

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

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT (type of survey(s)) Geochemical (rock, silt, twigs) and geological (mapping + prospect) TOTAL COST 2650.00
AUTHOR(S) MIKKEL SCHAU SIGNATURE(S) Mikkel Schau

NOTICE OF WORK PERMIT NUMBER(S) NA YEAR OF WORK 2010

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S) 4471170, Feb 18 2010

PROPERTY NAME "LEJNE"

CLAIM NAME(S) (on which work was done) 509556

COMMODITIES SOUGHT Cu

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 092L-165

MINING DIVISION Nanaimo NTS 092L

LATITUDE 50° 16' 48" LONGITUDE 126° 0' 3" * (at centre of work)

OWNER(S)

1) Mikkel Schau

2) _____

MAILING ADDRESS

1007 Barkway Tce
Brentwood Bay

OPERATOR(S) (who paid for the work)

1) Mikkel Schau

2) _____

MAILING ADDRESS

as above

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

Vancouver Group, basalt, Tertiary, Fault, Fault breccia, vein
propylite, b+cpy,

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS

1993, 3235, 3403
22409, 23906, 27745, 28327, 28927

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED
-----------------------------	----------------------------------	-----------------	---------------------------

Ground, mapping 1.5 ha 509 556 300⁰⁰

Photo interpretation

Magnetic

Electromagnetic

Induced Polarization

Radiometric

Seismic

Other

Airborne

Soil

Silt 1 CP MS / Acme 12 509 556 550⁰⁰

Rock 1 CP MS / Acme 15 509 556 800⁰⁰

Other twigs / Act labels 14 509 556 800⁰⁰

Core

Non core

Sampling/assaying

Petrographic

Mineralographic

Metallurgic

PROSPECTING (scale, area) 1 1/2 ha 200⁰⁰

Line/grid (kilometres)

(scale, area)

Legal surveys (scale, area)

Road, local access (kilometres)/trail

Trench (metres)

Underground dev. (metres)

Other

Geochemical and geological studies

on
the

BC Geological Survey
Assessment Report
31516

KLEJNE CLAIMS

Tenure 509556

Centered at 50.28 N and 126.05 W in 092L08 (092L030)

Nanaimo Mining District

for

Mikkel Schau

by

Mikkel Schau, P.Geol.

February 19, 2010

Submitted May 17, 2010

SUMMARY

The Klejne claims (tenure 509556 cover some 165.19 ha including minfile 092L-165, a well known copper vein prospect which opened up prospecting in this area in the sixties.

Early work indicated localized geophysical responses and strong geochemical anomalies at Boyes Creek.. In 1972 several trenches provided a crude guide to the size of the deposit. The prospect has never been drilled. Later work in general area focused on other showings; not in claimed area.

The area was staked in 2004, pre MTO, and was expanded during the conversion to cells. The area has been held since then.

New work this year, includes stream sampling, float sampling and in situ lithochemical sampling as well as a biogeochemical orientation sampling program.

The principal positive result of this season is the reaffirmation of the presence of bornite and chalcopyrite in small veinlets in altered "greenstone".. Lithochemistry of an in situ sample is shown below.(ICP-MS)

Sample number	Cu, in ppm	Ag, in ppb	As, in ppm	Au, in ppb
006512	1259	535	0.5	29.4

The results from the silt study confirm the anomalous nature of Boyes Creek with silt samples returning values .

An orange sized gossany massive pyrite float sample from Boyes Creek and an angular rip-up fragment of a 10 cm wide pyrite vein were found to be barren.

The geological map should be modified slightly, based on abundant angular debris and local subcrops to show that local granodiorite and Parsons Bay Formation are found to straddle the west side of the Adam River in this particular region.

The biogeochemistry showed that western hemlock twigs from trees in vicinity of Boyes Creek are not markedly different to trees from vicinity of neighboring streams. A new area has been located for further work near Adam river in southern part of claim. Twigs from here return anomalous values 3 times background.

Table of Contents

SUMMARY.....	2
Introduction.....	4
Property location, access and title.....	4
Previous work.....	4
Summary of work done.....	5
Detailed data and interpretation.....	6
Purpose.....	6
General surficial geology.....	6
Regional Geology.....	6
Geology.....	6
Regional Geophysics.....	9
Property geology.....	10
Surficial geology.....	10
Bedrock geology.....	10
Mineralization.....	10
Detailed sampling results.....	11
New results.....	11
Lithochemistry of In situ rocks.....	11
Lithochemistry of Float and rip-ups.....	11
Lithochemistry of Stream silt.....	11
Biogeochemistry (western hemlock twigs).....	12
Test of Water pH.....	13
Comparison of assay results.....	13
Interpretations.....	13
Conclusions.....	13
Recommendations for future work.....	14
References.....	15
Author's qualifications.....	17
Itemized cost statement.....	18
Appendix A; specimen descriptions and table of selected assay values.....	19
Figures.....	29
Appendix B: certificate of assays.....	39

Introduction

The Klejne claim overlies the Boyes Creek minfile, a Minfile Prospect (092L165), along the western side of the Adam river, south of highway 19, on northern Vancouver island. It was first staked in the early sixties after systematic logging opened up the area again. The current claim was staked in 2004 before MTO and enough work to maintain title has been conducted since then.

The mineralization is in vein(s) and locally reaches high grades. Ongoing work is attempting to enlarge the region recognized as mineralized.

Property location, access and title

Klejne claims can be reached from Highway 19 by turning south on logging road Upper Adam 106, just west of Keta Lake (near 240 km marker). The logging road, which runs west of the Adam River, is reasonably well maintained until the southern edge of the claim is reached. Here a major bridge has been washed out, and the road is impassable to motorized travel beyond this point (Figure 1 and 2)

The claim is a conversion from two two-poster claims first claimed in 2004 and covers five cells.

Claim name	tenure	area covered	good until
"Klejne"	509556	165.19 ha.	Feb. 19, 2012

The new due date derived from the work done herein is given above.

Previous work

Prospecting work has been carried out in the general Adam River region for about a century. The ground was prospected for silver and gold in the first quarter of the century and showings of copper and gold veins were reported. A short distance south of the claim, and in the same geological context, a showing (Lucky Jim) of a contact deposit with copper (5.92%), silver (1.8 opt) and gold (.9 opt) has been described as early as 1918 (page K270, 1918 BC Minister of Mines Report).

Logging opened up the area in the 60's and regional prospecting campaigns located scattered copper rich showings. A large block was staked in 1965 by W.R. Boyes, and was taken over shortly thereafter by Western Standard Silver Mines. Early grab samples included 26.26% copper over 1 ft (30 cm) and gold up to 0.78 oz/t over 2 ft (60 cm). (cited in Leriche 1995)

AR 1993, commissioned by Bethlehem Copper Corporation, and carried out by W.M. Sharp, P.Eng., in 1969 sketched in the regional geology of a large area, some of which includes the area currently claimed. He noted the presence of a large NW trending granodiorite pluton emplaced in a sequence of Karmutsen "basalt-andesites" and the Quatsino Limestone. He noted that much mineralization of the area

is mainly in veins. The report focused on the Boyes Creek occurrence (minfile 092L-165) and adjacent showings (092L-166,7 and 8). The geological framework presented by Mr. Sharp has not changed substantially.

In 1971, Conoco Silver Mines Ltd. reported results of a soil geochemistry campaign (AR3235). Conoco Silver Ltd. also reported results of an IP survey over the Boyes Creek showing concluding that a multi-parameter anomalous zone occurred some 20 to 100 ft below the surface near the showing (AR 03403).

In 1974 the GSC published a map of the area (Mueller et al, 1974) that generally follows the geology determined by previous consultants. Quatsino limestone was shown as less widely spread than indicated by Sheppard's mapping (see above).

AR22409 commissioned by West Pride Industries provides the most complete compilation of the geology and previous work; it concluded in part, that for the Klejne region there were areas of interest that had not been adequately tested.

AR23906 commissioned by Lucky Break Gold provides additional geophysical information in the general Klejne area.

A geological compilation of area in digital form (Massey, 1994, 2005) contains contacts assembled in part from previous assessment reports.

The author has been active in the Adam River area since 2000 and several prospectors grant reports and assessment reports have been filed. They document location of several newly located mineralized showings, possibly all part of a single large hydrothermal system (see AR 27745, 28327, 28927).

Thus, work to date has shown sporadic and widespread mineralization of copper and silver with occasional gold values that occurs in veins, amygdales and shears in basaltic country rock adjacent to a large granodiorite batholith. The country rock is part of the Karmutsen Formation comprising mainly feldspar-phyric basalt, as amygdaloidal or massive flows, or as thin sills with intercalated with minor beds of limestone and associated clastics, overlain by thicker beds of Quatsino limestone and Parson's Bay Formation. New roads have exposed new subcrops and the area under discussion is mainly underlain by Karmutsen Formation.

Summary of work done

Prospecting and local mapping

Analytical Work

Acme

12 Silt ICP-MS, 15 gm, 37 elements (job VAN10000958-2)

15 Rock ICP-MS, 15 gm, 37 elements (job VAN10000953)

Actlabs

14 Western Hemlock twigs (invoice a10-1422)

Detailed data and interpretation

Purpose

The purpose of this work is to confirm previous previously located mineralization and to enlarge area of interest. Prospecting, mapping, stream sampling and biogeochemical sampling are the means whereby this task was carried out.

General surficial geology

The Kringle-Consolidated Claim group straddles the north-north west flowing Adam River south of its confluence with Eve River. The river runs in a typical U shaped valley, between tall hills trending roughly the same north-northwesterly direction. Local areas of till have been noted in lower areas where road construction has laid it bare. At least three different terraces along the shores of the river indicate that the river has had a complex geomorphic history. The river is currently incising its course through thick, earlier river and till deposits. Bedrock occurs sporadically in the river bottom.

The river largely follows the outcrop trend of the Quatsino Limestone. Adjacent creeks seem to occupy north or northwest trending high strain/fault zones. The hills are variably covered with colluvium which overlie thin till deposits; only where logging roads expose subcrops, or in outcrops on cliff faces and/or steep sided valleys are bedrock visible.

The surficial geology is complex. Thin till cover less than a meter is locally recognized, as are local stream derived sediments from local deltas. The main unit is colluvium, consisting of detritus from the neighboring hills. Some of the boulders may be meter sized and landslide area are common.

Regional Geology

Geology

Contacts between country rock and batholith are possible regions of metal concentrations. Basalts of the Karmutsen Formation, limestones of the Quatsino Formation and slivers of the Parson Bay Formation are deformed, metamorphosed and metasomatized in the locally sulphidized contact of the Adam River Batholith (See figure 3).

Units

Vancouver Group

The units are generally as described by Massey (1994, 2005) but many lithological details are taken from Carlisle (1972). Greene has published details of the petrology of the basalts (Greene et al, 2006, 2007, 2009) and Nixon has published maps and descriptions of these units to the west (Nixon et al, 2007).

The Vancouver Group (Karmutsen, Quatsino, and Parson Bay Formations) underlies much of the region of the claims.

The Karmutsen Formation (or “subgroup” of Carlisle, 1972) is a low potash tholeiite basalt mass of remarkably consistent structure and thickness that constitutes the lower third of the Vancouver Group in this area.

The lower 2500 to 3000 m. consists of classical closely packed pillow lava. At the top magnesian basalts are seen (Keogh Picrites, Greene, 2007)

The next 600 to 1000m consist of pillow breccia and aquagene tuff, typically with unsorted beds ½ to 2 m thick in the lower half.

The upper 3000m is composed of meter to decimeter thick both amygdaloidal and non-amygdaloidal basalt flows; Local beds are zoned with amygdular tops and massive cores. Some flows locally show possible pahoehoe structures in well exposed locations. Very little interflow material has been located, indicating a lack of deep weathering between the eruption of the flows. In the upper third of the unit, thin, intercalated sporadic and commonly incomplete sequences of 3 to 20 m thick consisting of discontinuous bioclastic, micritic, cherty or tuffaceous limestone which are locally overlain by closely packed pillows, which are in turn overlain by pillow breccia and then, thick massive flows.

The structure of the unit is marked by gently folded and locally severely faulted areas. The folding is part of a regional shallowly north plunging antiform. The distribution of units also suggest east trending folds of small amplitude. The faults and well developed linears trend north and north westerly directions as well as easterly directions and separate large panels of gently dipping lavas. Slickenlines indicate that the preserved (latest?) directions of slip are largely transverse.

The volcanic rocks have been regionally metamorphosed into upper zeolite ranging upward into lower greenschist grades. Albitized feldspars, amygdules and veins of pumpellyite, prehnite, epidote, calcite, and chlorite are widely noted. Adjacent to contacts with later intrusives, higher grade amphibolite bearing assemblages are more common.

Considerable regional variation is shown on aeromagnetic map, including local positive anomalies, within the area underlain by the Karmutsen, indicating that magnetite concentrations of the volcanic rocks are not uniform and/or area is underlain by highly magnetic bodies. It would appear that the northwest trending aeromagnetic anomaly crosses the regional north north east dip of the basalts. Recently it has been demonstrated that more magnesian members are much less likely to be magnetic.

The Quatzino Formation is a thin ribbon traversing the country in a north-northwest direction, to the northeast of the Karmutsen Formation. Regionally, it is seen to stratigraphically overlie the Karmutsen, and is known to vary in thickness from as much as 500 m to the west near Alice Lake to a thinner 150 m or so further east. In the Adam River area it is a distinct, easily recognizable unit, but the thickness is in doubt, because where best exposed it is in a ductilely deformed contact with the granodiorite. The Adam River follows part of its outcrop pattern.

The formation consists of grey limestone beds. Where undeformed it is a coarsely bioclastic, light grey, indistinctly bedded and non fissile (Carlisle, 1972). Where deformed near plutons it becomes a light grey, finely recrystallized limestone. Fossils indicate that the Quatsino Formation is upper Triassic in age (mainly Karnian, perhaps partly lower Norian (Muller et al, 1974, Nixon, 2007).

The expected negative aeromagnetic signature is poorly defined on large scale geophysical maps shown on MapPlace although the limestone is not magnetic. More detailed aeromagnetic surveys are necessary to delineate in detail, the outcrop pattern.

The Parson Bay Formation is considered to overlie the Quatsino Limestone. According to Carlisle, 1972, it is characterized by thinly laminated alternating fissile and non fissile black carbonaceous limestone with extremely fine grained siliceous matrix. Small slivers were recognized along the contact with the pluton, mainly northwest of Keta Lake, but it seems to disappear to the northwest, as the Adam Lake Pluton cuts through the unit to impinge directly on the Quatsino further to the northwest. Other outcrops are located in the vicinity of Tlowils Lake. It is likely that some of the silty reaction skarns intercalated with black

limestone noted on the property, north of the 250km marker represent some thin relic thin lenses of Parson Bay Formation recently recognized along the western flank of the Adam River Batholith.

Jurassic Intrusives

Jurassic granodiorite to diorite underlies the area to the east-northeast of the Adam River. It has been called the Adam River Batholith (Carson, 1973, Muller, et al, 1974). It is about 4 km wide and trends northwesterly in excess of 10km.

It consists mainly of mesozonal granodiorite. Rocks studied are mainly medium to fine grained biotite hornblende granodiorite and quartz diorite with a locally elevated content of mafic minerals. In thin section, pyroxene cores to amphibole grains are noted. Local veining of darker phases by lighter more feldspathic phases are common. At contacts the volcanic rock inclusions are transformed into dioritic inclusions and limestones become skarn and marble rafts.

Carson (1973), suggested that the Adam River was emplaced as a sill, along the Quatsino Formation horizon. He suggested that the sill was shaped as a gentle syncline and figured the geology in the general Adam River area on his Fig. 15 (Carson, op cit). An anticline has been postulated to the west currently expressed at surface by the Karmutsen Formation. The sense of movement of a synkinematic sill would be upper units to move away from the synclinal core. That would predict an east over west component in folds and faults. Continued examination of this hypothesis over ten years of field work by this author has resulted in it being *rejected*. The intrusive contact is vertical and crosscuts units, cross cutting the Parsons Bay Formation in the vicinity of Keta and Tlowils Lakes and intruding the underlying Quatsino further to the northwest. The Karmutsen Formation across the Adam River to the west, has dips that are directed to the north-north-east and would be expected to young in that direction. Instead they seem to be structurally thickened by cross faults. The younger Quatsino and Parsons Bay Formations rocks are found adjacent to (ie along strike length) and in probably fault contact with a thick section of basalt, and the predicted Quatsino and Parsons Bay Formations have not been located at the top of the dipping basalts to the north as mentioned above.

Instead, given that an apophyses of granodiorite crosses the Adam River (and the Quatsino limestone), and is emplaced in the Karmutsen, it seems highly likely that the Batholith was intruded along a pre-existing north westerly directed steep fault between the Karmutsen Formation to the west and the younger Quatsino limestone and Parson Bay to the east.

K-Ar dates of 160 Ma. on Hornblende and 155 Ma. on biotite from a quartz diorite of this batholith confirm the mid Jurassic age and suggest it to be intruded contemporaneously with the deposition of the andesitic volcanic Bonanza Group (which is well displayed to the west, near Bonanza and Nimpkish lake.

Contacts are known to be hornfelsed for short distances, with local skarnification near and in limestone beds. Locally, as near 250 km marker on Highway 19, ore skarns are well exposed, as they are a km north, . Orientations are steep and complex at the contact. There is much evidence that the Karmutsen is in fault contact with the overlying Quatsino Limestone, and not in a simple stratigraphic relationship.

The high concentrations of magnetite in these I-type intrusions are well reflected in the regional positive aeromagnetic anomalies over these plutons.

Felsic dykes

Based on very preliminary field evidence, supported in part by prior observations made by Carlisle (1972) in adjacent areas, there appears to be at least three sets of granitoid dykes in area. The dykes observed so far, are near the intrusive contact of the main pluton.

From oldest to youngest they are:

Feldspar Porphyry “folded into tight folds” may predate the main plutonic mass. Deformed, and argillically altered and mineralized porphyries (locally brecciated). and later “fresh” Feldspar and Hornblende porphyries with planar or irregular contacts.

In the northern part of the claim group late basaltic dykes (diabase) cut metamorphosed basalts and are metamorphosed themselves.

Regional structures

The area of interest lies within the shallow east north east dipping homocline of Triassic rocks and the Adam River Batholith, called by Muller et al (1974), the White River Block. It is bounded to the west by a major fault, the north northwest trending Eve River Fault. To the north the Johnson Strait Fault terminates the block, the eastern and southern borders are faults on adjacent map sheets. The faults in the claimed area are sub parallel to the border faults, or are second or third order subsidiaries of it. It is thought that these faults contain a large normal component but a dextral transverse component is often mentioned in reports and shown in outcrop as sub horizontal slickenlines.

Dip directions of the massive basalt flows within each fault panel differ somewhat suggesting some jostling of fault blocks. The majority of dips of flow tops and intercalated bedding recorded by the author are more northerly than easterly. The area is more structurally complex than implied by a simple homocline, since the regional structure predicts that the youngest rocks should be to the north, instead, the Parsons Bay Formation (the youngest in this sequence) in this area, are found near Keta Lake, or far southeast of where they would be expected, in a simpler structural milieu.

Apparently, along the Adam River, a fault post dates the pluton, probably with strike slip motion; but which was probably long lived, since it seems that it also predates the pluton as well, with a sense of west side up. West of the pluton, the younging in the Karmutsen is to the east northeast. On the east side of the Adam River pluton the younging is to the south, implying an east west trending syncline.

As noted above, the intrusive rocks were probably emplaced along prior faults in the vicinity of the current course of the Adam River. These are faults that are parallel to the length of the Cordillera, hence are called orogen parallel faults. This type of faulting plays a large role in localizing some mineral deposit in other places in the world, notably Chile. It is highly likely that these faults have stayed active during later transverse faulting episodes.

The region is noted for copper bearing veins and have been described as “copper veins in basalts” by Sussing (193?). Muller et al.(1974) repeat this categorization and assigns the showings in the vicinity of the claims to his category C; “veins in basalts”. Minfiles in the general area include 092L-163, 170, 249, 222, 165, 166, 167, and 168.

Regional Geophysics

The magnetic character of the Adam River Batholith is well expressed on regional aeromagnetic maps. Of some interest is a magnetic domain of similar magnitude seemingly located over Karmutsen Basalts. The contact, between the magnetic batholithic rocks and the non magnetic limestone is not well defined on the low resolution aeromagnetic map. Instead a sharp magnetic boundary is located several km to the west separating non magnetic basalt from magnetic basalt. The boundary is not parallel with strikes and dips determined for the basalts, but cross cuts across them instead, to roughly parallel the contact of the Adam River pluton.

The regional Cu-Ag vein showings and prospects are located within in this anomalously magnetic region.

Property geology

Surficial geology

The Klejne claim mainly covers the western side of the Adam River covering easterly directed steams coming off the high ground made largely of bedrock.

The surficial geology is complex. Thin till cover less than a meter thick, is locally recognized, as are local stream derived sediments from local deltas. The main unit is colluvium, consisting of detritus from the neighboring hills. Some of the boulders may be meter sized and landslide area sare common.

The main hauling road is well built. Road metal has probably trucked in from nearby quarries. Areas near the river are locally composed of frost heaved bedrock.

Bedrock geology

The bedrock in the high hills is mainly feldspar phyric massive basalt of the Karmutsen Formation, although local lenses of hyaloclastic basalt are known Bedding is poorly defined but at least some flows appear to dip shallowly to the north east.

Areas in the valley, nearer the Adam river are underlain by frost heaved siliceous rocks, probably of the Parson's Bay formation and locally frost heaved Jurassic Island granodiorite. Across the river to the east well developed Parson's B ay Formation is known to crop out along the road

The structural relationship between the Parsons Bay formation and the Karmutsen Basalts is one of faulting. The Quatsino Limestone has not been recognized on the claim by the author and regionally a fault has been postulated along the north flowing course of the Adam River (Figure 3).

Mineralization is mainly found in faults and veins along 080, and at high angles to the above mentioned fault. Alteration is locally that of the Propylite type, indicating a more distal position to a central source of alteration.

Mineralization

The Boyes Creek showing (Minfile 092L-165) consists of a braided and sheeted fracture system striking 080 and dipping steeply to the south in amygdaloidal basalts containing stringers and disseminations of chalcopryrite, bornite and subordinate chalcocite and native copper. Thirteen hand dug trenches have exposed mineralization over 330 m length with widths ranging from .3 to 5 m in the past. The average of 11 representative samples from trenches is approximately 3.25% over 1.2 m. Gold has assayed up to 0.02 oz/t. Soils from two reconnaissance lines were found to be anomalous and indicate a 600 meter easterly strike continuation of the zone (Sharp 1965, Leriche, 1995).

The south showing (Minfile 092L-166) is a single exposure of of chalcopryrite and pyrite disseminated in a calcite and epidote breccia pod fortuitously exposed at the base of a water fall. A sample

across 1.6 m assayed 0.90% Cu and 0.02 oz/t gold (Leriche op cit)

A thin malachite wash over epidiosites located between the two minfiles was reported by author in 2004 (AR 27745)

Thin bornite carrying laminated quartz-calcite veins was reported in AR 28327 and 28927.

The above historical estimates do not meet 43-101 standards, and are offered only as indications of past motives for further exploration.

Detailed sampling results

New results

Lithochemistry of In situ rocks

6 specimens the details are shown on assay sheets in appendix B and locations on figure 4 and 5.

sample 006512 UTME 710398 UTMN 5573886 ELEV 345

KL10-RP02

Small amount of malachite, on surface, very fine grained sulphides recognized. Veins in locally purplish Karmutsen basalt bedrock, previously collected bo+cpy from veins in this area

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.17	1259	535	29.4	0.06	4.24	583	152	4.61
0.22	1284	609	35.6	0.07	4.58	578	172	4.7

Previously this locality has yielded values up to 0.6% Cu

Lithochemistry of Float and rip-ups

9 specimens the details are shown on assay sheets in appendix B and locations on figure 4 and 5.

Two rocks composed 50% or so of pyrite turned out to essentially barren.

The best copper result was from fragments of fault zone breccias

006516 UTME 710499 UTMN 5573236 ELEV 327 m

KL10-RF01

Local malachite stained chloritic fault breccia with silicic fragments

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.26	834	562	3.8	0.02	4.54	706	122	1.96

006518 UTME 710460 UTMN 5573593 ELEV 316 (11 satellites!)

KL10-RF03, near uphill side of bridge

rusty fault breccia with minor pyrite

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.43	676	129	6.2	0.03	3.14	423	118	1.35

Lithochemistry of Stream silt

9 specimens of stream silts were collected. the details are shown on assay sheets in appendix B and locations on Figure 6 and 7).

Streams with the highest Cu content are at Boyes Creek

KL10ST09 UTME 710417 UTMN 5574142 ELEV 349 m
006533

Boyes Creek, 10-12 m wide, deep good flow, med coarse, 10% org, 60% pebbles

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.30	142	239	3.1	0.07	6.29	10000+	251	1.73

Cu possibly elevated.

KL10ST10 UTME 710417 UTMN 5574142 ELEV 349 m
006533

Boyes Creek, 10-12 m wide, deep good flow, med coarse, 10% org, 60% pebbles, (split sample)

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.52	285	129	12.2	0.06	5.59	3851	185	1.73

Cu elevated.

Two gossany till/talus samples returned

KL10Talus1 UTME 710441 UTMN 5573683 ELEV 333
006535

Oxidized till/oxidized fine colluvium. From road cut

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.35	312	558	23.6	0.04	8.30	390	305	0.68

Cu elevated.

KL10Talus 2 UTME 710441 UTMN 5573683 ELEV 333
006536

Oxidized till/oxidized fine colluvium. From same road cut as above.

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.13	250	831	11.5	0.04	8.21	831	321	0.55

Cu elevated.

Biogeochemistry (western hemlock twigs)

13 specimens of twigs from Western Hemlock were samples. the details are shown on assay sheets in appendix B and 10 are located on figure 8 and 9(the other three samples are for reference only and are not within claims).

Significance of results:

One location far from any mineralization was analyzed 4 times and gave an estimate of a baseline as well as an estimate of expected level of variance of analysis. For Cu the baseline is about 80 ppm and an estimate of the standard deviation is about 5 ppm.

One location over known copper mineralization in a similar and nearby ecosystem (Puff) gave an indication that mineralization could be recognized. A value of 250 ppm Cu was returned

Many samples returned values similar to the baseline value. Others returned values possibly elevated or anomalous.

A sample

Sample KL10TR04, at UTME 710620, UTMN 5573043, ELEV 323 m at end of south east trending unused logging road off UA106 in southern part of claim
western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
1.3	232	0,6	0.23	4.59

Note Mn high, Cu high. probably indicating a nearby mineralized zone near the river in the southern part of the claim.

This is a potential target for further sampling

Test of Water pH

Strips of calibrated pH paper were submerged in stream waters for about 2 minutes. The purpose was to isolate streams with acid runoff.

Detailed results are shown in Appendix A. Generally the pH was between 4 and 5, values expected in normal rain water. These values probably resulted from the time of year the sampling took place (during a February snow melt episode). Until the values have been repeated in the fall, after a summer dryness, the results should be viewed with caution.

Comparison of assay results

Boyes Creek is known to be mineralized and carry anomalous silt samples.

Previously located mineralized locations yield anomalous results but somewhat smaller than previously realized

Float samples indicate local copper bearing samples of fault breccia are present in southern part of claims as well as massive pyrite (barren) samples.

Twigs are anomalous near southern border, near river.

Interpretations

The area is hydrothermally altered; epidote being particularly abundant. It is probably part of a propylite alteration suite associated with a hydrothermal system. The veins and disseminations would seem to be irregularly disposed at this structural level. Various types of sulphidized shear zones, some cupriferous have been noted.

Geochemical anomalies both confirm known mineralized areas and also point to a possible, but, hitherto untested, region.

Conclusions

Based on the results from previous as well as this work, the presence of local copper mineralization is confirmed. ICP-MS analyses of in situ sample show a variation in gold from 60 to 134 ppb. FA analysis is recommended.

A new area to test for mineralization based on biogeochemical methods has been located near utme 710595, utmn 5573061, and elevation 326 m.. Local float carries a few malachite stained samples.

Recommendations for future work

Work to be done by prospector:

A hand trench should be located near utme 710595, utmn 5573061, and elevation 326 m. to test the hypothesis (based on biogeochemistry) that more copper mineralization is present in this vicinity.

More prospecting needed to enlarge the volume of known mineralized material.

In situ samples with bornite should be analyzed using Fire assays.

This Minfile prospect, combined with neighboring claims, could become a property of merit.

References

- Anon, 1918
Lucky Jim; BC Minister of Mines Report, p.K270.
- Carlisle, D., 1972
Late Paleozoic to mid Triassic sedimentary-volcanic sequence of northeastern Vancouver Island; in Report of Activities, Nov-March 1972, GSC Paper 72-1B, pg 22-29.
- Carson, D.J.T., 1973
Petrography, chemistry, age and emplacement of plutonic rocks of Vancouver Island, GSC paper 72-44.
- Cho, Moon-sup, Liou, J.G, and Maruyama, 1986
Transition from the zeolite to prehnite-pumpellyite facies in the Karmutsen metabasites, Vancouver Island, BC: Journal of Petrology, vol 27, pp. 467-494.
- Cochrane, DR, 1971
AR 3403. Geophysical Report on an Induced Polarization Survey on Portions of the Boyes Creek-Adams River Copper Project, for Conoco Silver Ltd. BC Dept of Mines.
- Gifkins c., Herrmann w, Large r., 2005
Altered Volcanic Rocks: A guide to description and interpretation; University of Tasmania. Centre for Ore Deposit Research, 275 pg.
- Greene, AR, Scoates, JS, and Weis, D.
Wrangellia Terrane on Vancouver Island, British Columbia: Distribution of Flood Basalts with Implications for Potential Ni-Cu-PGE Mineralization in Southwestern British Columbia; Geological Field work 2004, Paper 2005-1 p. 209-220.
- Greene, A.R., Scoates, J.S., Nixon, G.T. and Weis, D.:2006
Picritic Lavas and Basal Sills in the Karmutsen Flood Basalt Province, Wrangellia, Northern Vancouver Island, BC; Geological Field work 2005, Paper 2006-1 p. 39-51.
- Kuniyoshi, S. and Liou, J.G., 1976a
Contact metamorphism of the Karmutsen Volcanics, Vancouver Island, B.C.; Journal of Petrology, vol 17. pp.73-99.
- Kuniyoshi, S. and Liou, J.G., 1976b
Burial metamorphism of the Karmutsen Volcanics, northeastern Vancouver Island, B.C.; American Journal of Science, vol 276. pp.1096-1119.
- Kwak, T.A.P., 1994
Hydrothermal Alteration in Carbonate- Replacement Deposits: Ore Skarns and Distal Equivalents *in* Lentz, D.R., ed, Alteration and Alteration Processes associated with Ore-forming systems: Geological Association of Canada, Short Course Notes, V11, p. 381-402.
- Leriche, PD, 1991
AR 22409; Geological, Geochemical and Compilation Report on the Adam Property, for West Pride Industries Corp. ; BC Dept of Mines.
- Leriche, PD, 1991
AR 23906; Geophysical Report on the Adam Property, for Lucky Break Gold.; BC Dept of Mines.

- Lincoln, T.N. 1981
The redistribution of copper during low-grade metamorphism of the Karmutsen Volcanics, Vancouver Island, British Columbia; *Economic Geology*; December 1981; v. 76; no. 8; p. 2147-2161;
- Lowe, C., 1999
Application of the Magnetic Method in Mineral Exploration: Fundamentals and Recent Developments; in *Geophysics in Lowe, C, Thomas, M.D. and Moris WA, editors, Mineral Exploration: Fundamentals and Case Histories, Geological Association of Canada, Short Course Notes, Volume 14, pg 131-162.*
- Massey, N.W.D., 1994, 2005
Geological compilation, Vancouver Island, British Columbia (NTS 92B, C, E, F, G, K, L, 102I); BC Ministry of Energy, Mines and Petroleum Resources, Open File 1994-6, 5 digital files, 1:250 000 scale.
- Muller, J.E., Northcote, K.E., and Carlisle, D., 1974
Geology and Mineral Deposits of Alert-Cape Scott Map Area, Vancouver Island, British Columbia; Geological Survey of Canada, Paper 74-8, 77pg and map 4-1974.
- Mottershead, B., 1971
AR3235 Geochemical Report on the Sayward Property (Bruce Dennis Kevin Groups) Adam River in Nanaimo Mining Division, BC for CONOCO Silver Mines Ltd.; BC Dept of Mines.
- Northcote K.E., and Muller J.E. 1972
Volcanism, Plutonism, and mineralization on Vancouver Island: *Bull Can Inst Mining and Metallurgy*, Oct 1972, p. 49-57.
- Ray, G.E., Webster, I.C.L., and Etlinger, A.D., 1995
The distribution of skarns in British Columbia and the chemistry and ages of their related plutonic rocks; *Economic Geology*, vol. 90, p 920-937.
- Schau, Mikkel, 2005
Prospecting Report on the Klejne 1-2 Claims; Assessment report AR -27745, BC Dept of Energy and Mines
- do- 2006
Prospecting Report on the Kringle Consolidated Southern Portion; Assessment report AR 28327, BC Dept of Energy and Mines
- do- 2007
Report on some Veins and alterations (preliminary petrography, magnetic susceptibility and density studies) of Kringle-consolidated Claims; Tlowils Lake to Rooney lake Area in 092L040... Nanaimo Mining Division; Assessment report AR 28927, BC Dept of Energy and Mines
- Sharp, W.M., 1969
Geological Report on the Boyes Copper Prospect located near the Adam River, Sayward Area, BC, in Nanaimo M.D.; BC Dept of Mines, AR1993.
- Sillitoe, RH, 2003
Iron-oxide-copper-gold deposits:an Andean view: *Mineralium Deposita*, vol 38, p787-812.
- Surdam, RC, 1968
The Stratigraphy and Volcanic History of the Karmutsen Group, Vancouver Island, BC; *University of Wyoming Contributions to Geology*, V.7, p.15-26.

Author's qualifications

I, Mikkel Schau,

have been a rock hound, prospector and geologist for over 50 years. My mineral exploration experience has been with Shell, Texas Gulf Sulfur, Kennco, Geophoto, Cogema and several smaller public and private mining juniors. I have worked 10 years in southern BC and spent 23 years with the GSC as a field officer focused on mapping in northeastern Arctic Canada. For the last 15 years I have prospected and mapped in Nunavut, Nunavik, Yukon, Ontario and BC.

I reside at 1007 Barkway Terrace, Brentwood Bay, BC, V8M 1A4

My formal education is that of a geologist, I graduated with an honours B.Sc. in 1964 and Ph.D. in Geology in 1969, both, from UBC.

I am a P.Geo. (25977) in BC. And currently a BC Free Miner, # 142134.

I have 100% interest in the claims in question.

I am the author of the report entitled "Geochemical and geological studies on the KLEJNE CLAIMS, Tenure 509556" and dated May 17, 2010

Signed

Mikkel Schau, P. Geo.
(25977)

dated May 17, 2010.

Itemized cost statement

Crew

Mikkel Schau 1 days @ 600.00	600.00
Alec Tebbutt Contract (invoice 10041901)	400.05
Room and Board	
H'kusam Lodge (apportioned with another project)	120.00

Analytical Work

Acme

12	Silt	icp-ms	281.61
15	Rock	icp-ms	416.23

Actlabs

14	Western Hemlock twigs/ash,	icp-ms	510.83
----	----------------------------	--------	--------

Freight apportioned with another project	21.28
------------------------------------------	-------

Report	300.00
--------	--------

TOTAL	2650.00
--------------	----------------

Appendix A; specimen descriptions and table of selected assay values

ROCKS IN SITU

006510 UTME 710386 UTMN 5573878 ELEV 360
 KL10-RP01a

Chip sample from white (QZ?) vein and small amount of gouge in locally purplish grey Karmutsen basalt bedrock, previously collected bo+cpy from these veins

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.14	543	124	59.5	<0.02	6.22	792	195	1.30
0.19	549	156	133.8	<0.02	6.79	846	223	1.4

Copper anomalous

006511 UTME 710397 UTMN 5573885 ELEV 345
 KL10-RP01

calcite and quartz veins in locally purplish Karmutsen basalt bedrock, previously collected bo+cpy from these veins

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.21	189	37	6.6	<0.02	3.98	684	140	7.18
0.19	189	47	4,9	0.03	3.93	656	118	6.84

About 10% CALCITE

006512 UTME 710398 UTMN 5573886 ELEV 345
 KL10-RP02

Small amount of malachite, on surface, very fine grained patches of bornite in quartz-calcite veins. Host is locally purplish, mainly greenish-grey, sparsely feldspar phyric Karmutsen basalt bedrock, Previously collected bo+cpy from veins in this area

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.17	1259	535	29.4	0.06	4.24	583	152	4.61
0.22	1284	609	35.6	0.07	4.58	578	172	4.7

Copper anomalous

006513 UTME 710397 UTMN 5573885 ELEV 345
 KL10-RP03

small qz vein in locally purplish greyish aphanitic Karmutsen basalt bedrock, previously collected bo+cpy near here

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.13	317	67	8.9	<0.02	5.81	1095	150	2.24

Copper elevated

006514 UTME 710385 UTMN 5573874 ELEV 354

KL10-RP04

Rusty and gossany/punky collected from vertical (fracture) zone 10 cm wide rusty, veined by many very thin veinlets of rust and calcite/gypsum?. Host is greyish green aphanitic basalt with scattered v fg pyrite cubes

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.61	189	77	13.2	2.24	6.78	415	193	1.05

006515 UTME 710375 UTMN 5573859 ELEV 349 m

KL10-RP05

sampled across zone: Rusty and gossany/punky vertical shear zone zone 80 cm wide , rusty rimmed beige to grey aphanitic basalt

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.31	218	38	6.5	0.33	10.15	1741	344	0.60

FLOAT

006516 UTME 710499 UTMN 5573236 ELEV 327 m

KL10-RF01

Local malachite stained chloritic fault breccia with silicic fragments and thin calcite veinlets

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.26	834	562	3.8	0.02	4.54	706	122	1.96

Copper anomalous

006517 UTME 710597 UTMN 5573043 ELEV 317m

KL10-RF02

black sulphide bearing layers in white silicic laminated tuff/chert as angular Parsons Bay float, saw speck of chalcopyrite

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
8.32	69	98	7.9	0.22	0.91	322	32	4.85

006518 UTME 710460 UTMN 5573593 ELEV 316 (11 satellites!)
 KL10-RF03c, near uphill side of bridge
 rusty fault breccia with fragments of epidiorite, minor pyrite

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.43	676	129	6.2	0.03	3.14	423	118	1.35

Copper anomalous

006519 UTME 710422 UTMN 5574121 ELEV 328
 KL10-RF04
 rusty pockmarked massive fine grained pyrite cobble from Boyes Creek

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.04	60	115	35.7	10.00+	27.94	1923	208	0.34

Also of note: Co 362 ppm, As 47 ppm, Bi 4 ppm, Se 6.5 ppm

006520 UTME 710408 UTMN 5573979 ELEV 337
 KL10-RF05

Large (decimeter) ripup of a massive polycrystalline pyrite rich (50%+) shear zone in greenstone

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
4.04	46	86	32	10.00+	26.29	597	130	0.23

Also of note: As 34 ppm, Bi 4 ppm, Se 12.7 ppm

006521 UTME 710404 UTMN 5573980 ELEV 340
 KL10-RF06

rusty weathering and rust rimmed punky gossan in aphanitic basalt with pockmarks of weathered out phenocrysts, local remnant v. fg pyrite in matrix

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.25	173	59	7.3	0.14	3.97	330	169	2.31

006522 UTME 710397 UTMN 5573885 ELEV 345
 KL10-RF07a

rusty greenish grey aphanitic basalt talus below veined cliff and KL10RP01, thin calcite vein with a wash of malachite.

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.28	84	37	7.9	0.19	6.38	1232	247	6.21

006523 UTME 710396 UTMN 5573886 ELEV 345

KL10-RF07b

rusty talus below same cliff and KL10RP01 , sample of grey to purplish grey aphanitic basalt with small chlorite amygdale fill? Cut by thin epidote veinlets

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.12	290	93	9.1	0.04	5.44	895	160	1.70

Copper possibly elevated

006524

UTME 710385

UTMN 5573874

ELEV 354

KL10-RF08

collected below KL10RP04, vertical 10 cm wide gossany and rusty zone, rusty, and rust rimmed aphanitic basalt cut by rusted out veins, now with clayey fill.

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.43	76	28	3.5	0.26	6.07	316	168	1.00

STREAM SEDIMENTS (SILT)

KL10ST01

UTME 712485

UTMN 5572851

ELEV 336

006525

Main creek, grey medium fine silt, 20% pebbles, less than 5% organics, sample from 3 locations, each side and middle. The location of the GPS reading indicates that the sample was taken a few metres south of the claim line. The sample is a composite of silt from this wide creek. The bridge over the creek has been washed out and the course of the creek has probably changed as it eroded both sides of the bridge abutments.

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.35	97	50	4.3	<0.02	5.68	1609	221	2.62

KL10ST02

UTME 712497

UTMN 5572914

ELEV 336

006526

small creek 3 m wide just north of main creek
grey, med fine, 10% pebbles, <5% organic, at base of alders
pH of stream 5

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.35	96	49	10.4	0.02	5.54	1810	217	2.57

KL10ST03

UTME 710491

UTMN 5572960

ELEV 317

006527

creek 5-10 m wide , sample under bank, very fine grey, no pebbles, 5% orgs

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
0.37	97	62	2.0	0.04	5.40	1769	211	2.55

KL10ST04 UTME 710595 UTMN 5573061 ELEV 326
006528

east of end of fsr road, small trickle of creek, dk brown, organic rich, 10% pebbles

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
1.35	76	255	2.0	0.06	6.95	4152	322	1.36

KL10ST05 UTME 710628 UTMN 5573043 ELEV 323
006529

medium creek, 2-3 m wide, light grey, very fine, few organics

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
5.27	90	105	2.5	0.03	7.02	4958	305	2.09

KL10ST06 UTME 710473 UTMN 5573218 ELEV 336
006530

creek 2-3 m wide, good flow, light grey, 70% pebbles, 5-10% org,

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
0.67	150	78	3.0	<0.02	4.55	2978	185	2.73

Cu possibly elevated.

KL10ST07 UTME 710465 UTMN 5573532 ELEV 335
006531

creek 8 m wide, good flow, med grey, 10% org, 40% pebbles

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
0.38	138	67	1.9	0.06	4.97	2998	177	1.69

Cu possibly elevated.

KL10ST08 UTME 710659 UTMN 5573917 ELEV 306
006532

small shallow, but wide 4 m creek up hill from south branch lower FSR
silt very thin layer over organic rich layer, light grey to light rusty colour

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %, 	Fe%	Mn ppm	V ppm	Ca%
1.19	134	229	5.7	0.07	6.26	8271	251	1.40

Cu possibly elevated.

KL10ST09 UTME 710417 UTMN 5574142 ELEV 349 m
006533

Boyes Creek, 10-12 m wide, deep good flow, med coarse, 10% org, 60% pebbles

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.30	142	239	3.1	0.07	6.29	10000+	251	1.73

Cu possibly elevated.

KL10ST10 UTME 710417 UTMN 5574142 ELEV 349 m
006534

Boyes Creek, 10-12 m wide, deep good flow, med coarse, 10% org, 60% pebbles, (split sample)

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
0.52	285	129	12.2	0.06	5.59	3851	185	1.73

Cu elevated.

KL10Talus1 UTME 710441 UTMN 5573683 ELEV 333
006535

Oxidized till/oxidized fine colluvium. From road cut

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.35	312	558	23.6	0.04	8.30	390	305	0.68

Cu elevated.

KL10Talus 2 UTME 710441 UTMN 5573683 ELEV 333
006536

Oxidized till/oxidized fine colluvium. From same road cut as above.

Mo ppm	Cu ppm	Ag ppb,	Au ppb,	S %,	Fe%	Mn ppm	V ppm	Ca%
1.13	250	831	11.5	0.04	8.21	831	321	0.55

Cu elevated.

pH measurements on a selection of water from creeks

Values are more acid than would expected later in the season, due to recent and rapid snow melt
Values from calibrated pH paper

Creek Location	utme	utmn	elev	pH measurement in 1/4 units
KL10ST02	712497	5572914	336	5.
Boggy water pond	710457	5573102	331	4.5
KL10RF02=ST04	710597	5573043	317	4.5
Rusty soil area, small creek also TR07	710447	5573671	317	4.5
Wp 467, small creek	710584	5573888	305	4.75
Wp 471, also ST08	710668	5573890	298	4.5

BIOGEOCHEMISTRY

Samples (unless noted) are taken from 6-8 m tall trees with a diameter from 7 to 14 cm diameter. Twigs are last years twigs several mm in diameter.

KL10TR01 UTME 710509 UTMN 5572916 ELEV 336
western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.3	81.1	0.2	0.13	2.71

Cu at base level

KL10TR02 UTME 710502 UTMN 5572991 ELEV 348 m
western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.4	88.8	0.3	0.24	4.45

Note: Mn high, Cu at base level.

KL10TR03 UTME 710586 UTMN 5573087 ELEV 319
on FSR east of UA106
western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.7	88.9	<0.2	0.1	0.1

Cu at base level

KL10TR04 UTME 710620 UTMN 5573043 ELEV 323
 at end of south east trending off UA106 in southern part of claim
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
1.3	232	0,6	0.23	4.59

Note Mn high, Cu high.
 This is a potential target for further sampling

KL10TR05 UTME 710473 UTMN 5573218 ELEV 336
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.5	77.7	<0.2	0.15	1.08

Cu at base level

KL10TR06 UTME 710465 UTMN 5573532 ELEV 335
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppb,	Fe %,	Mn%
0.4	122	0.7	0.2	0.87

Cu possibly elevated

KL10TR07 UTME 710441 UTMN 5573683 ELEV 333
 over gossany till exposure. Talus 1 and 2
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.4	103	0.3	0.18	3.27

Cu not notably elevated

KL10TR08 UTME 710588 UTMN 5573906 ELEV 313 m
 off end of side road to east toward Adam River
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
1	125	0,3	0.16	0.92

Cu possibly elevated

KL10TR09 UTME 710672 UTMN 5573917 ELEV 306
 near Adam river
 western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe %,	Mn%
0.9	123	0.6	0.12	1.22

Cu possibly elevated

KL10TR10 UTME 710418 UTMN 5574152 ELEV 340 m
just north of Boyes Creek
western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
0.6	97.4	0.4	0.29	1.99

Cu not notably elevated

KL10TR11 UTME 710386 UTMN 5573878 ELEV 339 m
this is taken above several narrow copper veins, tree much larger than rest:
chest diameter 25-30 cm.
Above on rough side road to west of main road
Western hemlock twigs

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
0.4	109	0.3	0.58	1.28

Cu not notably elevated.

KR10TR01 UTME 704731 UTMN 5580551 ELEV 313
sample of twigs from a tree over a known copper showing (Puff) to test efficacy of samples.

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
1	263	1,0	0.58	1.28

BL-1 Sample from Victoria Garden
This a sample from a hemlock tree taken to act as a blank, sample is from a Victoria Garden

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
1.7	74.3	0.3	0.13	0.98

BL-2

SAME TREE AS BL-1, also chosen as QA/QC sample by lab.

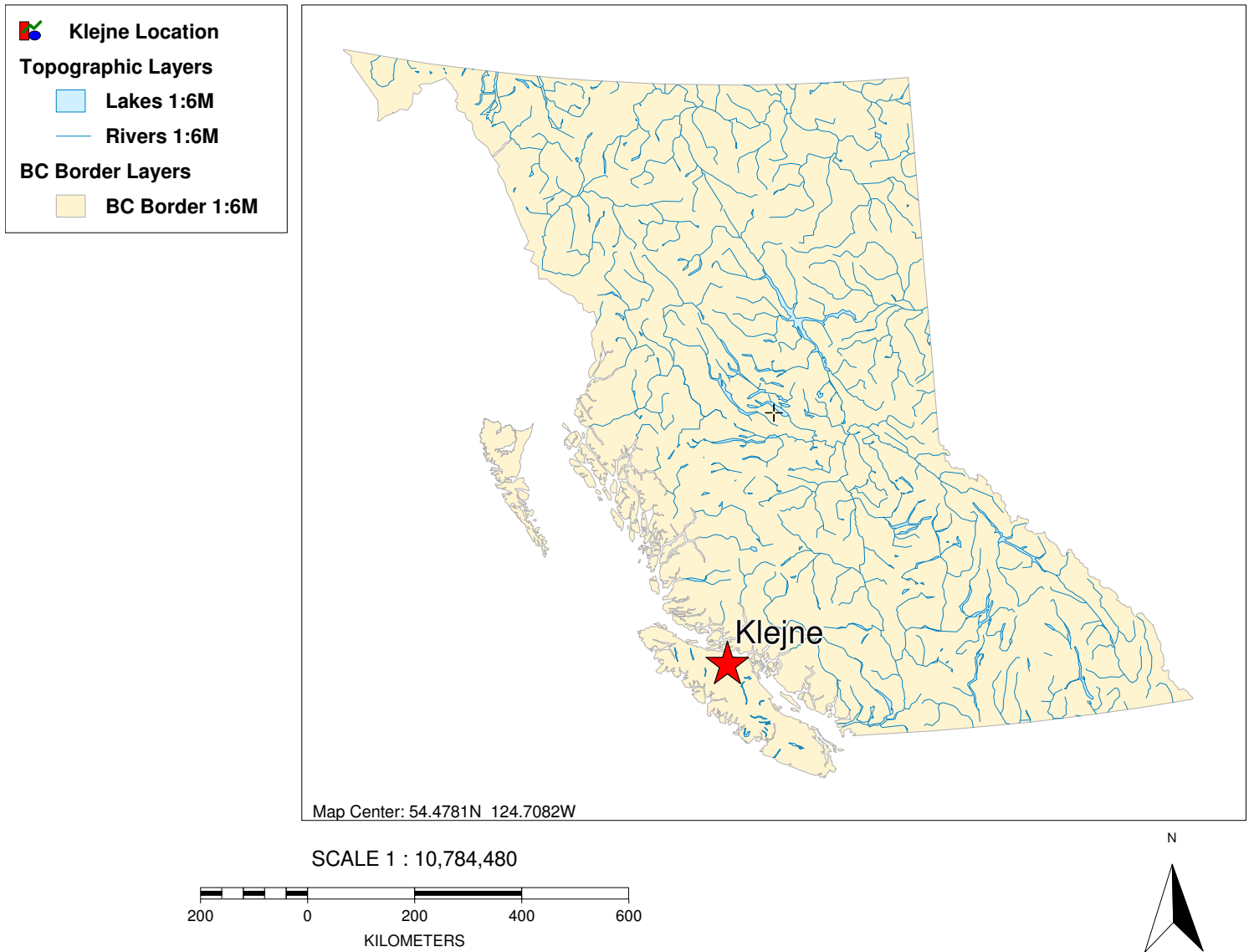
This a sample from a hemlock tree taken to act as a blank, sample is from same Victoria Garden

Mo ppm	Cu ppm	Ag ppm,	Fe%,	Mn%
1.7	78.2	0.2	0.11	0.80
1.6	76.9	0.2	0.10	0.79
1.7	79.4	<0.2	0.11	0.80

Figures

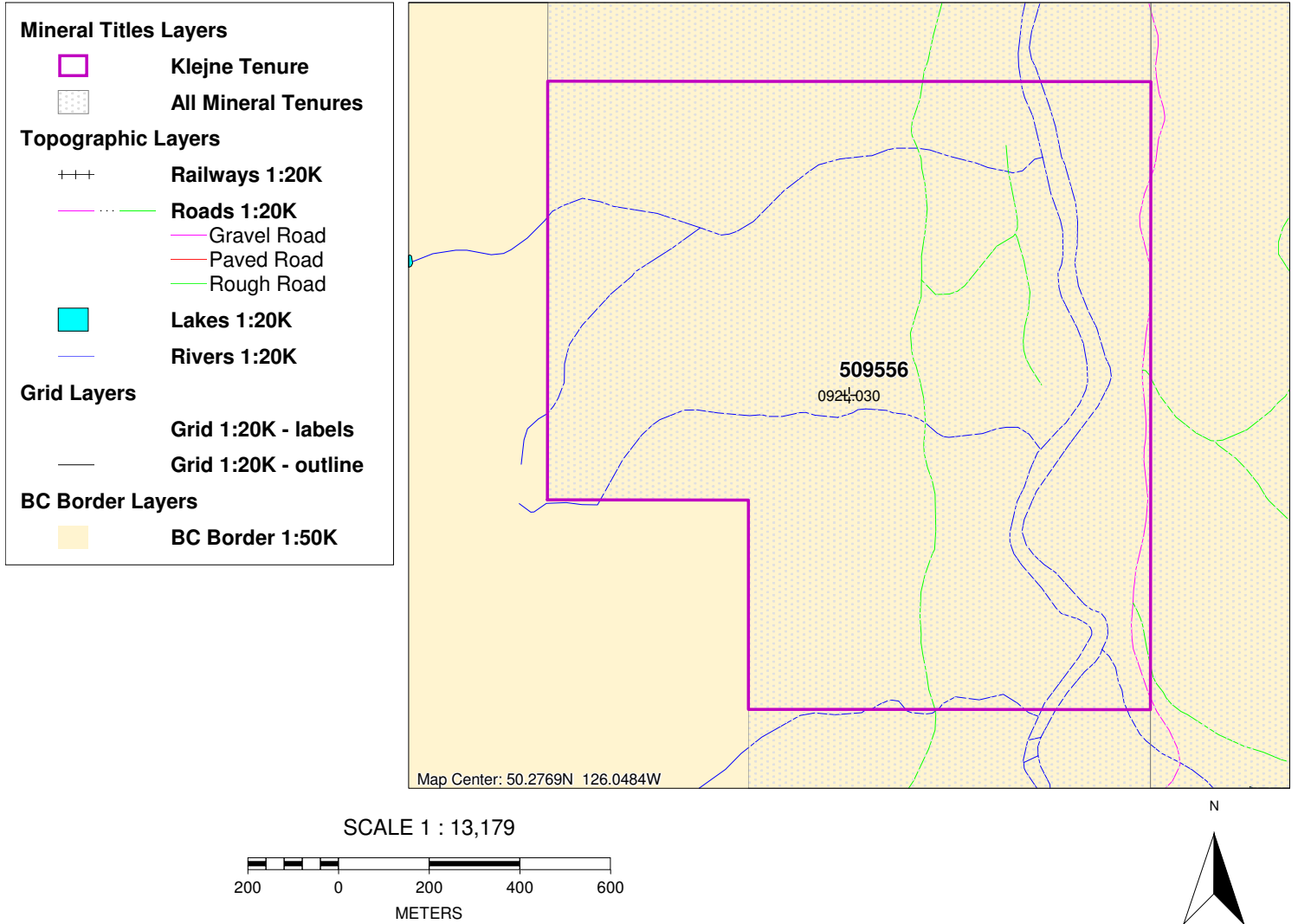
Klejne Location Map

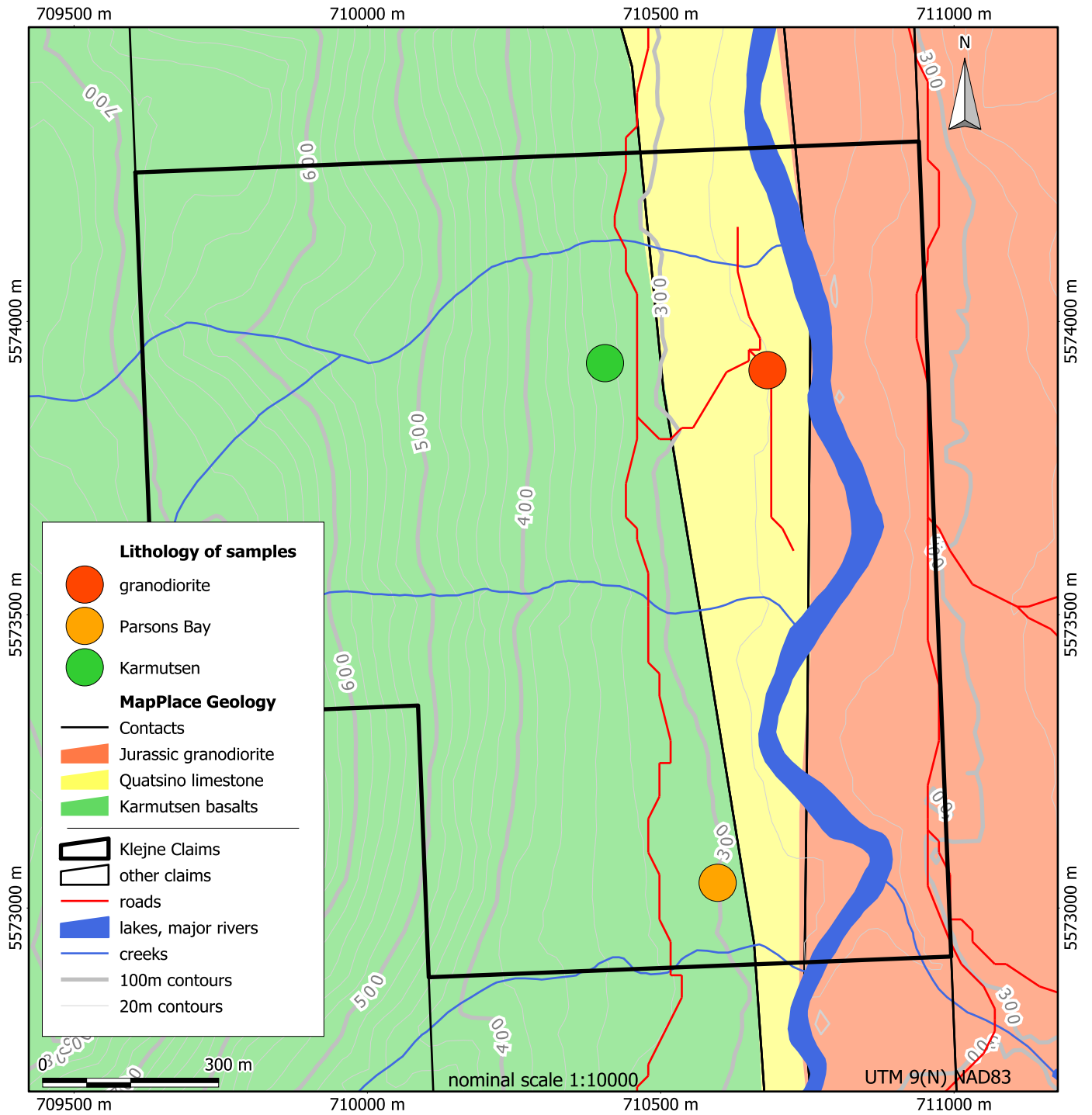
Figure 1



Klejne Claim Map

Figure 2





**Figure 3
Geology**

**Klejne Claims
May 2010**

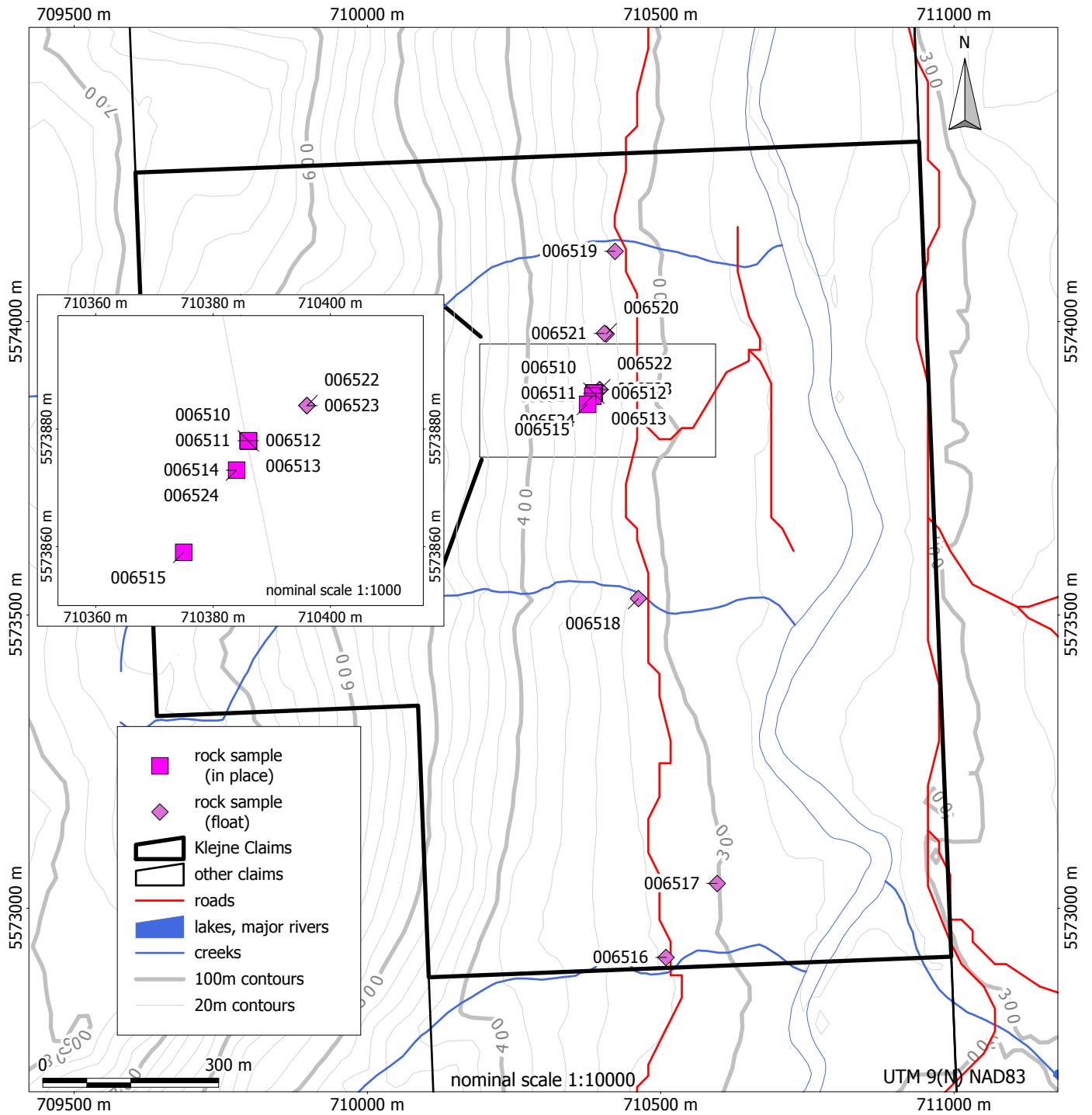


Figure 4
Rock sample locations

Klejne Claims
May 2010

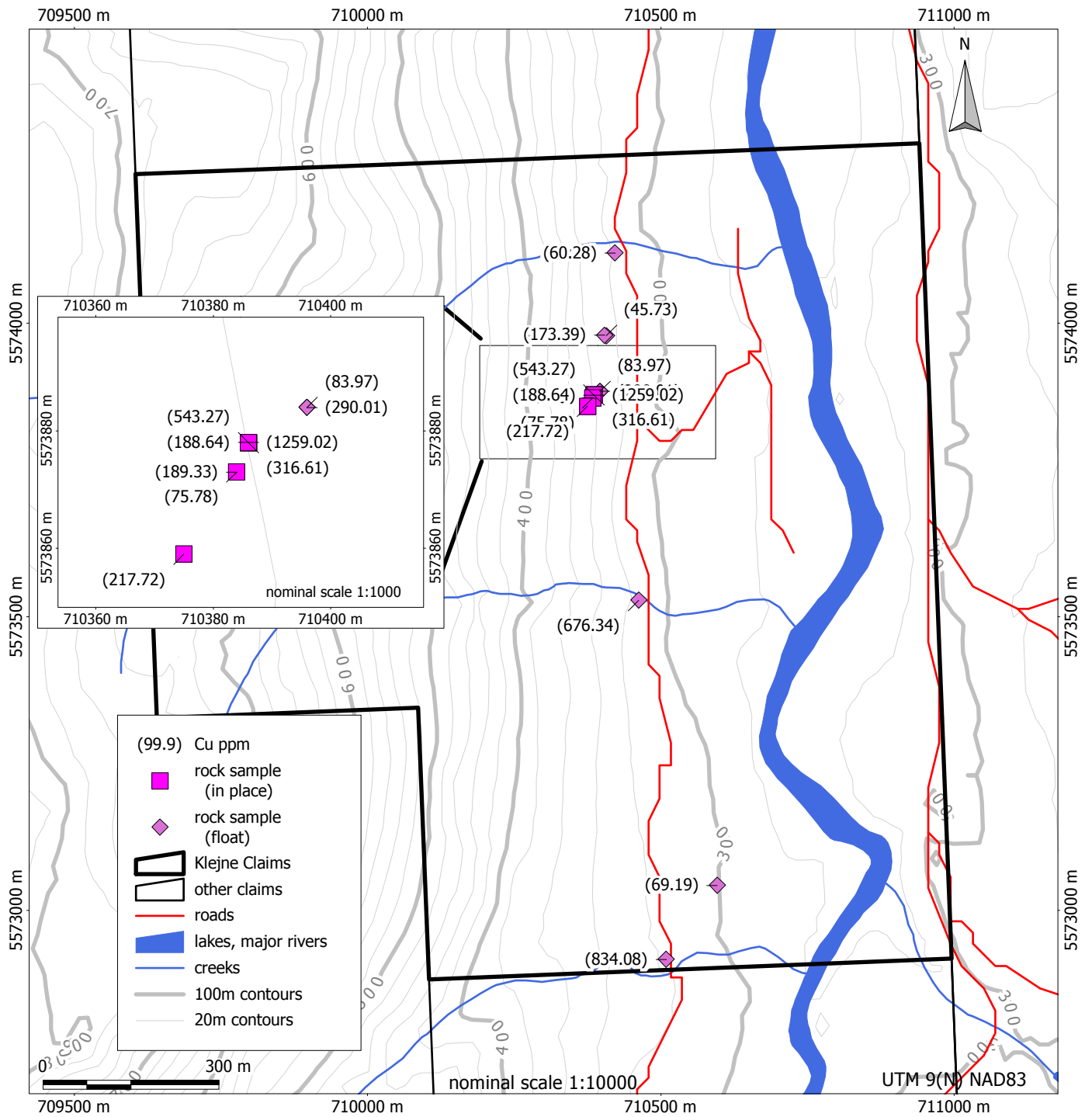


Figure 5
Copper in rock samples

Klejne Claims
May 2010

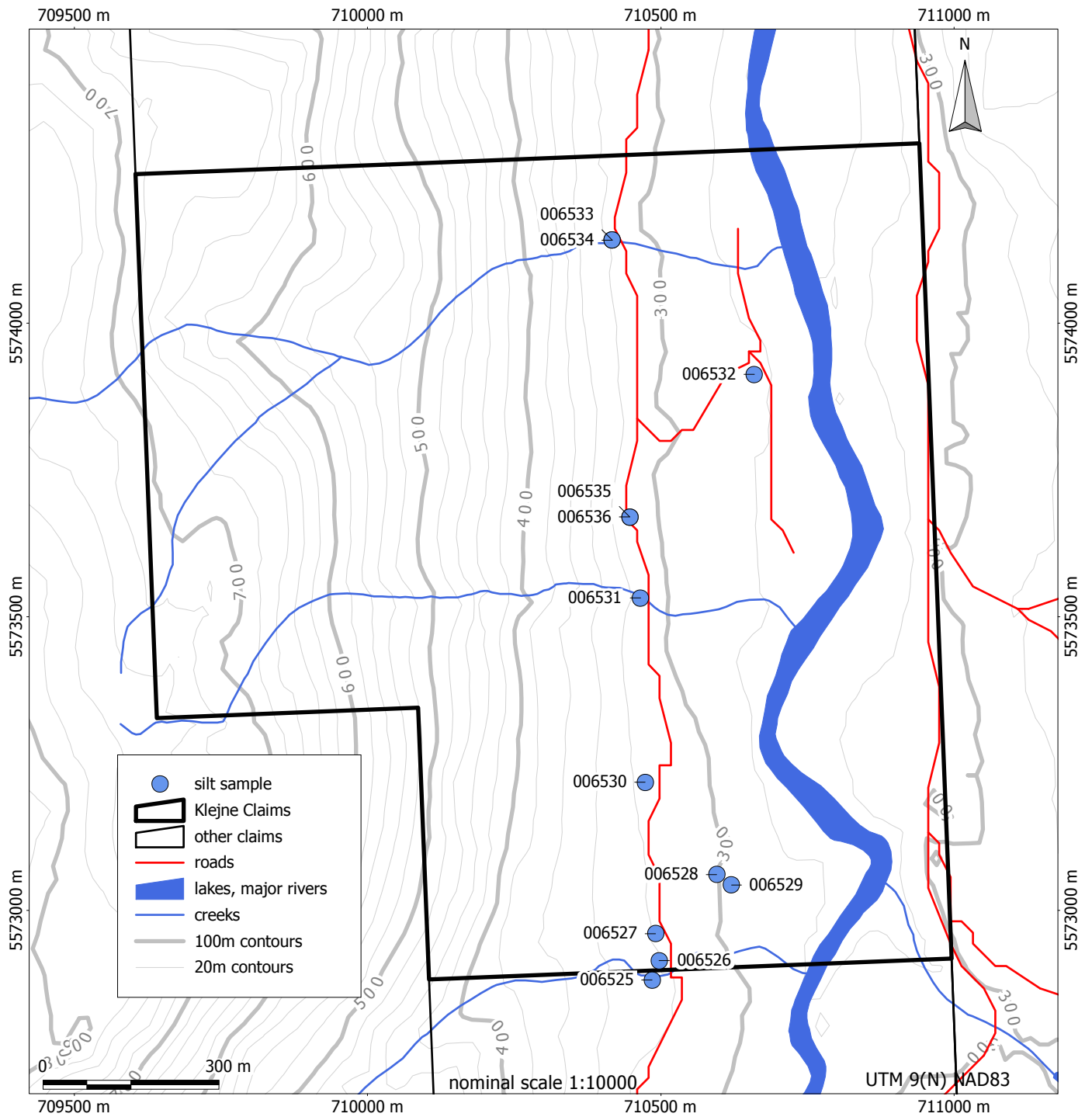


Figure 6
Silt sample locations

Klejne Claims
May 2010

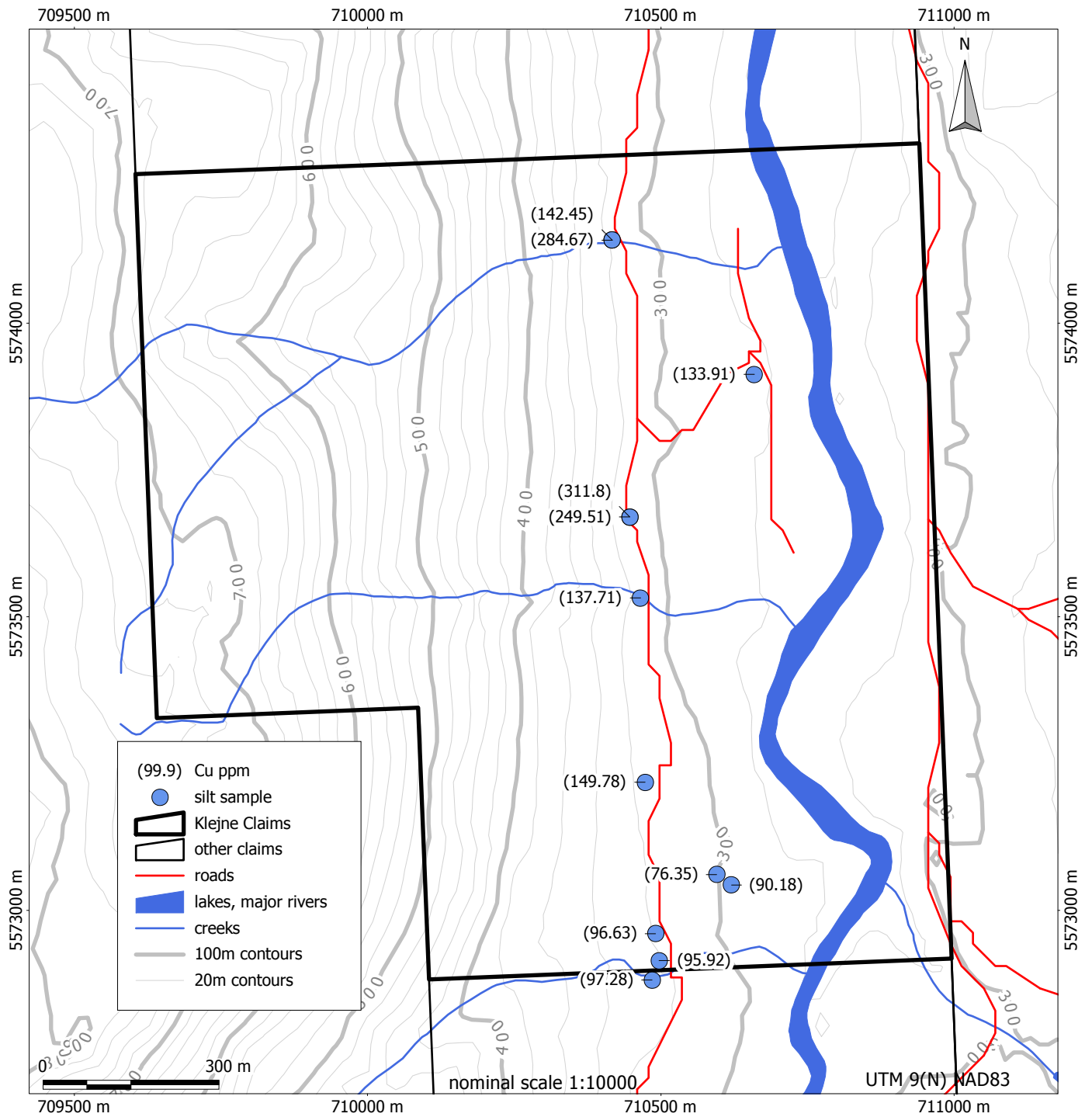


Figure 7
Copper in silt samples

Klejne Claims
May 2010

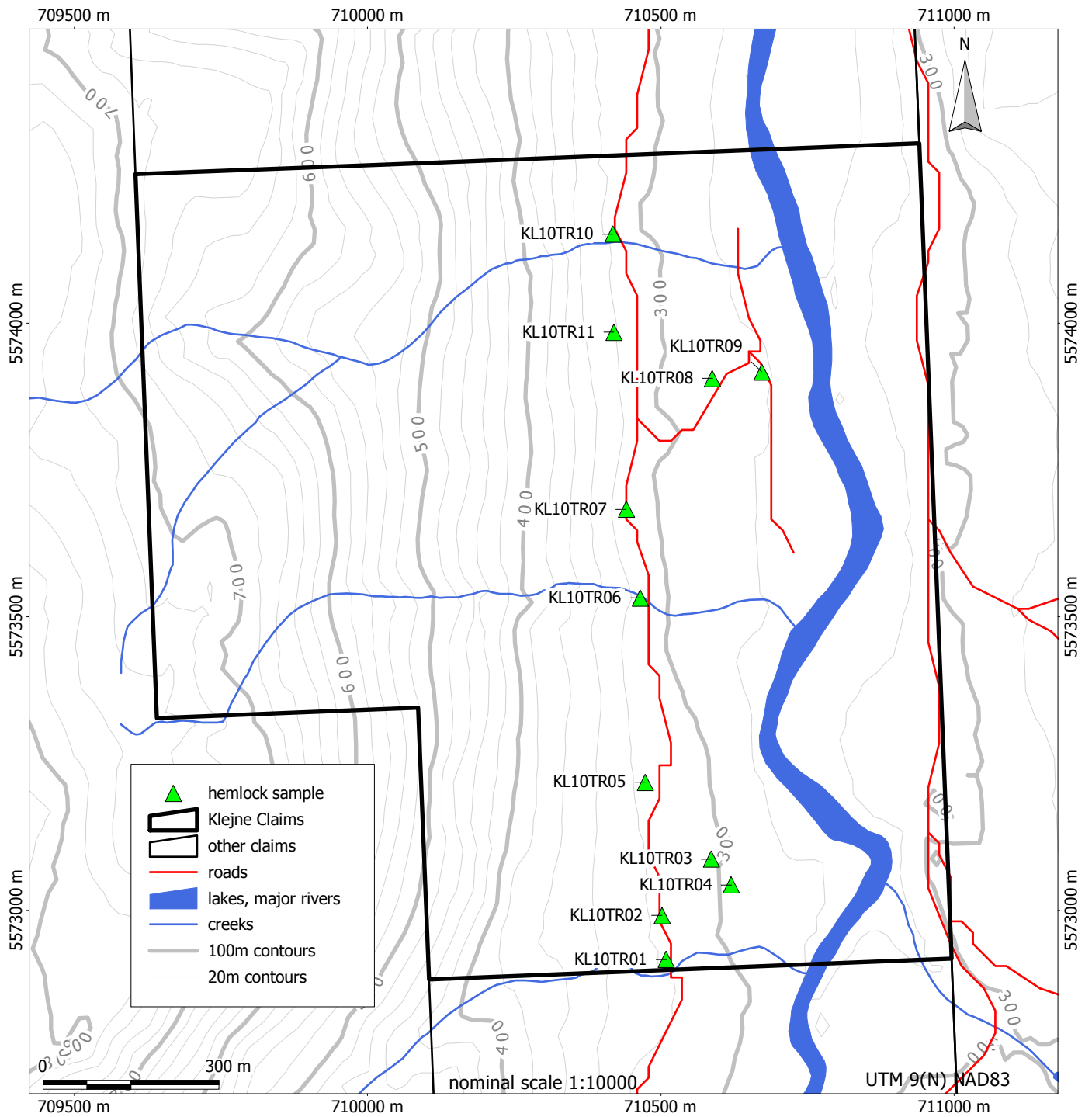


Figure 8
Hemlock sample locations

Klejne Claims
May 2010

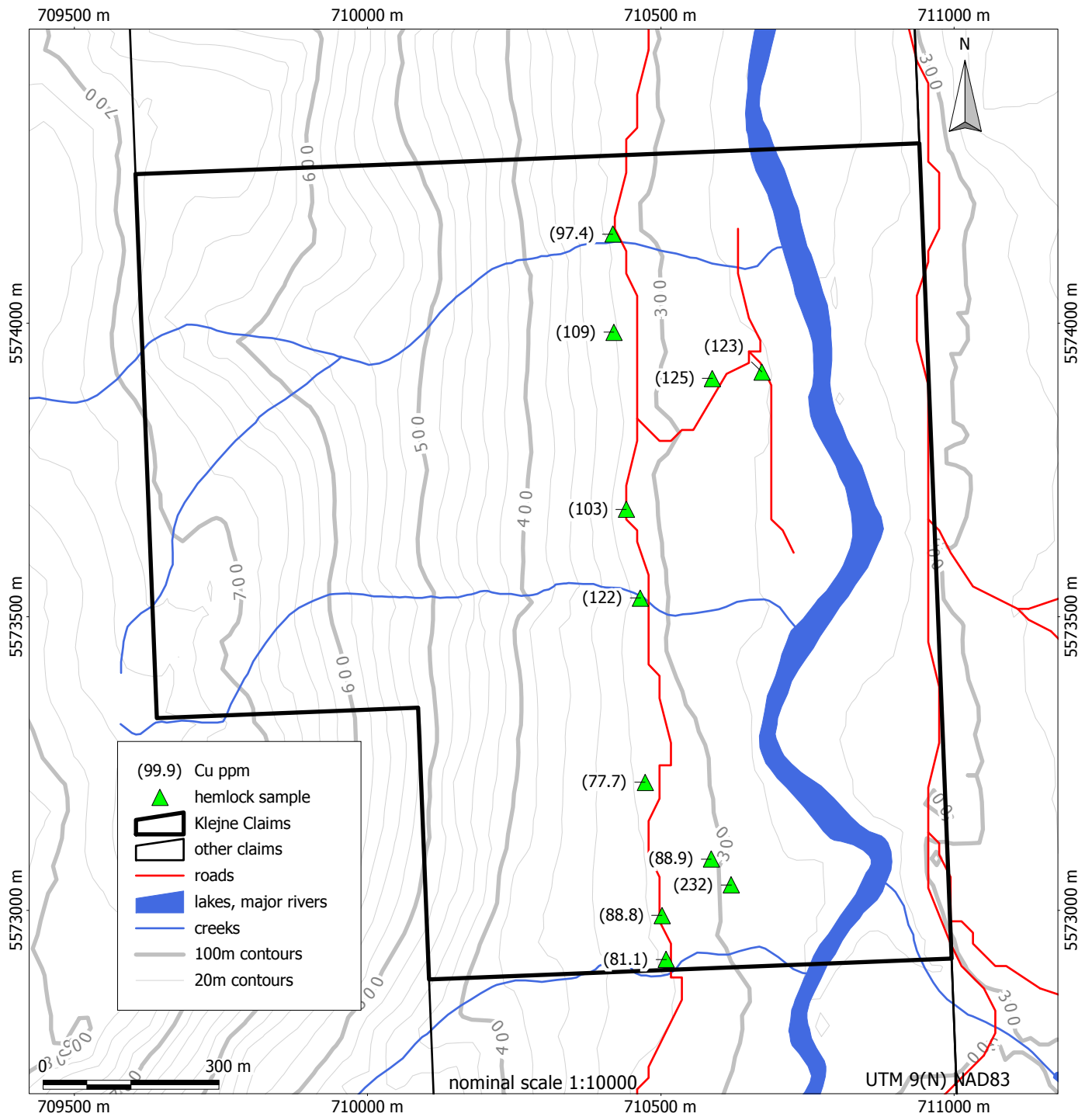


Figure 9
Copper in hemlock samples

Klejne Claims
May 2010

Appendix B: certificate of assays



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Schau, Mikkel**
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4 Canada

Submitted By: Mikkel Schau
Receiving Lab: Canada-Vancouver
Received: March 11, 2010
Report Date: April 12, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10000958.2

CLIENT JOB INFORMATION

Project: ADAM RIVER
Shipment ID: KLEJNE PROJECT
P.O. Number
Number of Samples: 15

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT 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.

Invoice To: Schau, Mikkel
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	15	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1F02	15	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
2A13	3	Total S Analysis by Leco	0.1	Completed	VAN

ADDITIONAL COMMENTS

Version 2: 2A13 included



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



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER
 Report Date: April 12, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10000958.2

Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	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	
006510	Rock	0.35	0.14	543.3	0.55	96.3	124	53.6	37.3	792	6.22	0.4	0.1	59.5	0.3	24.9	0.32	0.05	<0.02	195	1.30
006511	Rock	0.50	0.21	188.6	0.56	56.2	37	38.7	25.9	684	3.98	0.5	<0.1	6.6	0.2	39.0	0.06	0.10	<0.02	140	7.18
006512	Rock	0.41	0.17	1259	0.87	54.9	535	45.7	28.6	583	4.24	0.5	<0.1	29.4	0.2	45.6	0.45	0.09	<0.02	152	4.61
006513	Rock	0.62	0.13	316.6	0.55	91.0	67	60.5	40.3	1095	5.81	0.4	<0.1	8.9	0.3	34.1	0.11	0.07	<0.02	150	2.24
006514	Rock	0.79	0.61	189.3	0.59	50.1	77	39.4	29.8	415	6.78	18.4	0.1	13.2	0.4	25.4	0.05	0.49	<0.02	193	1.05
006515	Rock	0.49	0.31	217.7	3.17	150.8	38	63.2	52.0	1741	10.15	1.5	0.1	6.5	0.4	7.7	0.07	0.34	0.18	344	0.60
006516	Rock	0.56	0.26	834.1	0.64	85.9	562	48.8	36.3	706	4.54	0.2	0.1	3.8	0.2	33.7	0.06	0.02	<0.02	122	1.96
006517	Rock	1.34	8.32	69.19	15.13	163.2	98	31.1	5.9	322	0.91	7.7	2.5	7.9	0.5	287.1	2.29	1.08	0.07	32	4.85
006518	Rock	0.77	0.43	676.3	1.43	71.5	129	24.2	18.2	423	3.14	0.2	0.1	6.2	0.4	24.0	0.10	0.03	<0.02	118	1.35
006519	Rock	0.16	1.04	60.28	7.45	149.4	115	64.7	362.0	1923	27.39	46.6	<0.1	35.7	0.2	27.5	0.04	0.08	4.89	208	0.34
006520	Rock	0.84	4.04	45.73	9.25	70.2	86	33.1	142.8	597	26.29	33.6	<0.1	32.0	0.1	24.0	0.03	0.35	4.05	130	0.23
006521	Rock	0.93	0.25	173.4	0.71	36.1	59	72.0	22.0	330	3.97	0.4	0.1	7.3	0.3	65.0	0.06	<0.02	0.05	169	2.31
006522	Rock	0.61	0.28	83.97	1.73	143.5	37	65.6	38.4	1232	6.38	0.9	<0.1	7.9	0.2	330.7	0.63	0.10	0.04	247	6.21
006523	Rock	0.97	0.12	290.0	0.63	72.9	93	52.5	35.3	895	5.44	0.5	<0.1	9.1	0.3	41.9	0.13	0.06	<0.02	160	1.70
006524	Rock	0.39	0.43	75.78	0.49	38.0	28	41.2	25.7	316	6.07	1.9	0.1	3.5	0.3	24.8	0.06	0.12	<0.02	168	1.00



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER
 Report Date: April 12, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN10000958.2

Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	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	
Pulp Duplicates																					
006511	Rock	0.50	0.21	188.6	0.56	56.2	37	38.7	25.9	684	3.98	0.5	<0.1	6.6	0.2	39.0	0.06	0.10	<0.02	140	7.18
REP 006511	QC																				
006519	Rock	0.16	1.04	60.28	7.45	149.4	115	64.7	362.0	1923	27.39	46.6	<0.1	35.7	0.2	27.5	0.04	0.08	4.89	208	0.34
REP 006519	QC		1.00	59.51	7.60	141.9	117	62.9	355.9	1920	27.03	46.2	<0.1	40.5	0.2	27.1	0.04	0.14	4.91	210	0.36
Reference Materials																					
STD CSC	Standard																				
STD DS7	Standard		20.48	113.0	63.74	384.3	829	53.5	8.7	614	2.29	49.1	4.7	63.7	4.5	71.4	6.16	5.87	4.40	81	0.93
STD OREAS76A	Standard																				
STD DS7 Expected			20.5	109	70.6	411	890	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	4.6	4.51	84	0.93
STD CSC Expected																					
STD OREAS76A Expected																					
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
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	<0.01	0.10	32.28	3.14	41.8	25	2.6	4.0	569	1.91	0.3	2.2	1.1	6.2	54.0	0.02	<0.02	0.10	37	0.47
G1	Prep Blank	<0.01	0.16	3.01	3.02	42.7	9	3.1	4.0	542	1.86	0.2	2.1	0.9	6.5	51.1	0.02	<0.02	0.07	36	0.47



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER
 Report Date: April 12, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10000958.2

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15 2A	Leco	
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	TOT/S		
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	%	
MDL		0.001	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		
Pulp Duplicates																						
006511	Rock	0.040	3.0	39.2	1.80	3.8	0.296	2	3.39	0.018	0.03	<0.1	3.7	<0.02	<0.02	<5	<0.1	<0.02		9.8	0.03	
REP 006511	QC																				0.02	
006519	Rock	0.043	0.9	24.8	2.79	9.7	0.303	<1	3.75	0.011	0.02	<0.1	14.9	<0.02	>10	<5	6.5	0.26	11.6		N.A.	
REP 006519	QC	0.043	1.0	24.7	2.73	10.3	0.336	<1	3.73	0.011	0.02	<0.1	14.6	<0.02	>10	5	6.7	0.25	11.8			
Reference Materials																						
STD CSC	Standard																				4.40	
STD DS7	Standard	0.074	12.9	188.9	1.02	401.5	0.131	38	0.99	0.092	0.44	3.9	3.0	3.97	0.20	190	3.5	1.21	4.4			
STD OREAS76A	Standard																					
STD DS7 Expected		0.08	11.7	179	1.05	370.3	0.124	38.6	0.959	0.089	0.44	3.4	2.5	4.19	0.19	200	3.5	1.08	4.6			
STD CSC Expected																						
STD OREAS76A Expected																						
BLK	Blank	<0.001	<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			
BLK	Blank																					
Prep Wash																						
G1	Prep Blank	0.076	12.5	10.1	0.51	158.5	0.133	<1	0.92	0.079	0.49	<0.1	2.3	0.27	<0.02	<5	<0.1	<0.02	4.4		N.A.	
G1	Prep Blank	0.086	12.5	10.8	0.51	172.1	0.129	1	0.86	0.073	0.47	<0.1	2.3	0.30	<0.02	<5	<0.1	<0.02	4.4		N.A.	



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Schau, Mikkel**
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4 Canada

Submitted By: Mikkel Schau
Receiving Lab: Canada-Vancouver
Received: April 05, 2010
Report Date: April 13, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10000958R.1

CLIENT JOB INFORMATION

Project: ADAM RIVER
Shipment ID: KLEJNE PROJECT
P.O. Number
Number of Samples: 3

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
P200	3	Pulverize to 85% passing 200 mesh			VAN
1F02	3	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

Re-analysis of 1F02 from rock rejects

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: Schau, Mikkel
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4
Canada

CC:



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



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER
 Report Date: April 13, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10000958R.1

Method	1F15	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	
006510	Rock	0.19	549.2	0.84	92.2	156	56.6	37.2	846	6.79	0.9	0.1	133.8	0.3	29.6	0.34	0.11	<0.02	223	1.40	0.060
006511	Rock	0.19	188.6	0.62	51.9	47	37.9	24.8	656	3.93	0.4	<0.1	4.9	0.2	34.9	0.05	0.09	<0.02	118	6.84	0.041
006512	Rock	0.22	1284	1.20	54.1	609	47.2	28.7	578	4.58	0.8	<0.1	35.6	0.2	56.2	0.43	0.20	<0.02	172	4.70	0.050



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Schau, Mikkel
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER
Report Date: April 13, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN10000958R.1

Method	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	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
006510	Rock	4.6	56.8	3.09	27.8	0.356	2	3.36	0.117	0.12	<0.1	6.6	<0.02	<0.02	<5	0.3	<0.02	9.6
006511	Rock	3.0	38.8	1.77	3.8	0.250	1	3.31	0.018	0.03	<0.1	3.2	<0.02	<0.02	<5	0.3	<0.02	9.4
006512	Rock	4.0	44.9	1.81	7.0	0.366	2	2.20	0.055	0.02	<0.1	4.6	<0.02	0.06	<5	0.9	<0.02	7.1



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Schau, Mikkel
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER

Report Date: April 13, 2010

Page: 1 of 1 **Part** 1

QUALITY CONTROL REPORT

VAN10000958R.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	
Reference Materials																					
STD DS7	Standard	20.47	105.7	65.47	381.7	992	57.3	9.9	611	2.37	49.5	4.7	62.9	4.3	69.0	6.36	5.91	4.58	80	0.93	0.079
STD DS7 Expected		20.5	109	70.6	411	890	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	4.6	4.51	84	0.93	0.08
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
Prep Wash																					
G1	Prep Blank	0.18	3.74	3.04	48.7	13	3.0	4.4	583	1.96	21.7	2.1	6.9	6.1	58.3	0.01	0.19	0.05	37	0.51	0.078



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: ADAM RIVER

Report Date: April 13, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10000958R.1

Method	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	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	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	
Reference Materials																		
STD DS7	Standard	12.6	193.5	1.03	397.4	0.132	37	1.00	0.084	0.46	3.8	2.7	3.96	0.20	215	3.7	1.16	4.6
STD DS7 Expected		11.7	179	1.05	370.3	0.124	38.6	0.959	0.089	0.44	3.4	2.5	4.19	0.19	200	3.5	1.08	4.6
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
Prep Wash																		
G1	Prep Blank	12.4	8.8	0.51	156.2	0.138	<1	0.96	0.085	0.52	<0.1	2.2	0.34	<0.02	<5	0.1	<0.02	4.6



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Schau, Mikkel**
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4 Canada

Submitted By: Mikkel Schau
Receiving Lab: Canada-Vancouver
Received: March 10, 2010
Report Date: March 18, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10000953.1

CLIENT JOB INFORMATION

Project: KLEJNE
Shipment ID:
P.O. Number
Number of Samples: 13

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Schau, Mikkel
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	12	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	12	Dry at 60C			VAN
1F02	12	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
DISP2	12	Heat treatment of Soils and Sediments			VAN

ADDITIONAL COMMENTS



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



1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: KLEJNE
 Report Date: March 18, 2010

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN10000953.1

Method	Analyte	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15		
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	MDL	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%		
		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
006525	Silt		0.35	97.28	3.49	78.6	50	47.0	33.6	1609	5.68	0.6	0.2	4.3	0.4	25.1	0.16	0.06	0.03	221	2.62	
006526	Silt		0.35	95.92	3.93	80.4	49	46.4	34.8	1810	5.54	0.7	0.2	10.4	0.4	26.2	0.22	0.09	0.05	217	2.57	
006527	Silt		0.37	96.63	4.69	79.4	62	44.7	34.7	1769	5.40	0.7	0.2	2.0	0.3	25.4	0.18	0.07	0.04	211	2.55	
006528	Silt		1.35	76.35	8.02	84.9	255	29.7	28.0	4152	6.95	3.2	0.4	2.0	0.4	16.6	0.66	0.25	0.11	322	1.36	
006529	Silt		5.27	90.18	3.64	92.5	105	46.9	60.4	4958	7.02	45.3	1.7	2.5	0.6	19.2	0.64	0.16	0.05	305	2.09	
006530	Silt		0.67	149.8	3.26	86.3	76	48.3	29.5	2978	4.55	17.9	0.7	3.0	0.6	40.6	0.74	0.15	0.06	185	2.73	
006531	Silt		0.38	137.7	8.10	89.4	67	36.5	42.3	2998	4.97	1.1	0.2	1.9	0.3	48.7	0.20	0.08	0.05	177	1.69	
006532	Silt		1.19	133.9	6.59	119.3	229	37.7	75.3	8271	6.26	0.9	0.4	5.7	0.5	19.9	1.10	0.12	0.09	251	1.40	
006533	Silt		1.30	142.4	6.95	131.8	239	38.6	88.2	>10000	6.29	1.2	0.4	3.1	0.5	20.6	1.13	0.12	0.08	251	1.31	
006534	Silt		0.52	284.7	11.46	77.8	129	35.3	71.4	3851	5.59	1.9	0.2	12.2	0.3	42.8	0.30	0.12	0.08	185	1.73	
006535	Silt		1.35	311.8	2.36	56.9	558	27.9	20.7	390	8.30	2.5	0.5	23.6	0.6	17.6	0.40	0.20	0.18	305	0.68	
006536	Silt		1.13	249.5	2.87	58.2	831	27.0	21.8	364	8.21	1.5	0.5	11.5	0.6	17.6	0.42	0.25	0.19	321	0.55	
006537	Silt		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: KLEJNE
 Report Date: March 18, 2010

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN10000953.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.001	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	
006525	Silt	0.042	3.7	41.6	1.44	20.2	0.549	4	4.28	0.015	0.01	<0.1	10.2	<0.02	<0.02	46	0.6	<0.02	12.5
006526	Silt	0.044	3.9	40.1	1.41	23.2	0.533	5	4.21	0.015	0.02	<0.1	10.1	<0.02	0.02	69	0.7	<0.02	12.5
006527	Silt	0.047	4.1	42.3	1.33	23.5	0.509	5	4.28	0.018	0.01	<0.1	10.0	<0.02	0.04	75	0.8	<0.02	12.0
006528	Silt	0.070	4.5	73.8	0.44	30.1	0.582	3	4.28	0.009	0.01	<0.1	8.6	<0.02	0.06	185	1.1	0.06	16.5
006529	Silt	0.039	4.3	68.5	0.96	29.8	0.654	4	5.35	0.010	<0.01	<0.1	10.5	<0.02	0.03	85	1.2	<0.02	17.0
006530	Silt	0.056	6.6	45.5	1.04	32.4	0.404	4	6.11	0.015	0.02	<0.1	14.4	<0.02	<0.02	82	1.2	0.03	11.0
006531	Silt	0.055	3.3	36.2	0.98	35.8	0.405	4	3.96	0.019	0.02	<0.1	8.2	<0.02	0.06	116	1.0	0.04	9.6
006532	Silt	0.063	5.1	72.7	0.71	47.0	0.466	4	4.65	0.011	0.01	<0.1	11.6	0.07	0.07	199	1.3	0.03	14.7
006533	Silt	0.067	5.5	69.1	0.69	56.1	0.454	3	4.77	0.012	0.01	<0.1	11.7	0.10	0.07	199	1.4	0.02	14.9
006534	Silt	0.052	2.8	35.0	1.04	33.7	0.428	3	4.31	0.020	0.04	<0.1	8.2	<0.02	0.06	108	1.1	0.02	10.8
006535	Silt	0.048	5.9	71.3	0.86	15.5	0.909	1	6.50	0.013	<0.01	<0.1	15.0	<0.02	0.04	299	1.8	<0.02	12.5
006536	Silt	0.046	6.2	68.0	0.69	16.9	1.032	<1	5.97	0.011	<0.01	<0.1	14.7	<0.02	0.04	321	1.4	0.03	12.4
006537	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Acme Analytical Laboratories (Vancouver) Ltd.

1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: Schau, Mikkel
1007 Barkway Terrace
Brentwood Bay BC V8M 1A4 Canada

Project: KLEJNE

Report Date: March 18, 2010

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN10000953.1

Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.01	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
Pulp Duplicates																				
006529	Silt	5.27	90.18	3.64	92.5	105	46.9	60.4	4958	7.02	45.3	1.7	2.5	0.6	19.2	0.64	0.16	0.05	305	2.09
REP 006529	QC	5.38	93.89	3.89	95.2	116	49.5	64.8	5289	7.27	54.2	1.8	1.3	0.5	21.2	0.61	0.19	0.05	310	2.20
Reference Materials																				
STD DS7	Standard	19.36	102.4	60.31	384.9	785	50.0	8.8	612	2.34	50.5	4.4	77.5	4.2	68.7	6.29	5.97	4.56	81	0.94
STD DS7 Expected		20.5	109	70.6	411	890	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	4.6	4.51	84	0.93
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



Acme Analytical Laboratories (Vancouver) Ltd.
 1020 Cordova St. East Vancouver BC V6A 4A3 Canada
 Phone (604) 253-3158 Fax (604) 253-1716

www.acmelab.com

Client: **Schau, Mikkel**
 1007 Barkway Terrace
 Brentwood Bay BC V8M 1A4 Canada

Project: KLEJNE
 Report Date: March 18, 2010

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN10000953.1

Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	
MDL	0.001	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	
Pulp Duplicates																			
006529	Silt	0.039	4.3	68.5	0.96	29.8	0.654	4	5.35	0.010	<0.01	<0.1	10.5	<0.02	0.03	85	1.2	<0.02	17.0
REP 006529	QC	0.046	4.6	72.5	0.97	30.8	0.719	6	5.20	0.012	<0.01	<0.1	11.5	<0.02	0.03	78	1.8	0.04	16.4
Reference Materials																			
STD DS7	Standard	0.072	12.0	174.4	1.02	405.2	0.126	38	0.99	0.088	0.45	4.0	2.6	4.23	0.19	196	3.7	1.22	4.6
STD DS7 Expected		0.08	11.7	179	1.05	370.3	0.124	38.6	0.959	0.089	0.44	3.4	2.5	4.19	0.19	200	3.5	1.08	4.6
BLK	Blank	<0.001	<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

Final Report
Activation Laboratories

Analyte Symbol	Li	Be	B	Na	Mg	Al	Si	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga
Unit Symbol	ppm	ppm	ppm	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.005	5	0.01	0.01	2	0.2	0.01	0.1	0.5	1	1	1	0.1	0.01	0.01	5	0.2	1	0.1
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
KL10TR01	0.9	< 0.005	219	0.06	> 1.60	11000	< 0.2	0.1	17.5	< 0.5	126	3	3	27100	0.13	9.01	65	81.1	239	1
KL10TR02	1.1	< 0.005	214	0.06	> 1.60	16600	< 0.2	> 1.60	14.4	1	291	9	4	44500	0.24	7.18	50	88.8	417	1.8
KL10TR03	0.6	< 0.005	278	0.1	> 1.60	12100	< 0.2	0.1	10.4	< 0.5	123	3	2	1000	0.1	3.2	43	88.9	452	1.6
KL10TR04	1.4	< 0.005	278	0.32	> 1.60	9590	< 0.2	> 1.60	12.4	1	216	11	4	45900	0.23	5.38	33	232	474	1.9
KL10TR05	0.7	< 0.005	270	0.08	> 1.60	3320	< 0.2	> 1.60	13.7	1	192	5	3	10800	0.15	2.2	17	77.7	303	0.9
KL10TR06	0.6	< 0.005	236	0.07	> 1.60	12200	< 0.2	> 1.60	10.2	1	242	7	3	8710	0.2	3.22	48	122	548	1
KL10TR07	0.6	< 0.005	237	0.1	> 1.60	5080	< 0.2	0.1	10.1	1	204	6	4	32700	0.18	4.51	28	103	452	1.5
KL10TR08	1	< 0.005	215	0.11	> 1.60	5300	< 0.2	0.1	10.2	1	177	5	5	9250	0.16	1.76	29	125	690	1
KL10TR09	0.9	< 0.005	193	0.09	> 1.60	14600	< 0.2	> 1.60	10.8	1	160	5	3	12200	0.12	2.92	28	123	400	0.9
KL10TR10	1.2	< 0.005	281	0.13	> 1.60	9830	< 0.2	> 1.60	11.3	1	304	11	5	19900	0.29	7.86	53	97.4	677	1.6
KL10TR11	1.4	< 0.005	335	0.12	> 1.60	13600	< 0.2	> 1.60	11.2	1	247	7	4	27200	0.2	15.6	44	109	426	1.4
KR10TR01	2.3	< 0.005	183	0.2	> 1.60	15100	0.5	> 1.60	8	4	514	24	11	12800	0.58	11.7	37	263	382	2.5
BL1	2.7	< 0.005	1600	0.65	> 1.60	4170	< 0.2	> 1.60	11.6	1	178	6	4	9840	0.13	1.44	17	74.3	710	1.1
BL2	2.2	< 0.005	1700	0.44	> 1.60	3620	< 0.2	0.1	10.6	1	169	5	3	7980	0.11	1.35	15	78.2	679	0.9

Report: A10-1422
 Report Date: 4/1

Final Report
Activation Laboratories

Analyte Symbol	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sb	Te	Cs	Ba	La	Ce	Pr	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	1	0.01	0.1	0.001	0.5	0.005	0.1	0.2	0.01	1	0.02	0.01	0.001	3	0.002	0.01	0.002	0.002
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
KL10TR01	< 0.1	< 1	2	67	206	1	< 0.5	< 0.005	0.3	0.2	1.08	4	0.16	0.1	0.8	35	0.9	1.6	< 0.002	1
KL10TR02	< 0.1	1	2	38	111	2	< 0.5	< 0.005	0.4	0.3	2.52	9	0.96	0.1	1	46	2.4	4.8	1	2
KL10TR03	< 0.1	< 1	1	77	58.1	< 0.001	< 0.5	< 0.005	0.7	< 0.2	8.94	11	0.41	0.1	2	28	1.1	1.7	< 0.002	1
KL10TR04	< 0.1	2	1	87	99.8	1	< 0.5	< 0.005	1.3	0.6	9.38	21	0.71	0.1	2.3	73	3.6	6.2	1	2
KL10TR05	< 0.1	< 1	1	69	162	1	< 0.5	< 0.005	0.5	< 0.2	3.12	6	0.71	0.1	1.2	83	1.8	3.3	< 0.002	1
KL10TR06	< 0.1	< 1	1	62	204	1	< 0.5	< 0.005	0.4	0.7	2.82	6	0.25	0.1	0.8	195	2.5	4.9	< 0.002	2
KL10TR07	< 0.1	< 1	2	110	90.8	1	< 0.5	< 0.005	0.4	0.3	3.92	7	0.36	0.1	0.7	177	4.9	8.5	1	3
KL10TR08	< 0.1	< 1	1	59	161	2	< 0.5	< 0.005	1	0.3	7.3	11	1.3	0.1	0.6	116	11	18	2	7
KL10TR09	< 0.1	1	2	69	124	1	< 0.5	1	0.9	0.6	7.18	7	1.52	< 0.01	1.2	64	3.5	5.2	1	2
KL10TR10	< 0.1	< 1	3	68	129	1	< 0.5	< 0.005	0.6	0.4	7.64	10	0.37	0.1	1.3	63	2.7	4.6	1	2
KL10TR11	< 0.1	< 1	2	78	143	1	< 0.5	< 0.005	0.4	0.3	4.67	6	0.43	0.1	2.8	75	2.8	5.1	1	2
KR10TR01	< 0.1	1	2	229	108	2	1	1	1	1	11.9	17	0.36	0.1	4.6	46	2.9	4.8	1	3
BL1	< 0.1	2	4	35	238	1	0.6	< 0.005	1.7	0.3	4.68	7	1.08	0.1	0.3	132	2	3.3	< 0.002	1
BL2	< 0.1	1	3	44.5	224	< 0.001	< 0.5	< 0.005	1.7	0.2	4.19	4	0.84	0.1	0.3	111	1.5	2.05	< 0.002	1

Final Report
Activation Laboratories

Analyte Symbol	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Tl	Pb	Bi	Th	U	% Yield
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.01	0.001	0.5	0.1	0.001	0.1	0.05	0.001	0.001	
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
KL10TR01	0.2	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	2.3	< 0.001	11	< 0.05	< 0.001	< 0.001	2.17
KL10TR02	0.5	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	2.1	< 0.001	18	0.1	< 0.001	< 0.001	2.23
KL10TR03	0.1	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1	< 0.001	18	0.1	< 0.001	< 0.001	2.38
KL10TR04	0.5	< 0.001	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	2.4	< 0.001	49	0.2	< 0.001	< 0.001	2.34
KL10TR05	0.3	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1.3	< 0.001	13	< 0.05	< 0.001	< 0.001	1.95
KL10TR06	0.3	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1	< 0.001	11	< 0.05	< 0.001	< 0.001	2.24
KL10TR07	0.5	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1.8	< 0.001	21	0.1	< 0.001	< 0.001	2.34
KL10TR08	1.2	< 0.001	1	< 0.001	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1.8	< 0.001	42	0.1	< 0.001	< 0.001	1.68
KL10TR09	0.5	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	2	< 0.001	35	0.1	< 0.001	< 0.001	1.77
KL10TR10	0.5	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	1.3	< 0.001	24	0.1	< 0.001	< 0.001	2.6
KL10TR11	0.4	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	0.7	< 0.001	21	< 0.05	< 0.001	< 0.001	1.85
KR10TR01	0.7	< 0.001	1	< 0.001	1	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	0.9	< 0.001	25	0.1	< 0.001	< 0.001	1.94
BL1	0.3	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	2.6	< 0.001	21	0.1	< 0.001	< 0.001	2.67
BL2	0.2	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	7.3	< 0.001	11.5	0.1	< 0.001	< 0.001	2.54

**Final Report
Activation Laboratories**

Analyte Symbol	Li	Be	B	Na	Mg	Al	Si	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
Unit Symbol	ppm	ppm	ppm	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	0.5	0.005	5	0.01	0.01	2	0.2	0.01	0.1	0.5	1	1	1	0.1	0.01	0.01	5	0.2	1
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
Coal Ash Std-2 Meas	< 0.005		67	0.03	0.03	1340		< 0.01	0.3	< 0.5	109	3	2	36.8	0.13	0.63		3.7	4
Coal Ash Std-2 Cert		0.46	70	0.05	0.04	1660		0.01	0.4	0.6	122	4	3	37.5	0.17	0.67		3.8	5
BL2 Orig	2.2	< 0.005	1670	0.44	> 1.60	3590	< 0.2	0.1	10.5	1	167	5	3	7940	0.1	1.33	15	76.9	681
BL2 Dup	2.2	< 0.005	1740	0.44	> 1.60	3650	< 0.2	0.1	10.6	1	170	5	3	8030	0.11	1.38	15	79.4	677
Method Blank Method Blank	< 0.5	< 0.005	< 5	< 0.01	< 0.01	< 2	< 0.2	< 0.01	< 0.1	< 0.5	< 1	< 1	< 1	< 0.1	< 0.01	< 0.01	< 5	< 0.2	< 1

Final Report
Activation Laboratories

Analyte Symbol	Ga	Ge	As	Se	Rb	Sr	Y	Zr	Nb	Mo	Ag	Cd	In	Sb	Te	Cs	Ba	La	Ce
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	1	1	0.01	0.1	0.001	0.5	0.005	0.1	0.2	0.01	1	0.02	0.01	0.001	3	0.002	0.01
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
Coal Ash Std-2 Meas	0.9	0.1	< 1	< 1	0.3	113	2	1.7	< 0.005	0.1	< 0.2	0.03	8	0.03	0.1	< 0.001	350	2.4	4.3
Coal Ash Std-2 Cert	0.9	0.1	1	1	0.34	128	1.98	3.1	0.42	0.2	0.1	0.04	7	0.05	0.05	0.04	330	2.02	3.86
BL2 Orig	0.9	< 0.1	1	3	44	221	< 0.001	< 0.5	< 0.005	1.6	0.2	4.23	4	0.86	0.1	0.3	110	1.5	2.1
BL2 Dup	0.9	< 0.1	1	3	45	226	< 0.001	< 0.5	< 0.005	1.7	0.2	4.16	4	0.83	0.1	0.3	112	1.5	2
Method Blank Method Blank	< 0.1	< 0.1	< 1	< 1	< 0.01	< 0.1	< 0.001	< 0.5	< 0.005	< 0.1	< 0.2	< 0.01	< 1	< 0.02	< 0.01	< 0.001	< 3	< 0.002	< 0.01

Final Report
Activation Laboratories

Analyte Symbol	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf	Ta	W	Re	Tl	Pb	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm
Detection Limit	0.002	0.002	0.001	0.001	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.01	0.001	0.5	0.1	0.001	0.1	0.05
Analysis Method	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS	NP-MS
Coal Ash Std-2 Meas	1	2	0.4	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001			< 0.001	1.8	< 0.05
Coal Ash Std-2 Cert	0.44	1.64	0.35	0.07	0.34	0.05	0.28	0.05	0.16	0.02	0.15	0.03	0.1	0.02			0.06	2.1	0.04
BL2 Orig	< 0.002	1	0.2	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	7.3	< 0.001	11	0.1
BL2 Dup	< 0.002	1	0.2	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	7.3	< 0.001	12	0.1
Method Blank Method Blank	< 0.002	< 0.002	< 0.001	< 0.001	< 0.01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.01	< 0.001	< 0.5	< 0.1	< 0.001	< 0.1	< 0.05

Analyte Symbol	Th	U	% Yield
Unit Symbol	ppm	ppm	ppm
Detection Limit	0.001	0.001	
Analysis Method	NP-MS	NP-MS	NP-MS
Coal Ash Std-2 Meas	1	< 0.001	
Coal Ash Std-2 Cert	0.56	0.29	
BL2 Orig	< 0.001	< 0.001	2.54
BL2 Dup	< 0.001	< 0.001	2.54
Method Blank Method Blank	< 0.001	< 0.001	