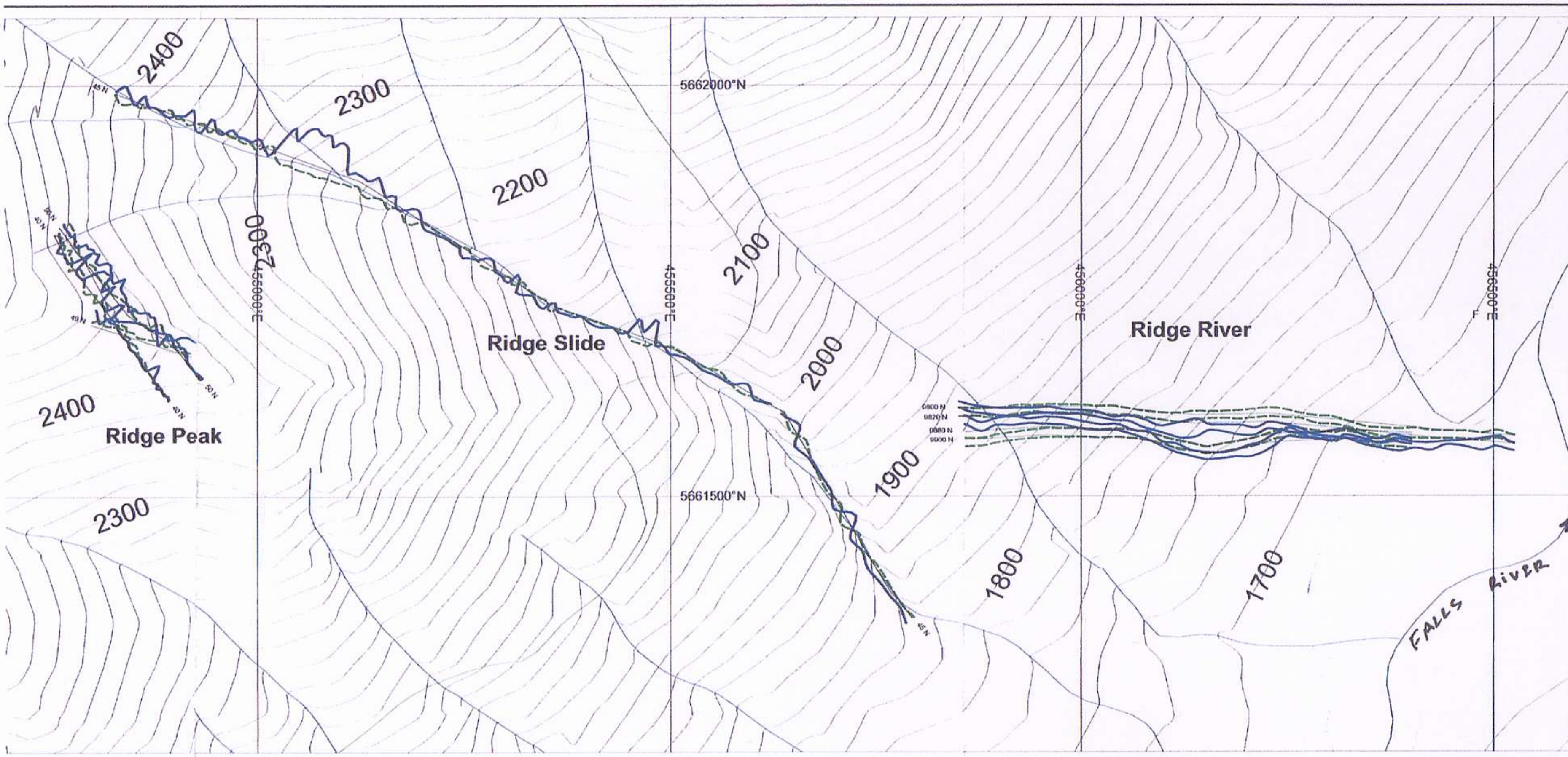
Click here to return to the Main Menu.

-75-

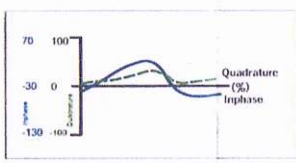
Pellaire road maintenance

PFR-5

-77-

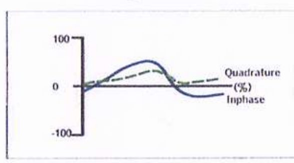


Ridge Peak



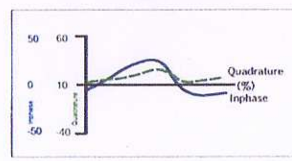
Cutler

Ridge Slide



Cutler

Ridge River



Seattle

UTM Coordinate System: NAD83, Zone 10N

Field Surveys - Magnetics, Vlf-em

Map Scale 1:5,000

fig 8A

SJ Geophysics Ltd.
S.J.V. Consultants Ltd.

Galore Resources Inc.
Taseko Lakes Project
Clinton Mining Division NTS: 92 O/4E, 92 O/3W

Twin Creeks Area

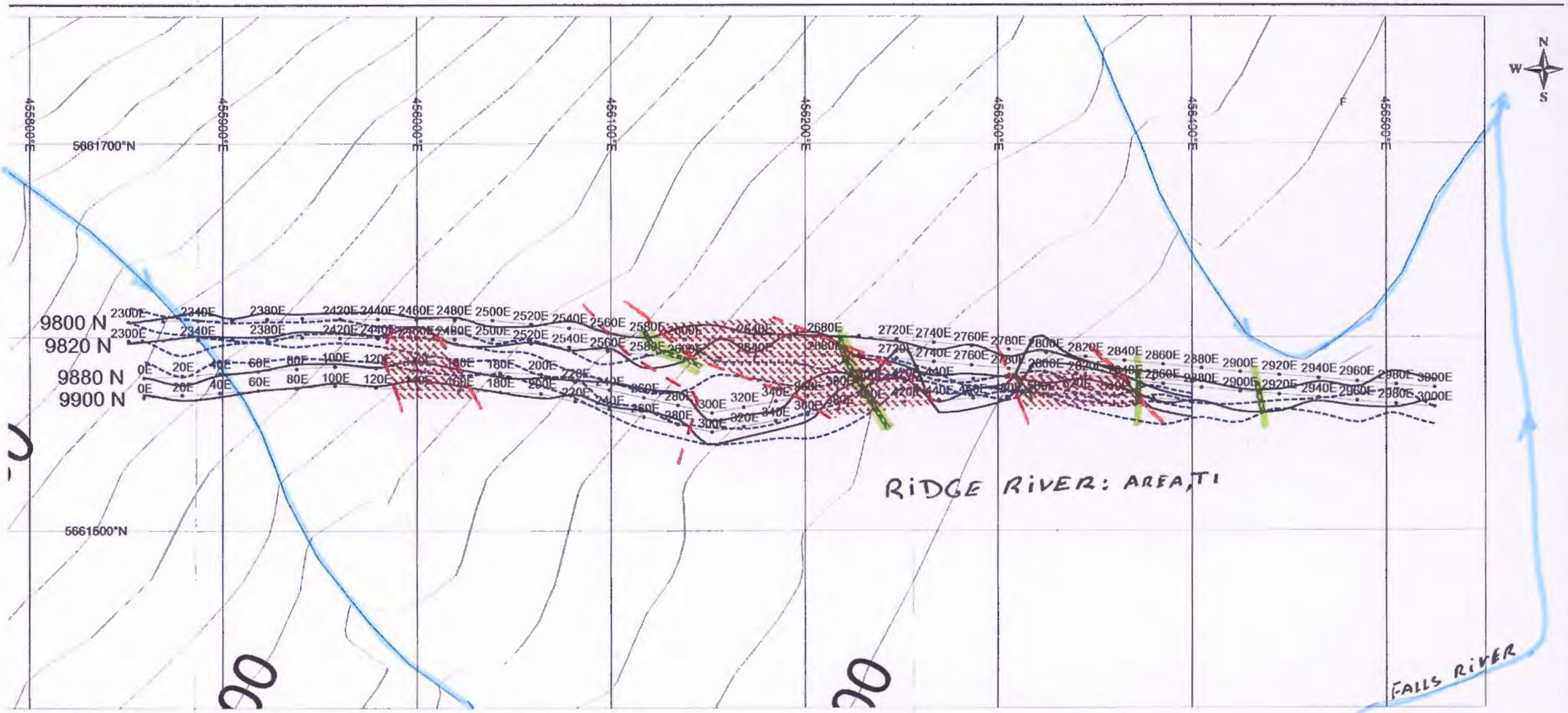
Ridge-Peak, Ridge-Slide, Ridge-River

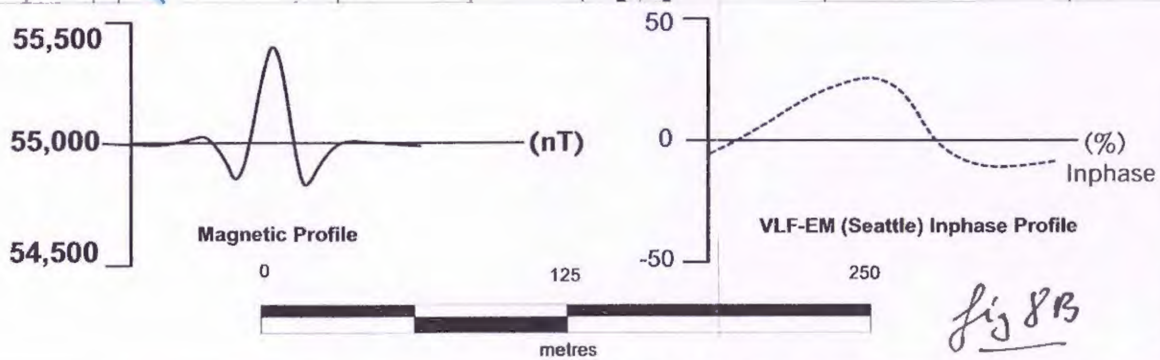
VLF-EM Inphase, Quadrature
Stacked Profile Map

Date: October, 2005

Plate: (

FALLS RIVER AREA:T1, Geophysics.





UTM Coordinate System: NAD83, Zone 10N

Field Surveys - Magnetics, Vlf-em

Map Scale 1:2,000

Interpretation Legend

- Magnetic defined contact
- Magnetic High
- VLF-EM conductor

SJ Geophysics Ltd.
S.J.V. Consultants Ltd.

fig 8B

Galore Resources Inc.
Taseko Lakes Project
Clinton Mining Division NTS: 92 O/4E, 92 O/3W

Twin Creeks Area

Ridge-River Grid

Stacked Profiles (mag, vlf-em)

Interpretation

Date: October, 2005 Plate: (

FALLS RIVER, SLIDE AREA, T1 : Geophysics.

PROJECT: Falls River | ZELON | DATE: Oct 24, 2012
NTS: 920 | SAMPLER: D.H.

SAMPLE NO.	TYPE	pH	T °C	cm DEPTH	ORIG.	COLOR	TEXT	HOR.		NOTES
617-M80	1	Boulder		150	3-6	3-1	2-a	13-B2	911 m SW of WP608	
617-MA0	R	field		150	3-6	3-1	3-b	400 m NW of Falls River		
618-M80	1	Edge of		150	3-6	5-1	2-a	B2	200 m SW of WP617	
618-MA0	R	Slide		150	3-6	3-1	3-b			50% Rocks. G.D.
619-M80	1			150	3-6	3-1	2-a	B2	110 m SW of WP618	
619-MA0	R			150	3-6	3-2	3-b			40% Rock. Mixed Soil
620	R.	Flats. no soils - slide.								
621 M80	1	Sandy		150	3-6	3-2	3-a	B2	5 m N of WP608	
621 M40	R			150	3-6	3-1	3-b			
622 M80	1	Drainage		150	1-6	3-2	2-b	B2	15 m W of WP621	
622 M40	R			150	1-6	3-2	3-b			

GEOCHEMICAL DATA SHEET

PROJECT: Falls River | ZELON | DATE: Oct 25, 2012
NTS: 920 | SAMPLER: G. Pierce

SAMPLE NO.	TYPE	pH	T °C	DEPTH	ORIG.	COLOR	TEXT	HOR.		NOTES
623 M80	1	Peat		20	1-6	3-2	2-b	13-3	150 m SE to Falls River	
623 MA0	R	Below		20	1-6	3-2	2-c	13-3	overflow Ditch. 0.7 m dee	
624 M80	1	Below Peat		50	3-6	3-2	1-a	B2	30 m above WP623	
624 MA0	R			50	3-6	3-2	3-a			
625 M80	1	upstream		50	3-6	3-1	3-a	B2	50 m above WP 624	
625 MA0	R	upstream		50	3-6	3-2	3-b.		133 m fm Falls River	
626 M80	1	Drainage		50	3-6	3-1	2-b	B2	200 m fm Falls River	
626 MA0	R	Dry.		50	3-8	3-2	3-b			
627 M80	1			50	3-6	3-2	2-b	B2	[illegible] m N	
627 MA0	R	Peat		50	3-6	3-2	3-b			

GEOCHEMICAL DATA SHEET

PROJECT: FALLS R.
NTS: 92 O

ZELON

DATE: Oct 25, 2012
SAMPLER:

SAMPLE NO.	TYPE	pH	T °C	DEPTH	ORIG.	COLOR	TEXT	HOR.		NOTES
628M80	1	under Peat		50	3-6	3-2	4-a.	C	80m	~~SE~~ of WP627
628 M 40	R	Rocks-Gravels		50	3-6	3-3	A-b	.	Next	to WP625
630 M80	1	River Bank		50	A	3-1	4-a	3	11om	fr WP629
630 M 40	R	Gravel		50	4	3-2	4-b	3		
631 M80	1	River Bank		50	4	3-2	2-a	3	80 m	Down st fr WP 630
631 M 40	R	gravel		50	4	3-2	2-b	3		
632 M80	1	River Bank		60	4	3-2	2-a	3	200m	Down Stream from
632 M40	R	gravel		60	4	3-2	2-b	3		WP631
633.M80	1	River Bank		50	4	5-3	3-a	C	150m	Down st WP632
633 M 40	R	gravel		50	4	5-1	3-b	C		

GEOCHEMICAL DATA SHEET

PROJECT: FALLS R
NTS: 92O

ZELON

DATE: October 26, 2012
SAMPLER: D.H.

SAMPLE NO.	TYPE	pH	T °C	DEPTH	ORIG.	COLOR	TEXT	HOR.		NOTES
634 M80	1	Bank		60	6	2-2	3-a	10m	West of	Falls River Bank
634MA0	R	gravels		60	6	2-1	3-b	~~[illegible]~~	~~[illegible]~~	
635M80	1	Drainage		40	1	5-2	2-a	C	10m	of WP613
635 M 40	R	Rocky		40	1	5-1	3-b	C		
636 M80	1	Bank		50	2	3-1	3-a	10m	above	635 upslope
636 M 40	R	Rocky		50	2	3-2	3-b	C		
637 M80	1			50	1	3-2	3-a	10m	fr	WP 636 in gully
637 M40	R	Rocky		50	1	3-2	3-b	C		
638 M80	1			50	1	3-2	3-a	10m	fr	WP637 in gully
638 M40	R	Rocky		50	1	3-2	3-b.	C		

GEOCHEMICAL DATA SHEET

PROJECT: Falls Basin
NTS: 93O

ZELON

DATE: October 26, 2012
SAMPLER: D.H.

SAMPLE NO.	TYPE	pH	T °C	DEPTH cm	ORIG.	COLOR	TEXT	HOR.		NOTES
639 M80	1			50	3	3-b	2-a	10 m from WP638		
639 M40	R	Rocky		50	3	3-a	3-b	B-C		
640 M80	1			50	3	5-a	3-a	10 meters from WP639		
640 M40	R	Rocky		50	3	3-c	3-b	B-C		
641 M80	1			60	4	4-2	3-a	20 m from WP640		
641 M40	R	Rocky		60	4	4-2	3-b	BC		
642 M80	1	Flat Bench		60	4	3-b	2-a	10 m Down from WP641		
642 M40	R	Rocky		60	4	3-a	3-b	B-C		
643 M80	1			80	3	5-b	2-a	30 meters E on Bench.		
643 M40	R	Rocky		80	3	5-b	3-b	B-C		
644 M80	1	Flat. Bench		60	4	3-b	2-a	10 meters S of WP612		

GEOCHEMICAL DATA SHEET

PROJECT: Falls Basin
NTS: 93O

ZELON

DATE: October 27, 2012
SAMPLER: G.P.

SAMPLE NO.	TYPE	pH	T °C	DEPTH cm	ORIG.	COLOR	TEXT	HOR.		NOTES
644 M40	R	Rocky		60	4	3-a	3-b	B-C		
645 M80	1	Flat		60	4	3-b	2-a	10 meters from WP644		
645 M40	R	Bench.		60	4	3-a	3-b	BC		
646 M80	1			60	3	3-a	2-a	10 meters from WP613		
646 M40	R	Rocky		60	3	3-b	3-b	B-C		
647 M80	1	Peat Moss		60	3	3-a	2-a	15 m from WP613		
647 M40	R	Rocky		60	3	3-b	3-b	BC		
648 M80	1	Bench		50	3	2-a	2-a	7 meters E of WP613.		
648 M40	R	Rocky		50	3	3-b	3-b	BC		
649 M80	1	Bench		50	6	3-b	2-a			
649 M40	R	Rocky		50	6	3-b	3-b	BC.		

F-3

ZELON GEOCHEMICAL DATA CODE

1. Sample No PV.JH 321: Sample location is represented by digits 321.

2. TYPE of sample:
   1. St - Silt
   2. So - Soil
   3. Ba - Bank
   4. Pa - Paleosoil
   5. Gr - Ground rock
   6. R - Rock
   7. V - Vegetation
   8. Rt - Roots
   9. Le - Leaves
   10. Sg - Spring mud
   11. Se - Seepage mud
   12. Lc - Lake sediment
   13. Pd - Pond
   14. Wi - Water-ice
   15. Pl - Plankton

7. Colour:

1.	Black	6.	Purple
2.	Grey	7.	Green
3.	Brown	8.	Yellow
4.	Ochre	9.	Orange
5.	Red	10.	White

Tone:
1. Light
2. Medium
3. Dark

8. TEXTURE:

1.	Clays	a.	Fine
2.	Silt	b.	Medium
3.	Sand(1/16-2mm)	c.	Coarse
4.	Pebble(2-64mm)	d.	Suspension
5.	Loam	e.	Precipitate
6.	Ooze only	f.	Gel
7.	Ooze & inorg	g.	Pigment
8.	Inorganic only	h.	Nodule
9.	Wood, Fiber	i.	Root org
10.	Carbonatite	j.	Caliche
11.	Skeletal soil	k.	Bleached

10. Soil Order:
   1. Chernozemic
      base saturation, cations (2)
   2. Solonetzic
      "B" & "C" saline, Ca/Na=-10
   3. Luvisolic
      imperfectly drained
   4. Podzolic
      under mixed forest Veg
   5. Brunisolic
      good oxidizing forest floor
   6. Regosolic
      oxidizing weak horizon, Ah
   7. Gleysolic
      reducing,saturated with water

3. Ph read to 1/10 of one unit.

4. Temperature recorded after 60s.

5. Depth in meters or feet.

6. ORIGIN:
   1. St - Stream sediment
   2. Sl - slope
   3. T - Talus
   4. Bk - Bank
   5. Ri - Ridge
   6. Af - Alluvial fan
   7. Sg - Spring
   8. Se - Seepage
   9. La - Lake, cirque
   10. Sw - Swamp
   11. Wa - Wash, pediment
   12. Pl - Playa, dry lake
   13. Gp - Grass playa
   14. Aq - Aquifer, well
   15. Pf - Permafrost
   16. Tf - Tundra
   17. Bf - Boreal forest
   18. Sv - Sea vegetation
   19. Ss - Sea sediment
   20. Gl - Gulley

9. HORIZON:
   1. Lh - Semidecomposed organic
   2. Ae - Sandy loam
   3. Al - Top of first layer
   4. Om - Decomposed layer
   5. Oh - Highly decomposed
   6. B1 - Second layer top
   7. B2 - Second layer bottom
   8. Bi - Inceptisol, tropical B1
   9. Ba - Altigol, tropical B2
   10. Ap - Cultivation, pasture
   11. AB - Interface of A & B
   12. Fm - Fibrous moss
   13. Pf - Peat fiber
   14. BC - Interface of B & C
   15. C - Third layer mixed soil & rocks
   16. Cs - Saprolite, tropical C
   17. Sh - Volcanic ash
   18. Pa - Paleo-horizon
   19. Cca.- Caliche
   20. De - Detrital
   21. Si - Swamp interface
   22. Tr - Transported
   23. R - Bedrock

FL