

ALTO VENTURES LTD.  
MUD LAKE AND EXPANSION LAKE PROPERTIES

REPORT ON SUMMER 2009  
SURFACE EXPLORATION PROGRAMS

ELMHIRST, LEDUC, RICKABY AND WALTERS TOWNSHIPS  
THUNDER BAY MINING DISTRICT  
ONTARIO  
NTS 42E/13  
NTS 42E/12

Sudbury, Ontario  
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## SUMMARY

During the summer of 2009, Alto Ventures Ltd. completed work on its Expansion Lake and Mud Lake properties in northwestern Ontario, including geological mapping, prospecting, overburden stripping, wahsing and sampling. The purpose of the program was to evaluate and understand the controls on gold mineralization along major shear zones and to generate targets for diamond drilling.

The Expansion Lake property hosts five gold showings spread out along the margins of a previously unknown felsic intrusive body, along the northwest shore of Expansion Lake. Other geologically interesting areas, including the historical Koski showing, Can-Am, Boundary and the Golden Eagle, were stripped, washed and examined for gold potential. Gold, at Expansion Lake, occurs in locally folded and brecciated quartz veins and related silicified wall rock, with minor to moderate amounts of disseminated pyrite and traces of chalcopyrite. Alteration includes sericite, chlorite, carbonate, epidote, plus potassic and hematite.

The Mud Lake property hosts 12 gold showings spread out over a strike length of 6.5 kilometres, along a northeast trending shear zone named the Mud Lake Shear. This shear lies slightly oblique and within the margin of the Coyle Lake granodioritic stock. Gold lies in locally folded and highly sheared zones coupled with alteration, as well as brecciated quartz veins and their related silicified walls. The dominant sulphides are disseminated pyrite with traces of chalcopyrite. Alteration includes sericite, chlorite, epidote, carbonate, plus hematite, and potassic.

Highlights of assay results from grab and channel sampling include:

Expansion Lake: Grab sample, 323 ppb (755006)

Mud Lake: Grab sample:       3221 ppb (755311)  
                                      2261 ppb (755151)  
                                      1312 ppb (755448)

Mud Lake Channel samples:

Sample No.	Trench	Length	Au (ppb)
755099	Beaver Pond	0.5 m	1356
755108	Beaver Pond	0.5 m	1056
755110	Offset	0.5 m	570
755114	Offset	0.25 m	3427
755115	Offset	0.25 m	1847
755117	Offset	0.5 m	2745
755120	Offset	0.25 m	2833
755122	South	0.5 m	1858
755123	South	0.25 m	1556
755124	South	0.25 m	877
755125	South	0.25 m	3155
755139	South	0.25	1517
755141	Main Extension	0.5 m	1184

Previous work within the Expansion Lake property focused on surface prospecting, trenching and channel sampling. No drilling has yet been completed on this property by Alto Ventures.

Previous work over the length of the Mud Lake Shear focused on surface prospecting, trenching and drilling. Drilling was completed in 2007 and 2008 on the Clarke showings, Wolf Trench and Oliver Severn Showing.

Based on the results of the 2009 summer program, it is proposed that further surface prospecting be carried out on the Expansion and Mud Lake properties, and further evaluation on the Main, Main Extension, Offset, South and Beaver Pond showings in the Mud Lake property should be carried out by diamond drilling.

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Appendix A: Sample Descriptions, Gold Assays, and ICP Certificates

Appendix B: Expansion Lake and Mud Lake Project, Photo Gallery

## **MAPS (AT END OF REPORT)**

Map 1: 2009 Mud Lake Trench Locations, 1:10,000

Map 2: 2009 Prospecting Samples, 1:20,000

Map 3: 2009 Traverses by Day, 1:10,000, Eastern sheet

Map 4: 2009 Traverses by Day, 1:10,000, Western sheet

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## 1.0 INTRODUCTION

This report discusses the 2009 surface exploration work completed by Alto Ventures Ltd. On its 100% owned Expansion Lake and Mud Lake properties. The program included preliminary and detailed geological mapping, prospecting, overburden stripping, washing and sampling on the properties, where they are situated near Jellicoe, Ontario. Field work started in early May, and continued intermittently into October, 2009.

### 1.1 Property

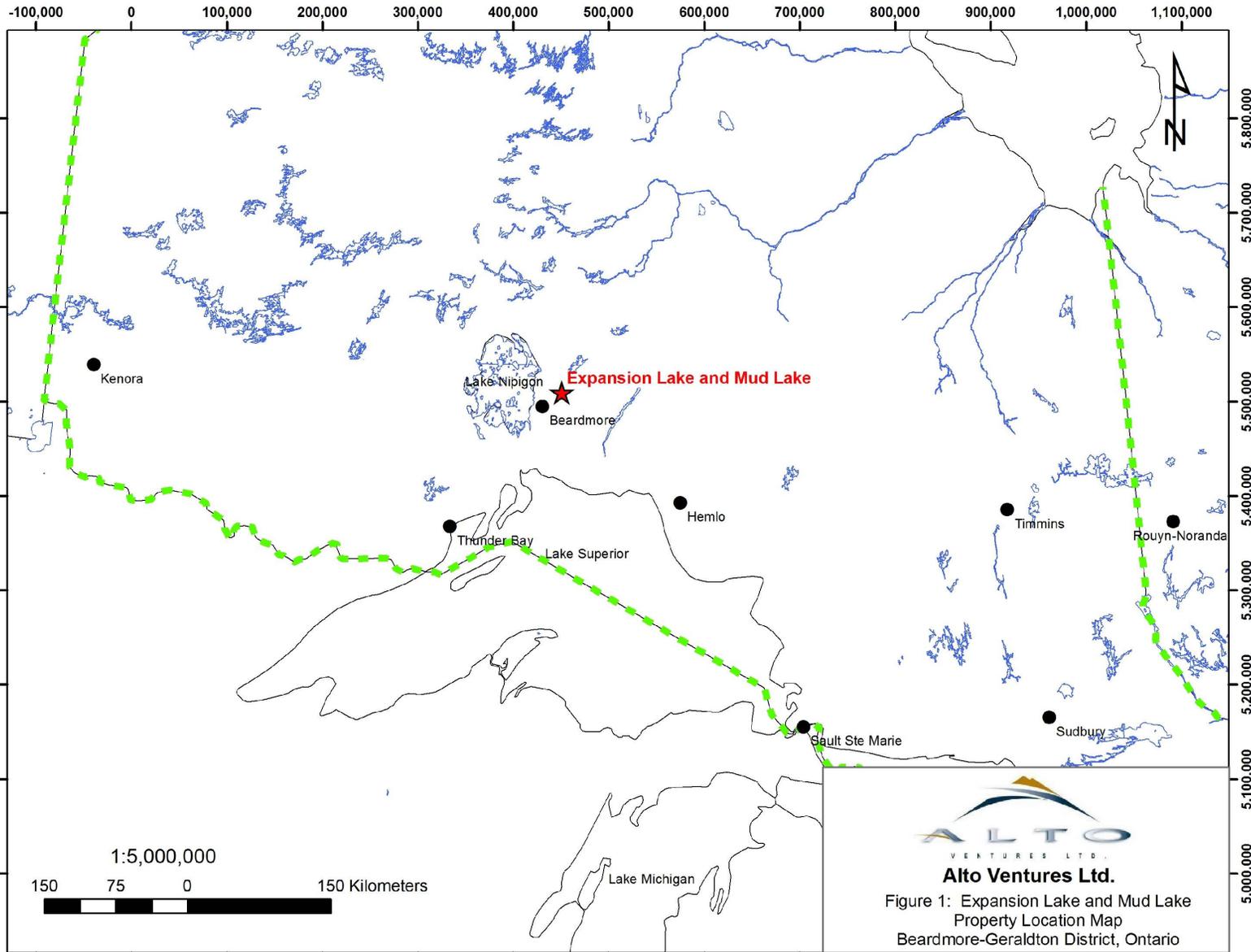
The Expansion Lake property includes 13 contiguous claims (166 units) that cover 2,656 ha. The Mud Lake property consists of 20 contiguous claims (162 units) that cover 2,592 ha, for a total of 33 claims (328 units) and 5,248 ha contiguous across the two properties. These claims are located in the Elmhirst, Walters and Rickaby townships, in the Thunder Bay Mining District, and are covered by NTS map sheets 42E/13, 42E/12 and 42E/14, illustrated in Figure 1. Coordinates are taken in NAD83 (Zone 16). The claims making up both properties are listed in Table 1 and illustrated in Figure 2.

**Table 1. List of claims for the Expansion Lake and Mud Lake properties.**

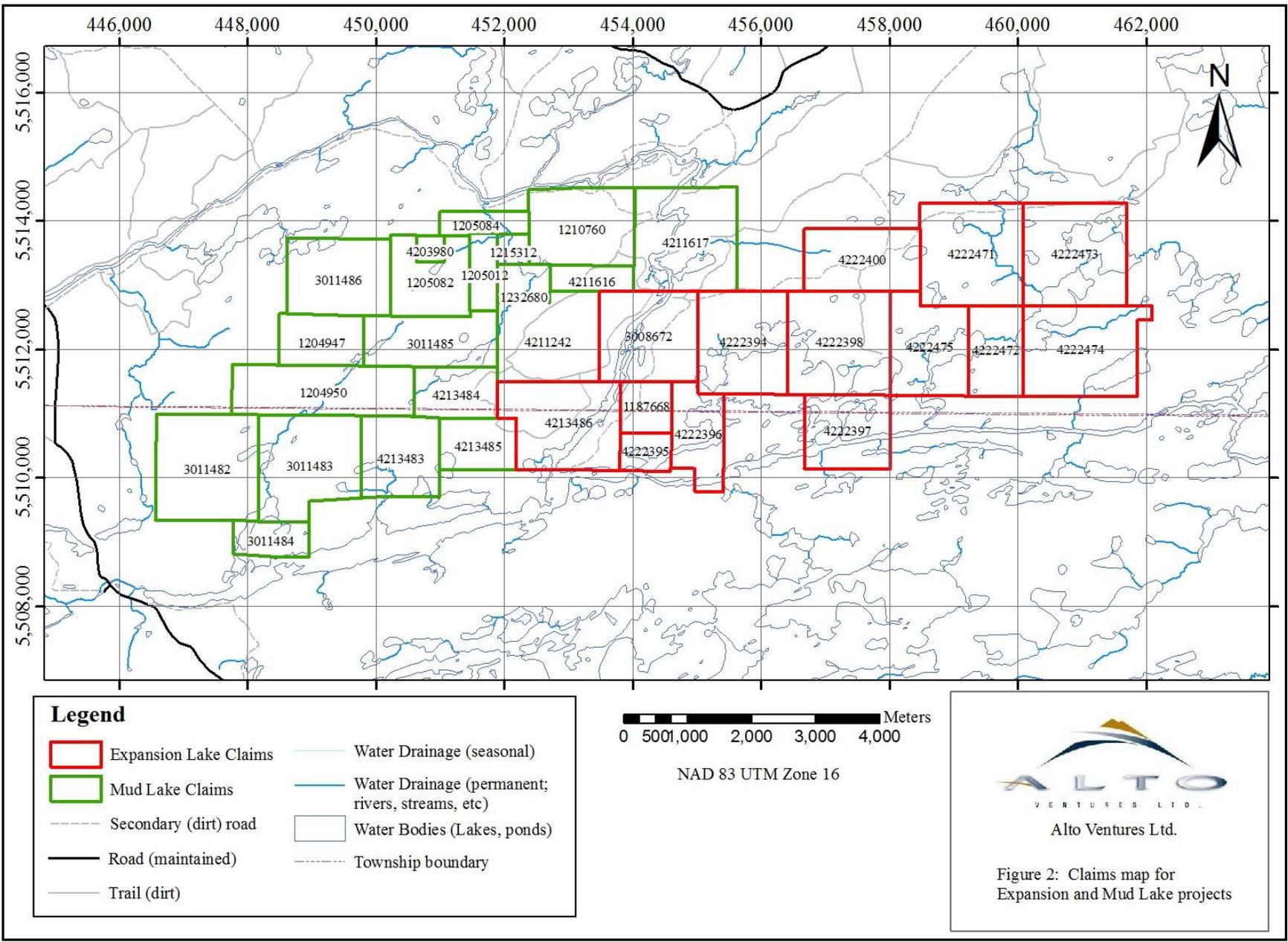
Expansion Lake Claims				
Claim	Township	Size (units)	Record Date	Annual \$ Work Required
3008672	RICKABY	15	2007-May-31	\$6,000
4222394	RICKABY	16	2007-Oct-09	\$6,400
4222398	RICKABY	16	2007-Oct-09	\$6,400
4222400	RICKABY	15	2007-Nov-23	\$6,000
4222471	RICKABY	16	2007-Nov-23	\$6,400
4222472	RICKABY	6	2007-Nov-23	\$2,400
4222473	RICKABY	16	2007-Nov-23	\$6,400
4222474	RICKABY	16	2007-Nov-23	\$6,400
4222475	RICKABY	10	2007-Nov-23	\$4,000
4213486	ELMHIRST	16	2007-May-31	\$6,400
4222395	WALTERS	4	2007-Oct-09	\$1,600
4222396	LEDUC	8	2007-Oct-09	\$3,200
4222397	LEDUC	12	2007-Oct-09	\$4,800
<b>Total</b>				
		166 units	2,656 ha	\$66,800
Mud Lake Claims				
Claim	Township	Size (units)	Record Date	Annual \$ Work Required
3011482	Walters	16	Aug 09/04	\$6,400
3011484	Walters	4	Aug 09/04	\$1,600

3011483	Walters	14	Aug 09/04	\$5,600
4213483	Walters	9	Apr 19/07	\$3,600
4213485	Walters	6	Apr 19/07	\$2,400
1204950	Elmhirst	14	Dec 04/96	\$5,600
4213484	Kaby Lake	6	Apr 19/07	\$2,400
1204947	Elmhirst	6	Apr 29/96	\$2,400
3011485	Elmhirst	11	Aug 09/04	\$4,400
4211242	Elmhirst	14	Oct 13/06	\$5,600
4211616	Elmhirst	3	Oct 05/06	\$1,200
1232680	Elmhirst	2	May 08/98	\$800
1205012	Elmhirst	3	Mar 10/98	\$1,200
1205082	Elmhirst	9	June 09/99	\$3,600
4203980	Elmhirst	1	Aug 09/05	\$400
3011486	Elmhirst	12	Aug 09/04	\$4,800
1215312	Elmhirst	1	Aug 11/99	\$400
1205084	Elmhirst	3	June 09/99	\$1,200
1210760	Elmhirst	12	Aug 06/97	\$4,800
4211617	Rickaby	16	Oct 05/06	\$6,400
Total		162 units	2,592 ha	\$64,800

The work described in this report was completed on claims TB4222471, TB4222472, TB4222473, TB4222474, TB4222475, TB4222400, TB4222394, TB4222398; and TB4211617, TB4211616, TB1210760, TB4211242, TB4213485, TB4213484, TB1205082, TB1204947, TB1204950, and TB3011482.



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Figure 1: Expansion Lake and Mud Lake  
Property Location Map  
Beardmore-Geraldton District, Ontario



**Legend**

- Expansion Lake Claims
- Mud Lake Claims
- Secondary (dirt) road
- Road (maintained)
- Trail (dirt)
- Water Drainage (seasonal)
- Water Drainage (permanent; rivers, streams, etc)
- Water Bodies (Lakes, ponds)
- Township boundary

0 500 1,000 2,000 3,000 4,000 Meters

NAD 83 UTM Zone 16



Alto Ventures Ltd.

Figure 2: Claims map for Expansion and Mud Lake projects

## **1.2 Location, Access, Infrastructure and Topography**

The properties are located roughly 25 kilometres northeast from the town of Beardmore. The Mud Lake claims can be reached by travelling along the Trans-Canada highway (No. 11), and turning onto Ontario Tertiary highway 801, approximately 22 kilometres east from Beardmore. The property is easily accessed by following this road for approximately 10 kilometres northwest, then turning east onto a main logging access road. The road is currently blocked by a berm, but is easily bypassed. The main logging road continues through the property to intersect a road that parallels the Namekaminikan (Sturgeon) River, which can be used to access the northeastern-most portions of the property.

The Expansion Lake claims can be reached by travelling further along Highway 11 and turning onto the Kinghorn road, located approximately 8 kilometres east of the town of Jellicoe. Follow the Kinghorn road to the 23 kilometre road marker, and turn west 100 metres past the marker along an abandoned logging road. Then drive approximately 10 kilometres west to the northwest end of the property. The west end of the property can also be accessed by boat from the west end of Paint Lake where it intersects with Highway 801.

Old forestry roads provide good access to almost all of the property areas. Most of the roads are 4x4 truck accessible, in particular the roads leading to the main Expansion Lake showings and the Wolf Road on the Mud Lake property leading to the Oliver Severn and No. 6 showings. The rest of the roads can be accessed by ATV vehicles or boat. Weather conditions will degrade road quality, so it is suggested to use 4x4 trucks.

Infrastructure in the Beardmore-Geraldton-Longlac area includes general and skilled labour, heavy equipment, local accommodations, paved roads and easy access to the electrical grid. More specialized services can be obtained from the more distant communities of Thunder Bay, Timmins and Sault Ste. Marie. A gold mill in the town of Beardmore had been refurbished and was being used for processing molybdenum ore, but is currently on shutdown.

The topography on the properties is characterized by a series of east to northeast trending bedrock ridges up to 25 metres high that are separated by lakes and creeks, swamps, ponds and muskeg filled valleys. Large areas of the properties are covered by sand-dominated overburden ranging from less than 1 metre to few tens of metres. Parts of the current work areas were clear-cut logged in the past 5 to 15 years, with a few stands of mature timber left here and there. Outcrop exposure ranges between locally very abundant to areas accessible only through trenching.

## **1.3 Previous Work**

### *Expansion Lake*

Previous surface work completed on the property, reported and filed with the MNDMF, are summarized below. However, there is evidence in the field of old trenching possibly dating back to the 1940's that has not been documented in the assessment files. Diamond drilling on the property is limited to 4 holes; 3 completed by Cominco Ltd (1973) near the northwest end of Expansion Lake, and 1 hole completed by

Orofino (1987) northwest of Kenneth Lake. No assay results were filed with the Cominco drill logs, and the Orofino drilling did not report any significant gold results.

The following is a summary of records of previous ground work found in the assessment work filed with the Ministry of Northern Development, Mines and Forestry.

1973 – Cominco Ltd diamond drilling of three holes northwest of Expansion Lake (Assessment Files 42E12NE0147 and 42E13SE0060)

1987 – Orofino Resources drilling of one hole northwest of Kenneth Lake (Assessment File 42E13SE0087)

1990 – Trenching by John Koski on the east trending peninsula at the north end of Expansion Lake (Assessment File 42E13SE0073) returned a 0.22oz/t grab sample, hosted in quartz veining within mafic volcanic flows.

1998-99 – Trenching and geological work for Holt, Nelson and Savage in the southeast corner of the property, east of Kenneth Lake (Assessment File 42E14SW2002)

2008 – Prospecting, trenching and channel sampling by Alto Ventures Ltd was carried out northwest of Expansion Lake; with a total of 5 trenches excavated, with 115 rock samples and 186 channel samples for a total of 301 geochemical analyses. Anomalous gold values were reported, with the highest values located in Trench 1, at 706 ppb over 0.5 m. Prospecting located the areas trenched by Koski (1990), but sampling did not reproduce the high gold assay reported. A major shear zone was located near the east end of the property, and should be further examined.

### *Mud Lake*

Early exploration on the property dates back to the 1930's, consisting of mainly prospecting, geological mapping, trenching, ground geophysics, soil and rock geochemistry and very limited diamond drilling. The diamond drilling was completed intermittently by various companies and prospectors up to 2004. In particular to note are the two soil geochemical surveys carried out by Matagami Lake Mines Ltd (1980), and Noranda Exploration (1990) which resulted in a number of anomalous gold values, including 0.25 g/t reported by Noranda, and 0.20 g/t reported by Matagami.

In 2005, Alto Ventures completed a resistivity/induced polarization survey (Rivest, 2005) and a program of geological mapping and sampling in 2005 (Tremblay, 2005). A comprehensive compilation of all the previous work can be found in Tremblay (2007). A two phase drilling program that ran from 2007 into 2008 was completed by Alto Ventures, totaling 2,036 m in 30 holes, coupled with prospecting in the southeastern portion of the property. Some of the best results from the program include (Au values > 1.0 g/t):

MUD07-14 (No. 3 showing): 2.24 g/t averaged over 2.0 m (19.0-21.0 m), including 2.92 g/t over 1.1 m (19.9-21.0 m; hosted in a quartz vein).

MUD07-16 (No. 4 showing): 5.77 g/t over 0.5 m (21.1-21.6 m; hosted in a massive quartz vein)

MUD07-17 (No. 4 showing): 2.33 g/t averaged over 1.6 m (23.1-24.7 m), including 3.23 g/t over 1.0 m.

MUD07-19 (No.5 showing): 1.446 g/t over 1.0 m (61.3-62.3 m), but nugget effect was revealed in the assay repeat, where the value obtained was 189 ppb.

MUD07-06 (Oliver Severn showing): 3.49 g/t averaged over 6.1 m (12.3–18.4 m), including 9.8 g/t over 0.5 m (14.9-15.4 m) and 14.4 g/t over 1.0 m (17.4-18.4 m), hosted in strongly sheared granodiorite with quartz-carbonate veining, and 1-10% disseminated to nodular pyrite. A lower shear zone yielded 6.22 g/t over 1.0 m (28.6-29.6 m).

MUD08-22 (Oliver Severn showing): 7.68 g/t over 1.0 m (36.6-37.6 m) hosted in a strong shear zone, correlatable to MUD07-06.

MUD08-23 (Oliver Severn showing): 2.75 g/t over 0.9 m (23.8-24.7 m) hosted in 90% quartz vein material.

MUD07-03 (No. 6 showing): 3.25 g/t over 0.7 m (15.3-16.0 m) hosted in quartz veining.

MUD07-11 (Clarke showing): 2.11 g/t averaged over 2.0 m (26.5-28.5 m), located in the South Zone shear (Tremblay, 2007), and 2.35 g/t averaged over 1.7 m (51.5-53.2 m) located in the North Zone shear.

MUD07-12 (Clarke showing): 1.96 g/t averaged over 2.0 m (82.8-84.2 m), included in a section averaging 900 ppb over 8.0 m (80.8-88.8 m) hosted in the North Zone shear.

MUD08-24 (Clarke showing): 1.13 g/t averaged over 2.0 m (19.0-21.0 m) hosted in the North Zone shear.

MUD08-25 (Clarke showing): 2.85 g/t over 1.0 m (42.5-43.5 m) hosted in the North Zone shear.

## 2.0 GEOLOGY

The properties lie within the Beardmore-Geraldton gold belt, within the southern Wabigoon Subprovince of the Superior Province. The belt is significant due to its historical production of more than 4.1 million ounces of gold from shear-hosted high grade quartz vein systems and deposits associated with banded iron formations.

The properties straddle four townships; Elmhirst, Rickaby, Leduc, and Walters, with geological mapping by the Ontario Geological Survey completed by Mackasey (1976) and Mackasey and Wallace (1978). Mud Lake is located in the Elmhirst and Walters townships, and Expansion Lake is located in the Rickaby and Leduc townships.

The units of the Beardmore-Geraldton gold belt are comprised mainly of metavolcanic rocks with associated metasedimentary rocks, intruded and underlain by felsic, mafic and ultramafic stocks. Geochemically and structurally, the Beardmore-Geraldton gold belt is divided from the Tashota-Onamon metavolcanic belt by the Paint Lake Fault. To the south of the Paint Lake Fault, the geochemistry is dominantly tholeiitic; to the north, the geochemistry is more calc-alkalic.

The geology in the Expansion Lake property is mainly comprised of metavolcanics; felsic to intermediate and mafic to intermediate volcanic rocks, with small granodioritic-dioritic intrusive stocks. In the main Expansion Lake area, there is a previously unmapped dioritic intrusive stock, along the northwestern shore of Expansion Lake. It is a relatively small intrusive body, intruding into the surrounding felsic to intermediate fragmental and bedded volcanic rocks.

The Mud Lake property is dominated by the Coyle Lake Stock (CLS; Mackasey, 1976), occupying 70% of the property, with the remaining geology dominantly composed of intermediate to felsic volcanic

rocks, near the south to southeastern portion. The CLS is dominantly granodiorite to tonalite, medium grained and massive to porphyritic in places. At the contact with the surrounding volcanic rocks, the stock becomes more dioritic in composition, creating a boundary several metres in width. Structural patterns within the CLS show a dominant ENE to NE trend, with local displacement of E-W regional faults and lithology contacts.

The main gold bearing structure on the Mud Lake property is referred to here as the Mud Lake Shear (MLS; Tremblay, 2005 and 2008) and trends northeast, parallel to a major unnamed fault that transects the CLS. This shear zone includes showings No. 1, 2, 3, 4, 5 and Oliver Severn. The orientation of the shear changes near showing No. 6, becoming more WSW, and hosting the Clarke and South Trench showings. Gold is concentrated into quartz veins associated with the shearing. Folding and brecciation locally thicken these veins, particularly at the Oliver Severn, No. 6 and Clarke showings. Mineralization is generally localized to the Mud Lake Shear zone, ranging 1 to 5% disseminated pyrite and trace amounts of chalcopyrite. Locally, stronger sulphide concentrations ranges from 5 to 25%, occurring in millimeter to centimetre-thick siliceous bands usually occurring along the margins of the shearing, or in pods within the folded sections of the MLS. A later, N-NE trending fault system has been observed, striking dominantly 020°, which transects and locally displaces the MLS and related quartz veins in a sinistral direction.

### **3.0 2009 FIELD PROGRAM**

Alto's field program at Expansion Lake and Mud Lake started with prospecting, hand stripping and washing on May 11, and continued to September 26, with one last site visit on October 10. The main Expansion Lake mapping program started June 7 and was completed by June 20, with subsequent visits later on, and the Mud Lake program then continued from June 20 until the end of the field season.

The program at Expansion Lake commenced with regional prospecting and remapping of the preexisting trenches with the intent to gain a more in-depth understanding of the geology and try to determine the controls on anomalous mineralization. Regional prospecting continued the evaluation started the previous year to locate prospective areas. A large altered shear zone in the eastern portion of the property, identified in 2008 (Koziol, 2008), was further prospected and two areas were washed, mapped and sampled.

The program at Mud Lake commenced with regional prospecting of the property to identify targets for stripping and trenching and detailed geological mapping. Some trenches were remapped to try to gain a better understanding of the controls of the gold mineralization, and new trenches were cleared and mapped.

#### **3.1 Logistics**

Prospecting started on May 11, and continued intermittently to September 26, 2009. The prospecting was carried out by Beardmore prospectors Robert and Richard Cote, under the supervision of Mike Koziol, P.Geol. Access to the properties was by truck, boat and ATV vehicles. Four hundred and fifty-one (451) grab samples were collected by prospectors Robert and Richard Cote, described by Alto's geologist Tyna

Desjardins (P.Geo) and sent for analysis. All Expansion Lake trenches are shown in figure 3, with updated Mud Lake trenches shown in Map 1. Prospecting grab sample locations are illustrated in Map 2, and day to day traverse lines are illustrated in Maps 3 and 4.

Trenching was completed with mechanical and hand-stripping carried out by Robert and Richard Cote, using high pressure pumps for washing, and ATV vehicles and 4x4 trucks to remove most of the overburden. Detailed mapping of the trenches (1:1000 and 1:2000) was completed and areas for sampling were identified. Channel samples were marked out and cut using a diamond blade saw. Individual samples varied from 0.5 metres to 1.0 metre, and were cut to a depth of 10 centimetres, and 2.5 centimetre width. One hundred and seventy (170) samples were collected during trenching, described and analyzed.

All of the rock samples were delivered by Alto staff to Accurassay Laboratories in Thunder Bay for analysis or to its Sudbury preparation facility. The gold assaying method uses a standard Fire Assay with AA finish technique on a 30 gram sub-sample taken from a 500 gram split from the submitted sample. Commercially prepared standards were inserted by Alto every 25 samples to ensure precision of the results. The laboratory ran internal check assays every 10 samples to ensure lab quality control. In total, 621 samples were assayed for gold and 614 samples were analyzed for 33 elements using ICP-MS methods (See Appendix A for sample descriptions and Lab Assay Certificates).

## **3.2 Results**

### *Expansion Lake*

#### Prospecting

Prospecting was started by Richard and Robert Cote in early May and was completed in mid-June. The major east trending shear identified in 2008 near the southern boundary of claim 4222474 was extended through additional prospecting which identified new potential areas, southeast of Daphne Lake. Three areas were stripped and washed, and channel sampled; the Can-Am trench, Boundary trench and the Golden Eagle trench. The area is relatively clear, with logging operations clear-cutting the region and exposing much of the outcrops. Washing and mechanical stripping was accomplished using high pressure pumps and ATV vehicles. Traverses and sample locations are shown in Maps 2 and 3.

#### Trench Mapping

Five trenches that were stripped, washed and sampled during the 2008 program near the northwest end of Expansion Lake were remapped in detail (1:100) to examine the potential controls on mineralization. The trenches were initially mapped in 2008 to give a rough idea of the geology present, and to indicate the locations of the channel samples. By using the locations of anomalous gold values within the channel sampling, a general interpretation of the mineralization can be made.

#### Trench 1 (See Figure 4 and photo 1 in Appendix B)

Mapping and sampling in 2008 identified an area near the western portion of the outcrop that yielded anomalous gold values of 706 ppb over 0.5 m (sample 745195), sampled within a quartz vein. Closer

examination of the quartz veining in this trench show that there are two generations of veining occurring; an earlier series of veins aligned approximately E-NE, occurring as veinlets within sections in the diorite, and later-stage, possibly barren, veins trending more E-SE. The large vein in the western portion of the trench maps (2008 and figure 4) does not contain the anomalous gold value; the quartz veinlets along the contact with the vein appear to. This is difficult to completely determine, due to the nugget-style occurrence of the gold and possible continuity issues of the quartz veinlets.

Trench 2 is located 100 metres north of Trench 1. A large, approximately 5 m wide, E-W trending shear runs through the middle of the trench with minor associated quartz veining. Samples taken on this structure show gold values above 100 ppb (See figure 5 and photo 2); samples 745247, 745276, 745279 and 745281) but are not consistent across the structure. Samples 745261, 745271, 745272 and 745281 are in close proximity to the intrusive/volcanic contact, and are associated with shearing and quartz veining. Samples 745265 and 745282 are taken across some of the aplite dykes branching from the main intrusive body. There are two dominant directions of deformation within this trench; E-W and NE-SW. It is difficult to tell which trend is associated with the mineralization event, or if there is more than one mineralization event, possibly related to the emplacement of the intermediate intrusive, and the timing of later deformation.

Trench 3 is located 200 m west from Trench 2. The trench is diorite-granodiorite, with an approximately 1 metre white quartz vein running almost E-W through the trench (see figure 6). This quartz vein is massive, with trace amounts of pyrite-chalcopyrite and galena, occurring in clusters along the southern margin of the vein (Photo 3). Fluorite is also present within the vein. Very little alteration is present, with very minor sericite associated with stronger sections of shearing, and faint hematite associate with the large quartz vein. Methodical channel sampling of this trench failed to yield any anomalous gold values, but preliminary grab samples during the 2008 trenching and washing process turned up two anomalous samples; 745071 with 736 ppb Au and 54 ppm Ag, and 745072 with 195 ppb Au and 184.95 ppm Ag. These two samples are described as quartz vein material with clusters of galena, suggesting the source is the large vein cross-cutting Trench 3.

Trench 4 is located 200 m west from Trench 3, and is composed of three highly sheared outcrops extending approximately 115 m in length. Trench 5 is 30 m north of Trench 4(c), along the trail and is part of the very strong shear zone extending through the area (see figure 7 and photo 4). The southwestern part of the trench contains the contact with the intrusive unit, with branching aplite dykes extending away from the contact. The showings are all located within a large, strong to intense shear zone, trending dominantly E-W. Anomalous gold values were obtained in the 2008 channel sampling, but only one sample (745305) was over 100 ppb, at 131 ppb over 1.0 m. This sample was located within quartz stockwork hosted in sheared felsic to intermediate fragmental volcanic rocks. Sample 745330, located on the southwestern part of Trench 5, yielded 92 ppb over 1.0 m, and was associated with quartz veining with moderate alteration.

The major east trending shear identified in 2008 near the southern boundary of claim 4222474 was extended through additional prospecting which identified new potential areas, southeast of Daphne Lake. Three areas were stripped and washed, and channel sampled; the Can-Am trench, Boundary trench and the Golden Eagle trench. The area is relatively clear, with logging operations clear-cutting the region and

exposing much of the outcrop. Washing and mechanical stripping was accomplished using high pressure pumps and ATV vehicles.

The Can-Am trench (figure 8; photos 5 and 6) is comprised of intensely altered and sheared felsic to intermediate fragmental volcanic, with trace sulphides, and minor quartz veining, in contact with an intensely sheared mafic volcanic unit located in the northwestern part of the outcrop. Alteration includes moderate to intense silicification, sericite, carbonate, and weak hematite. A 10-30 cm quartz vein is present at the contact between the felsic and mafic volcanic units, with minor hematite, pyrite and sericite alteration. There are two deformation patterns, an earlier E-NE trending series of shears and faults, parallel to subparallel to the shearing ( $071^{\circ}/86^{\circ}\text{S}$ ) affected by a later E-W trending series of faults that sinistrally offset a quartz vein in the eastern portion of the outcrop. The quartz veins seem to align with the earlier deformation, and are offset by the later E-W deformation event.

In total, 21 channel samples were cut to sample the various aspects of this trench. Anomalous gold values ( $>10$  ppb) were obtained in 4 of the samples (19%), up to a high of 195 ppb over 0.5 m (sample 755018), located in sheared mafic to intermediate volcanic, with no apparent sulphides, weak to moderate pervasive silicification and an isolated quartz vein. This sample was taken in very close proximity to the contact with the underlying felsic to intermediate fragmental volcanic rocks.

The Boundary trench (figure 9) is located 500 m to the south of the Can-Am trench, down an old logging trail along the property boundary with Kodiak Exploration Ltd. Stripping and washing exposed mainly intensely altered and sheared felsic to intermediate volcanic rocks, with minor quartz veining. Trace sulphides were present, with faint hematite staining. Alteration within this trench is very similar to that described in the Can-Am trench, with moderate to strong silicification, sericite, chlorite, carbonate and limonite (rusty staining). Overall the outcrop is moderately sheared and deformed, trending at  $075^{\circ}$ /vertical, slightly oblique to the bedding ( $095^{\circ}$ /subvertical). Twelve channel samples were cut, with no anomalous gold values obtained.

The Golden Eagle trench (figure 10) is located 450 m west of the Boundary trench; stripping and washing exposed felsic to intermediate fragmental volcanic rocks folded with mafic to intermediate volcanic rocks, with a very small dioritic intrusive in the southeastern corner of the outcrop. Quartz veining is present throughout, with minor sulphides associated along the contacts. The veins are structurally controlled, as the entire outcrop is moderate to strongly deformed/sheared and moderate altered. The folds make up syncline-anticline morphology, with the trends of the fold noses dominantly E-W, plunging shallowly at approximately  $40-45^{\circ}$  (Photo 7). Later jointing is prevalent throughout the outcrop as well.

Fourteen channel samples were taken on the Golden Eagle trench, with 14 grab samples prospected up to 460 m to the west of the stripped area. Anomalous gold values ( $>10$  ppb) were obtained in one sample, which ran at 34 ppb over 0.5 m. The sample was sheared mafic volcanic, with quartz stockwork, with tourmaline, chlorite and trace sulphides. Even with favourable geology and the presence of a major shear zone coupled with trace sulphides, there were no significant gold values reported for this trench.

The shear identified in 2008, originally thought to extend over ten metres wide, has been determined to extend over 400 m in width, occurring along the contact between sheared, metamorphosed mafic

volcanics and intermediate to felsic volcanics. The contact between the two rock types is highly sheared and folded, with the folding present in the Golden Eagle outcrop.

The historical Koski trenches (photo 8), located near the northern shore of Expansion Lake, were briefly examined with the intent of determining if further work should be carried out. Two samples were taken, with one result reporting 95 ppb (775491). The veins are very good in appearance, with trace to 5% pyrite and chalcopyrite, and the area should be stripped, washed, and methodically channel sampled.

### *Mud Lake*

#### Prospecting

Regional prospecting was carried out by Robert and Richard Cote and Alto staff to focus on areas of higher potential, relating to the Mud Lake Shear and the existing showings, such as the Oliver Severn and Clarke showings. Prospecting between the Oliver Severn showing and Showing #5 also indicated the presence of more potentially auriferous quartz veins. Near the end of the summer program, the prospecting was focused on the eastern portion of the Mud Lake property to determine the location of some historical copper showings. Traverses and sample locations are shown on Map 1, Western sheet.

#### Trench Mapping

Much of the work completed focused on the southwestern portion of the property, with further extension of the Main trench, and mapping of outcrop south of the Main trench. This led to the stripping, washing, mapping and channel sampling of the Offset trench, Main Extension, South and Beaver Pond trenches. Trench F was mapped in greater detail, as the mapping was only preliminary in 2008. A sample taken in 2008 on Trench E resulted in an anomalous gold value of 205 ppb over 0.5 m (sample 744787), so further investigation resulted in stripping, washing and mapping in greater detail, referred here to as the GM trench.

When the Main trench was mapped in 2007, the focus of the work was on the more northern portion of it. In the eastern portion of this trench, there are a number of veins with historical channel sampling. As part of examining the showings proximal to the south, this extension was mapped in detail (Figure 11) and the veins were resampled, as part of an interpretation that the veins are continuous with the veins present in the South and Offset trenches. The quartz veins trend north-northwest, dipping vertically, with minor veins trending north-northeast linking the main veins together and forming an “M”-pattern (Photo 9). Shearing in this trench dominantly trends E-W, consistent with the shearing patterns throughout this area. The quartz veins contain 10-20% carbonate, are milky white in colour, with 5-10% blebby sulphides and sulphide-limonite staining. The sulphides are dominantly pyrite, with trace chalcopyrite. Anomalous gold values, up to 1517 ppb (755139), are dominantly found within the veins. This is also consistent with the findings in the 2007 mapping. In total, 14 saw-channel samples were taken, with all of the samples in the >10 ppb range, with 9 of 14 samples obtaining gold values >100 ppb (64%).

The Main trench area was expanded to include the outcropping to the south, and outcropping to the west, where 2005 sampling had values of over 3 g/t (4417 ppb – 15269, 3554 ppb – 18024; 3174 ppb – 18027)

in the named South showing. Based on the three samples that were taken, and the presence of an unreported historical blast pit, the area was stripped and washed, mapped and methodically channel sampled. This outcrop, previously called the South showing, is referred to here as the Offset trench, referring to the structural offsets of two large, mineralized quartz veins.

The renamed Offset trench is approximately 100 m south of the Main trench, along the old forestry road, and sits proximal to the new 2009 South trench, which is an offshoot of the Main trench. Stripping and washing revealed the typical granodiorite/diorite of the Coyle Lake stock, with two large mineralized quartz veins, offset by sinistral E-W faults (Photo 10). The two veins trend mainly northeast, with minor warping caused by later deformation. The veins in the Offset trench potentially continue under the forestry road to the South trench, where they also possibly link up to the veins present in the Main trench extension (figure 12). The first vein ranges 10-15 cm, with 20-30% carbonate and 3-5% pyrite with trace chalcopyrite. The second vein, along the eastern edge of the trench, ranges 20-40 cm in width, with 40-50% carbonate, 2-3% pyrite with trace chalcopyrite, and possibly correlates to the main vein in the South trench. Shearing in this trench is consistent with that observed in the Main (2007) and Main Extension trenches, striking roughly E-W, with a vertical dip. Movement is sinistral, with an offset of approximately 4.5 m. Anomalous gold values (>10 ppb) were obtained in all 12 channel samples taken on the Offset showing, with 5 samples obtaining gold values >1000 ppb (42%), associated with the veins.

The new South trench is located approximately 5 m to the north and east of the Offset trench, just across the old forestry road (figure 13). Mineralized quartz veins are present that appear to correlate with the veins in the Offset showing (Photo 11). Previous channel sampling was repeated to ensure continuity. The trench also extends to the north-east, along the shore of a beaver pond in the vicinity, and is continuously diorite-granodiorite. The main portion of the veining is localized to the western portion of the trench. The main vein in the South trench is approximately 20-40 cm, with 40% carbonate and 2-3% pyrite with trace chalcopyrite.

Nineteen channel samples were taken to sample the continuity of the main veins, and to ascertain the gold bearing potential of minor shearing and quartz breccia to the east along the trench. The majority of samples to return anomalous gold values were located in proximity to the main vein, with 8 of 19 samples obtaining values >100 ppb. One sample, located to the east along the trench, ran 262 ppb over 50 cm, had stringers of pyrite associated with a fine (1-2 cm) quartz vein. The variability shown in samples 755122, 755123 and 755127 demonstrate the nugget-style gold occurrence in the main vein.

The Beaver Pond trench is located 200 metres to the east of the Main-South-Offset showings (figure 14). The geology there is the same granodiorite-diorite stock, with a large 10-30 cm, mineralized quartz vein continuous over more than 40 m, trending north-northeast with a vertical dip, similar to the veins found in the Main Extension, Offset and South trenches. This vein contains 10-30% carbonate, with 3-5% blebby to stringers of pyrite, with trace chalcopyrite. The vein becomes discontinuous in the northern portion of the trench, but still shows anomalous gold values (sample 755108; 1056 ppb over 0.5 m). This vein is not as auriferous as the southern veins, but still contains the potential for higher numbers, due to the nugget-style of the mineralization.

Twenty seven channel samples were taken at the Beaver Pond trench, with anomalous gold values (>10 ppb) obtained in 21 samples (78%). The majority of the anomalous gold values were obtained in the quartz vein, or associated with strong silicification and potassic alteration.

The GM trench is located proximal to Trench E (figure 15), and was stripped and washed to investigate a grab value of 205 ppb (sample 744787; photo 8) collected in 2008. The initial sample location was obtained from a small, <10 cm mineralized quartz vein, so further stripping and washing exposed a larger area of strong shearing and silicification and potassic alteration. The smaller outcrop (previously mapped as part of Trench E) is almost completely sheared, with the shear not quite continuing to the larger outcrop. The southern portion of the larger trench has a large 1-2 m shear trending roughly E-W. Quartz veining is present within the trench, but non-mineralized.

In total, eight samples were obtained, with 3 of 8 value showing anomalous gold values > 10 ppb (38%). The highest values were associated within the large shear in the larger outcrop, but still did not exceed 50 ppb.

Trench F (2008) was remapped in detail (figure 16), to further examine the controls on mineralization present in sample. Prospecting in 2005 resulted in a grab value of 1.6 g/t Au (sample 482110), located in a vein of quartz breccia. The trench is the same diorite as observed throughout the area, with small localized shears and a small 1 m diabase dike cutting through the eastern portion, trending northeast. There are large sections of quartz breccia, with trace amounts of sulphides. Patches of potassic alteration are also present, not always associated with sections of shearing. Chlorite is associated with shearing, and forms a pervasive envelope around some shears present. Shearing is generally northwest to northeast, with no overall dominant trend.

There were a total of 27 channel samples taken on this outcrop, testing the various sections of alteration and quartz breccia/veining, with anomalous gold values >10 ppb obtained in 6 samples. Sample 661525 was intended to test the historical grab sample 482110, and did not repeat the 1.6 g/t Au value.

#### **4.0 CONCLUSIONS AND RECOMMENDATIONS**

Prospecting, mechanical stripping and sampling were completed on both properties. In total, 197 analyses were performed for gold and 33 other elements for the Expansion Lake samples and 424 analyses were performed for the Mud Lake samples.

Prospecting and trenching in the southeastern corner of the Expansion Lake property (claim 4222474) extended the width of the shear zone previously identified in 2008 from 10 m to over 400 m, with the potential for anomalous gold values based on the presence of favourable alteration. Three areas were cleared with hand stripping, and favourable shearing and alteration was uncovered at each area. Anomalous gold values were returned, but none of economic importance. However, the anomalous gold values coupled with the alteration styles and intensity suggests the presence of a large hydrothermal system, relating to the large scale shear in the region. Furthermore, the region located between the showings at Expansion Lake and the new trenches is relatively underexplored (Map 3), and potentially

down along trend from Kodiak Exploration's Golden Mile find. Further prospecting and exploration is recommended.

Prospecting was continued in the Mud Lake property, particularly in the northeastern portions around the locations of 3 historical pits to the west of the Sturgeon River, and to carry over the prospecting that commenced in 2008. Subsequent washing and mapping of extended trenches in the southwestern portion of the Mud Lake property (Main, South, Offset and Beaver Pond trenches) has identified a number of auriferous quartz veins, with assays values >1000 ppb. Drilling is recommended on these outcrops to determine the depth and continuity of these veins, and to determine the economic potential of this area.

## 5.0 REFERENCES

Koziol, M. 2008: Report on 2008 Exploration Program on the Expansion Lake Property, Elmhirst, Rickaby, Walters and Leduc Townships, Beardmore-Geraldton Area, Ontario, internal report, February, 2009.

Mackasey, W.O., and Wallace, H. 1978: Geology of Elmhirst and Rickaby Townships, District of Thunder Bay; Ontario Div. Mines, GR 168, 101 p. Accompanied by Map 2373, scale 1 inch to ½ mile (1:31,680).

Mackasey, W.O. 1976: Geology of Walters and Leduc Townships, District of Thunder Bay; Ontario Div. Mines, GR 149, 58 p. Accompanied by Map 2356, scale 1 inch to ½ mile (1:31,680).

Rivest, H. 2005: Alto Ventures Ltd. Resistivity/Induced Polarization Survey, Mud Lake Project, Elmhirst Township, Geraldton-Beardmore Gold Camp, Ontario, Canada, Logistics and Interpretation Report, 05N872, internal report.

Tremblay, R.J. 2005: Alto Ventures Ltd. Mud Lake Project, Report on Summer 2005 Geological Mapping and Sampling, internal report, October 2005.

Tremblay, R.J. 2007: Alto Ventures Ltd. Report on the 2007 Exploration Program Including Diamond Drilling, Prospecting and Mechanical Stripping, Elmhirst and Walters Townships, Thunder Bay Mining District, Ontario, NTS 42E/13. Internal report, May 2008.

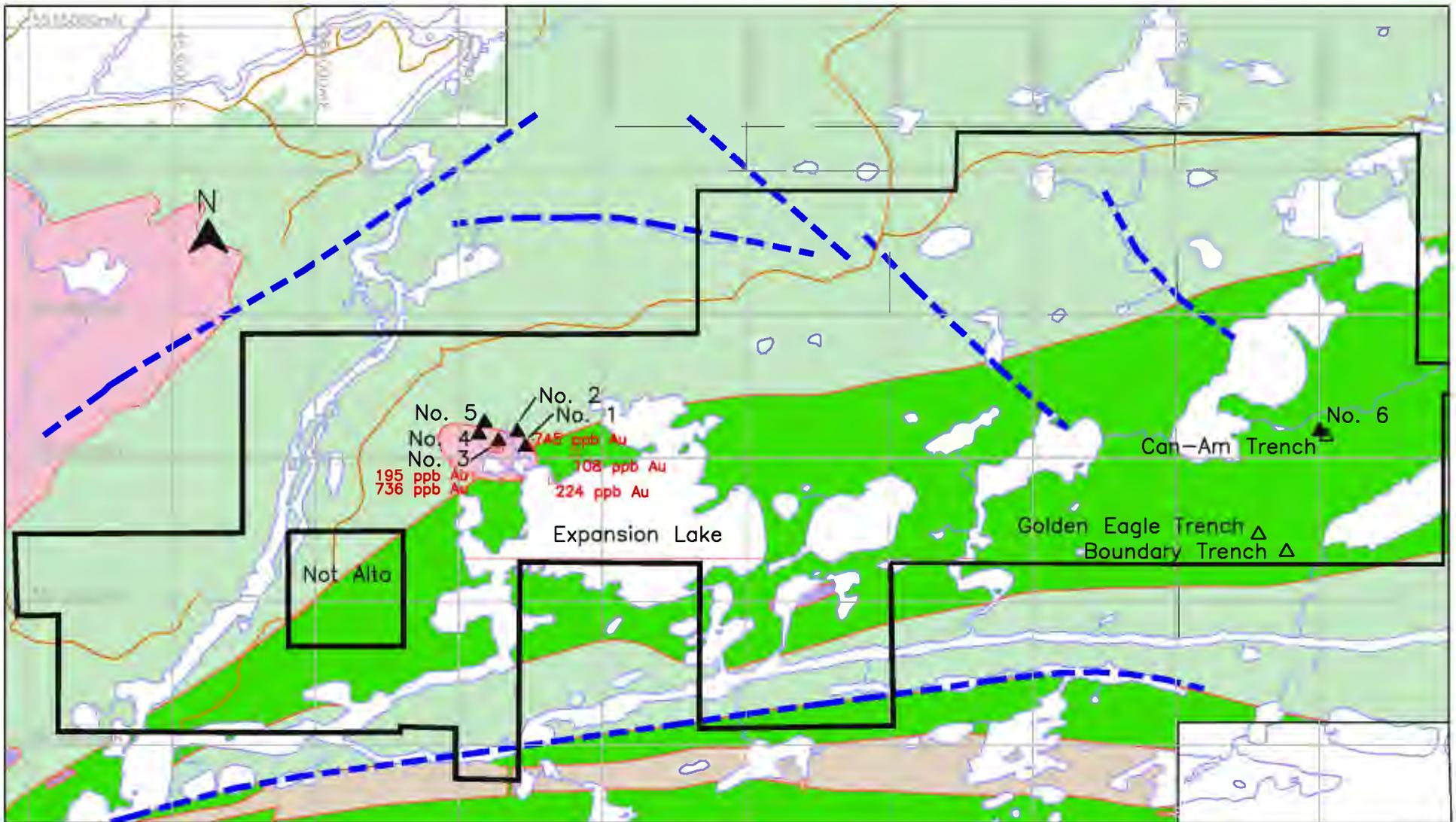
## 6.0 STATEMENT OF QUALIFICATION

I, Tina-Marie (Tyna) Desjardins, P.Ge, resident at 4-3217 Errington Ave, Chelmsford, Ontario, P0M 1L0, do hereby certify that:

1. I am currently employed as a geologist by Alto Ventures Ltd.
2. I graduated from Brandon University, Brandon, Manitoba with a B.Sc. degree in Geology in 2001. I received the Honours Diploma of Geology from Laurentian University, Sudbury, Ontario in 2002. I am currently participating in the Graduate program at Laurentian University, Sudbury, Ontario.
3. I am a licensed member in good standing with the Association of Professional Geoscientists of Ontario (No. 1407).
4. I have worked continuously as an exploration geologist since 2004, exploring for brownfields Ni-Cu-PGE deposits in the Sudbury Basin, and exploring for gold deposits in the Canadian Shield including the Superior Province in Ontario and Quebec.
5. I have personally worked on the Expansion and Mud Lake properties and supervised and participated in the field work described in this report.
6. I have declared in this report all the information, which to the best of my knowledge, has direct bearing on the property under study and on the recommendations put forward.
7. I do not hold a direct interest on the Expansion Lake or Mud Lake properties of Alto Ventures Ltd.

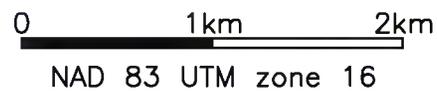
 (#1407)

Tina-Marie (Tyna) Desjardins, P.Ge  
January, 2010

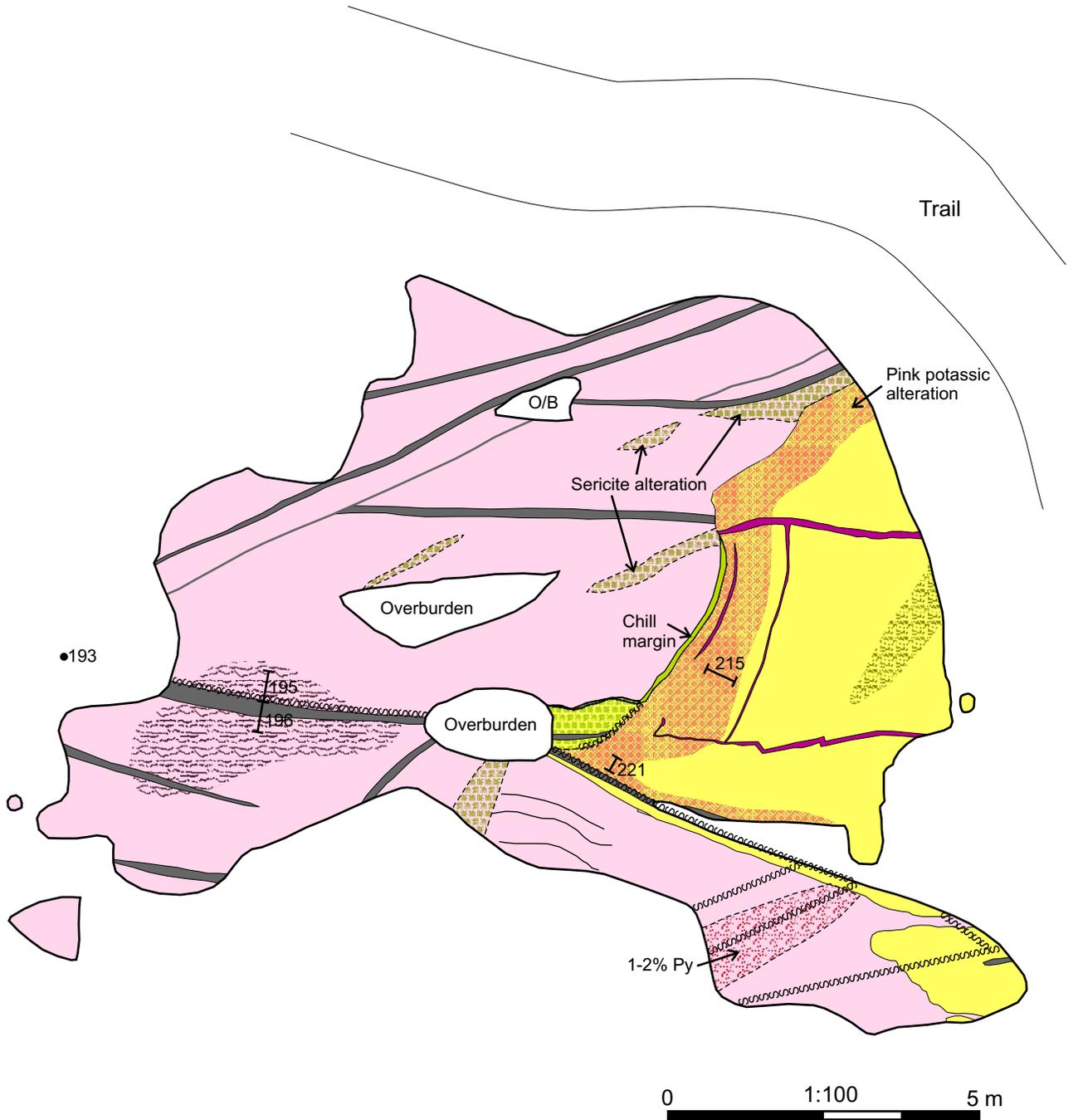


**Legend:**

- |   |                      |   |  |
|---|----------------------|---|--|
|  | Granite/Diorite      |  | Fault                                    |
|  | Gabbro               |  | Road                                     |
|  | Metasediments        |  | Property Boundary                        |
|  | Mafic Metavolcanics  |  | 2008 Anomalous Au<br>Prospecting Samples |
|  | Felsic Metavolcanics |  | 2008 Trench                              |
|   |                      |  | 2009 Trench                              |



Alto Ventures Ltd.  
Expansion Lake Project  
2009 Trench Locations  
Figure 3



Sample #	Au (ppb)
745193	238
745195	706
745196	112
745215	133
745221	108

**Legend**

- Felsic to Intermediate Volcanics
- Diorite
- Quartz veins
- Quartz veining/stockwork
- Channel Sample (>100 ppb) with sample number prefixed by 745; 2008 results
- Shearing



**Alto Ventures Ltd.  
Expansion Lake  
Trench No. 1**

January, 2010

**Figure 4**



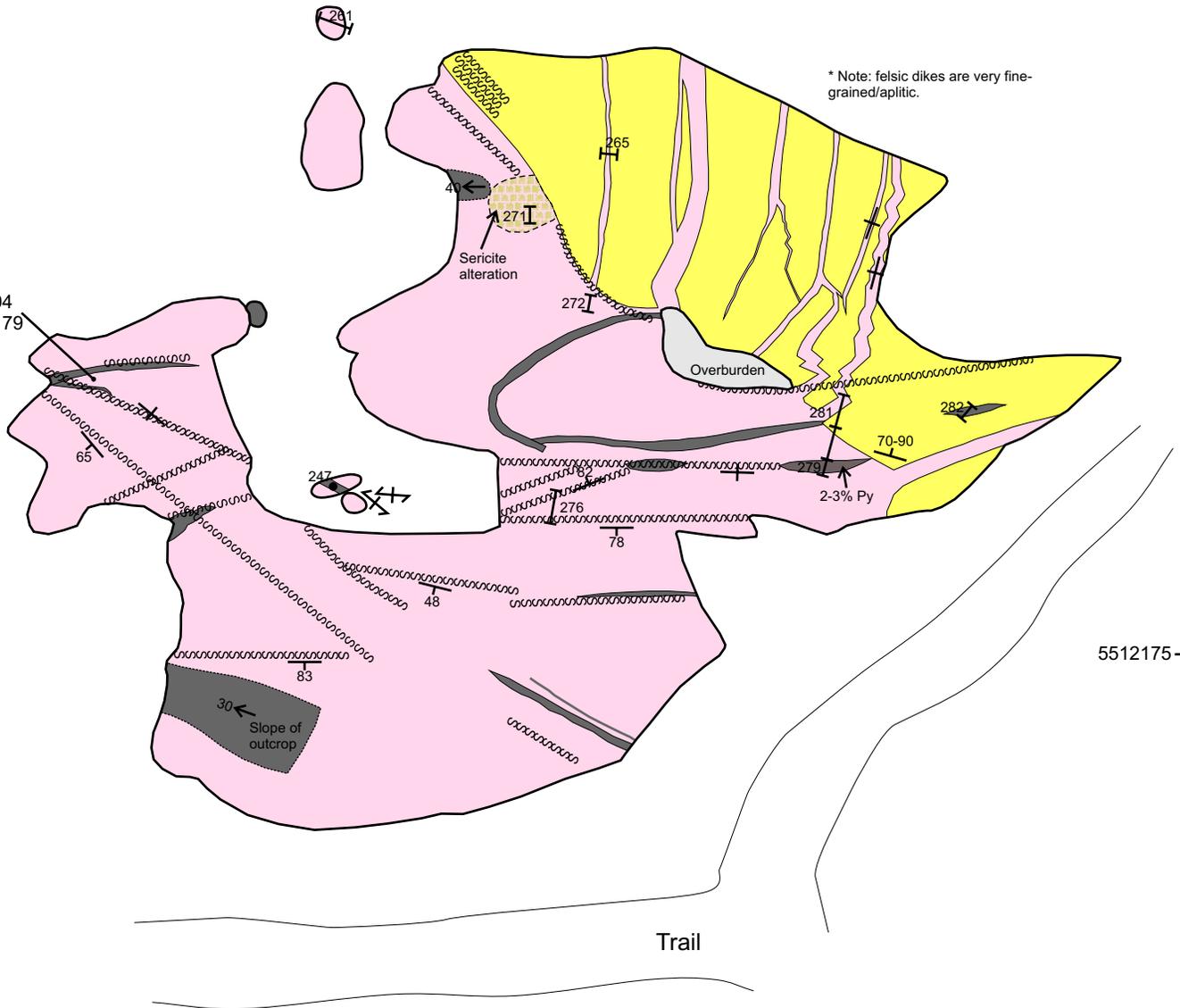
455410

Claim 4222394

5512185

\* Note: felsic dikes are very fine-grained/aplitic.

455404  
5512179



5512175

Trail

0 1:100 5 m

Sample #	Au (ppb)
745247	142
745261	617
745265	302
745271	201
745272	143
745276	112
745279	131
745281	250
745282	108

Legend	
	Felsic to Intermediate Volcanics
	Diorite
	Quartz veins
	Quartz veining/stockwork
	Channel Sample (>100 ppb) with sample number prefixed by 745; 2008 results
	Shearing



Alto Ventures Ltd.  
Expansion Lake  
Trench No. 2

January, 2010

Figure 5



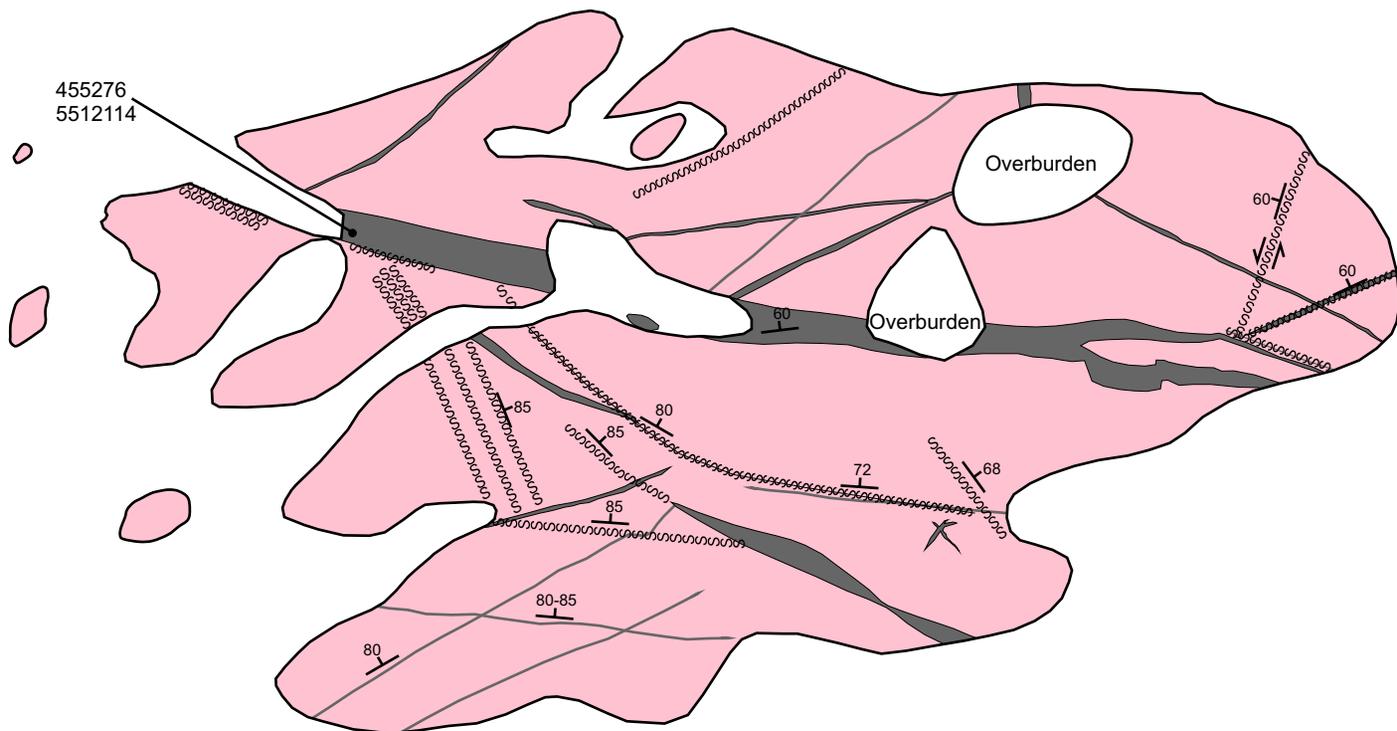
455275

455285

Claim 4222394

455276  
5512114

5512115



5512105

**Legend**

-  Diorite
-  Quartz veins
-  Faults/shearing



Alto Ventures Ltd.  
Expansion Lake  
Trench No. 3

January, 2010

Figure 6

455150

455200



Trench 5

5512250

**Legend**

- Felsic to Intermediate Volcanics
- Diorite
- Quartz veins
- Quartz veining/stockwork
- I221
 Channel Sample (>100 ppb) with sample number prefixed by 745; 2008 results
- Shearing

Claim 4222394

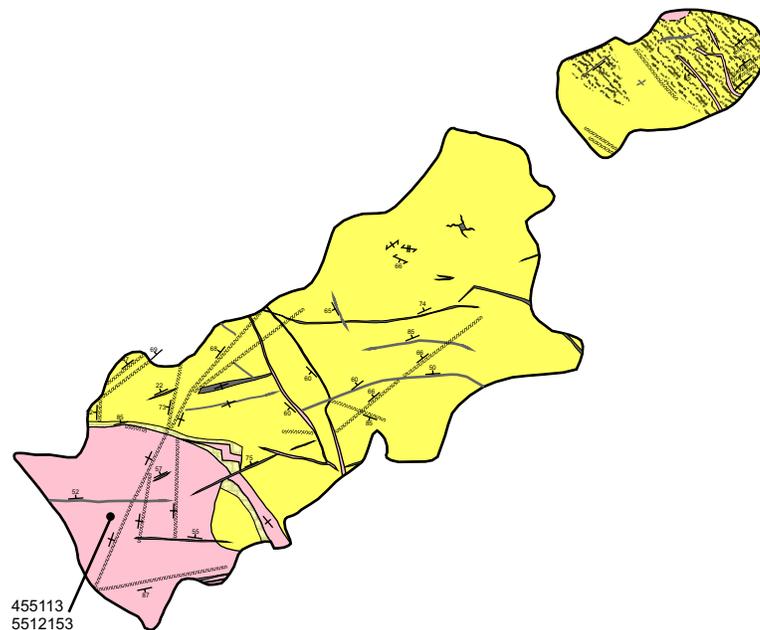
455190  
5512215

5512200

Trench 4

1:500

0 10 m



455113  
5512153



Alto Ventures Ltd.  
Expansion Lake  
Trenches No. 4 and 5

January, 2010

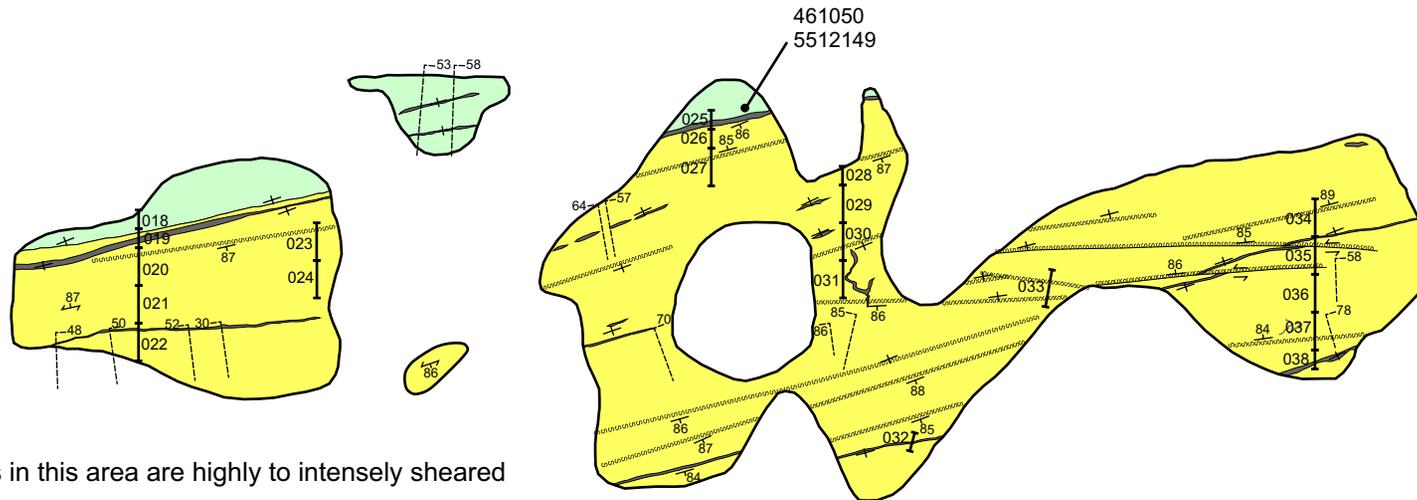
Figure 7



461050

Claim 4222474

5512150



N.B.: The units in this area are highly to intensely sheared



Sample No.	Au (ppb)	Sample No.	Au (ppb)
755018	195	755029	<5
755019	<5	755030	<5
755020	<5	755031	<5
755021	29	755032	<5
755022	<5	755033	<5
755023	<5	755034	<5
755024	49	755035	<5
755025	<5	755036	<5
755026	<5	755037	<5
755027	12	755038	<5

**Legend**

- Felsic to Intermediate Volcanics
- Mafic to Intermediate Volcanics
- Quartz veins
- Channel Sample with sample number prefixed by 755
- Faults/shearing



**Alto Ventures Ltd.**  
**Expansion Lake**  
**Can-Am Trench**

January, 2010

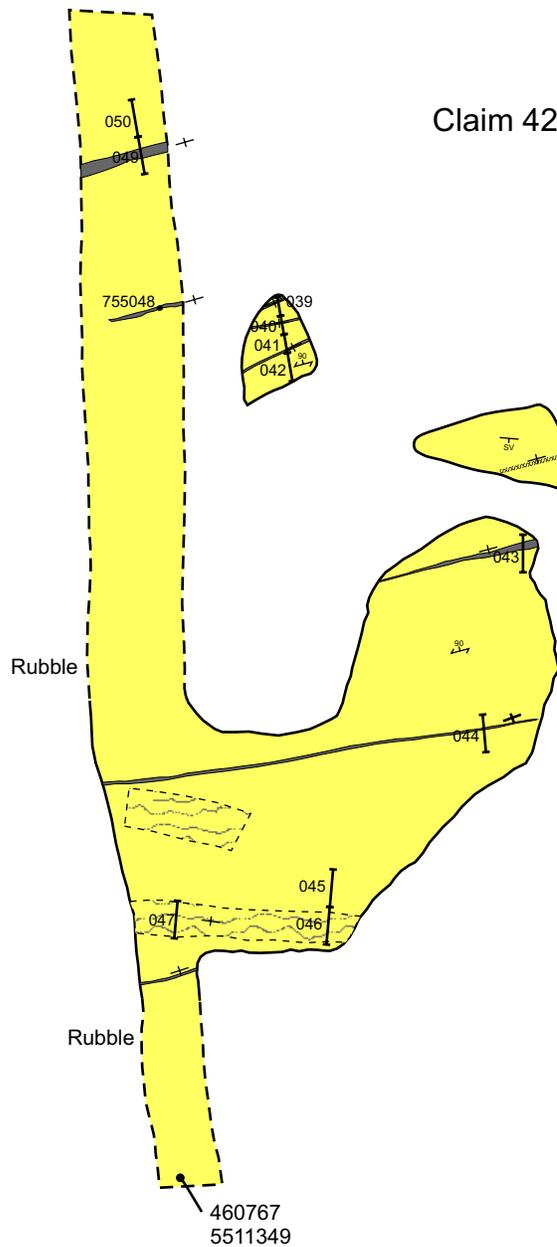
**Figure 8**



460775

Claim 4222474

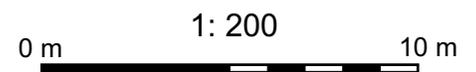
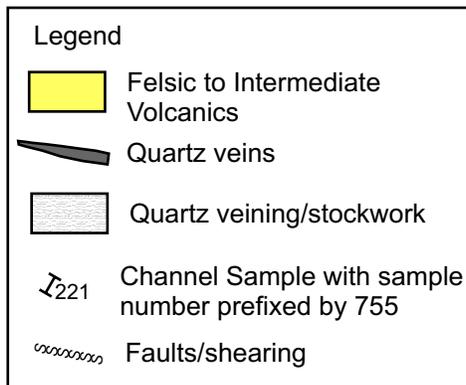
5511375



5511350

460767  
5511349

Sample No.	Au (ppb)
755039	<5
755040	<5
755041	<5
755042	6
755043	<5
755044	<5
755045	<5
755046	<5
755047	<5
755048	<5
755049	<5
755050	<5

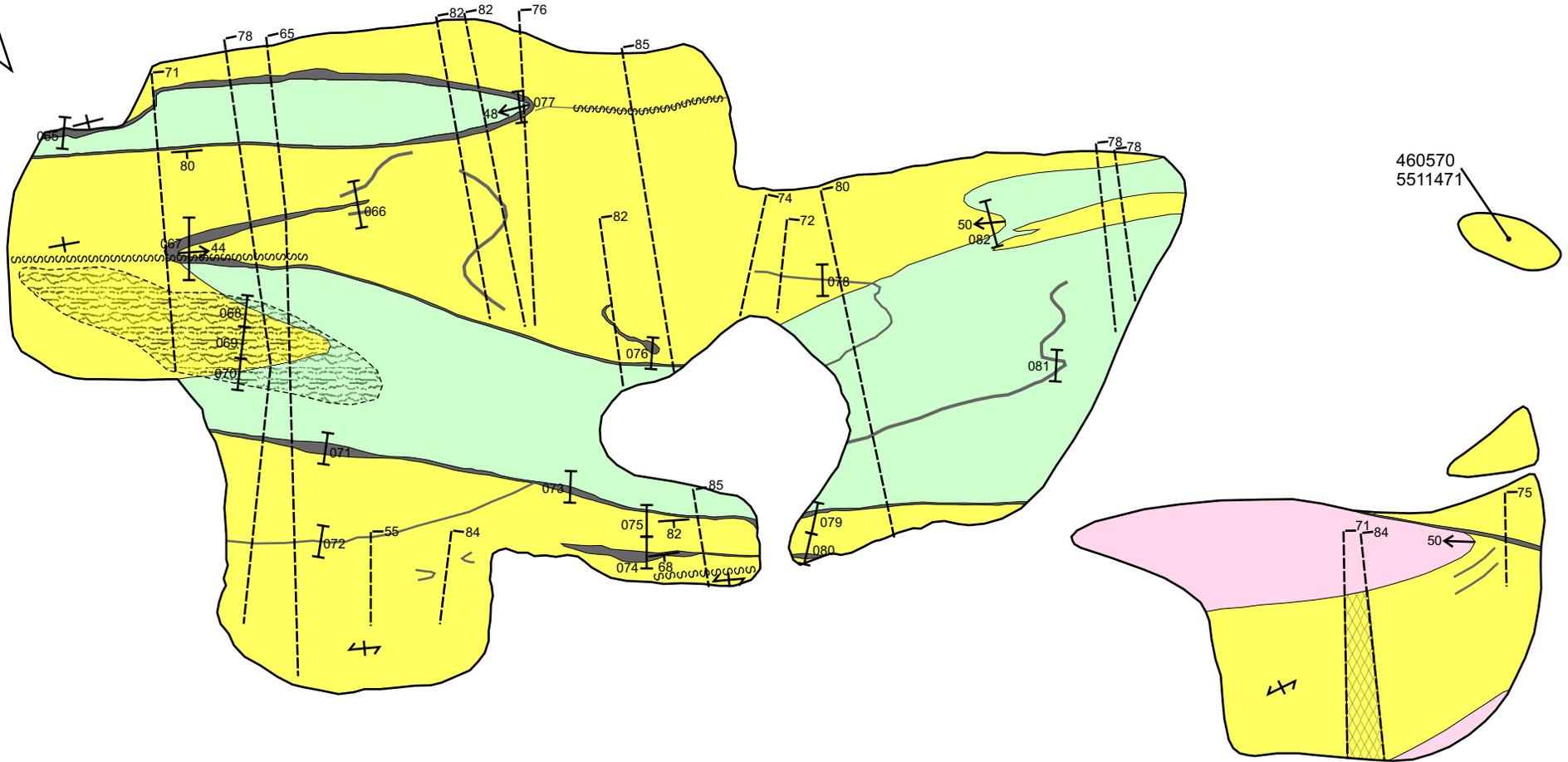


Alto Ventures Ltd.  
Expansion Lake  
Boundary Trench

January, 2010

Figure 9

Claim 4222474



Sample No.	Au (ppb)	Sample No.	Au (ppb)
755065	<5	755074	<5
755066	<5	755075	<5
755067	<5	755076	<5
755068	<5	755077	<5
755069	<5	755078	<5
755070	7	755079	34
755071	<5	755080	<5
755072	<5	755081	7
755073	<5	755082	6



**Legend**

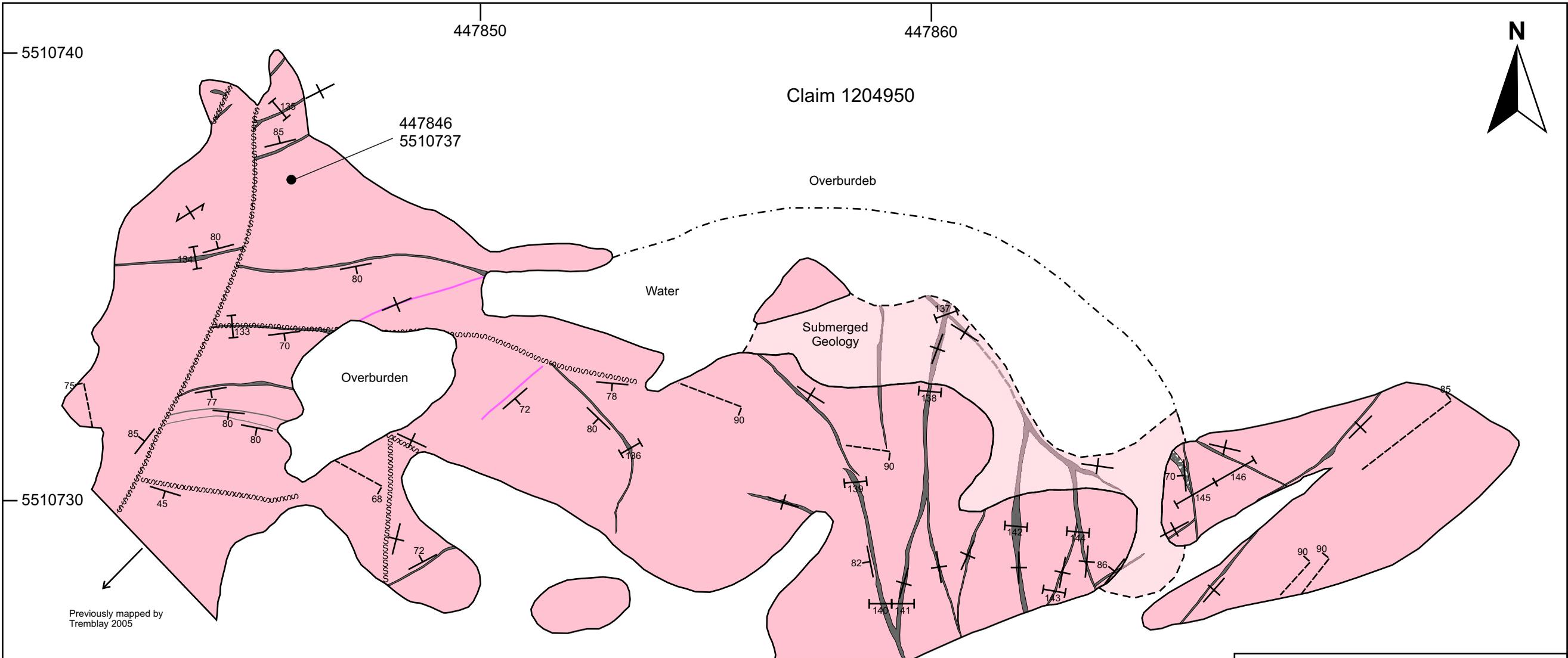
- Felsic to Intermediate Fragmental Volcanics
- Mafic to Intermediate Volcanics
- Diorite
- Quartz veins
- Quartz veining/stockwork
- Channel Sample with sample number prefixed by 755
- Shearing



Alto Ventures Ltd.  
Expansion Lake  
Golden Eagle Trench

January, 2010

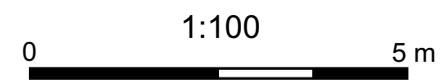
Figure 10



**Legend**

- Aplite
- Diorite
- Quartz veins
- Quartz breccia
- Channel Sample with sample number prefixed by 755
- Shearing

Sample No.	Au (ppb)	Sample No.	Au (ppb)
755133	59	755140	333
755134	458	755141	1184
755135	34	755142	162
755136	650	755143	221
755137	315	755144	33
755138	288	755145	51
755139	1517	755146	12



**Alto Ventures Ltd.**  
**Mud Lake**  
**Main Trench Extension**

January, 2010

Figure 11



447860

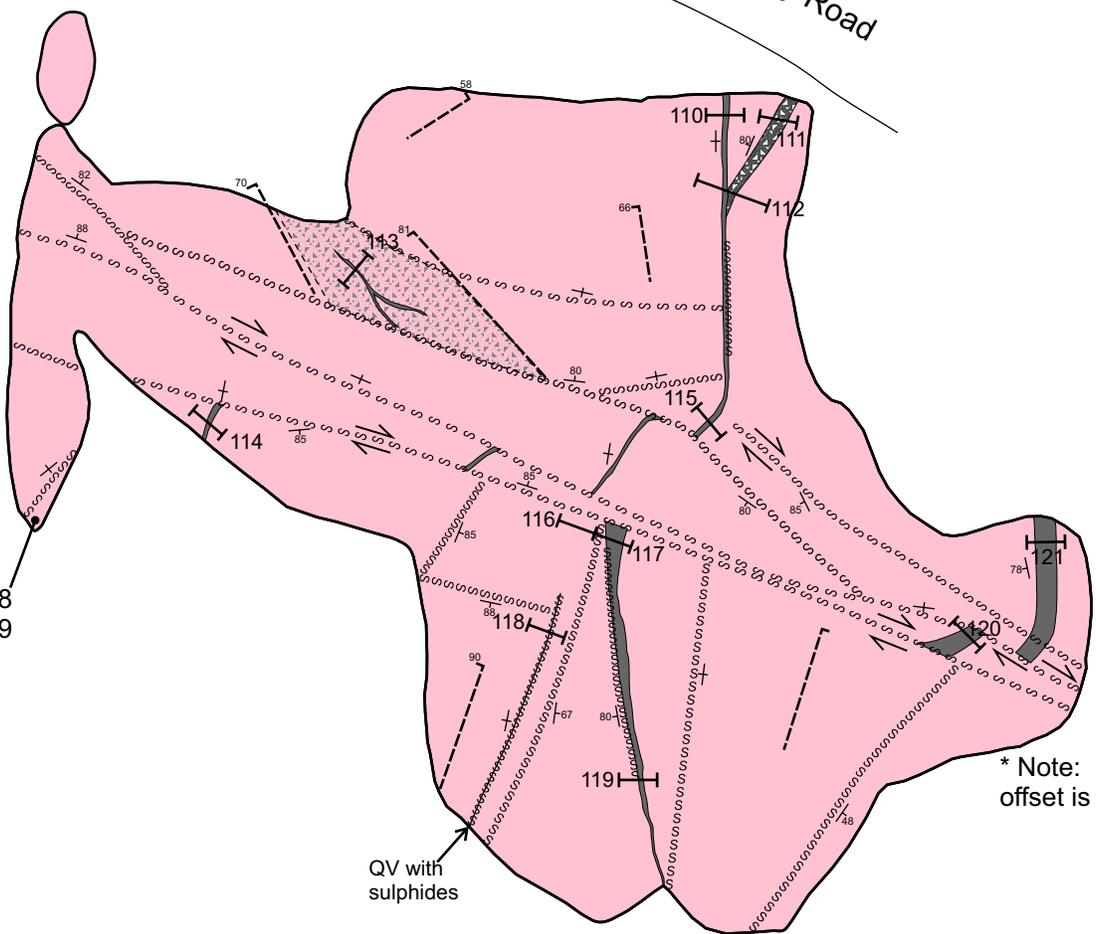
Claim 1204950

South Trench

Forestry Road

5510700

447858  
5510699



\* Note:  
offset is ~4.5 m

QV with  
sulphides

Sample No.	Au (ppb)
755110	570
755111	282
755112	47
755113	10
755114	3427
755115	1847
755116	54
755117	2745
755118	54
755119	280
755120	2833
755121	4293

**Legend**

-  Diorite
-  Quartz veins
-  Quartz breccia
-  Channel Sample with sample number prefixed by 755
-  Shearing



Alto Ventures Ltd.  
Mud Lake  
Offset Trench  
(previously the 2005  
South showing)

Figure 12



Sample No.	Au (ppb)	Sample No.	Au (ppb)
755122	1858	755147	8
755123	1556	755148	<5
755124	877	755149	7
755125	3155	755150	7
755126	117	755165	<5
755127	571	755166	<5
755128	34	755167	262
755129	40	755168	45
755130	10		
755131	322		
755132	13		

Claim 1204950

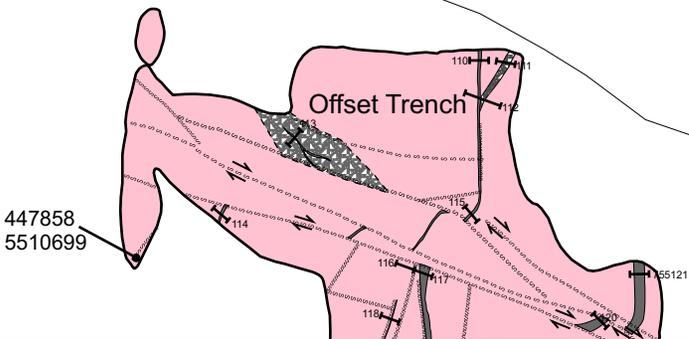
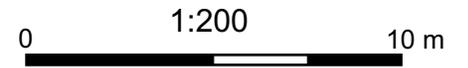
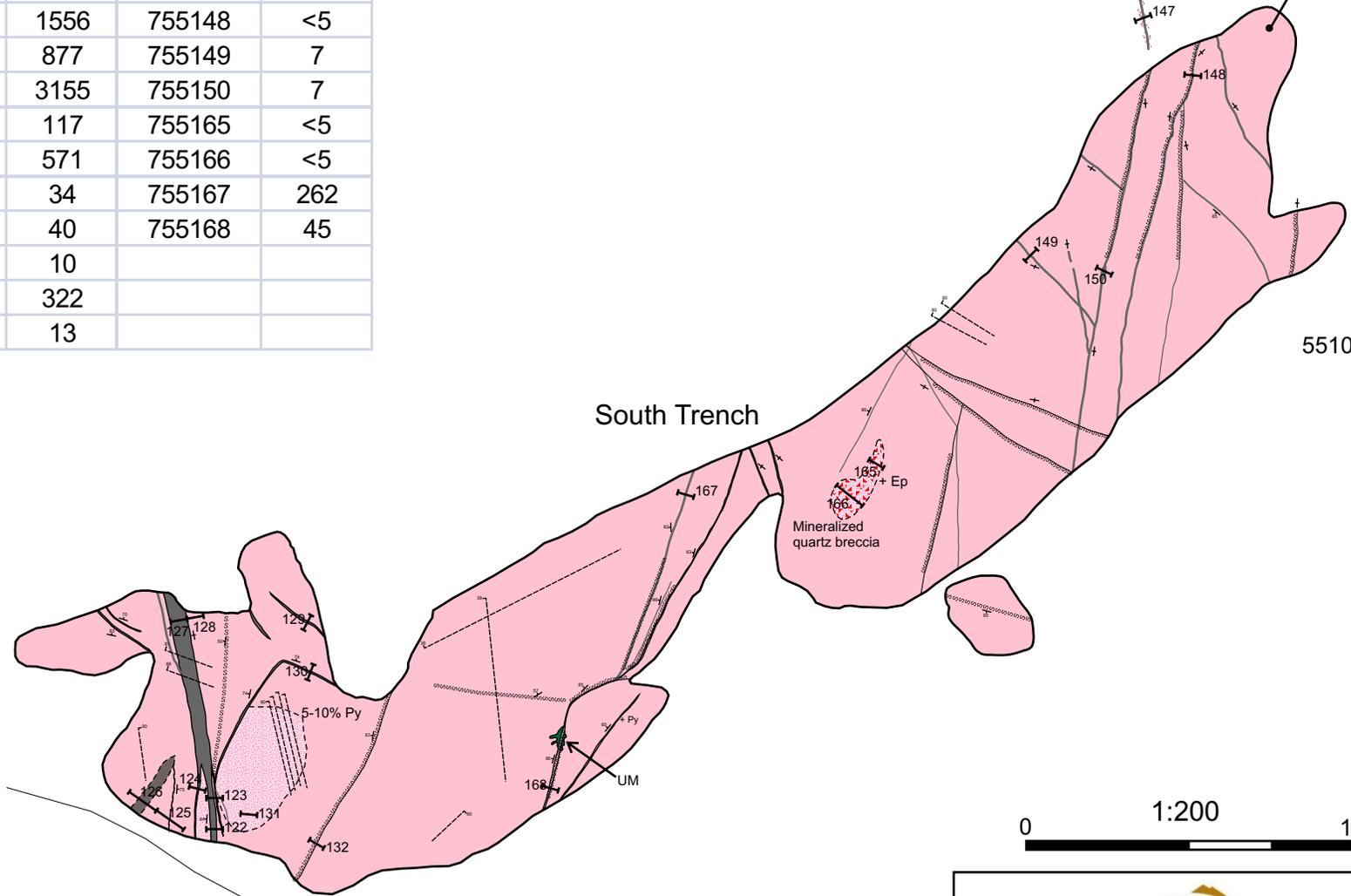
447900

447907  
5510735

5510725

5510725

South Trench



Legend

-  Diorite
-  Quartz veins
-  Channel Sample with sample number prefixed by 755
-  Shearing



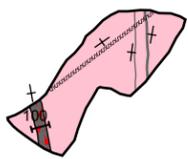
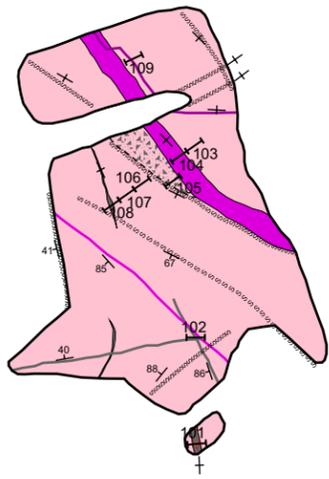
Alto Ventures Ltd.  
Mud Lake  
South Trench

January, 2010

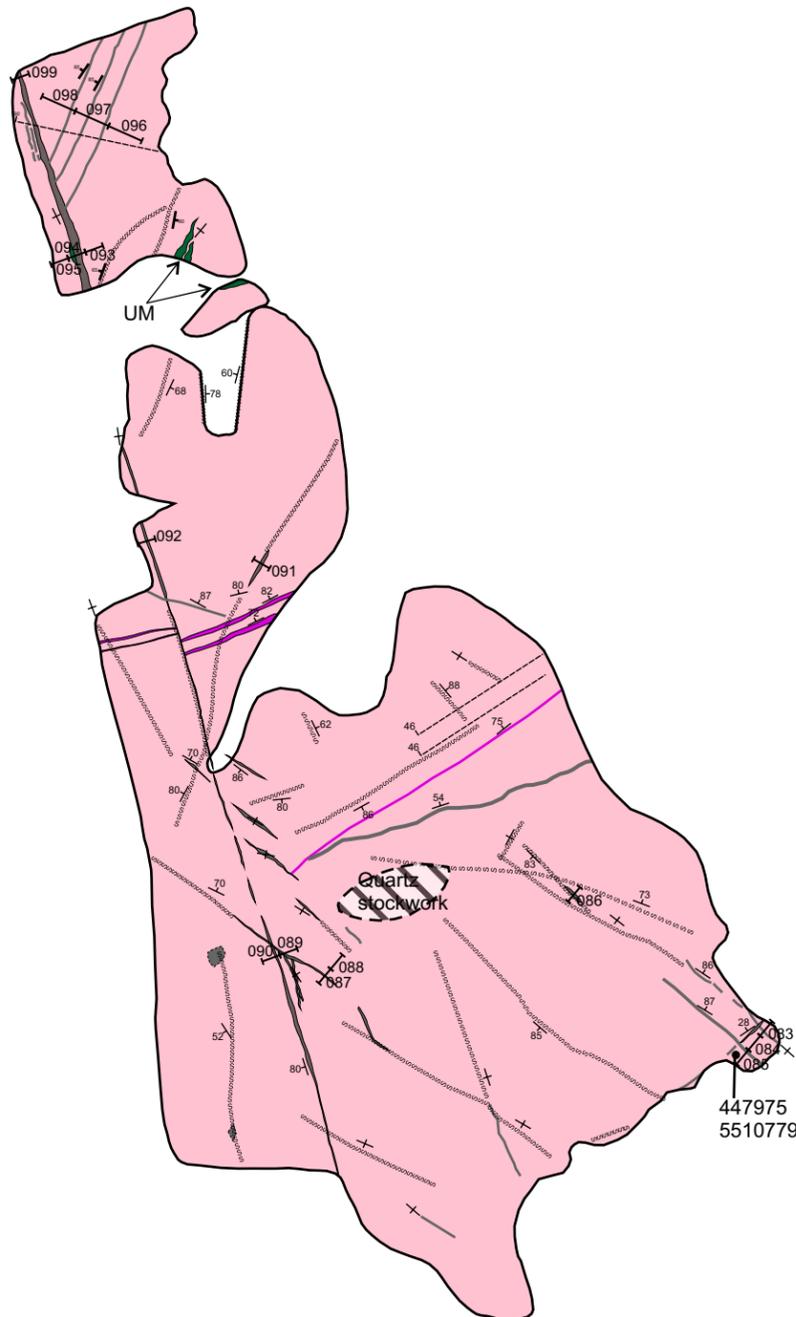
Figure 13

447950

447975



5510825



5510800

Legend	
	Aplite
	Diorite
	Quartz veins
	Quartz breccia
	Channel Sample with sample number prefixed by 755
	Shearing

Sample No.	Au (ppb)	Sample No.	Au (ppb)
755083	22	755097	11
755084	66	755098	49
755085	14	755099	1356
755086	11	755100	349
755087	8	755101	414
755088	34	755102	28
755089	190	755103	7
755090	217	755104	<5
755091	35	755105	<5
755092	174	755106	6
755093	6	755107	10
755094	471	755108	1056
755095	17	755109	17
755096	12		

5510775




**Alto Ventures Ltd.**  
**Mud Lake**  
**Beaver Pond Trench**

January, 2010

Figure 14

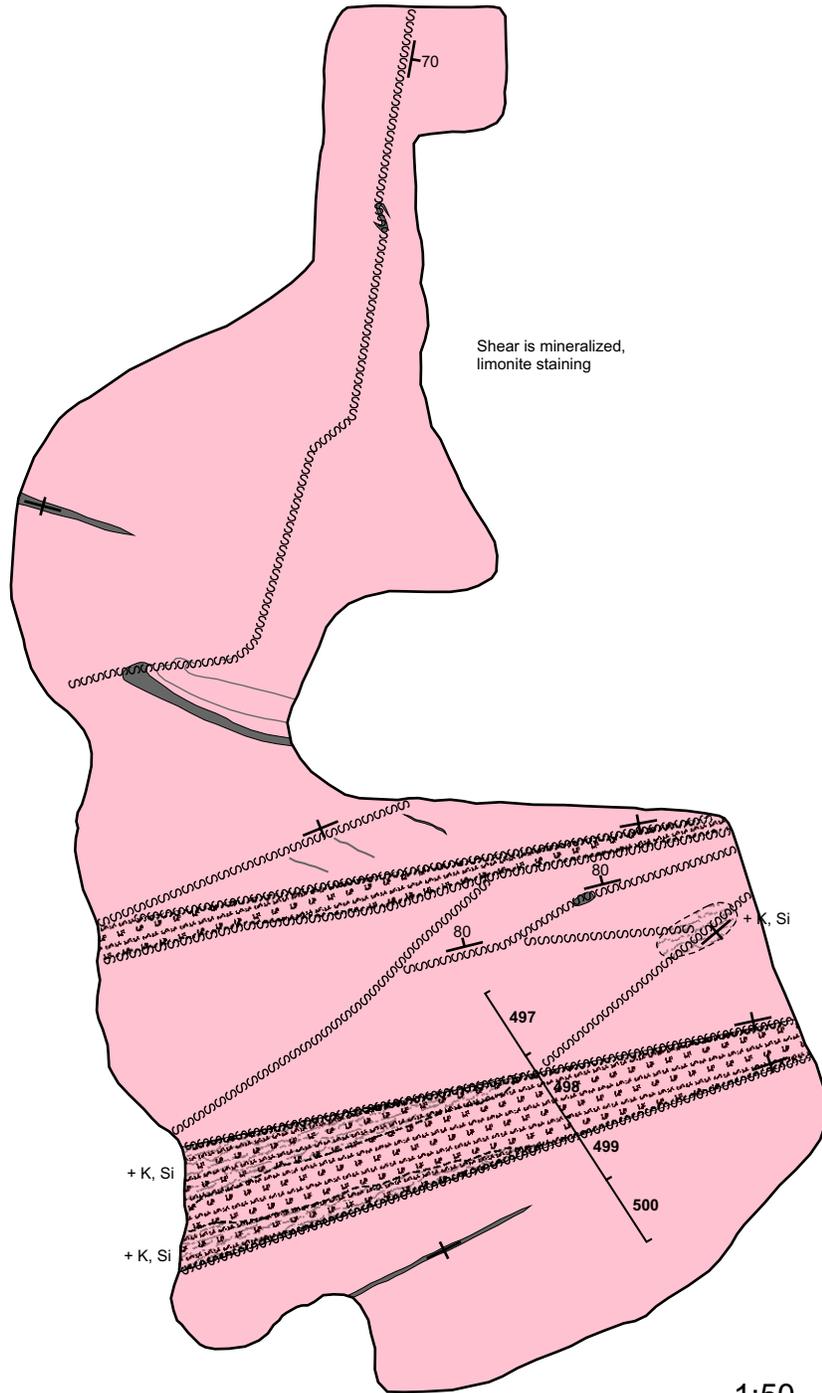
449050



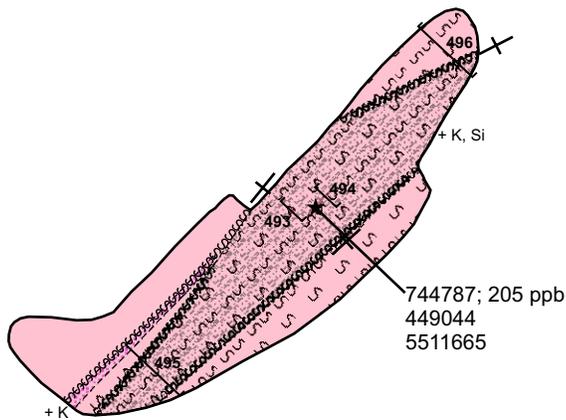
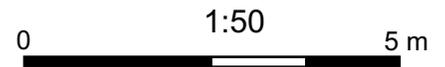
Sample No.	Au (ppb)
755493	9
755494	<5
755495	<5
755496	<5
755497	15
755498	27
755499	<5
755500	13

**Legend**

-  Diorite
-  Quartz veins
-  Channel Sample with sample number prefixed by 755
-  Shearing

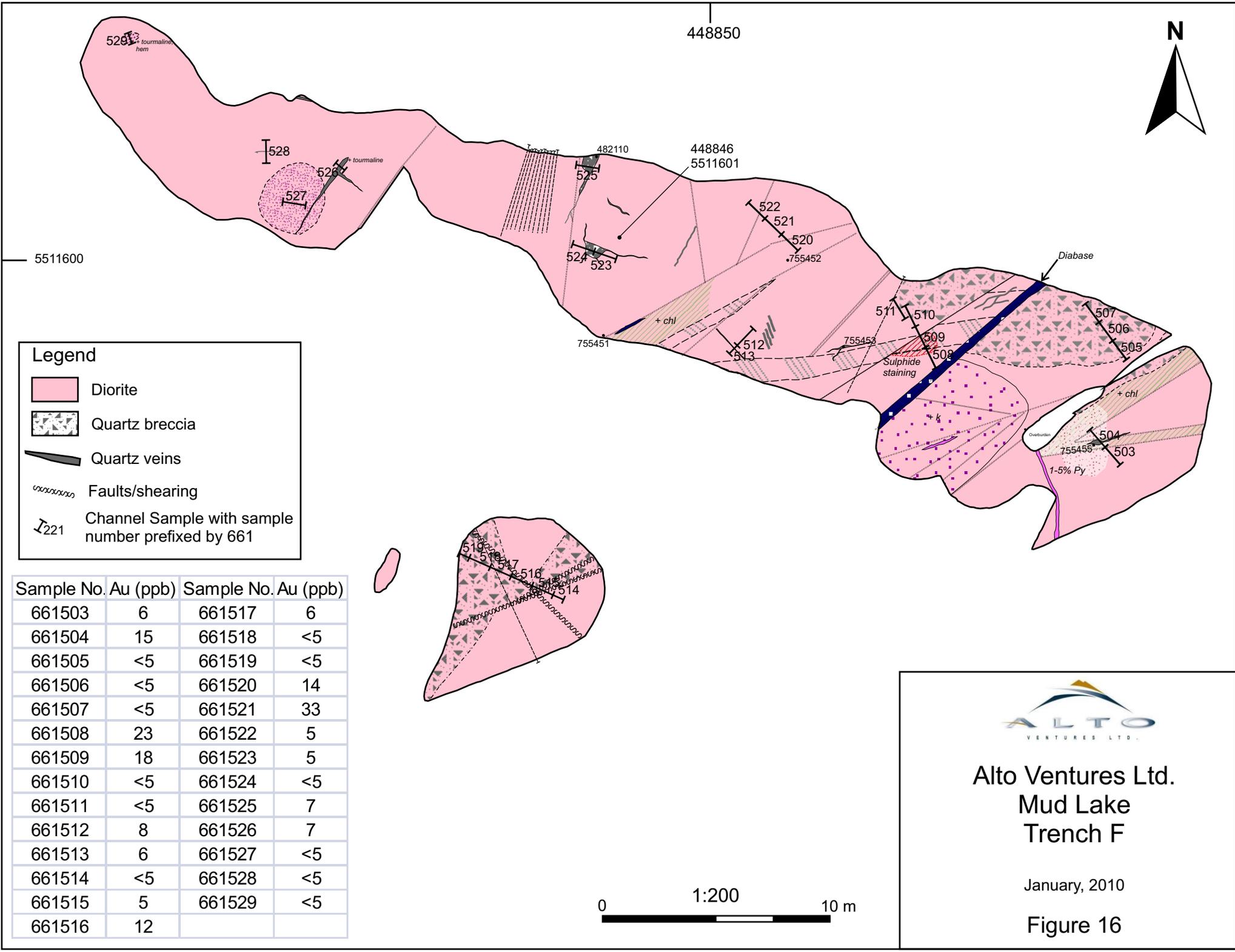


551675




**Alto Ventures Ltd.**  
**Mud Lake**  
**GM Trench**  
**(Previously Trench E)**  
 January, 2010

**Figure 15**



Alto Ventures Ltd.  
Mud Lake  
Trench F

January, 2010

Figure 16

Appendix A:

Expansion Lake and Mud Sample Descriptions, Assay Certificates and ICP Results

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689530	S1-09	457659	5512394	Expansion Lake	G	<5	Quartz-sericite schist, pinkish grey, 1% fine disseminated pyrite
689531	S2-09	455061	5511828	Expansion Lake	G	<5	Semi-massive sulphides, pyrite forms 40% acting as matrix to grey colored fine grained volcanic or sediment
689532	S3-09	455112	5511805	Expansion Lake	G	14	Intermediate volcanic, dacite, fine grained, grey contains 1% very fine disseminated pyrite
689533	S4-09	455226	5511843	Expansion Lake	G	<5	Intermediate tuff, crystal tuff?, grey green, contain 2% fine pyrite along fractures
689534	S5-09	455226	5511843	Expansion Lake	G	<5	Intermediate volcanic, massive, silicified, contains 10% quartz veinlets, 1% pyrite
689535	S6-09	454852	5511113	Expansion Lake	G	<5	Medium grained quartz diorite
689536	S7-09	454919	5511135	Expansion Lake	G	<5	Quartz-carbonate vein, limonite altered, chlorite inclusions, contains 1% fine pyrite
689537	S8-09	455773	5511954	Expansion Lake	G	<5	Dacite, fine grained, massive, grey color, contains 1% disseminated pyrite
689538	S9-09	460693	5513109	Expansion Lake	G	<5	Quartz-carbonate veined quartz-sericite schist, sample contains 60% quartz-carbonate veins, 3% very fine pyrite as micro-veinlets and finely disseminated
689539	S10-09	460693	5513109	Expansion Lake	G	<5	Quartz-sericite schist, beige color with local eyes of apple green muscovite (?), sample contains 60% quartz-carbonate veins up to 4cm wide and micro-veins made up of very fine pyrite grains, veinlets form 3% of the rock, trace amounts of chalcopyrite
689540	S11-09	460693	5513109	Expansion Lake	G	<5	Veined quartz-sericite schist, sample is made up of 70% quartz-carbonate vein containing tourmaline needles and 3% disseminated pyrite and traces of chalcopyrite
689541	S12-09	460693	5513109	Expansion Lake	G	<5	Quartz veined quartz-sericite schist, white quartz veinlets form 30% and are up to 2cm wide, biotite chlorite occur near vein-schist contacts, sample contains 5% pyrite as micro-veinlets of fine grains parallel to schistosity
689542	S13-09	460693	5513109	Expansion Lake	G	<5	Quartz vein, coarse glassy white brecciated with sericite, chlorite and tourmaline filling breccia matrix, locally tourmaline forms 20%, very fine pyrite disseminated pyrite occurs in minor amounts generally associated with the sericite-chlorite wisps
689543	S14-09	460644	5513238	Expansion Lake	G	<5	Sheared, sericitic felsic volcanic, quartz sericite schist contains 0.5% very fine disseminated pyrite, weak limonite alteration along shear planes

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689544	S15-09	460621	5513233	Expansion Lake	G	<5	Grey, massive intermediate volcanic with few feldspar crystals and rock fragments, possible tuff, weak carbonate alteration along few micro fractures and quartz veinlets, traces of pyrite in sample
689545	S16-09	460626	5513234	Expansion Lake	G	<5	Quartz-carbonate veinlets in sericitic volcanic or felsic intrusive (?), veinlets contain clusters of pyrite up to 0.5cm and inclusions of pink feldspathic material
689546	S17-09	460477	5513239	Expansion Lake	G	<5	Intermediate crystal tuff or lapilli tuff, made up of feldspar crystals and fine lapilli fragments up to 2mm, rock is grey-green and contains 1% pyrite as cubes up to 2mm disseminated throughout
689547	S18-09	460626	5513234	Expansion Lake	G	<5	Fine grained, grey massive, strongly magnetic rock, diabase, cut by few carbonate veins
689548	S19-09	461354	5512974	Expansion Lake	G	<5	Sericitized rhyolite, beige to creamy white, foliated contains quartz eyes up to 1.5mm, red hematite altered near weathered surface, 1% fine disseminated pyrite, sample is possible float broken off adjacent
689549	S20-09	460630	5512192	Expansion Lake	G	<5	Outcrop ridge, low relief, variably sheared sericitic intermediate to felsic volcanic contains patches of quartz-carbonate veining, veins are 10cm by 30 cm and contain minor pyrite and chalcopyrite
689550	S21-09	460614	5512170	Expansion Lake	G	<5	Sericite-carbonate altered sheared felsic volcanic cut by narrow (up to few cm wide) quartz-tourmaline veins, veins also contain 1% fine to very fine pyrite
689768	S-22-09	460587	5513149	Expansion Lake	G	<5	Massive, fine grained felsic rock, possible dacite or felsic intrusive, hornblende syenite?
689769	S-23-09	460578	5513162	Expansion Lake	G	11	Quartz vein with 3% chalcopyrite as coarse blob and same outcrop ridge as 689550, vein is a curved pod shape about 0.5m wide by 1m long lying parallel to foliation of sheared, sericitic felsic volcanic
689770	S-24-09	460578	5513162	Expansion Lake	G	7	On same outcrop ridge as 689769, sample is sheared carbonate altered greenish colored felsic to intermediate rock containing quartz veins up to 3cm wide, green color due to fine chlorite alteration, sample also contains 3% disseminated pyrite cubes up to 0.5cm
689771	S-25-09	457556	5512366	Expansion Lake	G	81	sample is similar material as 689772, sample contains traces of hematite and fine disseminated magnetite veins
689772	S-26-09	457543	5512368	Expansion Lake	G	<5	0.6m saw-cut channel of 080° striking unit that is either a sheared felsic tuff or a quartz-bearing sheared sediment, rock is pinkish beige, sericitized and silicified with silica alteration along foliation, micro fractures occur along the foliation and silica alteration originates along the fractures and decrease moving away from the fractures, no sulphides in the sample

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689773	S-27-09	457540	5512392	Expansion Lake	G	<5	Mafic volcanic, fine grained strongly magnetic, contains fine grained magnetite, boulders and angular float pieces of intermediate fragmental with chlorites matrix occur near the mafic volcanic, sample contains 0.5% fine pyrite
689794	S28-09	461080	5513144	Expansion Lake	G	<5	Pinkish colour, felsic intrusive, foliated, sericitized, qtz-feldspar rich, contains 1-2% fine disseminated magnetite
689795	S29-09	461090	5513155	Expansion Lake	G	<5	Light pinkish grey, sheared, qtz-sericite rock, felsic intrusive?, contains 3% very fine disseminated magnetite, minor py
689796	S30-09	461090	5513155	Expansion Lake	G	<5	Qtz vein, limonitic, white vein, contains 3 to 5% clots of chlorite, minor carbonate vein is narrow, estimate 2 cm
689797	S31-09	461092	5513161	Expansion Lake	G	<5	Pinkish colour, fine grained felsic intrusive (syenite?), sheared locally, with 3% fine to very fine disseminated py, weakly sericitic
689798	S32-09	461094	5513173	Expansion Lake	G	<5	Qtz vein, massive white with inclusions of chlorite and sericite, vein approximately 10 cm wide
689799	S33-09	461094	5513173	Expansion Lake	G	<5	Pinkish grey, fine to medium grained, felsic (syenitic?) intrusive, 3% fine disseminated magnetite, few specks of py disseminated along micro fractures
689800	S34-09	461100	5513180	Expansion Lake	G	<5	Light pink, silicified, sericitized felsic intrusive?, contains 3% fine to very fine disseminated magnetite, silicification as fine cherty bands and as cross-cutting veinlets, minor py associated with cross-cutting veinlets, qtz veining forms 5% of sample
689801	S35-09	461540	5513055	Expansion Lake	G	<5	Sheared, silicified, qtz-biotite rock, possibly intrusive or massive intermediate volcanic, contains 5% fine disseminated crystals of py, weakly magnetic
689802	S36-09	460016	5513366	Expansion Lake	G	<5	Pink color, fine grained massive sheared felsic intrusive? syenite?, weakly magnetic due to few disseminated crystals of magnetite
689803	S37-09	459875	5513292	Expansion Lake	G	<5	qtz-chlorite-sericite schist, 30% qtz as rounded grains along schistosity planes,, 2% crystals of py occurring disseminated in the qt rich layers
689804	S38-09	459875	5513292	Expansion Lake	G	<5	Qtz-sericite schist, contains 3% fine disseminated py, light greenish-grey color
689805	S39-09	459912	5513305	Expansion Lake	G	<5	Qtz-carbonate vein in chlorite-sericite schist, vein <10cm wide, contains inclusions of chlorite and sericite, traces py
689806	S40-09	460313	5513117	Expansion Lake	G	<5	Carbonate altered, granular textured fine to medium grained qtz bearing felsic volcanic or intrusive, traces py
689807	S41-09	460258	5513150	Expansion Lake	G	<5	Carbonate altered, granular textured, qtz-bearing rock similar to 689806, contains 1% very fine disseminated py in the qtz vein-rich section

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689808	S42-09	460551	5513133	Expansion Lake	G	6	Granular textured, dark grey-green on fresh surface, pinkish on weathered, felsic? or intermediate volcanic?, cut by carbonate-qtz rich micro-veinlets, contains 1% py
689809	S43-09	460551	5513133	Expansion Lake	G	13	Qtz vein, <10cm wide, white with chlorite lamina occurring parallel to long axis, carbonate-limonite alteration along fractures
689810	S44-09	460555	5513138	Expansion Lake	G	42	Intermediate tuff, sheared and mineralized with qtz-cb-chlorite veinlets, minor py associated with chlorite rich section
689811	S45-09	459891	5513291	Expansion Lake	G	<5	Feldspar porphyry, milky white feldspars form 50%, minor qtz, set in fine dark matrix of mafic minerals, weakly foliated, S&T sample
689812	S46-09	459891	5513291	Expansion Lake	G	<5	Carbonate altered, chloritized intermediate (felsic?) volcanic, traces of py, foliated
689813	S47-09	459860	5512912	Expansion Lake	G	<5	Fine grained, green massive mafic intrusive, traces py
689814	S48-09	459677	5512947	Expansion Lake	G	<5	Pink grey, sheared felsic intrusive
689815	S49-09	459673	5512849	Expansion Lake	G	<5	Qtz-chlorite-sericite schist, contains 2-3% very fine disseminated py preferentially in granular qtz rich layers
689816	S50-09	459100	5513015	Expansion Lake	G	<5	Qtz vein, glassy white with 10% inclusions of dark green chlorite
689817	S51-09	460309	5513720	Expansion Lake	G	5	Qtz vein, narrow (<5cm) wide pieces of white limonite bearing vein material
689818	S52-09	460218	5513714	Expansion Lake	G	<5	Pink, fine grained massive feldspar dominant intrusive, contains 1% very fine disseminated magnetite
689819	S53-09	458894	5512957	Expansion Lake	G	6	Grey-green massive gabbro with pyroxene pseudomorphs up to 2mm set in a matrix of finer mafic minerals and plag, no response to magnet
689820	S54-09	458894	5512957	Expansion Lake	G	10	Grey-green intermediate fragmental volcanic, fragments contain minor amounts of very fine pyrite
689821	S55-09	458337	5513694	Expansion Lake	G	<5	Quartz vein, white sugary with dark green chlorite in vugs and along fractures, vein is set in intensely chloritized host rock
689822	S56-09	458337	5513694	Expansion Lake	G	<5	Sericite schist, very smooth talcose, contains granular quartz grains along schistosity and few microveinlets, traces of pyrite
689823	S57-09	458337	5513694	Expansion Lake	G	<5	Quartz vein, milky white coarse grained with few inclusions of the talcose schist described as 689822
689824	S58-09	460444	5512082	Expansion Lake	G	<5	Quartz vein, white to glassy white, coarse grained with inclusions of sericite schist along boundaries of poorly formed quartz crystals
689825	S59-09	460425	5512010	Expansion Lake	G	<5	Medium green mafic to intermediate volcanic fragmental, pyrite forms 3% occurring along fractures and as veinlets, minor chalcopyrite is associated with the pyrite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689826	S60-09	460425	5512010	Expansion Lake	G	<5	Massive grey-green rock that is weakly foliated and silicified along foliation, contains 1 to 2% disseminated pyrite crystals up to 1mm in size
689827	S61-09	458956	5511855	Expansion Lake	G	<5	Sericite schist, brownish grey, minor quartz
689828	S62-09	458966	5511860	Expansion Lake	G	<5	Sericite-carbonate-quartz schist, brownish beige colour, made up of mainly sericite separated by granular quartz layers, carbonate is pervasive giving the rock the brownish colour, 3% very fine disseminated pyrite along schist planes
689829	S63-09	458966	5511860	Expansion Lake	G	<5	Felsic intrusive (diorite), schistose, locally chlorite-carbonate altered, medium grained subhedral crystals up to 2mm, fine biotite between feldspar and quartz crystals, minor very fine grained disseminated pyrite
689830	S64-09	458966	5511860	Expansion Lake	G	<5	Quartz-sericite-carbonate schist, brownish beige, made up mainly of quartz layers with lesser sericite and carbonate, also some chlorite, contains 1% fine disseminated pyrite, simple is cut by 1cm veins of quartz-chlorite, veins are at steep angles to schistosity
689831	S65-09	460153	5511887	Expansion Lake	G	<5	Schistose intermediate volcanic of intrusive, contains 1% pyrite disseminated in cubes from very fine grained to 2mm in size
689832	S66-09	460186	5511971	Expansion Lake	G	14	Fine grained, foliated intermediate volcanic (intrusive ?), contains 1% fine disseminated pyrite cubes
689833	S67-09	460338	5511934	Expansion Lake	G	<5	Intermediate volcanic, foliated, contains 3% fine disseminated pyrite
689834	S68-09	460338	5511934	Expansion Lake	G	<5	Intermediate volcanic, foliated, contains 2% fine disseminated pyrite
689835	S69-09	460294	5511795	Expansion Lake	G	<5	Intermediate volcanic, foliated contains 2% pyrite, sample includes 1 cm wide granular white quartz vein sub parallel to foliated
689836	S70-09	460275	5511814	Expansion Lake	G	<5	Chlorite-sericite schist, friable
689837	S71-09	460263	5511758	Expansion Lake	G	<5	Intermediate volcanic, foliated quartz-sericite-chlorite rock, contains 1% fine to very fine disseminated pyrite
689838	S72-09	460263	5511758	Expansion Lake	G	<5	Quartz-sericite-chlorite schist, contains minor to 0.5% very fine disseminated pyrite mainly associated with layers rich in granular quartz
689839	S73-09	460364	5511817	Expansion Lake	G	<5	Intermediate volcanic, strongly foliated/sheared, contains minor pyrite
689840	S74-09	460054	5511900	Expansion Lake	G	<5	Chloritized, hematite altered strongly foliated intermediate volcanic, contains 1% very fine disseminated pyrite, pinkish to rusty red sections due to hematite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689841	S75-09	460128	5511777	Expansion Lake	G	13	Intermediate volcanic, slaty
689842	S76-09	460524	5512170	Expansion Lake	G	6	Chloritized, foliated to sheared intermediate intrusive/volcanic, contains 1% pyrite as veinlets and disseminated crystals
689843	S77-09	460391	5512128	Expansion Lake	G	121	Sericite-chlorite schist, carbonate altered, minor amounts of very fine disseminated pyrite
689844	S78-09	460391	5512128	Expansion Lake	G	<5	Hematite altered, foliated/sheared granular textured intermediate volcanic (intrusive?) cu by <1cm wide quartz veins that are also hematite altered, sample contains minor pyrite in quartz and host rock
689845	S79-09	460391	5512128	Expansion Lake	G	<5	Quartz vein, 5cm wide in foliated/sheared intermediate volcanic, sample contains 2% pyrite disseminated in vein and host rock
689846	S80-09	460377	5512132	Expansion Lake	G	<5	Quartz-carbonate vein in chloritized host rock (volcanic) vein is 5cm wide, quartz is milky white and barren-looking
689847	S81-09	461101	5512310	Expansion Lake	G	<5	Rusty coloured quartz-chlorite-sericite-carbonate schist, contains 1 cm wide quartz vein, minor to 1% fine disseminated pyrite throughout the schist
689848	S82-09	461121	5512306	Expansion Lake	G	<5	Quartz-sericite schist, weathered rusty-beige due to carbonate alteration, trace of pyrite
689849	S83-09	461220	5512358	Expansion Lake	G	<5	Intermediate tuff, lapilli tuff, foliated, weakly chloritized, contains lapilli up to 1cm long elongated 5:1, minor to 1% fine disseminated pyrite
689850	S84-09	461070	5512350	Expansion Lake	G	8	Pieces of milky white quartz vein in chloritized host rock
689851	S#85-09			Expansion Lake	G	<5	Reddish brown quartz-sericite schist, carbonate altered with 10% fine to very fine pyrite as veinlets sub-parallel to schist planes reddish color may be due to hematite
689852	S#86-09	461073	5512441	Expansion Lake	G	8	Quartz vein, white and light rose colour granular texture quartz veins 1 cm wide in "talcose" sericite schist, veins contain minor pyrite and locally are malachite stained
689853	S#87-09	456932	5513239	Expansion Lake	G	<5	Diabase, massive grey-green, contains 10% magnetite
689854	S#88-09	456853	5513293	Expansion Lake	G	6	Massive fine grained intermediate volcanic, sample contains glassy white quartz vein 0.7cm wide
689855	S#89-09	456853	5513293	Expansion Lake	G	5	Amygdaloidal flow, amygdales filled with white calcite
689856	S#90-09	453858	5511107	Expansion Lake	G	<5	Massive aphanitic dark grey rock cut by wisps of quartz vein material, weathered surfaces are rusty
689857	S#91-09	461197	5511871	Expansion Lake	G	<5	Foliated to sheared intermediate volcanic, minor pyrite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689858	S#92-09	461197	5511871	Expansion Lake	G	<5	Intermediate tuff, foliated, weakly chloritized, contains 1% fine disseminated pyrite, weakly carbonate altered
689859	S#93-09	461197	5511871	Expansion Lake	G	<5	Intermediate volcanic, 3% disseminated pyrite, weak chlorite alteration
689860	S#94-09	461197	5511871	Expansion Lake	G	<5	Quartz vein with inclusions of sericite and sericite-chlorite schist
689861	S#95-09	461208	5511956	Expansion Lake	G	<5	Reddish rusty coloured foliated to sheared quartz-eye bearing felsic to intermediate tuff or intrusive?, carbonate altered, locally some hematite and limonite alteration, minor pyrite
689862	S#96-09	461253	5512011	Expansion Lake	G	<5	Intermediate crystal tuff or intrusive, foliated
689863	S#97-09	461274	5512000	Expansion Lake	G	<5	Strongly foliated to sheared crystal tuff?, carbonate and hematite altered
689864	S#98-09	461327	5511968	Expansion Lake	G	<5	Massive green diabase or fine grained gabbro, contains 0.5 to 1% very fine disseminated pyrite and pyrrhotite
689865	S#99-09	461355	5511770	Expansion Lake	G	<5	Sheared intermediate volcanic cut by 2mm wide quartz-carbonate vein, weakly chloritized and carbonate altered
689866	S#100-09	461447	5512057	Expansion Lake	G	<5	Quartz-carbonate-limonite vein from within chloritized carbonate altered mafic volcanic
689867	S#101-09	461466	5512063	Expansion Lake	G	<5	Quartz vein, glassy white with inclusions of carbonate crystals, sericite and biotite as well as few crystals of tourmaline
689868	S#102-09	461466	5512063	Expansion Lake	G	7	Quartz-carbonate-limonite vein separated from 689867
689869	S#103-09	461472	5512079	Expansion Lake	G	7	Rusty brown, strongly foliated formerly massive felsic rock (intrusive?) contains 1% very fine disseminated magnetite
689870	S#104-09	461472	5512079	Expansion Lake	G	6	Strongly foliated to sheared felsic rock as in 689869, sericite altered and silicified, contains 3% very fine disseminated magnetite
689871	S#105-09	461463	5512027	Expansion Lake	G	6	Limonite altered rusty, carbonate-chlorite vein
689872	S#106-09	461566	5511933	Expansion Lake	G	<5	Intermediate tuff, fragmental, carbonate altered with limonite weathered surfaces
689873	S#160-09	461565	5511929	Expansion Lake	G	<5	Quartz-carbonate vein, glassy white vein with limonite staining on weathered surfaces
689874	S#107-09	461577	5511979	Expansion Lake	G	6	Intermediate tuff or lapilli tuff, weakly foliated
689875	S#108-09	461580	5511979	Expansion Lake	G	<5	Aplite or felsite dyke, foliated and cut by veinlets on massive carbonate (ankerite), contains 3% pyrite and minor chalcopyrite, limonite on weathered surfaces

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689876	S#109-09	461627	5511947	Expansion Lake	G	<5	White quartz-carbonate vein in weakly chloritized intermediate volcanic, vein is 10cm wide and contains inclusions of carbonate, limonite on weathered surfaces
689877	S#110-09	461627	5511947	Expansion Lake	G	<5	Intermediate volcanic cut by narrow veinlets of quartz-carbonate, weak hematite alteration
689878	S#111-09	461629	5511950	Expansion Lake	G	<5	Quartz-carbonate vein with inclusions of chlorite
689879	S#112-09	461604	5512038	Expansion Lake	G	<5	Quartz-sericite schist, light brownish rusty colour, weak carbonate alteration, contains 1% very fine pyrite as micro-veins parallel to schist planes, possible sheared felsic volcanic or intrusive?
689880	S#113-09	461762	5512059	Expansion Lake	G	<5	Quartz-sericite schist, reddish brown, sheared felsic intrusive?, volcanic?, contains % fine disseminated pyrite
689881	S#114-09	461836	5512009	Expansion Lake	G	<5	Carbonate altered quartz-sericite schist
689882	S115-09	461512	5512195	Expansion Lake	G	19	highly sheared chlorite schist (felsic volcanic?) with quartz veining 5-10 mm thick, occurring along localized structures. Trace to 0.5% disseminated pyrite. Limonite staining. Weak sericite alteration along structure, associated with quartz veining.
689883	S116-09	461371	5512182	Expansion Lake	G	9	Quartz vein hosted in moderately to strongly sheared feldspar porphyry. Strong limonite/hematite staining along weathered surfaces. Quartz vein is ~2 cm thick, white to light grey, moderately translucent. Sericite alteration along contacts, with carbonate. * One hand sample looks like a fold nose, with chlorite along the cleavage planes. Trace amounts of pyrite
689884	S117-09	461346	5512191	Expansion Lake	G	<5	Strongly sheared felsic intrusive. Strong pervasive chlorite alteration (gives sample a greenish colour). Fracture controlled sericite/limonite alteration, minor quartz associated with fractures. No apparent sulphides. Weak hematite staining
689885	S118-09	461329	5512198	Expansion Lake	G	<5	Quartz vein. With chlorite, limonite and carbonate. Quartz is white to slightly translucent, possibly hosted in schist.
689886	S119-09	461329	5512198	Expansion Lake	G	<5	Felsic to intermediate intrusive (feldspar porphyry). Moderately sheared, minor rusty weathering. Non-magnetic, no apparent sulphides
689887	S120-09	461309	5512207	Expansion Lake	G	<5	Sericite schist. Fe-carbonate (limonite?) banding, within the schist cleavage. Minor chlorite, making the samples slightly green. Weak hematite staining

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689888	S121-09	461369	5512117	Expansion Lake	G	<5	Highly sheared chloritic felsic volcanic. Very fine layers of pinkish alteration. 0.5% chalcopyrite. 10-15% blebs of chlorite, with chlorite also occurring along cleavage planes. 1% pyrite (<1 mm) with minor chlorite halos (reaction rims?)
689889	S122-09	461035	5512136	Expansion Lake	G	<5	Felsic intrusive. 0.5-1% pyrite, fine (<1 mm). Weak pervasive chlorite alteration, moderate shearing
689890	S123-09	461035	5512136	Expansion Lake	G	<5	Chlorite schist, possibly highly sheared intermediate intrusive. Micro quartz veins (<1 mm) parallel to schistosity. Hematite staining. Trace pyrite along cleavage planes, associated with quartz veinlets.
689891	S124-09	461050	5512143	Expansion Lake	G	<5	Sheared felsic intrusive with very strong silicification. 2-3% pyrite occurring in bands, associated with the strong silicification. Chlorite along cleavage planes. Sericite and hematite alteration along zones of silicification.
689892	S125-09	461054	5512146	Expansion Lake	G	<5	Quartz vein hosted in chlorite-sericite schist. Brecciated with chlorite infilling. Quartz is white. Limonite-hematite staining. No apparent sulphides.
689893	S126-09	461065	5512131	Expansion Lake	G	<5	Highly sheared volcanic, very chloritized, possibly mafic. Minor quartz blebs/very small discontinuous veins (<1 mm). 0.5-1% pyrite, disseminated to small clusters associated with the quartz.
689894	S127-09	461174	5512213	Expansion Lake	G	<5	Intermediate (?) intrusive with sections of very silicified to quartz veining. Actually appears as a gabbro with abundant chlorite alteration, difficult to tell. Silicified veining has patches of quartz and brecciated the host rock, very sharp contact. Trace pyrite (<1 mm) localized to silicified veining.
689895	S128-09	461181	5512184	Expansion Lake	G	<5	Mafic volcanic with quartz veining. Fine grained, slightly sheared with chlorite along the cleavage planes. Quartz vein is 0.5-1 cm, variable, with chlorite along contacts. Minor carbonate/albite (pink) alteration. 1-2% pyrite, <1 mm, disseminated throughout sample, with some concentrations in the quartz vein. Very minor limonite staining
689896	S129-09	461086	5512043	Expansion Lake	G	8	Intermediate to felsic intrusive. Surface is highly weathered and samples are moderately sheared. 40% red (hematite/sulphide) rusty staining, 20% limonitic staining, 10% yellow staining.
689897	S130-09	461084	5512030	Expansion Lake	G	11	Chloritized felsic intrusive, moderately sheared. Samples are highly weathered, 2-3% pyrite. Very fine quartz veining (?), <1 mm, irregular with hematite/limonite staining
689898	S131-09	461085	5512043	Expansion Lake	G	11	Chlorite schist (highly sheared felsic intrusive?). 1-2% pyrite, occurring as small veinlets. Sample is highly weathered, hematitic/limonitic staining

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
689899	S132-09	461072	5511963	Expansion Lake	G	<5	Quartz vein. "Dirty" with sericite and carbonate patches. Chlorite and hematite staining/veining. Trace pyrite. Possibly hosted in felsic intrusive with trace magnetite.
689900	S133-09	461082	5512037	Expansion Lake	G	<5	Felsic intrusive (granodiorite?) with weak foliation. Chlorite along shear cleavage planes. 0.5-1% pyrite, blebs up to 3 mm.
755001	S134-09	460823	5511882	Expansion Lake	G	<5	Highly sheared felsic volcanic. Light greenish grey, quartz veining with siderite staining. Moderate sericite alteration, weak chloritic. Very slightly to non-magnetic. Quartz is light grey to white, slightly translucent, 1-2% pyrite (<1 mm grains, cubic - euhedral to subhedral), <1 mm feldspar phenocrysts
755002	S135-09	460829	5511881	Expansion Lake	G	<5	Sheared mafic volcanic. Fine grained, dark greenish grey, non-magnetic. Very fine blebs of epidote (possible alteration of feldspar), 1-3 mm white-buff quartz veins, very linear cross-cutting bedding foliation. Siderite staining. 0.5-1% pyrite grains associated with the quartz veining
755003	S136-09	460429	5511669	Expansion Lake	G	<5	Quartz vein hosted in felsic volcanic. 3 cm quartz vein, white to slightly translucent, strong siderite along the contacts, earthy, rusty, isolated vugs within the vein. Felsic volcanic is strongly sheared (schistose) with chlorite along shear cleavage. Volcanic is also highly sericitized, med to light greenish grey, slightly magnetic. The quartz vein cuts across foliation.
755004	S137-09	460307	5513751	Expansion Lake	G	5	Sericite schist (highly sheared felsic volcanic), rusty staining, abundant chlorite along cleavage planes. Blebs of "dirty" looking quartz (1-5 cm), with hematitic-limonitic-rusty staining. Slightly magnetic. Weak yellow sericite alteration
755005	S138-09			Kenneth Lake, south of Denise Creek	G	5	Float Sample. Quartz vein (massive) with 2-3% pyrite, ranging <1 - 1mm grains, up to 2 cm clusters. Minor clots of chlorite
755006	S139-09	460767	5511349	Expansion Lake	G	323	Granodiorite with blebs of mafic intrusive and 40% quartz veining with 40% carbonate. 2-3% disseminated pyrite, mainly contained within the host, minor amounts associated with the quartz veining. Moderately to strongly sheared. Mafic intrusive portions are highly chloritized. Limonite staining.
755007	S140-09	459876	5511426	Expansion Lake	G	<5	Quartz veining with 40-45% carbonate. 0.5-1% pyrite. Vein appears brecciated. Trace vugs, ranging 5-15 mm. Limonite staining with rusty hematite weathering.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755008	S141-09	459899	5511431	Expansion Lake	G	<5	Sheared felsic volcanic with quartz veining. Strong pervasive chlorite alteration, trace fuchsite along contact of quartz veins. Trace to 0.5% disseminated pyrite/chalcopyrite, smeared along cleavage foliation. Minor limonite staining, minor carbonate. Small, minor quartz vugs.
755009	S142-09	459913	5511428	Expansion Lake	G	<5	Quartz vein with fragments of chlorite-sericite schist. "Dog's tooth" or comb texture in quartz veining. Limonite staining. Moderate chlorite alteration. Trace tourmaline. Trace pyrite/sulphide?
755010	S143-09	459966	5511463	Expansion Lake	G	<5	Sheared intermediate volcanic (no phenocrysts), possible tuff. Moderate pervasive chlorite alteration (also occurring as blebs). 0.5% pyrite cubes, 1-2 mm in size. Weak to moderate silicification. Quartz blebs, 1-5 mm, clear.
755011	S144-09	460395	5511447	Expansion Lake	G	<5	Chloritized felsic volcanic. Hematite staining (stringers/blebs), weak shearing. Trace to 0.5% disseminated pyrite, trace disseminated chalcopyrite blebs. Weak to moderate silicification. Limonite staining
755012	S145-09	460360	5511451	Expansion Lake	G	<5	intermediate feldspar porphyry. Moderate pervasive chlorite alteration, with epidote alteration of phenocrysts. Medium to coarse grained. 1-2% pyrite stringers, with limonite and sulphide staining.
755013	S146-09	460371	5511444	Expansion Lake	G	<5	Diorite (or granodiorite). Weakly sheared with epidote altered feldspar phenocrysts. Medium grained, porphyritic with blebs of chlorite. Weak to moderately silicified (greenish in colour).
755014	S147-09	460370	5511448	Expansion Lake	G	<5	Moderately sheared felsic volcanic with very fine grained quartz veining along foliation. Trace epidote, trace fuchsite. Moderate pervasive chlorite alteration. Bands of strong silicification.
755015	S148-09	460337	5511486	Expansion Lake	G	<5	Chlorite schist (felsic volcanic). Highly sheared to slightly mylonitic. Minor quartz veining along foliation. Trace to 0.5% disseminated pyrite. Strong pervasive chlorite alteration, weak silicification. Minor vuggy quartz. *one sample piece looked like coarse grained diorite.
755016	S149-09	460392	5511481	Expansion Lake	G	<5	Felsic tuff. Silicified, with weak to moderate pervasive chlorite alteration. Massive, with very weak epidote alteration.
755017	S150-09	460392	5511481	Expansion Lake	G	<5	Chloritized felsic tuff breccia. Large fragments (0.5-3 cm), moderately sheared. 1-2% pyrite cubes ( $\leq$ 1-2 mm). Weak to moderate pervasive silicification. Trace fuchsite.
755051	S151-09	460841	5511483	Expansion Lake	G	<5	Quartz vein hosted in chlorite schist. 30-35% limonite (carbonate), with patches of chlorite and sericite.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755052	S152-09	460841	5511483	Expansion Lake	G	<5	Sheared medium grained diorite (intermediate intrusive). 0.5-1% disseminated pyrite. Moderate chlorite alteration. *one sample is mafic (fine grained with feldspar phenocrysts, no quartz) with a 1-2 mm quartz vein with sulphides, cross-cutting foliation. Strong chlorite alteration, moderately sheared.
755053	S153-09	460841	5511483	Expansion Lake	G	<5	Sericite schist (highly friable). Light yellow, strongly silicified, slightly mylonitic. Bands of strong chlorite alteration. Trace sulphides, trace fuchsite. Limonite staining
755054	S154-09	460817	5511475	Expansion Lake	G	<5	Highly friable schist (chlorite/muscovite). Weak C-S foliation, bands of strong silicification. Abundant fragments, carbonatized, elongated parallel to dominant foliation.
755055	S155-09	460799	5511479	Expansion Lake	G	<5	Sheared fine to medium grained diorite (intermediate volcanic/intrusive?). Abundant quartz veining with 10-15% carbonate (limonite). 0.5-1% disseminated pyrite. Trace fuchsite. Strong pervasive chlorite alteration, weak silicification.
755056	S156-09	460799	5511479	Expansion Lake	G	<5	Chlorite schist with minor quartz veining ( $\leq$ 1-2 mm), appears like a felsic fragmental. Moderate to strong sericite alteration along foliation. Trace fuchsite. Weak to moderate pervasive silicification. Trace sulphides.
755057	S157-09	460796	5511480	Golden Eagle Trench: Grab	G	<5	Sheared intermediate intrusive (diorite?). Strong pervasive chlorite alteration. Quartz vein cross-cutting foliation, 5-10 mm in size. Limonite staining along contacts of quartz vein. Minor fracture-controlled hematite staining. Trace to 0.5% disseminated pyrite associated with the quartz vein.
755058	S158-09			Expansion Lake	G	<5	Chloritized felsic volcanic (tuff breccia or foliated granodiorite). Moderate pervasive chlorite alteration, weak to moderate silicification. 3-5% pyrite stringers, trace to 0.5% disseminated chalcopyrite. Limonite staining, hematite/sulphide weathering
755059	S159-09	460386	5511441	Expansion Lake	G	<5	Sheared felsic volcanic. 0.5-1% pyrite occurring as fine disseminations to stringers along foliation and microstructures. Moderate to strong pervasive chlorite alteration, with bands of moderate silicification. Fragmental, schistose, with trace blebs of epidote alteration replacing phenocrysts.
755060	S160-09	460476	5511465	Expansion Lake	G	<5	Sheared diorite. Chlorite along foliation, moderate pervasive silicification. Medium grained, porphyritic. Trace disseminated pyrite.
755061	S161-09	460493	5511457	Expansion Lake	G	<5	Quartz vein hosted in chlorite schist. Quartz with white to slightly translucent with patches of limonite (carbonate), chlorite, sericite and trace tourmaline. Vein is 10-15 cm in size, minor vugs (1-2 cm). Trace sulphides

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755062	S162-09	460570	5511471	Expansion Lake	G	<5	Chloritized fragmental felsic volcanic (tuff breccia) with moderate shearing. Trace pyrite. Hematite staining, limonite staining. 10% quartz vein, with patches of carbonate and sericite.
755063	S163-09	460398	5511454	Expansion Lake	G	<5	Quartz veining with 1-2% sulphides (pyrite). Hematite staining, with trace tourmaline, chlorite, sericite. 20% carbonate.
755064	S164-09	460398	5511454	Expansion Lake	G	<5	Chloritized felsic volcanic (tuff breccia) with moderate shearing. Trace pyrite.
755151				Mud Lake	G	2262	Quartz vein with 1-2% bands of Py, locally up to 4%, with strong hematite staining, sulphide weathering. Quartz is white with 20% carbonate. Minor sericite, chlorite and limonite alteration.
755152	AV09-01			Mud Lake	G	<5	Moderately sheared granite/granodiorite with strong hematite/sulphide weathering. 0.5-1% disseminated Py. Host is medium grained, with weak pervasive chlorite alteration.
755153	AV09-03			Mud Lake	G	<5	Quartz vein hosted in granodiorite with patches of strong chlorite alteration, blebs up to 5 cm. Quartz vein is irregular, white to clear, with pink albite alteration patches. Faint hematite staining with no visible sulphides.
755154	AV09-05			Mud Lake	G	<5	Quartz vein hosted in sheared felsic intrusive (granodiorite), with 0.1% disseminated Py, hematite staining.
755155	AV09-06			Mud Lake	G	17	Quartz vein hosted in mafic intrusive (?) and sheared granite. 0.1-0.5% disseminated Py. Minor vugs with white to moderately clear quartz crystals.
755156	AV09-07			Mud Lake	G	<5	Moderately sheared granodiorite with 1-2% disseminated Py. Weak hematite/sulphide staining. Medium grained, with minor foliation. Minor quartz veining, vuggy, ranging 1-2 cm.
755157	AV09-13			Mud Lake	G	<5	Quartz vein hosted in granodiorite, with minor limonite staining along contacts. The quartz veining is slightly vuggy, with no visible sulphides.
755158	AV09-15			Mud Lake	G	249	Moderately sheared granite/granodiorite with strong hematite/sulphide weathering. 0.5-1% disseminated Py. Host is medium grained, with weak pervasive chlorite alteration.
755159	AV09-15			Mud Lake	G	27	Weak sheared granodiorite (porphyry?), with 0.5% disseminated Py. Moderate hematite/sulphide weathering, moderate pervasive chlorite alteration.
755160	AV09-17			Mud Lake	G	<5	Sheared granodiorite with minor quartz veining hosted within structures. 0.1% disseminated Py. Trace fuchsite.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755161	AV09-17			Mud Lake	G	<5	Quartz veining with hematite/sulphide staining. Quartz is white to clear, with <10% carbonate. 0.1% disseminated Py. Hosted in sheared silicified granodiorite.
755162	AV09-18			Mud Lake	G	<5	Quartz vein hosted in sheared granodiorite, with 0.1% disseminated Py. Quartz is white to clear with minor hematite staining.
755163	AV09-19			Mud Lake	G	<5	Quartz vein hosted in sheared granodiorite, with minor chlorite alteration (blebs of altered mafic intrusive?). Quartz is white to clear. No visible sulphides.
755164	AV09-21			Mud Lake	G	<5	~5 cm quartz vein hosted in sheared granodiorite. Quartz is white to clear with faint hematite staining along the contacts. No visible sulphides.
755169	AV09-22			Mud Lake	G	77	~2 cm quartz vein hosted in sheared granodiorite. Quartz is white to clear, with faint hematite staining. 0.1% disseminated Py.
755170	AV09-23			Mud Lake	G	<5	Medium to coarse grained massive feldspar porphyry with 0.5-1% disseminated Py.
755171	AV09-24			Mud Lake	G	17	Quartz vein with hematite staining and faint sulphide staining. Trace amounts of carbonate with white to clear quartz.
755172	AV09-24			Mud Lake	G	7	Quartz vein with faint hematite/limonite staining.
755173	AV09-25			Mud Lake	G	130	~3 cm quartz vein hosted in sheared feldspar porphyry, with strong hematite staining. 0.5% disseminated Py, with sulphide staining.
755174	AV09-26			Mud Lake	G	16	Massive quartz vein, white to clear with minor carbonate, with faint hematite staining.
755175	AV09-28			Mud Lake	G	22	Sheared feldspar porphyry, medium grained with 0.1% disseminated Py. Weak pervasive chlorite alteration, faint sulphide staining.
755176	AV09-30			Mud Lake	G	25	Quartz vein with fine veinlets of albite (?), 0.1% disseminated Py. Fracture controlled hematite staining.
755177	AV09-30			Mud Lake	G	<5	Massive to slightly sheared granite, medium to coarse grained. 0.1% disseminated Py. Strong pervasive potassic/hematite alteration, weak to moderate pervasive silicification.
755178	AV09-30			Mud Lake	G	<5	Quartz vein, massive, white to clear in colour, with <10% carbonate. Faint hematite staining.
755211	MS#1-09	447874	5510411	Mud Lake	G	<5	1.5 cm quartz vein hosted in sheared granodiorite, with weak pervasive silicification, weak chlorite alteration, and 0.5-1% disseminated Py with sulphide staining.
755212	S#1-09	454073	5513444	Mud Lake	G	<5	Moderately sheared mafic volcanic with minor quartz veining. 0.1% very finely disseminated Py. Moderately pervasive chlorite alteration, with sulphide/limonite staining.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755213	S2-M	454090	5513468	Mud Lake	G	<5	highly sheared felsic volcanic (pyroclastic), with 1-2% disseminated Py. Bands of strong silicification, almost appearing like quartz veins, sulphide staining.
755214	S3-M	454108	5513462	Mud Lake	G	<5	Chlorite schist (slightly mylonitic), with 0.1% disseminated Py, and sections of weak pervasive silicification.
755215	S4-M	454137	5513477	Mud Lake: Historical blast pits	G	23	Chlorite schist with quartz veining (almost mylonitic). 7-10% Cpy - disseminated to blebby, up to 1 cm in size. 1-2% disseminated Py, 1-5 mm cubes. Moderate malachite staining, up to 1% on surface. Sulphide staining. Schist is possibly a chloritized felsic volcanic (pyroclastic).
755216	S5-M	454137	5513477	Mud Lake: Historical blast pits	G	109	Quartz veining in chlorite schist (>5 cm quartz vein). 3-5% disseminated Cpy associated with quartz veining, moderate malachite staining. 2-3% disseminated Py associated with the quartz veining, as well as hosted in within the schist, 1-5 mm cubes. 0.1-0.5% finely disseminated galena, along the contacts of the quartz veins. The quartz vein is highly altered, very "dirty", very strong silicification. Sulphide staining, malachite staining. Schist is possibly a chloritized felsic volcanic (pyroclastic).
755217	S6-M	454137	5513477	Mud Lake: Historical blast pits	G	<5	Strongly sheared mafic volcanic with quartz veining. Almost schistose, very chlorite-rich. 3-5% disseminated Py associated with quartz veining, 1-5 mm cubes. 0.5% disseminated Cpy, malachite/sulphide staining. Quartz veining is clear, with trace carbonate, minor weak patches of white silicification.
755218	S7-M	454136	5513476	Mud Lake: Historical blast pits	G	<5	Slightly mylonitic chlorite schist with quartz veining. 1-2% disseminated Py, 1-5 mm cubes, blebs associated with quartz veining. Veins are aligned along foliation with minor cross-cutting. Limonite/sulphide/malachite staining.
755219	S8-M	454136	5513476	Mud Lake: Historical blast pits	G	43	Chlorite schist with quartz veining. 5-10% disseminated Py, 1-5 mm cubes, minor blebs associated with quartz veining, some stringers along foliation. 1-2% disseminated Cpy, malachite staining. Limonite/sulphide staining, yellow sericite alteration.
755220	S9-M	454131	5513454	Mud Lake: Historical blast pits	G	<5	Moderately sheared mafic volcanic, with 2-3% disseminated Py (1-5 mm cubes). Moderate pervasive chlorite alteration, minor concentration along cleavage foliation. Trace malachite weathering along surfaces.
755221	S10-M	454128	5513454	Mud Lake: Historical blast pits	G	<5	Slightly sheared, very fine grained mafic volcanic. 3 mm quartz vein in sample, clear. 1-2% disseminated Py.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755222	S11-M	454124	5513450	Mud Lake: Historical blast pits	G	<5	Highly sheared very fine grained mafic volcanic. 1-2% very finely disseminated Py. Moderate pervasive chlorite alteration, limonite/sulphide weathering. Minor localized jointing @ ~60 deg to foliation.
755223	S12-M	454246	5513488	Mud Lake: Historical blast pits	G	<5	Highly sheared, fine to medium grained felsic volcanic, almost mylonitic. 1-2% Py, ranging 1-10 mm subhedral crystals, with minor strain on larger grains. 10% 1-2 mm feldspar phenocrysts. Strong pervasive chlorite alteration, giving the rock a mafic appearance.
755224	S13-M	424279	5513506	Mud Lake: Historical blast pits	G	6	Slightly sheared, coarse grained feldspar porphyry, with 30% 3-10 mm phenocrysts. 0.5% disseminated Py, with 0.1% very finely disseminated Cpy. Moderate pervasive chlorite alteration, fine clear quartz veining with Py.
755225	S14-M	454143	5513498	Mud Lake: Historical blast pits	G	<5	Slightly to moderately sheared, medium grained feldspar porphyry (possibly a chlorite-altered felsic volcanic/pyroclastic) with 50-55% chlorite-rich groundmass. Phenocrysts range 1-10 mm, with minor zoning defined by pinkish colouration in the core. 0.5-1% disseminated Py.
755226	S15-M	454126	5513491	Mud Lake: Historical blast pits	G	<5	Slightly sheared, coarse grained quartz-feldspar porphyry, with 50% 3-7 mm zoned feldspar phenocrysts, slight pinkish cores. 0.1% finely disseminated Py. Moderate pervasive/stringers of chlorite alteration. Slightly layered appearance to sample. Very quartz-rich groundmass.
755227	S16-M	454090	5513489	Mud Lake: Historical blast pits	G	<5	Quartz-feldspar porphyry, 40% 3-7 mm zoned feldspar phenocrysts. 0.1% fine disseminated Py. Blebs and stringers of chlorite alteration.
755228	S17-M	454063	5513493	Mud Lake: Historical blast pits	G	<5	Slightly sheared, coarse grained feldspar porphyry (1-5 mm) with 60% quartz-rich groundmass. 0.1% very finely disseminated Py, with stringers of chlorite alteration.
755229	S18-M	454012	5513947	Mud Lake: Historical blast pits	G	<5	Rusty colour on weathered surface, sheared felsic volcanic, 5% disseminated pyrite along shear surfaces
755230	S19-M	454012	5513947	Mud Lake: Historical blast pits	G	<5	Sheared felsic volcanic, similar to 755229
755231	S20-M	454015	5513940	Mud Lake: Historical blast pits	G	<5	Sheared felsic volcanic similar to 755229, sample is more weathered (gossaned) than previous, not much fresh rock

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755232	S21-M	454015	5513940	Mud Lake: Historical blast pits	G	<5	Quartz-calcite-epidote-sericite veining in intermediate volcanic, veining occurs as breccia veins that contain 3% sulphides, mainly pyrite and minor chalcopyrite
755233	S22-M	454013	5513932	Mud Lake: Historical blast pits	G	<5	Vuggy white quartz vein in intermediate volcanic, vein contains 1% fine disseminated pyrite
755234	S23-M	454013	5513932	Mud Lake: Historical blast pits	G	<5	Gossaned, sheared felsic volcanic, 1% fine disseminated pyrite
755235	S24-M	454015	5513927	Mud Lake: Historical blast pits	G	<5	Sericite schist, light green-beige, contains 2% fine disseminated pyrite
755236	S25-M	454015	5513927	Mud Lake: Historical blast pits	G	<5	Light beige sugary textured felsic volcanic or sediment (arkosic sandstone?) fine grained, contains 2% fine disseminated pyrite
755237	S26-M	454015	5513927	Mud Lake: Historical blast pits	G	<5	Strongly foliated felsic volcanic, similar to 755236
755238	S27-M	454015	5513927	Mud Lake: Historical blast pits	G	<5	Sericitized, strongly foliated felsic volcanic, contains 2% disseminated pyrite
755239	S28-M	454015	5513927	Mud Lake: Historical blast pits	G	<5	Sheared felsic volcanic (quartz-sericite schist) with 3% fine disseminated pyrite
755240	S29-M	454030	5513971	Mud Lake: Historical blast pits	G	<5	Foliated felsic volcanic, sugary textured, dominantly quartz rich rock, contains 2% disseminated pyrite
755241	S30-M	454035	5513973	Mud Lake: Historical blast pits	G	<5	Felsic fragmental, not deformed, semi angular cream coloured clasts in darker more chloritic matrix, clasts are up to 3cm x 2cm and form 40% of the rock
755242	S31-M	454056	5513979	Mud Lake: Historical blast pits	G	<5	Epidote altered quartz biotite rich intermediate volcanic contains 1% disseminated sulphides, mainly pyrrhotite, weak malachite staining
755243	S32-M	454057	5513956	Mud Lake: Historical blast pits	G	<5	Vuggy white quartz vein in intermediate volcanic similar to 755242, only minor pyrite in sample

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755244	S33-M	454060	5513963	Mud Lake: Historical blast pits	G	<5	small sample of intermediate fragmental
755245	S34-M	454065	5513951	Mud Lake: Historical blast pits	G	<5	Fine grained, sugary textured quartz dominated felsic volcanic, weakly sericitized, beige coloured, contains 2% fine disseminated pyrite
755246	S35-M	453828	5513728	Mud Lake: Historical blast pits	G	<5	Massive sugary textured quartz-biotite rock (intermediate volcanic? Sediment? Or intrusive) salt-pepper, bluish grey colour, cut by calcite veins (5%) and minor pyrite
755247	S36-M	453828	5513728	Mud Lake: Historical blast pits	G	6	grey-green massive, now foliated rock, probably intermediate volcanic
755248	S37-M	454098	5513970	Mud Lake: Historical blast pits	G	65	biotite-chlorite schist containing 10% chalcopyrite in coarse blobs up to 2cm, 5% pyrite associated with the chalcobles
755249	S38-M	454110	5513971	Mud Lake: Historical blast pits	G	<5	Chloritized, sheared intermediate volcanic contains 1% fine disseminated pyrite
755250	S39-M	454115	5513974	Mud Lake: Blast Pit #5	G	12	Chlorite schist (Cerro Showing) contains 5% pyrite, 1% chalcopyrite, malachite stained (S&T sample also)
755251	S40-M	453791	5513853	Mud Lake: Blast Pit #6	G	<5	Sheared felsic volcanic, sugary quartz dominant rock contains 10% pyrite, mainly disseminated and as clusters of fine pyrite cubes (this rock is similar to the other "sheared felsic volcanic" described previously, possible sediment or felsic tuff)
755252	S41-M	453791	5513853	Mud Lake: Blast Pit #6	G	<5	Sheared felsic volcanic contains 5% disseminated pyrite
755253	S42-M	453791	5513853	Mud Lake: Blast Pit #6	G	8	Fine felsic volcanic, sugary textured quartz dominant rock with minor biotite, 2% fine disseminated pyrite
755254	S43-M	453777	5513851	Mud Lake: Blast Pit #6	G	13	Gossaned, sheared felsic volcanic, 5% fine disseminated pyrite
755255	S44-M	453767	5513864	Mud Lake: Blast Pit #6	G	<5	Gossaned felsic volcanic similar to 755254 but not as sheared, 3% disseminated pyrite
755256	245-M	453713	5513849	Mud Lake: Blast Pit #6	G	5	Weakly gossaned felsic volcanic, quartz dominant rock, no shearing, contains 3% disseminated pyrite
755257	S46-M	453704	5513836	Mud Lake: Blast Pit #6	G	<5	Massive dacite, fine sugary quartz, minor biotite rock, possible feldspar porphyry, contains 1% fine disseminated pyrite
755258	S47-M	453775	5513870	Mud Lake: Blast Pit #6	G	<5	Sheared, sericitized felsic volcanic contains 5% disseminated pyrite along shera surfaces

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755259	S48-M	453971	5513864	Mud Lake: Blast Pit #6	G	<5	sheared felsic volcanic, 5% disseminated pyrite
755260	S49-M	453841	5513901	Mud Lake: Blast Pit #6	G	<5	Grey-green massive, now foliated, sugary textured rock, possible andesite or weakly chloritic dacite, 1% fine disseminated pyrite, rock is relatively fresh
755261	S50-M	453795	5513870	Mud Lake: Blast Pit #8	G	<5	Gossaned felsic volcanic (tuff?) contains 3% disseminated pyrite
755262	S51-M	453822	5513880	Mud Lake: Blast Pit #8	G	<5	Sericitized, sheared felsic volcanic (porphyry?) contains 3% disseminated pyrite, light white grey color
755263	S52-M	453829	5513883	Mud Lake: Blast Pit #8	G	<5	Sheared ricitized gossaned felsic volcanic, 5% disseminated pyrite
755264	S53-M	453834	5513886	Mud Lake: Blast Pit #8	G	6	gossaned felsic volcanic, 3% disseminated pyrite
755265	S54-M	453844	5513831	Mud Lake: Blast Pit #8	G	<5	Relatively fresh dacite, contains 1% fine diseminated pyrite, rock is cut by calcite veins cross-cutting foliation
755266	S55-M	453947	5513856	Mud Lake: Blast Pit #8	G	<5	Epidote altered massive quartz biotite intermediate volcanic. Sugary textured, minor pyrite
755267	S56-M	453937	5513865	Mud Lake: Blast Pit #8	G	<5	Sheared, silcified intermediate volcanic, 2% diseminated pyrite
755268	S57-M	454144	5514016	Mud Lake: Blast Pit #8	G	<5	Sheared diorite, medium to coarse grained, salt-pepper texture, dark grey to creamy grey colours, deformed plagioclase laths, 3% disseminated pyrite cubes up to 0.5cm disseminated throughout (possible intermediate fragmental but prefer diorite)
755269	S58-M	454148	5514005	Mud Lake: Blast Pit #8	G	<5	Weakly gossaned chlorite-sericite schist, 3% disseminated pyrite
755270	S59-M	454145	5514014	Mud Lake: Blast Pit #9	G	7	Gossaned sheared felsic volcanic, 3% disseminated py
755271	S60-M	454127	5514039	Mud Lake: Blast Pit #9	G	<5	Weakly sheared intemediate fragmental
755272	S61-M	454131	5514041	Mud Lake: Blast Pit #9	G	<5	Sheraded, calcite altered intermediate volcanic
755273	S62-M	454046	5513909	Mud Lake: Blast Pit #9	G	<5	Relatively fresh dacite. 1% disseminated pyrite
755274	S63-M	454452	5513555	Mud Lake: Blast Pit #9	G	24	Feldspar porphyry, light grey matrix hosts 30\$ plagioclase phenocrysts, phenocrysts are up to 0.7cm, traces pyrite
755275	S64-M	454403	5513559	Mud Lake: Blast Pit #9	G	12	Intermediate volcanic, massive fine grained

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755276	S65-M	454386	5513548	Mud Lake: Blast Pit #9	G	77	Feldspar porphyry similar to 755274, minor pyrite, malachite staining on weathered surfaces
755277	S66-M	454312	5513605	Mud Lake: Blast Pit #9	G	<5	Intermediate volcanic, fine grained, slaty cleavage, minor pyrite
755278	S67-M	454312	5513605	Mud Lake: Blast Pit #9	G	<5	Intermediate tuff, chlorite clots along foliation, minor pyrite
755279	S68-M	454304	5513603	Mud Lake: Blast Pit #9	G	<5	Intermediate volcanic, massive with clots of chlorite stretched along foliation, traces of pyrite
755280	S69-M	454265	5513623	Mud Lake: Blast Pit #9	G	<5	Intermediate volcanic, similar to 755280
755281	S70-M	454265	5513623	Mud Lake: Blast Pit #9	G	<5	Intermediate volcanic, similar to 755280
755282	S71-M	454231	5513602	Mud Lake: Blast Pit #9	G	<5	Sheared intermediate volcanic, now chlorite schist, 1% pyrite as disseminated cubes up to 0.5cm
755283	S72-M	453874	5513651	Mud Lake: Blast Pit #9	G	<5	Intermediate (dacite?) volcanic, 2% disseminated pyrite, weakly gossaned on fractured surfaces
755284	S73-M	453874	5513651	Mud Lake	G	<5	Intermediate volcanic (dacite?), minor pyrite
755285	S74-M	453760	5513648	Mud Lake	G	<5	Sheared intermediate fragmental, contains 1% very fine disseminated pyrite, fragments up to 3cm but mainly small lapilli
755286	S75-M	453750	5513653	Mud Lake	G	<5	Fine grained, massive cherty (silicified?) intermediate volcanic, contains 3% pyrite cubes up to 0.5% disseminated throughout
755287	S76-M	453750	5513653	Mud Lake	G	<5	Massive intermediate volcanic cut by narrow quartz veins up to 2cm wid, veins form 10% of sample, minor disseminated pyrite
755288	S77-M	453757	5513638	Mud Lake	G	<5	Massive dacite, light grey, few fine feldspar phenocrysts, minor disseminated pyrite
755289	S78-M	453282	5513075	Mud Lake	G	<5	Sheared, dark reddish altered diorite (Coyle Lake stock), sericitized sample includes boudin of rose coloured quartz with minor pyrite
755290	S79-M	453272	5513014	Mud Lake	G	<5	Intensely sheared diorite, reduced to sericite schist with ovals of quartz and feldspars
755291	S80-M	453001	5512813	Mud Lake	G	<5	Diorite, sample is strongly weathered
755292	S81-M	454035	5514122	Mud Lake	G	<5	Sericite schist, grey colour, minor pyrite, parent rock unknown
755293	S82-M	451964	5510710	Mud Lake	G	<5	Intermediate volcanic, foliated or cleaved, relatively fresh, weakly carbonate gossaned, minor pyrite along foliation/cleavage
755294	S83-M	451961	5510715	Mud Lake	G	<5	Fine grained weakly foliated massive rock, possible dacite with minor pyrite, rock is weakly gossaned
755295	S84-M	451930	5510721	Mud Lake	G	<5	rock chips of gossaned hematite-epidote altered intermediate volcanic, minor pyrite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755296	S85-M	451913	5510802	Mud Lake	G	<5	Dacite tuff or crystal tuff, grey colour with fragments of plagioclase crystals
755297	S86-M	451920	5510800	Mud Lake	G	8	Black fine grained masive strongly magnetic diabase, minor disseminated py
755298	S87-M	451923	5510785	Mud Lake	G	<5	Mafiv porphyry, fine grained black to dark grey matrix hosts 10% feldspar phenocrysts, phenocrysts are up to 3mm, minor pyrite
755299	S88-M	451949	5510776	Mud Lake	G	<5	Intermediate volcanic, epidote alteration along frcatures, minor pyrite disseminated
755300	S89-M	451955	5510845	Mud Lake	G	<5	Black fine grained strongly foliated heavy rock, contains 1% pyrite along selected foliated surfcaes (diabase?)
755301	S90-M	451752	5511224	Mud Lake	G	<5	Fine grained massive intermediate volcanic, minor pyrite
755302	S91-M	451632	5511185	Mud Lake	G	235	Strongly gossaned hematite altered mafic rock containing 5% chalcopryite+pyrite
755303	S92-M	451632	5511185	Mud Lake	G	36	Weakly gossaned intermediate volcanic, tuff?
755304	S93-M	451594	5511175	Mud Lake	G	9	Intermediate volcanic, relatively fresh
755305	S94-M	451559	5511153	Mud Lake	G	<5	Intermediate volcanic, relatively fresh dacite?
755306	S95-M	451531	5511226	Mud Lake	G	6	Feldspar porphyry or porphyritic diorite, includes biotite in matrix, feldspars`are up to 0.6cm set in a finer but still relatively coarse matrix of felspar, quartz, biotite, not deformed
755307	S96-M	451537	5511244	Mud Lake	G	<5	Weakly foliated and deformed similar to 755306, contains minor pyrite along cross-cutting fractures, clots of chlorite forme along still weakly developed foliation
755308		449096	5511672	West of Trench #6	G	<5	Light grey-pink to greenish grey, quartz dominant massive rock (rhyolite?), sericitic, contains 1% fine disseminated pyite
755309		449072	5511692	West of Trench #6	G	33	Quartz vein, rose and white colour, contains minor pyrite in diorite or medum grained gabbro, vein is estimated to be <10cm thick
755310		449067	5511691	West of Trench #6	G	267	Quartz vein, white colour with few rose-coloured pathces, minor pyrite and chalcopryite, specks of malachite staining, host to vein is medium grained diorite
755311		449065	5511705	Mud Lake	G	3221	Dacite, silicified, quartz-eye bearing, massive grey clour, contains minor pyrite, injected with clear white quartz veinlets
755312		449060	5511723	Mud Lake	G	11	Dacite, grey colour, massive
755313		449065	5511723	West of Trench #6; Float	G	7	Dacite, feldspar porphyritic, massive grey-green, contains patches of very fine black mineral, non-magnetic
755314		449104	5511715	Mud Lake	G	<5	Granodiorite, light grey with pinkish alteration due to hematite, fine grained, cut by few veinlets (<1cm) of clear white quartx, minor pyrite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755315	S97-M	453658	5114199	Mud Lake: East	G	6	Dacite tuff, grey colour with very fine pockets containing pyrite and chalcopyrite, total sulphides <0.5%
755316	S98-M	453676	5514235	Mud Lake: East	G	6	Silicious, banded felsic volcanic or chert, contains 10% fine disseminated pyrite (possible intrusive rock)
755317	S99-M	453664	5514251	Mud Lake: East	G	6	Dacite, feldspar porphyritic, silicified, contains 10% white feldspar phenocrysts up to 2mm. 5% disseminated pyrite, 1% chalcopyrite, massive not deformed (interesting rock)
755318	S100-M	453672	5514360	Mud Lake: East	G	<5	Dacite, massive silicious containing traces of pyrite cubes in microveinlets of quartz, veinlets form <3% of the rock
755319	S101-M	453629	5514395	Mud Lake: East	G	<5	Quartz vein, white and rose quartz, edges of vein are altered to very fine tourmaline or biotite
755320	S102-M	453532	5514374	Mud Lake: East	G	13	Quartz vein, white and rose quartz containing sulphide pockets up to 0.7cm in diameter, total sulphides is <1%, mainly chalcopyrite with minor pyrite
755321	S103-M	453571	5514381	Mud Lake: East	G	<5	Quartz vein, white and rose quartz, locally strong hematite alteration, contains minor pyrite
755322	S104-M	453601	5514417	Mud Lake: East	G	<5	Quartz vein, white massive barren-looking
755323	S105-M	453657	5514398	Mud Lake: East	G	<5	Quartz vein, white massive barren-looking
755324	S106-M	453657	5514420	Mud Lake: East	G	<5	Quartz vein, white massive, coarse grained with few inclusions of sericite and light green chlorite
755325	S107-M	453651	5514428	Mud Lake: East	G	<5	Quartz vein similar to 755327
755326	S108-M	453669	5514435	Mud Lake: East	G	22	Quartz vein, white massive, coarse grained, contains 10% inclusions of light green chlorite
755327	S108-M	451576	5511287	Mud Lake: East	G	47	Diorite, dark grey, salt-pepper, lightly sheared contains 5% quartz eyes, medium grained
755328	S109-M	451506	5511320	Mud Lake: East	G	<5	Granodiorite, massive pinkish, quartz-feldspar-biotite, fine to medium grained, contains 3% fine disseminated pyrite
755329	S110-M	451504	5511322	Mud Lake: East	G	58	Granodiorite, massive pinkish silicified, fine grained, contains 5% fine disseminated pyrite
755330	S111-M	451509	5511336	Mud Lake: East	G	<5	Granodiorite, massive, fine to medium grained pink-altered (hematite?), contains minor to 1% fine pyrite
755331	S112-M	451509	5511336	Mud Lake: East	G	57	Granodiorite, weakly sheared, weak sericite altered, 2% fine disseminated pyrite
755332	S113-M	451504	5511347	Mud Lake: East	G	<5	Granodiorite massive, fine to medium grained, pink dark grey colours, magnetic

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755333	S114-M	451501	5511367	Mud Lake: East	G	22	Granodiorite, medium grained, massive, magnetic, contains 1% fine pyrite
755334	S115-M	451477	5511327	Mud Lake: East	G	8	Granodiorite, medium grained, massive, magnetic, contains 2% fine disseminated pyrite
755335	S116-M	451471	5511313	Mud Lake: East	G	<5	Granodiorite, similar to 755334, contains 1% pyrite
755336	S117-M	451498	5511375	Mud Lake: East	G	<5	Diorite, massive medium grained, grey with salt-pepper texture, feldspar porphyritic, not magnetic, contains 1% fine disseminated pyrite, weakly silicified
755337		451513	5511378	Mud Lake: East	G	6	Diorite (granodiorite), massive, medium grained, magnetic, similar pinkish colours as granodiorite in 755332, traces of pyrite
755338	S118-M	453430	5513709	Mud Lake: East	G	26	Dacite, fine grained, massive, grey colour, contains 3% fine disseminated py
755339	S119-M	453430	5513709	Mud Lake: East	G	6	Dacite, sheared sericite altered, silicified light cream to grey colour, contains 3% fine disseminated pyrite
755340	S120-M	453430	5513709	Mud Lake: East	G	<5	Dacite, strongly sheared sericite altered, silicified dacite with 3% fine disseminated pyrite
755341	S121-M	453430	5513709	Mud Lake: East	G	<5	Dacite, gossaned, strongly sheared, now mainly quartz, 3% fine disseminated pyrite
755342	S122-M	453420	5513735	Mud Lake: East	G	<5	Dacite, grey colour, massive fine grained, <1% fine disseminated pyrite
755343	S123-M	453408	5513716	Mud Lake: East	G	<5	Dacite, sheared, 1% fine disseminated pyrite
755344	S124-M	453403	5513718	Mud Lake: East	G	<5	Dacite, fine grained, massive, silicified, 3% disseminated pyrite mainly as very fine crystals but also as coarse crystals up to 1mm
755345	S125-M	453404	5113708	Mud Lake: East	G	<5	Dacite, fine grained, massive, silicified, similar to 755344, contains 2% pyrite as very fine crystals and clusters of coarser pyrite
755346	S126-M	453396	5513695	Mud Lake: East	G	<5	Dacite, sheared, sericite altered, silicified, contains 5 to 7% fine disseminated pyrite
755347	S127-M	453370	5513704	Mud Lake: East	G	<5	Dacite, massive silicified, 3% fine disseminated pyrite, mainly along fractures
755348	S128-M	453358	5513693	Mud Lake: East	G	17	Quartz vein, white massive within pyrite bearing dacite, dacite contains 3% fine disseminated pyrite
755349	S129-M	453358	5513693	Mud Lake: East	G	<5	Quartz feldspar porphyry, massive, medium grained, contains 5% very fine pyrite
755350	S130-M	453495	5513765	Mud Lake: East	G	<5	Quartz vein, white with inclusions of dark green chlorite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755351		451532	5511470	Mud Lake: East	G	<5	Granodiorite, fine grained, equigranular, feldspars are sericitized, contains minor very fine disseminated pyrite
755352		451440	5511483	Mud Lake: East	G	<5	Granodiorite, fine grained, equigranular, massive, magnetic, contains minor amounts of fine disseminated pyrite
755353		451430	5511474	Mud Lake: East	G	<5	Granodiorite, medium grained, magnetic, massive, traces of fine pyrite
755354		451424	5511471	Mud Lake: East	G	<5	Granodiorite, massive, magnetic, medium grained, minor pyrite
755355		451366	5511488	Mud Lake: East	G	<5	Granodiorite, massive magnetic, silicified, traces of pyrite
755356		451352	5511523	Mud Lake: East	G	20	Granodiorite, massive, magnetic, traces pyrite
755357		451942	5511680	Mud Lake: East	G	<5	Fine grained massive dark grey, 1% fine disseminated pyrite (possible diabase)
755358		451959	5511684	Mud Lake: East	G	10	Diabase, dark grey, massive magnetic, contains 1% pyrite along fractures
755359		451977	5511702	Mud Lake: East	G	10	Granodiorite, fine to medium grained, massive, weakly silicified, 5% fine disseminated pyrite
755360		452002	5511715	Mud Lake: East	G	11	Granodiorite, sheared weakly sericite altered, reddish colour, contains 2% fine disseminated pyrite
755361		452118	5511764	Mud Lake: East	G	15	Dacite, sheared, gossaned, weak sericite altered, 1% fine disseminated pyrite
755362		451993	5511587	Mud Lake: East	G	178	Granodiorite, sheared gossaned, 1% disseminated pyrite, non-magnetic
755363		452004	5511590	Mud Lake: East	G	8	Diabase, fine grained, massive, grey, magnetic
755364		452017	5511589	Mud Lake: East	G	7	Granodiorite, sheared, contains 3% fine disseminated pyrite
755365		452045	5511612	Mud Lake: East	G	6	Granodiorite, sheared weakly magnetic, 3% fine disseminated pyrite
755366		452065	5511625	Mud Lake: East	G	<5	Dacite fine grained, massive grey with 1% fine disseminated pyrite
755367		452166	5512058	Mud Lake: East	G	<5	Granodiorite, massive, equigranular, fine grained magnetic
755368		452143	5512071	Mud Lake: East	G	8	Granodiorite, massive, equigranular, magnetic
755369		452110	5512135	Mud Lake: East	G	6	Granodiorite, sheared weakly magnetic, gossaned, 2% disseminated pyrite

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755370		451370	5511179	Mud Lake: East	G	<5	Granodiorite, massive, sugary textured, fine to medium grained, quartz-feldspar-biotite rock, not magnetic, contains 3% fine disseminated pyrite
755371		451342	5511153	Mud Lake: East	G	<5	Intermediate volcanic, gossaned, fine grained, dark grey rock, no fresh surfaces in the sample
755372		451339	5511141	Mud Lake: East	G	12	Intermediate volcanic, gossaned, silicified with pockets of clear glassy quartz, limonite on fractures, minor pyrite, rock is massive
755373		451560	5511100	Mud Lake: East	G	<5	Cherty sediment, banded dark grey and reddish black, massive, contains 3% fine disseminated pyrite (mafic sediment)
755374		452235	5512087	Mud Lake: East	G	<5	Dacite, massive sugary textured (possible fine grained granodiorite) contains 3% fine disseminated pyrite, traces chalcopyrite
755375		452179	5512115	Mud Lake: East	G	8	Dacite, sheared gossaned contains 3% pyrite, sheared version of 755374
755376		453392	5513651	Mud Lake: East	G	34	Dacite, massive fine grained, light grey, mainly quartz-feldspar rock, contains 1% disseminated pyrite
755377		453335	5513628	Mud Lake: East	G	<5	Dacite, similar to 755376 but injected with clear white quartz veinlets and quartz pods, veins form 20% of sample, 2% pyrite
755378		453335	5513628	Mud Lake: East	G	6	Dacite, white feldspar porphyry, phenocrysts make up 40% up to 2mm, set in finer grained matrix of quartz-biotite-feldspar, rock is massive, dark grey, contains 2% fine disseminated pyrite
755379		453340	5513617	Mud Lake: East	G	<5	Dacite porphyry similar to 755378 but jointed and gossaned along joints
755380		453313	5513613	Mud Lake: East	G	<5	Dacite, massive weakly foliated, light grey silicious, 3% fine disseminated pyrite
755381		453288	5513576	Mud Lake: East	G	<5	Dacite, similar to 755380 but more very fine chlorite alteration, 3% fine disseminated pyrite
755382		453287	5513586	Mud Lake: East	G	<5	Dacite, massive fine grained sugary textured, quartz-feldspar-biotite rock, 2% fine disseminated pyrite
755383		453271	5513579	Mud Lake: East	G	<5	Dacite, massive, sugary textured, silicious, 3% fine disseminated pyrite, grey green colour
755384		453217	5513586	Mud Lake: East	G	<5	Dacite, sheared, contains 2% fine disseminated pyrite
755385		453209	5513584	Mud Lake: East	G	10	dacite, foliated, possible fragmental, biotite-sericite altered, contains 2% fine disseminated pyrite
755386		453204	5513664	Mud Lake: East	G	8	Gabbro, dark green, massive chloritized, contains 1% disseminated pyrite, 5% fine grained disseminated magnetite
755387		453222	5513672	Mud Lake: East	G	<5	Gabbro, massive, fine to medium grained, green to dark green, weakly magnetic, feldspars altered to epidote

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755388		453263	5513789	Mud Lake: East	G	6	Dacite, fine grained, massive, very little fresh surfaces, includes 20% glassy white quartz veins, possible minor very fine disseminated pyrite
755389		453294	5513721	Mud Lake: East	G	5	Gabbro, massive, medium grained, dark green with epidote altered feldspars, 3% disseminated magnetite
755390		453339	5513680	Mud Lake: East	G	<5	Dacite, fine grained, massive silicious with 2% fine disseminated pyrite
755391		453339	5513680	Mud Lake: East	G	<5	Dacite and quartz vein, sample consists of 50% white glassy quartz vein and 50% fine silicious dacite, dacite contains 10% fine disseminated throughout the rock and along fractures
755392		453325	5513633	Mud Lake: East	G	<5	Dacite sheared gossaned silicified, contains 3% pyrite
755393		452816	5513243	Mud Lake: East	G	<5	Gossaned rock, small pieces of black, gossaned weathered rock
755394		451356	5511382	Mud Lake: East	G	<5	Granodiorite, dark reddish grey, massive medium grained, weakly magnetic, cut by 20% 25% veinlets of clear glassy and white quartz
755395		451355	5511388	Mud Lake: East	G	<5	Granodiorite, massive, medium grained, weakly magnetic, contains 1% fine disseminated pyrite
755396		451332	5511420	Mud Lake: East	G	<5	Granodiorite similar to 755394 with 0.5% fine disseminated pyrite
755397		451344	5511417	Mud Lake: East	G	<5	Granodiorite, similar to 755395 but cut by 1.5cm wide quartz vein containing 1 to 2% fine disseminated pyrite
755398		451482	5511310	Mud Lake: East	G	<5	Granodiorite, foliated, weakly magnetic, medium grained, contains clusters of chloritized rock fragments (xenoliths?), minor disseminated pyrite
755399		453658	55113535	Mud Lake: East	G	9	Dacite massive grey, sugary textured, contains 1% very fine disseminated pyrite
755400		454255	5514013	Mud Lake: East	G	<5	dacite fragmental, felsic fragments up to 2cm by 2cm, foliated, contains only minor pyrite
755401		454306	5514047	Mud Lake: East	G	6	Highly schistose felsic volcanic, with 2-3% blebby Py associated with sulphide weathering. 3-5% 1-3 mm feldspar phenocrysts. Strong sericite alteration with moderate chlorite. Weak to moderate pervasive silica+bleaching, moderate limonite weathering.
755402		453649	5513394	Mud Lake: East	G	<5	Highly schistose felsic volcanic, with 2-3% blebby Py associated with sulphide weathering. 3-5% 1-3 mm feldspar phenocrysts. Strong sericite alteration with moderate chlorite. Weak to moderate pervasive silica+bleaching, moderate limonite weathering.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755403		453649	5513394	Mud Lake: East	G	32	Highly schistose felsic volcanic, with 2-3% blebby Py associated with sulphide weathering. 3-5% 1-3 mm feldspar phenocrysts. Strong sericite alteration with moderate chlorite. Weak to moderate pervasive silica+bleaching, moderate limonite weathering.
755404		453597	5513393	Mud Lake: East	G	27	Highly schistose felsic volcanic, with 2-3% blebby Py associated with sulphide weathering. Strong sericite alteration with moderate chlorite. Weak to moderate pervasive silica+bleaching, moderate limonite weathering.
755405		453586	5513424	Mud Lake: East	G	7	Moderately sheared felsic volcanic, with 1-2% very finely disseminated Py. Moderate to strong pervasive silica+bleaching, weak chlorite stringers along foliation, weak sericite alteration - <1 mm blebs. Weak limonite weathering.
755406		453594	5513428	Mud Lake: East	G	11	Felsic volcanic with patches of moderate silica+bleaching. 3-5% very finely disseminated Py. Weak pervasive chlorite-sericite alteration. Weak limonite/sulphide weathering.
755407		453574	5513418	Mud Lake: East	G	11	Moderately sheared granodiorite with 0.1-0.5% very finely disseminated Py. Weak to moderate patchy bleaching, weak pervasive silica alteration. Weak limonite/sulphide weathering.
755408		453574	5513418	Mud Lake: East	G	9	Fine grained massive granodiorite, with 1-2% very finely disseminated Py with sulphide weathering rims. Minor shearing defined by sericite alteration along foliation. Moderate pervasive silica alteration, chlorite alteration.
755409		453588	5513463	Mud Lake: East	G	<5	Fine grained massive granodiorite, with 1-2% very finely disseminated Py with sulphide weathering rims. Minor shearing defined by sericite alteration along foliation. Moderate pervasive silica alteration, chlorite alteration.
755410		453600	5513461	Mud Lake: East	G	<5	Felsic volcanic, with 2-3% very finely disseminated Py. Moderate silica alteration, weak pervasive chlorite, with patches of bleaching. Weak limonite/sulphide weathering.
755411		453606	5513432	Mud Lake: East	G	<5	Felsic volcanic, with 3-5% very finely disseminated Py. Moderate silica alteration, weak pervasive chlorite. Weak limonite/sulphide weathering.
755412		453420	5513269	Mud Lake: East	G	12	Slightly sheared granodiorite, with 5-7% Py - 1-5 mm blebs to stringers (<1 mm). Weak to moderate sericite alteration along foliation, weak limonite/sulphide weathering with minor bleaching.
755413		453465	5513821	Mud Lake: East	G	<5	Fine grained massive granodiorite, with 1-2% Py blebs with sulphide weathering rims. Minor shearing defined by sericite alteration along foliation.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755414		453481	5513722	Mud Lake: East	G	<5	Felsic volcanic - possible intrusive? 3-5% Py, 1-15 mm blebs with sulphide weathering rims. Moderate pervasive silica alteration, with quartz eyes. Weak pervasive sericite alteration, weak limonite weathering.
755415		453647	5513957	Mud Lake: East	G	<5	Quartz vein hosted in light green chlorite schist, with weak limonite staining.
755416		453651	551424	Mud Lake: East	G	<5	Felsic volcanic with 3-5% 1-4 mm feldspar phenocrysts. 5-7% very finely disseminated Py. Weak to moderate silicification+bleaching, weak limonite staining, weak sulphide weathering.
755417		453649	5514222	Mud Lake: East	G	6	Felsic volcanic with 3-5% 1-4 mm feldspar phenocrysts. 1-2% very finely disseminated Py. Weak to moderate silicification+bleaching, weak limonite staining, weak sulphide weathering.
755418		453567	5514203	Mud Lake: East	G	<5	Mafic volcanic (chlorite-rich felsic volcanic?) with 3-5% feldspar phenocrysts. 3-4% disseminated blebs of Py. Patches of bleaching.
755419		453560	5514196	Mud Lake: East	G	9	Massive porphyry? Looks like a mafic volcanic with feldspar phenocrysts. 0.5% disseminated Py. Blocky breakage, weak to moderate pervasive chlorite.
755420		453543	5514247	Mud Lake: East	G	<5	Quartz vein breccia with fragments of slightly porphyritic granodiorite. 0.1% very finely disseminated Py. Patches of chlorite, faint pink potassic alteration.
755421		449034	5511699	Mud Lake: W of #6 Trench	G	<5	Slightly sheared granodiorite, very chlorite-rich. 0.1-0.5% disseminated Py. Moderate pervasive silica, faint limonite staining/weathering.
755422		449017	5511699	Mud Lake: W of #6 Trench	G	<5	White quartz vein with 1-3% carbonate, 1-2% patches of chlorite, and trace patches of pink potassic alteration.
755423		449013	5511629	Mud Lake: W of #6 Trench	G	<5	Quartz vein with patches of chlorite. White to translucent, with 3-5% carbonate. 0.1% finely disseminated Py. Faint limonite/sulphide weathering.
755424		449016	5511629	Mud Lake: W of #6 Trench	G	<5	Quartz vein breccia with fragments of granodiorite. 0.1% finely disseminated Py. Weak pervasive sericite-chlorite, silicification.
755425		449013	5511769	Mud Lake: W of #6 Trench	G	<5	Strongly sheared chlorite-rich diorite, with 0.5-1% disseminated Py, 0.1% Cpy. Very fine quartz veining (<1 mm) with faint hematite along contacts. Weak limonite weathering, weak sericite alteration along foliation.
755426		449024	5511777	Mud Lake: W of #6 Trench	G	11	quartz vein with moderate hematite staining. 1-2% blebby Py, associated with sulphides weathering and hematite staining. 7-10% patches of chlorite, 1-3% patches of pinkish potassic alteration. 3-5% carbonate. Faint limonite weathering.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755427		449050	5511807	Mud Lake: W of #6 Trench	G	<5	Chlorite schist (highly sheared granodiorite), with 0.1-0.5% finely disseminated Py. Minor quartz veining, ~4 mm. Faint hematite weathering.
755428		449197	5511762	Mud Lake: W of #6 Trench	G	<5	Moderate sheared chlorite-rich diorite, with 0.5-1% disseminated Py. Moderate to strong silica occurring pervasive to veins/stringers. Moderate pervasive to stringers of chlorite. Faint limonite staining/weathering.
755429		449264	5511968	Mud Lake: N of #6 Trench	G	103	Quartz vein hosted in altered, slightly sheared granodiorite. 1-2% Py, associated with hematite/sulphide weathering, 0.5% Cpy with malachite staining. Moderate to strong hematite/sulphide weathering/staining, moderate limonite staining, all associated with quartz veining. Patches of chlorite within the quartz vein.
755430		449113	5511561	Floater, Mud Lake: #6 West	G	<5	Moderate sheared chlorite-rich diorite, with 0.1-0.5% disseminated Py. Weak silica occurring pervasive to veins/stringers. Moderate pervasive to stringers of chlorite. Moderate limonite staining/weathering. Moderately schistose.
755431		449125	5511531	Mud Lake: W of #6 Trench	G	15	Moderate sheared chlorite-rich diorite, with 0.1-0.5% disseminated Py. Moderate to strong silica occurring pervasive to veins/stringers. Moderate pervasive to stringers of chlorite. Moderate limonite staining/weathering. Moderately schistose.
755432		449117	5511468	Mud Lake: W of #6 Trench, loose rock	G	<5	Moderate sheared chlorite-rich diorite, with 0.5-1% disseminated Py. Moderate to strong silica occurring pervasive to veins/stringers. Moderate pervasive to stringers of chlorite. Faint limonite staining/weathering. Moderately schistose.
755433		449094	5511461	Mud Lake	G	<5	Moderate sheared chlorite-rich diorite, with 1-2% disseminated Py. Moderate to strong silica occurring pervasive to veins/stringers. Moderate pervasive to stringers of chlorite. Faint limonite staining/weathering.
755434		449098	5511399	Mud Lake	G	<5	"Dirty" quartz vein hosted in very silica-rich granodiorite, with 7-10% carbonate. 1% Py, 0.1% Cpy with very faint malachite weathering. Moderate limonite/hematite/sulphide staining.
755435		449109	5511389	Mud Lake: #6 Extension	G	<5	Highly sheared granodiorite/sericite schist. 0.1% very finely disseminated Py. Weak pervasive pink potassic alteration of feldspars, weak chlorite stringers along foliation.
755436		449109	5511392	Mud Lake: #6 Extension	G	<5	Sericite schist with fine quartz veins (1-2 mm; highly sheared granodiorite). 0.1-0.5% very finely disseminated Py. Faint limonite weathering.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755437		449108	5511402	Mud Lake: #6 Extension	G	<5	Sericite schist with limonite staining along foliation. 0.5-1% finely disseminated Py. Weak hematite alteration occurring as a fine dusting along foliation. Very schistose, almost mylonitic.
755438		449108	5511402	Mud Lake: #6 Extension	G	<5	Highly altered fine grained granite, with minor shearing associated with quartz veining. 0.5-1% very finely disseminated Py. Moderate to strong silica, pervasive to veins/stringers. Moderate to strong pervasive bleaching. Moderate pervasive sericite alteration, weak to moderate limonite weathering, weak pervasive pink potassic alteration.
755439		450487	5512608	Mud Lake: Oliver Severn Float	G	<5	Slightly sheared granite with 5% Py, very finely disseminated to 1 mm stringers. Rock is highly altered, with moderate silica - pervasive up to 1-3 mm veins, moderate to strong pervasive sericite, moderate bleaching and moderate pervasive potassic alteration occurring as minor rims on quartz veins. Patches of chlorite.
755440		449010	5511453	Mud Lake: W of #6 Trench	G	<5	Highly sheared granodiorite with quartz veining. 0.1% very finely disseminated Py. Moderate chlorite-sericite alteration defining foliation. Patches of chlorite associated with quartz veining. Faint hematite/potassic staining localized within the quartz veining.
755441		449007	5511406	Mud Lake: W of #6 Trench	G	<5	White to translucent quartz veining with 3-5% carbonate, hosted in sheared granodiorite. 0.1% very finely disseminated Py. Patches of chlorite. Faint limonite/hematite weathering.
755442		489994	5511371	Mud Lake: W of #6 Trench	G	5	Strongly sheared diorite with moderate to strong pervasive silicification. 0.5% disseminated Py, associated with silica. Silicification is pervasive to veined. Shearing is defined by chlorite stringers. Weak sericite alteration, occurring as <1 mm yellow blebs.
755443		449018	5511362	Mud Lake: W of #6 Trench	G	14	Strongly sheared black chlorite schist (possible mafic-intermediate intrusive; 1-2% 1-3 mm quartz eyes). Very dark green to black in colour. 1-2% disseminated to blebby Py. Weak sericite alteration along foliation. Trace molybdenite (?), dark steel blue grey blebs along foliation. Faint limonite weathering.
755444		449018	5511362	Mud Lake: W of #6 Trench	G	24	Quartz vein hosted in chlorite schist (dark green to black). 1-2% Cpy with malachite weathering, 0.5-1% Py with sulphide/limonite weathering. 7-10% carbonate, but quartz vein is dominantly translucent. Trace fuchsite (lighter green), host rock possibly mafic?
755445		449018	5511362	Mud Lake: W of #6 Trench	G	6	Quartz vein with patches of moderate hematite/limonite staining. 0.5% Py, sulphide weathering associated with hematite staining. 25-30% irregular patches of chlorite. 1% patches of fuchsite?

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755446		449096	5511328	Mud Lake: W of #6 Trench	G	<5	Moderate to strongly sheared diorite. 0.5% disseminated Py, along foliation. Moderate to strong chlorite alteration along foliation. Weak sericite alteration occurring as fine yellow blebs (<1 mm)
755447		448744	5511596	Mud Lake	G	6	Moderate to strongly sheared granodiorite, with bands of sericite-chlorite alteration. 0.5-1% disseminated Py (1-2 mm). Moderate banded silicification. Weak limonite/sulphide staining.
755448		448837	5511602	Mud Lake Trench F	G	1312	Moderately sheared granodiorite with 1-2 cm quartz veining. 0.5% very finely disseminated Py. Moderate pervasive silicification, weak patchy/blebby pink potassic alteration (<1-2 mm). Weak limonite staining associated with quartz veining. Weak to moderate chlorite alteration along foliation.
755449		448413	5511431	Mud Lake: Clarke Area	G	15	moderate to strongly sheared diorite, very chlorite-rich. 0.5% very finely disseminated Py. Dark in colour, weak sericite alteration - <1 mm yellow blebs. Fain to weak hematite/limonite alteration along foliation. Weak hematite/limonite/sulphide weathering as well.
755450		448435	5511499	Mud Lake: Clarke Area	G	25	Quartz vein hosted in moderately silicified granodiorite. 0.5-1% disseminated Py with trace Cpy, associated with sulphide weathering. Strong hematite/potassic alteration localized to quartz veining. Faint limonite weathering.
755451		448840	5511592	Mud Lake Trench F	G	21	"Dirty" quartz vein, with moderate chlorite-sericite stringers, 10-15% carbonate. 0.5% very finely disseminated Py. Weak hematite/potassic stringers (<1 mm).
755452		448853	5511597	Mud Lake Trench F	G	18	Weak quartz vein breccia with angular fragments of granodiorite. 1-2% finely disseminated to > 5mm blebs of Py. Fragments are moderate to strongly chlorite altered. Moderate pervasive silica alteration. Faint to weak pink patchy potassic alteration, associated with silica. Faint limonite/sulphide weathering.
755453		448852	5511592	Mud Lake Trench F	G	<5	Moderate to strongly sheared granodiorite with moderate pervasive silicification. Quartz veining, ranging 1-15 mm. Some are barren appearing with subhedral crystals, other veins appear "dirtier" with 0.1-0.5% finely disseminated Py along foliation. Weak pink potassic alteration associated with silicification. Weak to moderate limonite staining, <1 mm stringers along foliation.
755454		448858	5511587	Mud Lake Trench F	G	<5	Highly sheared granodiorite, almost a sericite-chlorite schist. 0.1-0.5% very finely disseminated Py. Moderate to strong sericite-chlorite alteration, defining foliation. 1-10 mm quartz stringers along foliation. Faint pink potassic alteration associated with veining. Weak limonite/sulphide weathering.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755455		448862	5511588	Mud Lake Trench F	G	10	Quartz vein breccia with fragments of granodiorite, with 35-40% quartz matrix. 0.1% very finely disseminated Py. Moderate pink potassic alteration associated with quartz veining. Stringers of weak to moderate hematite associated with quartz. Moderate chlorite stringers along contacts of fragments (reaction rims?). Moderate sulphide/limonite weathering.
755456		448835	5511584	Mud Lake Trench F	G	20	Quartz vein breccia with angular fragments of granodiorite. Fragments are chlorite-rich, with 45-50% quartz matrix. 0.1% very finely disseminated Py. Weak sericite alteration occurring as stringers in quartz veining. Weak yellow limonite blebs associated with quartz veining.
755457		448836	5511587	Mud Lake Trench F	G	<5	Quartz vein breccia with fragments of granodiorite, with 0.5% very finely disseminated Py. Moderate sheared with chlorite/sericite along foliation. Weak limonite staining. Small blebs of yellow sericite, almost looks like VG. Minor druzy quartz crystals in voids.
755458		448835	5511587	Mud Lake Trench F	G	55	Quartz vein hosted in granodiorite, with 1-3% carbonate. 0.1-0.5% very finely disseminated Py. Moderate pervasive to patchy chlorite alteration. Faint limonite staining.
755459		448728	5511598	Mud Lake W Trench F	G	8	Highly sheared granite, with 0.5% disseminated Py. Moderate sericite/chlorite along foliation. Weak to moderate potassic alteration associated with feldspars, faint hematite? Patchy limonite/sulphide weathering associated with Py.
755460		448757	5511718	Mud Lake W Trench F	G	45	Quartz vein hosted in slightly porphyritic granodiorite, with 1-2% Cpy/Py (difficult to tell as the sulphides are tarnished). Moderate to strong hematite/limonite staining within the quartz veining. Patches of chlorite.
755461		448824	5511627	Mud Lake Trench F Area	G	6	Quartz vein breccia with angular fragments of granodiorite. Granodiorite is moderately altered - sericite, chlorite, faint hematite. 0.5% disseminated Py, associated with the quartz veining. Weak patchy hematite alteration.
755462		448824	5511627	Mud Lake Trench F Area	G	<5	Quartz vein breccia hosted in granodiorite, with 7-10% carbonate. 1% disseminated Py. 7-10% biotite, 1-2% tremolite/actinolite, trace garnet. Faint hematite/potassic staining. Weak chlorite alteration - stringers and pervasive within the quartz veining. Weak limonitic weathering.
755463		448657	5511505	Mud Lake: E of Clarke	G	11	Highly sheared granodiorite, with abundant sericite and weak hematite/potassic/limonite staining along foliation. 0.1% disseminated Py.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755464		448657	5511505	Mud Lake: E of Clarke	G	90	Quartz vein hosted in sericite-chlorite schist (highly sheared granodiorite), with 7-10% carbonate. 0.5% disseminated Py. Weak limonite staining, stringers (<1 mm).
755465		448638	5511499	Mud Lake: E of Clarke	G	80	Chlorite-sericite schist (highly sheared granodiorite) with boundinaged quartz veins (1-15 mm). 0.5% Py, 0.1% Cpy, disseminated. Faint slickensides, limonite staining along foliation.
755466		449305	5511718	Mud Lake: #6 Area	G	79	Quartz vein with moderate hematite/potassic alteration, with patches of chlorite. 0.5% disseminated Py, 0.5% disseminated Cpy with faint malachite staining. Weak to moderate limonite staining along fractures.
755467		449342	5511715	Mud Lake: #6 Area	G	<5	Quartz vein with moderate to strong patchy hematite/limonite alteration, 7-10% carbonate. 0.5% disseminated Py, 0.5% disseminated Cpy with faint malachite staining. Weak stringers of sericite/chlorite alteration.
755468		449340	5511688	Mud Lake: #6 Area	G	14	Quartz vein hosted in moderate to strongly silicified granodiorite. 7-10% carbonate. 1% Cpy with malachite staining, 0.5% blebby Py. Weak sericite alteration with trace chlorite. Faint limonite staining.
755469		449315	5511650	Mud Lake: #6 Area	G	142	Chlorite schist with 5-15 mm quartz veining/stringers. 1-2% Cpy with malachite staining, 0.5% blebby Py. 1-3% carbonate associated with quartz veining. Very schistose.
755470		449287	5511627	Mud Lake: #6 Area	G	24	Quartz vein hosted in strongly silicified granodiorite. Quartz vein has strong pervasive hematite/limonite staining, with 3-5% Cpy associated with weak to moderate malachite staining. 0.5-1% blebby Py. Patchy sulphide staining/weathering.
755471		449287	5511627	Mud Lake: #6 Area	G	<5	Moderate to strongly sheared granodiorite. Moderate pervasive silicification. 1% disseminated Py, 1-5 mm blebs. Chlorite stringers along foliation.
755472		449215	5511591	Mud Lake: #6 Area	G	<5	Moderate to strongly sheared granodiorite (granite?). Moderate sericite alteration along foliation. 0.5% disseminated Py. Weak to moderate potassic alteration. Faint limonite staining.
755473		449232	5511520	Mud Lake: #6 Area	G	30	Quartz vein hosted in massive granodiorite, with strong hematite/potassic staining. 1-2% disseminated Py, scattered throughout host (not localized to vein). 7-10% carbonate.
755474		449234	5511526	Mud Lake: #6 Area	G	7	Moderately sheared granite with stringers of chlorite defining foliation. 1% Py, very finely disseminated. Moderate pervasive silicification, weak pervasive potassic alteration.
755475		449200	5511518	Mud Lake: #6 Area	G	<5	Quartz vein with strong hematite/potassic alteration, 10-15% carbonate. 1% Cpy, blebby with malachite staining forming rims around sulphides. 0.5% blebby Py. Weak pervasive limonite staining.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755476		449200	5511518	Mud Lake: #6 Area	G	<5	Quartz vein hosted in massive granodiorite. Moderate malachite staining associated with 1% disseminated Cpy, associated with quartz vein. 5-7% carbonate with quartz vein. Weak pervasive sericite alteration - colouring feldspar. Trace biotite associated with quartz vein. Limonite/sulphide weathering.
755477		449146	5511371	Mud Lake: #6 Area	G	<5	Moderately to highly sheared granodiorite. 0.1-0.5% disseminated Py. Weak to moderate hematite/limonite staining along foliation, also pervasive. Weak pervasive sericite alteration. Sulphide staining along weathered surfaces.
755478		449228	5511426	Mud Lake: #6 Area	G	<5	moderately sheared feldspar porphyry. 1% Py, disseminated along foliation. Weak to moderate limonite/hematite alteration along foliation. Weak to moderate pervasive sericite alteration. Weak potassic alteration, dominantly occurring in cores of 1-3 cm feldspar phenocrysts.
755479		449347	5511702	Mud Lake: #6 Area	G	46	2-3 cm irregular quartz vein hosted in granite-granodiorite. 2% Cpy associated with veining, as well as disseminated throughout host rock. 0.5% disseminated to blebby Py. Faint malachite associated with Cpy. Patchy limonite weathering associated with sulphides. Weak pervasive sericite alteration.
755480		449358	5511705	Mud Lake: #6 Area	G	17	Chlorite schist, strongly sheared. 0.5% disseminated Py, 0.1% Cpy, associated with faint malachite. Small (1-2 mm) quartz vein in one rock sample. Weak sericite-chlorite alteration. Weak patchy limonite/sulphide weathering.
755481		449380	5511714	Mud Lake: #6 Area	G	39	Highly silicified granodiorite (?), moderately sheared. Very strong pervasive silicification, almost completely overprinted host rock. Moderate sericite/chlorite stringers along foliation. 2-3% Cpy with weak malachite staining. 3-5% Py, blebby, with moderate sulphide weathering. Strong patchy hematite/limonite/sulphide weathering (light to dark red with yellow patches). * good looking sample *
755482		449367	5511775	Mud Lake: #6 Area	G	<5	Fine grained granodiorite. Slightly sheared with a 2 cm wide band of strong shearing going through one rock sample. 0.5% disseminated Py, 0.1% (trace) arsenopyrite, 1 cm large bleb. Weak to moderate patchy to pervasive limonite/sulphide weathering. Weak hematite/potassic alteration.
755483		449367	5511775	Mud Lake: #6 Area	G	<5	Slightly porphyritic granodiorite. 0.1-0.5% disseminated Py. Faint potassic alteration, localized in feldspars. Weak patchy rusty limonite/hematite/sulphide weathering. Faint chlorite/sericite pervasive alteration.

Expansion Lake and Mud Lake Prospecting Grab Samples

Sample Number	Field Number	Easting	Northing	Location	Sample Type	Au (ppb)	Sample Description
755484		449381	5511782	Mud Lake: #6 Area	G	35	Weakly sheared granodiorite. 0.5-1% Py with patches of rusty limonite/sulphide weathering rims. Faint chlorite alteration colouring the feldspars within the granodiorite.
755485		449408	5511777	Mud Lake: #6 & #7 Area	G	<5	Moderately sheared granodiorite, with moderate to strong pervasive silicification. 0.5% Py, disseminated to blebby. Moderate sericite alteration. Weak to moderate chlorite alteration. Weak limonite staining along weathered surfaces.
755486		448314	5511269	Mud Lake: West Clarke	G	9	White quartz vein with 7-10% carbonate, chlorite along contacts. Limonite/sulphide staining-patches. Faint malachite staining. 0.5% Py, 0.1% Cpy, disseminated.
755487		448323	5511182	Mud Lake: West Clarke	G	47	Moderately sheared granodiorite, with moderate sericite alteration. Patchy limonite/hematite alteration. Minor quartz veining, with 0.5% Py, disseminated blebs. Weak chlorite.
755488		448301	5511166	Big Float Piece, Rough	G	<5	Quartz vein with ~5% carbonate. Patches of potassic alteration (moderate; 5-7%). Moderate patches of red hematite (+potassic) alteration. 0.5% Py blebs associated with hematite/potassic alteration. Weak sericite stringers. Weak chlorite patches.
755489		448261	5511148	Mud Lake: West Clarke	G	<5	Highly sheared granodiorite. Trace Py. Sericite along foliation. Limonite stringers (< 1 mm) along moderate foliation. Trace hematite?
755490		448141	5510986	Mud Lake: West Clarke	G	<5	Quartz vein with 10-15% carbonate. Chlorite stringers. Trace tourmaline. Faint malachite staining. Siderite along edges of vein.
755491		455810	5512045	Koski Trenches	G	95	Quartz vein with 1% disseminated Cpy and 0.5% Py, with sulphide weathering rims hosted in sheared fragmental rhyolite. Faint hematite/potassic staining, with faint malachite. Sulphides are located within the vein, with 10-15% carbonate.
755492		455848	5511969	Koski Trenches	G	<5	Sheared rhyolite, with 5-7% sulphide, mostly Py with trace Cpy. Moderate silicification, with weak to moderate chlorite and patchy sericite alteration.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755018	Can-Am Trench	C: 0.5 m	195	Sheared mafic to intermediate volcanic, with no apparent sulphides. Possible intermediate tuff? Dark to medium greenish grey colour, weak to moderate pervasive silicification. Isolated quartz vein, clear to white in colour.
755019	Can-Am Trench	C: 0.5 m	<5	Quartz vein hosted in chlorite schist, near a contact with a mafic volcanic. Moderate limonite/carbonate alteration.
755020	Can-Am Trench	C: 1 m	<5	Very friable sericite-chlorite schist, with 0.1% disseminated Py. Moderate bands of silicification, limonite staining.
755021	Can-Am Trench	C: 1 m	29	Highly friable chlorite schist, with bands of silicification, carbonate staining and limonite alteration.
755022	Can-Am Trench	C: 1 m	<5	Highly friable chlorite schist, with bands of strong sericite and strong silica alteration. Mylonitic. Quartz augen eyes.
755023	Can-Am Trench	C: 1 m	<5	Highly friable chlorite schist (highly sheared felsic volcanic) with minor 1-2 mm quartz-carbonate veining. Limonite staining.
755024	Can-Am Trench	C: 1 m	49	Highly friable sericite schist (intermediate fragmental), with bands of moderate to strong silicification, and bands of moderate sericite. Sericite alteration of fragments.
755025	Can-Am Trench	C: 0.5 m	<5	Quartz vein hosted in chlorite schist. Quartz is white to moderately translucent. Strongly foliated sericite alteration, with patches of limonite and carbonate.
755026	Can-Am Trench	C: 0.5 m	<5	Sheared intermediate volcanic fragmental, slightly mylonitic. Fragments are elongated parallel to foliation. Bands of strong silicification, chlorite alteration. Limonite staining. Augen quartz eyes, with minor quartz veins cross-cutting foliation. No visible sulphides.
755027	Can-Am Trench	C: 1 m	12	Highly friable, mylonitic chlorite-sericite schist with moderate to strong limonitic alteration. No visible sulphides.
755028	Can-Am Trench	C: 0.5 m	<5	Friable sericite schist, with bands of chlorite alteration and silicification. Isolated quartz veins, cross-cutting foliation. Limonite staining. No apparent sulphides.
755029	Can-Am Trench	C: 1 m	<5	Sericite-chlorite schist (highly sheared tuff breccia), very fine grained with minor carbonate-rich quartz veining, weak to moderate silicification. Weak limonite staining. No visible sulphides.
755030	Can-Am Trench	C: 0.5 m	<5	Chlorite schist with micro quartz veining, minor carbonate. Highly friable, with limonite staining within the veining.
755031	Can-Am Trench	C: 1 m	<5	Very friable sericite schist, with micro (1-2 mm) quartz veining. Some veins occur along foliation, some cross-cut foliation. Moderate chlorite alteration, limonite staining.
755032	Can-Am Trench	C: 1 m	<5	Sericite-chlorite schist, highly sheared. Strong pervasive silicification, limonite alteration. Small 1-2 mm quartz veins cross-cutting foliation.
755033	Can-Am Trench	C: 1 m	<5	Highly sheared, chlorite-rich fragmental intermediate volcanic, with bands of hematite staining. Bands of strong pervasive silicification. No visible sulphides.
755034	Can-Am Trench	C: 1 m	<5	Highly silicified sericite schist, with bands of chlorite/hematite/sericite alteration. Minor quartz veining (1-2 mm) with weak to moderate limonite staining.
755035	Can-Am Trench	C: 1 m	<5	Moderately silicified chlorite schist (highly sheared felsic volcanic) with 1-3 mm quartz veins, minor cross-cutting foliation. Moderate sericite alteration. Hematite specs along cleavage planes

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755036	Can-Am Trench	C: 1 m	<5	Moderately silicified chlorite schist (highly sheared felsic volcanic) with 1-3 mm quartz veins, minor cross-cutting foliation. Moderate sericite alteration. Hematite specs along cleavage planes
755037	Can-Am Trench	C: 1 m	<5	Sericite-chlorite schist (highly sheared tuff breccia), very fine grained with minor quartz veining, weak to moderate silicification. Weak limonite staining. No visible sulphides.
755038	Can-Am Trench	C: 0.5 m	<5	Small quartz veins in sericite schist. Quartz veins range 1-10 mm, aligned along foliation. Strong limonitic alteration, with bands of moderate chlorite alteration.
755039	Boundary Trench	C: 0.5 m	<5	Moderate hematized fragmental sericite schist, with bands of chlorite alteration, with moderate silicification. Fine quartz veining (<1 mm) with limonite staining.
755040	Boundary Trench	C: 0.5 m	<5	Sericite fragmental schist. Bands of moderate to strong silicification, chlorite alteration and hematite staining. Larger fragments are also hematized.
755041	Boundary Trench	C: 1 m	<5	Sheared fragmental, mylonitic. Pinkish purple in colour, banded with limonite staining. Moderate pervasive silicification, minor quartz augen eyes. No visible sulphides.
755042	Boundary Trench	C: 1 m	6	Sheared fragmental, mylonitic. Pinkish purple in colour, banded with limonite staining. Moderate pervasive silicification, minor quartz augen eyes. No visible sulphides.
755043	Boundary Trench	C: 1 m	<5	Sericite/hematite schist, with minor boudinaged quartz veining, along and cross-cutting foliation. Strong pervasive sericite alteration, moderate pervasive silicification. Pinkish/purple colouration, with limonite staining. No visible sulphides.
755044	Boundary Trench	C: 1 m	<5	Sheared fragmental, mylonitic. Pinkish purple in colour, banded with limonite staining. Moderate pervasive silicification, minor quartz augen eyes. No visible sulphides.
755045	Boundary Trench	C: 1 m	<5	Sheared chloritic fragmental schist, with bands of strong chlorite. Fragments are elongated parallel to foliation. Purplish in colour with yellow sericite/limonite alteration/banding. No visible sulphides.
755046	Boundary Trench	C: 1 m	<5	Sericite schist with quartz veining, 0.1% disseminated Py. Weak pervasive chlorite alteration, limonite staining.
755047	Boundary Trench	C: 1 m	<5	Sheared fragmental (intermediate?). Moderate to strong hematite/limonite/chlorite alteration/staining. Rock has an overall pink/purple with yellow streaks appearance. Minor quartz veining (<1 mm) aligned along foliation. 0.1-0.5% disseminated Py.
755048	Boundary Trench	G	<5	Quartz vein hosted in highly friable sericite schist with limonite staining. Weak pink hematite/potassic alteration.
755049	Boundary Trench	C: 1 m	<5	Highly sheared felsic lapillituff (volcanic). Fragments elongated parallel to foliation. Moderate to strong pervasive chlorite alteration, weak pervasive sericite alteration. Reddish/purple alteration - weak pervasive hematite? Very fine 1-3 mm quartz-carbonate veining. No visible sulphides.
755050	Boundary Trench	C: 1 m	<5	Highly sheared intermediate fragmental, almost mylonitic. Bands of moderate to strong silicification, bands of moderate sericite as well as pervasive sericite alteration of fragments.
755065	Golden Eagle West	C: 0.5 m	<5	Sheared fragmental felsic volcanic (tuff breccia). Fragments have epidote altered feldspar phenocrysts. Trace pyrite.
755066	Golden Eagle West	C: 0.5 m	<5	Sheared fragmental felsic volcanic (tuff breccia). Fragments have epidote altered feldspar phenocrysts. 2-3% bands of pyrite, 1-2 mm, parallel to foliation.
755067	Golden Eagle West	C: 1 m	<5	Chlorite schist, possible felsic volcanic (tuff), highly sheared, friable. Trace pyrite, weak to moderate pervasive silicification.

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Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755068	Golden Eagle West	C: 0.5 m	<5	Highly sheared chlorite schist. 1-2% disseminated pyrite along foliation. Highly friable sample.
755069	Golden Eagle West	C: 0.5 m	<5	Highly sheared chlorite schist. 1-2% fine bands of pyrite, $\leq 1$ mm, parallel to foliation. Highly friable, 2-3 cm layer of strong limonite/hematite weathering.
755070	Golden Eagle West	C: 0.5 m	7	Highly sheared chlorite schist. 5-7% fine bands of pyrite, 1-2 mm, parallel to foliation. Highly friable. Limonite staining. Possibly a fine grained mafic volcanic or felsic tuff.
755071	Golden Eagle West	C: 0.5 m	<5	Sheared chloritized mafic volcanic (chlorite schist), possibly a felsic tuff. Fine banded pyrite, 1-2 mm. Sulphide staining throughout. Limonite staining. Highly friable.
755072	Golden Eagle West	C: 0.5 m	<5	Highly sheared chloritic fragmental felsic volcanic with 50-60% quartz veining, with tourmaline, sericite, 40% carbonate and trace fuchsite. Trace pyrite.
755073	Golden Eagle West	C: 0.5 m	<5	Sheared chloritic fragmental felsic volcanic with 20% quartz veining. Tourmaline, sericite, carbonate. No visible sulphides
755074	Golden Eagle West	C: 0.5 m	<5	Highly sheared chloritized fragmental felsic volcanic with quartz veining (10-20%). Quartz veins contain tourmaline, carbonate, sericite. Fragments are large (1-5 cm), elongated parallel to foliation. Limonite staining. Trace pyrite.
755075	Golden Eagle West	C: 0.5 m	<5	Highly sheared chloritized fragmental felsic volcanic with quartz veins. 0.5-1% disseminated pyrite associated with quartz veining. Veining cross-cuts foliation, with strong sericite/carbonate alteration. Trace fuchsite.
755076	Golden Eagle West	C: 0.5 m	<5	Sheared chlorite fragmental felsic volcanic with quartz veining (40-50%). Trace fuchsite/epidote? Trace tourmaline, sericite alteration, abundant carbonate. Limonite staining.
755077	Golden Eagle West	C: 0.5 m	<5	Sheared chlorite fragmental felsic volcanic with minor quartz veining. No apparent sulphides. Quartz vein contains moderate sericite alteration, cross-cutting foliation.
755078	Golden Eagle West	C: 0.5 m	<5	Sheared chloritized fragmental felsic volcanic with quartz veining. Quartz veins contain tourmaline, sericite stringers, chlorite patches. Limonite staining. Fragments are elongated parallel to foliation. Quartz veins cross-cut the foliation. Trace pyrite.
755079	Golden Eagle West	C: 0.5 m	34	Sheared chloritized mafic volcanic with quartz veining. Quartz veins are fine, 1-10 mm, with tourmaline, chlorite and sericite. Mafic volcanic is fine grained. Strong pervasive chlorite alteration. Trace pyrite.
755080	Golden Eagle West	C: 0.5 m	<5	Highly sheared chloritized fragmental felsic volcanic. Highly friable. Quartz veins with tourmaline and chlorite. Bands/stringers of strong sericite alteration, yellow wisps. Trace pyrite.
755081	Golden Eagle West	C: 0.5 m	7	Quartz vein hosted in fragmental felsic volcanic. Quartz is white to slightly clear, with patches of tourmaline, chlorite, sericite and limonite. Trace pyrite.
755082	Golden Eagle West	C: 0.5 m	6	Sheared chloritized felsic volcanic (lapillituff) with fragments. Sections of strong buff coloured silicification. Minor veining, quartz veins up to 1 cm, cross-cutting foliation. Some limonite staining.
755083	Mud Lake: Beaver Pond	C: 0.5 m	22	Weakly sheared to massive granodiorite, with 0.1% disseminated Py. Weak to moderate pervasive silicification, with <5% quartz veining. 5-15 mm chlorite rims around veining.
755084	Mud Lake: Beaver Pond	C: 0.5 m	66	Massive, medium to coarse grained granodiorite with 0.1% disseminated Py.
755085	Mud Lake: Beaver Pond	C: 0.5 m	14	Massive, medium to coarse grained granodiorite with 3mm white quartz veining, no visible sulphides.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755086	Mud Lake: Beaver Pond	C: 0.5 m	11	Chlorite-rich granodiorite, medium grained, massive to slightly sheared. ~1 cm quartz vein, with 10% carbonate, weak chlorite, limonite, 0.1% disseminated Py.
755087	Mud Lake: Beaver Pond	C: 0.5 m	8	Coarse grained, massive granodiorite with 0.1% disseminated Py.
755088	Mud Lake: Beaver Pond	C: 0.5 m	34	Slightly sheared chlorite-rich diorite (possible altered granodiorite?) with 1-2 cm quartz veining, 0.1% disseminated Py.
755089	Mud Lake: Beaver Pond	C: 0.5 m	190	Moderately sheared granodiorite with minor quartz breccia, 1-2% disseminated Py, with fine bands (<1 mm). Quartz veining with minor chlorite, trace tourmaline. Faint limonite staining.
755090	Mud Lake: Beaver Pond	C: 0.5 m	217	Quartz veining in sheared, chlorite-rich granodiorite, with 0.1% disseminated Py. Medium grained. Quartz veins running ~2-5 mm, 10% carbonate. Faint limonite alteration.
755091	Mud Lake: Beaver Pond	C: 0.5 m	35	Medium to coarse grained, massive to foliated granodiorite, with sections of strong chlorite alteration. 0.1% disseminated Py, with faint hematite/limonite staining.
755092	Mud Lake: Beaver Pond	C: 0.5 m	174	Quartz vein hosted in foliated granodiorite, ranging 5-50 mm, with 1-2% disseminated Py associated with veining and along contacts. Weak chlorite alteration, pervasive to stringers in quartz. Moderate sericite alteration.
755093	Mud Lake: Beaver Pond	C: 0.5 m	6	Foliated diorite with quartz veining (fracture controlled, 5-15 mm), with 2-3% disseminated Py. Strong pervasive chlorite alteration, moderate to strong patchy silica, 1-2 mm patches of sericite alteration.
755094	Mud Lake: Beaver Pond	C: 0.5 m	471	2 cm quartz veining hosted in foliated diorite, with 1-2% disseminated Py. Strong pervasive chlorite alteration. Medium grained.
755095	Mud Lake: Beaver Pond	C: 0.5 m	17	Medium to coarse grained, massive to foliated granodiorite/diorite, with moderate pervasive chlorite alteration. Fracture filling quartz veins, <5 mm with 20% carbonate, with weak patches of pink potassic alteration, 1-5 mm. 0.1% disseminated Py.
755096	Mud Lake: Beaver Pond	C: 1 m	12	Medium to coarse grained, massive to foliated granodiorite/diorite, with moderate pervasive chlorite alteration. Fracture filling quartz veins, <5 mm with 20% carbonate. Weak limonite staining, no visible sulphides.
755097	Mud Lake: Beaver Pond	C: 1 m	11	2 cm quartz vein in foliated granodiorite, chlorite-rich, medium grained, appearing more dioritic in composition. Minor quartz fracture filling, with 0.1% disseminated Py.
755098	Mud Lake: Beaver Pond	C: 1 m	49	Foliated chlorite-rich granodiorite, with quartz filled fractures, <1 mm, medium grained with 0.1% disseminated Py.
755099	Mud Lake: Beaver Pond	C: 0.5 m	1356	Large quartz vein (>10 cm) hosted in foliated granodiorite, with 3-5% disseminated Py hosted within the vein. 30% carbonate within the vein. Faint hematite/limonite/sulphide weathering.
755100	Mud Lake: Beaver Pond	C: 0.5 m	349	Large quartz vein (>15 cm) hosted in foliated granodiorite, with 0.1% disseminated Py. Moderate chlorite stringers, with weak limonite staining, hematite staining/stringers (mm-sized).
755101	Mud Lake: Beaver Pond	C: 0.5 m	414	30-40% quartz veining (veining with silicification) hosted in chlorite-rich granodiorite, with 0.1% disseminated Py.
755102	Mud Lake: Beaver Pond	C: 1m	28	3 cm quartz vein hosted in highly foliated granodiorite, medium grained. 0.1% disseminated Py along contacts of quartz vein. Strong pervasive chlorite alteration. Other quartz veining, fracture controlled, <2 mm.
755103	Mud Lake: Beaver Pond	C: 0.5 m	7	Medium to coarse grained, massive to very slightly foliated granodiorite, with 0.1% disseminated Py. Weak sericite/epidote alteration of feldspars.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755104	Mud Lake: Beaver Pond	C: 0.5 m	<5	Medium grained, foliated granodiorite with strong silicification turning into quartz veining. 0.1% disseminated Py, moderate pervasive chlorite alteration, with weak patchy epidote alteration.
755105	Mud Lake: Beaver Pond	C: 0.5 m	<5	Medium grained, massive to slightly foliated granodiorite, with 0.1% disseminated Py associated with clots of chlorite. Patches of strong silicification, with weak pervasive chlorite alteration.
755106	Mud Lake: Beaver Pond	C: 0.5 m	6	Medium to coarse grained, massive to slightly foliated granodiorite, with 0.1% disseminated Py. Moderate pervasive chlorite alteration, with minor chlorite-rich fractures cross-cutting foliation. Minor patches of moderate silicification.
755107	Mud Lake: Beaver Pond	C: 0.5 m	10	Massive to slightly foliated granodiorite, medium grained, with weak to moderate pervasive chlorite alteration. Trace (faint) sulphide/hematite staining/weathering.
755108	Mud Lake: Beaver Pond	C: 0.5 m	1056	10-15 cm quartz vein with 1-2% blebby Py, up to 5 mm in size, hosted in foliated granodiorite. 10% carbonate present in the veining, with faint hematite/limonite staining.
755109	Mud Lake: Beaver Pond	C: 0.5 m	17	5 cm clear quartz vein with 20% carbonate and stringers of chlorite hosted in granodiorite. 0.1% disseminated Py. Granodiorite is massive to slightly foliated around the vein contacts.
755110	Mud Lake: Offset	C: 0.5 m	570	5-10 cm quartz vein hosted in highly foliated diorite, with 1-2% fine bands of Py (<1 mm). Strong pervasive chlorite alteration, patches of moderate to strong silicification. Minor vugs in the quartz veining.
755111	Mud Lake: Offset	C: 0.5 m	282	Quartz vein hosted in highly sheared diorite (>5 cm), with 1-2% fine bands of Py (<1 mm). Strong pervasive chlorite alteration.
755112	Mud Lake: Offset	C: 0.5 m	47	>15 cm quartz vein hosted in highly foliated diorite, with weak to moderate pervasive silicification. Weak hematite/limonite staining. No visible sulphides.
755113	Mud Lake: Offset	C: 0.5 m	10	2.5 cm quartz vein with 3-4 cm pink aplite vein, with 0.5-1% disseminated Py. Strong pervasive silicification.
755114	Mud Lake: Offset	C: 0.25 m	3427	2.5 cm quartz vein in highly sheared granodiorite, with strong limonite staining, and strong pervasive to stringers of chlorite.
755115	Mud Lake: Offset	C: 0.25 m	1847	2.5 cm quartz vein in highly sheared granodiorite, with strong limonite staining, and strong pervasive to stringers of chlorite.
755116	Mud Lake: Offset	C: 0.5 m	54	Strongly sheared granodiorite, with strong pervasive chlorite+silica alteration. 0.1% disseminated Py. Fracture controlled quartz veining (1-2 mm) with trace hematite staining/weathering.
755117	Mud Lake: Offset	C: 0.5 m	2745	>20 cm quartz vein with 30-40% carbonate, 1-2% disseminated Py with vrey fine chlorite stringers (<1 mm). Sericite stringers, trace hematite alteration/stringers
755118	Mud Lake: Offset	C: 0.25 m	54	Highly sheared, strongly chloritized diorite with < 1mm patches of light yellow sericite alteration. 0.1% disseminated Py. Faint hematite/sulphide weathering
755119	Mud Lake: Offset	C: 0.5 m	280	Quartz veining with 30% carbonate, and 1-2% disseminated Py. Weak to moderate sericite, chlorite and limonite alteration.
755120	Mud Lake: Offset	C: 0.25 m	2833	Quartz vein with 50% carbonate and 1-2% disseminated Py. Very weak sericite and limonite alteration, chlorite stringers. Isolated bright pink potassic patches, 1-2 mm
755121	Mud Lake: Offset	C: 0.5 m	4293	Quartz vein with 3-4% blebs of Py, up to 1 cm in size, hosted in highly silicified granodiorite. 40-50% carbonate associated with veining. Weak chlorite/epidote alteration.
755122	Mud Lake: South	C: 0.5 m	1858	>15 cm quartz vein with 2-3% Py, occurring as fine bands 1-3 mm. 40% carbonate within veining. Weak to moderate chlorite, sericite and limonite alteration with stringers of weak hematite staining.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755123	Mud Lake: South	C: 0.25 m	1556	Quartz vein with 40% carbonate, 1-2% disseminated Py. Weak to moderate sericite, chlorite and limonite alteration, weak hematite/sulphide weathering, as mm-sized stringers.
755124	Mud Lake: South	C: 0.25 m	877	~10 cm quartz vein hosted in highly foliated granodiorite, with 2-3% blebby Py, 1-3 mm. 40% carbonate within the veining, faint hematite/limonite staining.
755125	Mud Lake: South	C: 0.25 m	3155	3 cm quartz vein in highly foliated granodiorite, with 2-3% disseminated Py within the veining. 10% carbonate also present within veining. Weak to moderate limonite staining, very weak hematite/sulphide weathering.
755126	Mud Lake: South	C: 1m	117	1-2 cm quartz vein hosted in highly sheared granodiorite. 1-2 cm bands of chlorite, strong pervasive chlorite alteration.
755127	Mud Lake: South	C: 1m	571	Quartz vein. Two types of vein material; 40% carbonate with 1-2% pyrite, chlorite stringers with sericite and limonite. Second type of material is <10% carbonate with 2-3 cm patches of chlorite (mafic material?)
755128	Mud Lake: South	C: 0.5 m	34	Slightly foliated granodiorite with fracture controlled quartz veining (5-15 mm), <10% carbonate. Trace bright pink albite alteration within the quartz veining, patches ranging 1-3 mm. Trace pyrite.
755129	Mud Lake: South	C: 0.25 m	40	3-4 cm quartz vein hosted in massive to slightly foliated granodiorite with weak to moderate pervasive chlorite alteration. 0.1% disseminated Cpy hosted in the QV, 0.1% disseminated Py. <10% carbonate contained within the quartz vein.
755130	Mud Lake: South	C: 0.25 m	10	5 cm fracture controlled quartz vein hosted in moderately foliated granodiorite, with strong pervasive chlorite alteration. 2-3 cm patches of chlorite-rich material within veining. No visible sulphides.
755131	Mud Lake: South	C: 0.5 m	322	Multiple 5-10 mm quartz veins cross-cutting a foliated granodiorite, with 1-2% Py disseminated throughout rock. Veining is <10% carbonate, and fracture controlled. Strong pervasive chlorite alteration, moderate silicification.
755132	Mud Lake: South	C: 0.25 m	13	Chlorite-rich granodiorite, medium grained, massive. Minor (<5%) quartz veining. Weak shearing, defined by chlorite.
755133	Mud Lake: Main Extension	C: 0.5 m	59	Moderately sheared granodiorite with quartz veining. Strong carbonate alteration occurring as fine bands/layers parallel to foliation. 0.1% disseminated Py associated with a small 5 mm quartz-chlorite vein.
755134	Mud Lake: Main Extension	C: 0.5 m	458	Sheared granodiorite with 20-30% quartz veining. 1-2% very fine (<1 mm) bands of Py. Quartz is white with 40-50% carbonate. Faint limonite staining, weak chlorite along foliation, cleavage planes.
755135	Mud Lake: Main Extension	C: 0.25 m	34	Quartz veining in sheared granodiorite, with 0.1-0.5% disseminated Py. Minor chlorite cleavage, with strong epidote alteration, minor sericite, limonite.
755136	Mud Lake: Main Extension	C: 0.25 m	650	Quartz vein hosted in granodiorite, with 1-2% disseminated Py hosted within the granodiorite. Microfolding within the sample. Weak hematite/limonite staining. Weak chlorite alteration, with very faint epidote alteration, weak sericite.
755137	Mud Lake: Main Extension	C: 0.25 m	315	Quartz veining with 20% carbonate, 0.5-1% disseminated Py. Minor chlorite stringers, with faint albite alteration, faint limonite alteration.

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Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755138	Mud Lake: Main Extension	C: 0.25 m	288	Quartz vein with 40% carbonate, 0.1% disseminated Py. Weak chlorite stringers, with faint limonite staining.
755139	Mud Lake: Main Extension	C: 0.25 m	1517	Quartz veining with 20-30% carbonate. 1-2% fine bands (<1 mm) of Py. Weak chlorite-biotite alteration, with trace fuchsite
755140	Mud Lake: Main Extension	C	333	Quartz vein hosted in chlorite-rich granodiorite, with 1-2% fine bands of Py. 40% veining, quartz is white to clear, with <10% carbonate. Weak sericite, chlorite and limonite alteration.
755141	Mud Lake: Main Extension	C: 0.5 m	1184	Weakly sheared diorite, with 1-2% fine bands and disseminated Py, with 20% quartz veining. Moderate pervasive chlorite alteration.
755142	Mud Lake: Main Extension	C: 0.25 m	162	Quartz veining with chlorite, sericite and trace fuchsite. 30% carbonate, faint limonite staining. 0.1% disseminated Py.
755143	Mud Lake: Main Extension	C: 0.5 m	221	2-3 cm fracture controlled quartz vein hosted in moderately sheared granodiorite, with 30% carbonate, trace pyrite. Weak to moderate chlorite-sericite alteration.
755144	Mud Lake: Main Extension	C: 0.25 m	33	1-15 mm fracture controlled quartz veining hosted in slightly foliated granodiorite, with trace pyrite. Strong pervasive chlorite-sericite alteration, faint hematite staining.
755145	Mud Lake: Main Extension	C: 0.5 m	51	1-2 cm fracture controlled quartz vein hosted in medium to coarse grained massive granodiorite, with trace pyrite. Moderate pervasive silicification.
755146	Mud Lake: Main Extension	C: 0.5 m	12	Medium to coarse grained massive granodiorite, with trace pyrite. Chlorite/epidote alteration of feldspar.
755147	Mud Lake: South	C: 0.25 m	8	1-2 cm quartz vein hosted in medium to coarse grained massive granodiorite, with 1-2% disseminated pyrite, up to 1 cm euhedral cubes. Strong hematite staining, strong chlorite stringers, moderate pervasive silicification. Quartz veining is fracture controlled.
755148	Mud Lake: South	C: 0.5 m	<5	Medium to coarse grained granodiorite, with trace pyrite. Moderate pervasive silicification and chlorite alteration.
755149	Mud Lake: South	C: 0.25 m	7	3-4 cm quartz vein hosted in granodiorite, with moderate pervasive hematite staining. 1-2% disseminated pyrite
755150	Mud Lake: South	C: 0.5 m	7	1-2 cm quartz veins hosted in massive to slightly foliated granodiorite. Moderate to strong pervasive hematite alteration. 1-2% disseminated pyrite. Chlorite stringers, 1-3 cm patches of chlorite (mafic material?)
755165	Mud Lake: South	C: 0.5 m	<5	Quartz breccia-veining hosted in medium grained massive granodiorite, with 0.5-1% pyrite. Strong patches of silicification, moderate chlorite-sericite alteration, weak epidote/hematite/albite staining.

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Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755166	Mud Lake: South	C: 0.5 m	<5	Quartz breccia with 30% carbonate, trace pyrite. Weak epidote/limonite/hematite staining.
755167	Mud Lake: South	C: 0.5 m	262	Moderately foliated granodiorite with 5-7 mm band of pyrite, fracture controlled, slightly cross-cutting to foliation. Minor hematite staining.
755168	Mud Lake: South	C: 0.5 m	45	Strongly sheared granodiorite, almost mylonitic, to massive, medium to coarse grained. Stringers of quartz veining.
755201	W of Trench #6	C: 0.5 m	<5	Quartz vein hosted in granodiorite. White to clear vein, with clots of chlorite, sericite stringers and trace tourmaline. Granodiorite is massive and medium grained.
755202	W of Trench #6	C: 0.5 m	<5	Granodiorite with minor mafic intrusive, not very magnetic. 1-2% disseminated Py, associated with both rock types. Granodiorite is massive, chlorite-altered, almost dioritic in appearance.
755203	W of Trench #6	C: 0.5 m	28	Mafic intrusive hosted in granodiorite. Intrusive is massive, fine to medium grained with an increase in phenocrysts (30%); 3-5% magnetite. Granodiorite is massive with fine quartz veining, 1-2% disseminated Py.
755204	W of Trench #6	C: 0.5 m	1106	Mafic intrusive hosted in granodiorite, fine grained, massive. 3 cm vein of massive Py. Strongly magnetic, with 3-5% 1-3 mm clots of magnetite.
755205	W of Trench #6	C: 0.5 m	104	Mafic intrusive, massive with slightly layering of feldspar phenocrysts (25%; 1-<1 mm). 7-10% Py, 5-10 mm blebs. Weakly magnetic.
755206	W of Trench #6	C: 0.5 m	73	Mafic intrusive hosted in granodiorite, with 3-5% stringers of Py. Intrusive is chlorite-rich with 25% 1-<1 mm feldspar phenocrysts. Sulphides present within both intrusive and granodiorite. Very slightly magnetic.
755207	W of Trench #6	C: 0.5 m	<5	Quartz vein hosted in medium grained, massive granodiorite. Vein is white to clear, with 10-20% carbonate, stringers of sericite, hematite and chlorite, with trace tourmaline. Weak pervasive pinkish potassic alteration within the granodiorite.
755208	W of Trench #6	C: 0.5 m	<5	Quartz vein hosted in medium grained, massive granodiorite. Vein is white to clear, with 10-20% carbonate, stringers of sericite, hematite and chlorite, with trace tourmaline. Weak pervasive pinkish potassic alteration within the granodiorite.
755209	W of Trench #6	C: 0.5 m	<5	Quartz vein with "stringers" of granite, massive, white with 10-20% carbonate. Clots of chlorite, trace tourmaline, faint hematite staining. Sericite alteration - stringers associate with granite and chlorite.
755210	W of Trench #6	C: 0.5 m	<5	Quartz veining with clots of chlorite, hematite staining. Massive, white with <10% carbonate.
755493	Mud Lake: GM Trench	C: 0.5 m	9	Weakly sheared medium to coarse grained granodiorite, with 1% disseminated Py. Strong pervasive/patchy silica+bleaching, moderate to strong pervasive/patchy potassic/hematite alteration.
755494	Mud Lake: GM Trench	C: 0.5 m	<5	Weakly sheared medium to coarse grained granodiorite with 1-4 cm quartz veining, with 0.5% disseminated Py. Strong pervasive/patchy silica+bleaching, moderate to strong pervasive/patchy potassic/hematite alteration.
755495	Mud Lake: GM Trench	C: 1.0 m	<5	Weakly sheared medium to coarse grained granodiorite, with 1% disseminated Py. Strong pervasive/patchy silica+bleaching, moderate to strong pervasive/patchy potassic/hematite alteration.
755496	Mud Lake: GM Trench	C: 1.0 m	<5	Weak to moderately sheared, medium to coarse grained granodiorite, with 1-5 mm quartz veining. 0.5-1% disseminated Py. Weak to moderate pervasive potassic/hematite alteration. Weak pervasive chlorite, with weak patchy sericite+bleaching.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
755497	Mud Lake: GM Trench	C: 1.0 m	15	Quartz vein breccia with angular fragments of granodiorite, with 10-15% carbonate. 1% disseminated Py associated with the quartz veining. Weak to moderate pervasive silica, weak hematite stringers associated with quartz, moderate patches of chlorite.
755498	Mud Lake: GM Trench	C: 1.0 m	27	Quartz vein breccia with angular fragments of granodiorite, with 10-15% carbonate. 1% disseminated Py associated with the quartz veining. Weak to moderate pervasive silica+sericite+bleaching. Weak hematite stringers associated with quartz, weak patchy potassic alteration associated with quartz, moderate patches of chlorite.
755499	Mud Lake: GM Trench	C: 1.0 m	<5	Weakly sheared granodiorite with quartz veining, 10-15% carbonate. 1% very finely disseminated Py. Weak stringers of hematite and weak patches of sericite associated with the veining. Faint potassic alteration localized to the veining.
755500	Mud Lake: GM Trench	C: 1.0 m	13	
661500	Mud Lake: Trench F	C: 1.0 m	13	Quartz veining in moderately sheared granodiorite, with 2% finely disseminated Py, with 0.1% Cpy. Strong pervasive to veins of silica, moderate to strong potassic/hematite alteration localized to quartz veins and pervasive throughout host rock. Weak to moderate chlorite along foliation. Weak blebs of light yellow sericite.
661501	Mud Lake: Trench F	C: 1.0 m	8	Quartz veining in moderately sheared granodiorite, with 1% very finely disseminated Py. Strong pervasive to veins of silica, moderate to strong potassic/hematite alteration localized to quartz veins and pervasive throughout host rock. Weak to moderate chlorite along foliation. Weak blebs of light yellow sericite.
661502	Mud Lake: Trench F	C: 1.0 m	10	Moderately sheared granodiorite with 10-15% quartz veining. 20-25% carbonate within the quartz veining with very weak hematite/potassic alteration. 1% very finely disseminated to >1 mm blebs of Py, minor localized along quartz vein, 0.1% Cpy? Moderate chlorite alteration along foliation. 1-2% <1 mm blebs of light yellow sericite.
661503	Mud Lake: Trench F	C: 1.0 m	6	Moderately sheared granodiorite, medium to coarse grained, with 20-25% 5-25 mm quartz veining. 5-7% carbonate in the quartz veining, with 0.1% very finely disseminated Py. Moderate patches/stringers of chlorite along foliation. Weak patches of potassic alteration localized to feldspar phenocrysts, weak limonite staining, with localized weak patches of hematite.
661504	Mud Lake: Trench F	C: 1.0 m	15	Moderately sheared granodiorite with 1-3 cm quartz veining and strong patches of silica flooding that appear to be veined. 0.5% very finely disseminated Py. Moderate to strong pervasive to patchy chlorite. Weak pervasive hematite alteration associated with quartz veining and alteration. Weak patchy potassic alteration associated with quartz veining. Weak limonite.
661505	Mud Lake: Trench F	C: 1.0 m	<5	Moderately sheared granodiorite with 1-3 cm quartz veining and strong patches of silica flooding that appear to be veined. 0.5% very finely disseminated Py. Moderate to strong pervasive to patchy chlorite. Weak pervasive hematite alteration associated with quartz veining and alteration. Weak patchy potassic alteration associated with quartz veining. Weak limonite.
661506	Mud Lake: Trench F	C: 1.0 m	<5	Moderate to strongly sheared granodiorite, with moderate to strong pervasive silica, moderate chlorite along foliation. Weak pervasive/patchy hematite/potassic alteration localized to feldspar phenocrysts.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
661507	Mud Lake: Trench F	C: 1.0 m	<5	Quartz veining in moderately sheared granodiorite, with 0.5% very finely disseminated Py. Quartz vein is ~5 cm, with moderate hematite staining, weak limonite, blebs of yellow sericite. Granodiorite is medium to coarse grained, with moderate chlorite alteration along foliation, could be granite. Weak hematite/potassic alteration.
661508	Mud Lake: Trench F	C: 1.0 m	23	Quartz veining hosted in moderately sheared granodiorite, with 0.1% very finely disseminated Py associated with sulphide weathering. Quartz veining has 5-7% carbonate, patches of chlorite, weak patches of potassic/hematite, limonite staining.
661509	Mud Lake: Trench F	C: 1.0 m	18	Moderately sheared granodiorite, medium to coarse grained, with 20-25% 5-25 mm quartz veining. 5-7% carbonate in the quartz veining, with 0.1% very finely disseminated Py. Moderate patches/stringers of chlorite along foliation. Weak patches of potassic alteration localized to feldspar phenocrysts, weak limonite staining.
661510	Mud Lake: Trench F	C: 1.0 m	<5	Quartz veining hosted in moderately sheared granodiorite, with 0.1% very finely disseminated Py associated with sulphide weathering. Quartz veining has 5-7% carbonate, patches of chlorite, weak patches of potassic/hematite, limonite staining.
661511	Mud Lake: Trench F	C: 1.0 m	<5	Moderate to strongly sheared granodiorite, with 0.1% very finely disseminated Py. Moderate to strong chlorite along foliation. Weak potassic alteration localized to feldspar phenocrysts.
661512	Mud Lake: Trench F	C: 1.0 m	8	Moderately sheared granodiorite with 1-3 mm quartz veining. 0.1% very finely disseminated Py, with sulphide weathering. Moderate pervasive silica, weak patchy bleaching+sericite+chlorite+limonite. Weak/faint pervasive potassic/hematite alteration.
661513	Mud Lake: Trench F	C: 0.5 m	6	Strongly altered granodiorite, with 0.5% disseminated Py - associated with sulphide weathering. Strong pervasive silica, moderate patchy bleaching+sericite+potassic+chlorite alteration. Weak patchy hematite, limonite occurring along fractures. Moderately sheared.
661514	Mud Lake: Trench F	C: 0.5 m	<5	Quartz vein breccia with 60-65% fragments of granodiorite, weakly sheared. 10-15% carbonate, with 0.1% very finely disseminated Py. Moderate to strong pervasive chlorite, weak to moderate silica, weak stringers/pervasive sericite.
661515	Mud Lake: Trench F	C: 1.0 m	5	Quartz vein breccia with 50-55% fragments of granodiorite, weakly sheared. 10-15% carbonate, with 0.1% very finely disseminated Py. Weak to moderate silica, moderate pervasive chlorite, weak stringers/pervasive sericite.
661516	Mud Lake: Trench F	C: 1.0 m	12	Quartz vein breccia with 60-65% fragments of granodiorite, weakly sheared. 10-15% carbonate, with 0.1% very finely disseminated Py. Weak to moderate silica, moderate pervasive chlorite, weak stringers/pervasive sericite. Faint potassic alteration.
661517	Mud Lake: Trench F	C: 1.0 m	6	Quartz vein breccia with 60-65% fragments of granodiorite, weakly sheared. 10-15% carbonate, with 0.1% very finely disseminated Py. Weak to moderate silica, moderate pervasive chlorite, weak stringers/pervasive sericite. Faint hematite staining.
661518	Mud Lake: Trench F	C: 1.0 m	<5	Weakly sheared granodiorite with 1-3 cm quartz veining, 0.1% very finely disseminated Py. 7-10% carbonate within the quartz vein. Moderate pervasive chlorite, weak to moderate pervasive silica, weak patchy sericite.
661519	Mud Lake: Trench F	C: 1.0 m	<5	Quartz vein breccia with 60-65% fragments of granodiorite, weakly sheared. 10-15% carbonate, with 0.1% very finely disseminated Py. Weak to moderate silica, moderate pervasive chlorite, weak stringers/pervasive sericite.
661520	Mud Lake: Trench F	C: 1.0 m	14	Quartz vein in sheared granodiorite, with 1-2% Py - disseminated to stringers within the veining and host rock. Vein is irregular, 2-3 cm with 7-10% carbonate. Strong pervasive/patchy silica + bleaching, weak potassic/hematite alteration - mainly localized within the quartz vein.

Expansion Lake and Mud Lake Saw-cut Channel Samples

Sample Number	Location	Sample Type	Au (ppb)	Sample Description
661521	Mud Lake: Trench F	C: 1.0 m	33	Quartz vein in sheared granodiorite, with 2-3% Py - disseminated to stringers within the veining and host rock. Vein is irregular, 2-3 cm with 7-10% carbonate. Strong pervasive/patchy silica + bleaching, weak potassic/hematite alteration - mainly localized within the quartz vein.
661522	Mud Lake: Trench F	C: 1.0 m	5	Moderate to strongly sheared granodiorite with quartz veining, 1-3 cm with 5-7% carbonate. 1-2% disseminated Py along foliation. Strong silica+bleaching, moderate pervasive hematite/potassic alteration along the contacts with the quartz veining.
661523	Mud Lake: Trench F	C: 1.0 m	5	Moderately sheared medium to coarse grained granodiorite with fine quartz veining. 7-10 cm chlorite-rich shear. 2-3% Py, 0.1% Cpy associated with quartz veining and within the host rock. Weak patchy pink potassic alteration associated with feldspar phenocrysts. Faint limonite staining.
661524	Mud Lake: Trench F	C: 1.0 m	<5	Quartz vein in sheared granodiorite, with 2-3% Py - disseminated to stringers within the veining and host rock. Strong pervasive/patchy silica + bleaching, weak potassic/hematite alteration - mainly localized within the quartz vein.
661525	Mud Lake: Trench F	C: 1.0 m	7	Moderate to strongly sheared granodiorite with quartz veining, 1-3 cm with 5-7% carbonate. 1% disseminated Py along foliation and within quartz veining. Strong silica+bleaching, moderate pervasive hematite/potassic alteration along the contacts with the quartz veining.
661526	Mud Lake: Trench F	C: 0.5 m	7	Moderately sheared granodiorite, very chlorite-rich, with 2-3 cm quartz veins containing 5-7% carbonate, patches of chlorite.
661527	Mud Lake: Trench F	C: 1.0 m	<5	Highly sheared granodiorite (almost chlorite schist) with 0.1% disseminated Py.
661528	Mud Lake: Trench F	C: 1.0 m	<5	Slightly porphyritic granodiorite, medium to coarse grained, with 0.1% disseminated pyrite. 5 cm shear within the channel cut - more chlorite-rich. Faint potassic alteration associated with feldspar phenocrysts.
661529	Mud Lake: Trench F	C: 0.5 m	<5	Slightly sheared granodiorite, with 2-3% Py - sulphide weathering/limonite blebs. Strong pervasive/patchy silica to veins of quartz. Weak patchy bleaching+sericite alteration. Faint epidote along quartz vein contacts.

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Friday, May 29, 2009

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Date Received: May 25, 2009

Date Completed: May 29, 2009

Job #: 200910015

Reference:

Sample #: 27 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
1587	689530	<5	<15	<10	
1588	689531	<5	<15	<10	
1589	689532	14	<15	<10	
1590	689533	<5	<15	<10	
1591	689534	<5	17	<10	
1592	689535	<5	<15	<10	
1593	689536	<5	<15	<10	
1594 Dup	689536	<5	<15	<10	
1595	689537	<5	<15	<10	
1596	689538	<5	<15	<10	
1597	689539	<5	<15	<10	
1598	689540	<5	<15	<10	
1599	689541	6	<15	<10	
1600	689542	<5	<15	<10	
1601	689543	<5	<15	<10	
1602	689544	<5	15	<10	
1603	689545	<5	<15	<10	
1604	689546	<5	<15	<10	
1605 Dup	689546	<5	<15	<10	
1606	689547	<5	<15	<10	
1607	689548	<5	27	<10	
1608	689549	<5	<15	<10	
1609	689550	<5	<15	<10	
1610	689768	<5	<15	<10	

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Date Received: May 25, 2009  
 Date Completed: May 29, 2009  
 Job #: 200910015  
 Reference:  
 Sample #: 27 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
1611	689769	11	15	<10	
1612	689770	7	20	<10	
1613	689771	81	<15	<10	
1614	689772	<5	<15	<10	
1615	689773	<5	<15	<10	

PROCEDURE CODES: ALPG1, ALICPMA

Certified By:



Derek Demianiuk H.Bsc., Laboratory Manager

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Tuesday, June 30, 2009

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 Date Received: Jun 23, 2009  
 Date Completed: Jun 30, 2009  
 Job #: 200910018  
 Reference:  
 Sample #: 51 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1632	689794	<5	<0.001	<0.005
1633	689795	<5	<0.001	<0.005
1634	689796	<5	<0.001	<0.005
1635	689797	<5	<0.001	<0.005
1636	689798	<5	<0.001	<0.005
1637	689799	<5	<0.001	<0.005
1638	689800	<5	<0.001	<0.005
1639	689801	<5	<0.001	<0.005
1640	689802	<5	<0.001	<0.005
1641	689803	<5	<0.001	<0.005
1642 Dup	689803	<5	<0.001	<0.005
1643	689804	<5	<0.001	<0.005
1644	689805	<5	<0.001	<0.005
1645	689806	<5	<0.001	<0.005
1646	689807	<5	<0.001	<0.005
1647	689808	6	<0.001	0.006
1648	689809	13	<0.001	0.013
1649	689810	42	0.001	0.042
1650	689811	<5	<0.001	<0.005
1651	689812	<5	<0.001	<0.005
1652	689813	<5	<0.001	<0.005
1653 Dup	689813	6	<0.001	0.006
1654	689814	<5	<0.001	<0.005
1655	689815	<5	<0.001	<0.005

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 Date Received: Jun 23, 2009  
 Date Completed: Jun 30, 2009  
 Job #: 200910018  
 Reference:  
 Sample #: 51 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1656	689816	<5	<0.001	<0.005
1657	689817	5	<0.001	0.005
1658	689817A	1689	0.049	1.689
1659	689882	19	<0.001	0.019
1660	689883	9	<0.001	0.009
1661	689884	<5	<0.001	<0.005
1662	689885	<5	<0.001	<0.005
1663	689886	<5	<0.001	<0.005
1664	689887	<5	<0.001	<0.005
1665 Dup	689887	<5	<0.001	<0.005
1666	689888	<5	<0.001	<0.005
1667	689889	<5	<0.001	<0.005
1668	689890	<5	<0.001	<0.005
1669	689891	<5	<0.001	<0.005
1670	689892	<5	<0.001	<0.005
1671	689892A	1665	0.049	1.665
1672	689893	<5	<0.001	<0.005
1673	689894	<5	<0.001	<0.005
1674	689895	<5	<0.001	<0.005
1675	689896	8	<0.001	0.008
1676 Dup	689896	7	<0.001	0.007
1677	689897	11	<0.001	0.011
1678	689898	11	<0.001	0.011
1679	689899	<5	<0.001	<0.005

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 Date Received: Jun 23, 2009  
 Date Completed: Jun 30, 2009  
 Job #: 200910018  
 Reference:  
 Sample #: 51 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1680	689900	<5	<0.001	<0.005
1681	755001	<5	<0.001	<0.005
1682	755002	<5	<0.001	<0.005
1683	755003	<5	<0.001	<0.005
1684	755004	5	<0.001	0.005
1685	755005	5	<0.001	0.005
1686	755005A	1634	0.048	1.634

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



Derek Demianiuk H.Bsc., Laboratory Manager

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Friday, July 3, 2009

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 Date Received: Jun 24, 2009  
 Date Completed: Jul 3, 2009  
 Job #: 200910019  
 Reference:  
 Sample #: 6 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb
1687	689819	6	<15	18	
1688	689825	<5	<15	10	
1689	689826	<5	<15	<10	
1690	689842	6	<15	<10	
1691	689853	<5	16	<10	
1692	689864	<5	18	<10	
1693 Dup	689864	<5	19	<10	

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



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 Date Received: Jun 24, 2009  
 Date Completed: Jul 3, 2009  
 Job #: 200910020  
 Reference:  
 Sample #: 60 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1694	689818	<5	<0.001	<0.005
1695	689820	10	<0.001	0.010
1696	689821	<5	<0.001	<0.005
1697	689822	<5	<0.001	<0.005
1698	689823	<5	<0.001	<0.005
1699	689824	<5	<0.001	<0.005
1700	689827	<5	<0.001	<0.005
1701	689828	<5	<0.001	<0.005
1702	689829	<5	<0.001	<0.005
1703 Dup	689829	35	0.001	0.035
1704	689830	<5	<0.001	<0.005
1705	689831	<5	<0.001	<0.005
1706	689832	14	<0.001	0.014
1707	689833	<5	<0.001	<0.005
1708	689834	<5	<0.001	<0.005
1709	689835	<5	<0.001	<0.005
1710	689836	<5	<0.001	<0.005
1711	689837	<5	<0.001	<0.005
1712	689838	<5	<0.001	<0.005
1713	689839	<5	<0.001	<0.005
1714 Dup	689839	<5	<0.001	<0.005
1715	689840	<5	<0.001	<0.005
1716	689841	13	<0.001	0.013
1717	689842A	1636	0.048	1.636

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 Date Received: Jun 24, 2009  
 Date Completed: Jul 3, 2009  
 Job #: 200910020  
 Reference:  
 Sample #: 60 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1718	689843	121	0.004	0.121
1719	689844	<5	<0.001	<0.005
1720	689845	<5	<0.001	<0.005
1721	689846	<5	<0.001	<0.005
1722	689847	<5	<0.001	<0.005
1723	689848	<5	<0.001	<0.005
1724	689849	<5	<0.001	<0.005
1725	689850	8	<0.001	0.008
1726 Dup	689850	<5	<0.001	<0.005
1727	689851	<5	<0.001	<0.005
1728	689852	8	<0.001	0.008
1729	689854	6	<0.001	0.006
1730	689855	5	<0.001	0.005
1731	689856	<5	<0.001	<0.005
1732	689857	<5	<0.001	<0.005
1733	689858	<5	<0.001	<0.005
1734	689859	<5	<0.001	<0.005
1735	689860	<5	<0.001	<0.005
1736	689861	<5	<0.001	<0.005
1737 Dup	689861	<5	<0.001	<0.005
1738	689862	<5	<0.001	<0.005
1739	689863	<5	<0.001	<0.005
1740	689865	<5	<0.001	<0.005
1741	689866	<5	<0.001	<0.005

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 Date Received: Jun 24, 2009  
 Date Completed: Jul 3, 2009  
 Job #: 200910020  
 Reference:  
 Sample #: 60 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1742	689867	<5	<0.001	<0.005
1743	689867A	4899	0.143	4.899
1744	689868	7	<0.001	0.007
1745	689869	7	<0.001	0.007
1746	689870	6	<0.001	0.006
1747 Dup	689870	7	<0.001	0.007
1748	689871	6	<0.001	0.006
1749	689872	<5	<0.001	<0.005
1750	689873	<5	<0.001	<0.005
1751	689874	6	<0.001	0.006
1752	689875	<5	<0.001	<0.005
1753	689876	<5	<0.001	<0.005
1754	689877	<5	<0.001	<0.005
1755	689878	<5	<0.001	<0.005
1756	689879	<5	<0.001	<0.005
1757 Dup	689879	<5	<0.001	<0.005
1758	689880	<5	<0.001	<0.005
1759	689881	<5	<0.001	<0.005

## Certificate of Analysis

Friday, July 3, 2009

Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jun 24, 2009  
 Date Completed: Jul 3, 2009  
 Job #: 200910020  
 Reference:  
 Sample #: 60 Rock

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Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
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PROCEDURE CODES: ALFA1, ALICPMA, ALS



Derek Demianiuk H.Bsc., Laboratory Manager

Certified By:

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AL903-0519-07/03/2009 10:29 AM

**Certificate of Analysis**

Thursday, July 9, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 2, 2009  
 Date Completed: Jul 9, 2009  
 Job #: 200910021  
 Reference:  
 Sample #: 34 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1760	755018	195	0.006	0.195
1761	755019	<5	<0.001	<0.005
1762	755020	<5	<0.001	<0.005
1763	755021	29	<0.001	0.029
1764	755022	<5	<0.001	<0.005
1765	755023	<5	<0.001	<0.005
1766	755024	49	0.001	0.049
1767	755025	<5	<0.001	<0.005
1768	755026	<5	<0.001	<0.005
1769	755027	12	<0.001	0.012
1770 Dup	755027	14	<0.001	0.014
1771	755028	<5	<0.001	<0.005
1772	755029	<5	<0.001	<0.005
1773	755030	<5	<0.001	<0.005
1774	755031	<5	<0.001	<0.005
1775	755032	<5	<0.001	<0.005
1776	755033	<5	<0.001	<0.005
1777	755034	<5	<0.001	<0.005
1778	755035	<5	<0.001	<0.005
1779	755036	<5	<0.001	<0.005
1780	755037	<5	<0.001	<0.005
1781 Dup	755037	<5	<0.001	<0.005
1782	755038	<5	<0.001	<0.005
1783	755039	<5	<0.001	<0.005

**Certificate of Analysis**

Thursday, July 9, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 2, 2009  
 Date Completed: Jul 9, 2009  
 Job #: 200910021  
 Reference:  
 Sample #: 34 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1784	755040	<5	<0.001	<0.005
1785	755041	<5	<0.001	<0.005
1786	755041A	648	0.019	0.648
1787	755042	6	<0.001	0.006
1788	755043	<5	<0.001	<0.005
1789	755044	<5	<0.001	<0.005
1790	755045	<5	<0.001	<0.005
1791	755046	<5	<0.001	<0.005
1792 Dup	755046	<5	<0.001	<0.005
1793	755047	<5	<0.001	<0.005
1794	755048	<5	<0.001	<0.005
1795	755049	<5	<0.001	<0.005
1796	755050	<5	<0.001	<0.005

PROCEDURE CODES: ALFA1, ALICPAR, ALS

Certified By:

  
 Jason Moore, General Manager

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AL903-0519-07/09/2009 11:18 AM



1046 Gorham Street  
Thunder Bay, ON  
Canada P7B 5X5

Tel: (807) 626-1630  
Fax: (807) 622-7571

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assay@accurassay.com

Alto Ventures Ltd.  
Date Created: 09-06-04 02:04:17 PM  
Job Number: 200910015  
Date Received: May 25, 2009  
Number of Samples: 27  
Type of Sample: Rock  
Date Completed: May 29, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	Hg ppm	S %	U ppm
1587	689530	<1	9.42	9	427	<1	<1	2.36	<4	6	79	13	2.53	3.57	13	0.58	528	9	5	487	11	<5	<5	<10	185	330	4	31	<10	13	56	<1	<0.10	<10
1588	689531	<1	9.54	19	159	2	19	4.24	<4	34	284	43	>10.00	3.05	26	1.79	667	15	52	620	29	9	<5	<10	246	2816	5	94	<10	13	51	<1	10.12	<10
1589	689532	2	>10.00	7	392	2	<1	4.55	<4	30	118	36	4.49	4.57	53	2.18	686	1	56	930	18	5	5	<10	151	4295	22	130	<10	15	84	<1	0.58	<10
1590	689533	3	>10.00	7	209	1	5	4.99	<4	38	195	66	5.92	3.11	45	2.54	985	<1	80	912	13	<5	<5	<10	237	4990	4	136	<10	17	82	<1	0.36	<10
1591	689534	<1	8.72	7	94	1	<1	8.47	<4	36	211	39	5.57	1.94	10	2.55	1064	<1	78	971	16	6	<5	<10	214	5117	12	166	<10	16	62	<1	0.35	13
1592	689535	1	9.12	6	919	2	9	0.62	<4	3	217	4	1.08	3.59	10	0.33	159	6	5	223	15	<5	9	<10	623	621	5	20	<10	8	21	<1	<0.10	<10
1593	689536	<1	4.13	<2	85	<1	<1	2.52	<4	17	283	6	3.13	2.00	15	1.11	572	1	32	121	8	<5	<5	<10	75	227	5	75	<10	6	50	<1	<0.10	<10
1594	689536	<1	4.83	3	92	<1	<1	2.62	<4	18	300	7	3.25	2.47	18	1.17	597	2	32	138	8	<5	<5	<10	81	259	1	78	<10	7	52	<1	<0.10	<10
1595	689537	2	>10.00	9	300	2	10	2.79	<4	28	132	34	4.72	2.41	31	1.92	604	<1	52	763	16	8	<5	<10	312	3764	13	113	<10	14	40	<1	0.36	<10
1596	689538	<1	5.81	26	209	<1	<1	>10.00	<4	23	89	37	6.20	3.25	18	3.12	1311	<1	53	397	17	<5	<5	<10	293	202	13	59	<10	8	40	1	2.31	<10
1597	689539	1	4.28	29	165	<1	<1	8.48	<4	24	238	113	4.49	2.36	13	2.42	1058	<1	47	378	14	<5	<5	<10	269	152	9	49	<10	6	30	<1	1.75	<10
1598	689540	<1	3.99	11	134	<1	<1	8.25	<4	19	138	57	4.62	2.12	13	2.69	1193	4	42	343	12	<5	<5	<10	239	134	11	48	<10	5	31	<1	1.70	14
1599	689541	<1	4.67	53	149	<1	<1	>10.00	<4	22	123	27	7.02	2.49	17	3.45	1324	<1	63	352	17	8	<5	<10	303	147	12	54	18	7	50	1	3.42	<10
1600	689542	<1	2.98	5	66	<1	<1	4.12	<4	6	320	36	1.06	1.84	9	0.42	346	5	12	213	6	<5	<5	<10	192	<100	6	18	<10	5	4	1	0.36	<10
1601	689543	<1	6.24	4	332	<1	<1	1.15	<4	4	226	423	1.44	2.93	6	0.13	235	8	11	376	14	<5	<5	<10	68	259	<1	32	<10	11	22	<1	<0.10	<10
1602	689544	<1	8.30	6	125	<1	<1	1.48	<4	20	69	13	4.95	1.25	37	1.24	463	4	7	1526	12	6	<5	<10	177	139	4	96	<10	9	74	<1	<0.10	<10
1603	689545	<1	5.55	3	111	<1	<1	0.95	<4	9	432	69	2.58	1.33	12	0.33	536	6	10	857	4	<5	<5	<10	96	141	3	47	<10	5	24	2	0.23	<10
1604	689546	<1	9.25	8	224	<1	10	0.81	<4	25	120	9	3.80	1.56	32	1.05	440	6	59	549	47	6	<5	<10	217	164	2	59	<10	13	63	1	0.73	<10
1605	689546	<1	9.48	6	231	1	<1	0.82	<4	27	126	9	3.96	1.54	34	1.08	457	5	58	571	50	<5	<5	<10	224	169	4	61	<10	13	65	1	0.79	<10
1606	689547	<1	8.23	<2	51	<1	13	1.70	<4	15	125	26	4.59	1.38	20	0.67	513	8	5	1922	14	<5	<5	<10	121	183	<1	57	<10	12	61	<1	<0.10	<10
1607	689548	<1	6.87	4	752	<1	<1	2.43	<4	3	84	3	1.84	3.13	7	0.66	434	6	9	119	7	<5	<5	<10	127	248	1	7	<10	14	39	<1	<0.10	<10
1608	689549	<1	6.63	5	54	<1	<1	3.28	<4	10	241	42	2.81	1.56	18	1.43	790	<1	17	313	8	<5	<5	<10	162	118	4	31	<10	6	29	<1	<0.10	<10

Certified By:   
Derek Demianiuk, H.Bsc.



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Alto Ventures Ltd.  
Date Created: 09-06-04 02:04:17 PM  
Job Number: 200910015  
Date Received: May 25, 2009  
Number of Samples: 27  
Type of Sample: Rock  
Date Completed: May 29, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	Hg ppm	S %	U ppm
1609	689550	<1	7.02	6	42	<1	<1	1.76	<4	5	172	12	1.68	1.36	7	0.22	349	12	7	<100	16	5	<5	<10	147	<100	<1	7	<10	13	39	<1	<0.10	<10
1610	689768	<1	7.98	21	128	<1	<1	2.01	<4	13	185	17	3.22	1.33	15	0.96	510	5	26	447	17	<5	5	<10	195	286	4	57	<10	16	42	1	0.64	<10
1611	689769	1	2.52	5	19	<1	<1	0.39	<4	1	360	497	0.49	1.66	8	0.15	<100	10	3	140	4	<5	<5	<10	25	<100	2	<2	<10	3	3	<1	<0.10	<10
1612	689770	<1	6.23	7	157	<1	3	1.45	<4	9	365	35	2.36	1.57	20	0.80	371	4	20	284	10	<5	<5	<10	190	135	1	43	<10	9	24	<1	0.39	<10
1613	689771	<1	7.99	5	201	<1	<1	2.72	<4	8	54	33	2.54	3.00	19	0.50	473	7	5	509	8	<5	<5	<10	147	243	4	29	<10	11	57	<1	<0.10	<10
1614	689772	<1	9.38	6	307	1	<1	2.03	<4	8	132	82	2.68	4.16	23	0.54	452	8	4	545	11	<5	<5	<10	144	342	2	33	<10	13	52	<1	<0.10	<10
1615	689773	<1	8.17	6	27	<1	29	3.61	<4	44	94	107	>10.00	1.42	67	2.50	1270	6	32	468	22	8	<5	<10	90	198	3	311	<10	8	120	<1	0.13	11

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Alto Ventures Ltd.  
Date Created: 09-07-03 11:33:11 AM  
Job Number: 200910018  
Date Received: Jun 23, 2009  
Number of Samples: 51  
Type of Sample: Rock  
Date Completed: Jun 30, 2009  
Project ID:

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Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn	S
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1632	689794	<1	>10.00	10	231	1	2	2.14	<4	10	252	8	4.11	1.47	29	0.76	682	15	20	635	8	5	<5	<10	143	421	1	38	<10	18	90	0.51
1633	689795	<1	>10.00	7	249	2	2	2.12	<4	7	73	4	2.93	1.71	21	0.66	674	12	15	613	11	<5	<5	<10	142	399	<1	31	40	17	70	0.41
1634	689796	<1	6.61	6	107	2	<1	1.00	<4	4	478	12	1.92	1.49	19	0.32	598	12	8	215	9	<5	<5	<10	55	237	2	7	<10	8	33	0.52
1635	689797	<1	>10.00	3	271	2	3	2.19	<4	7	224	6	3.14	1.71	18	0.60	916	12	11	693	12	<5	<5	<10	145	436	3	34	<10	16	62	0.40
1636	689798	<1	6.12	5	93	1	1	1.84	<4	4	212	14	0.88	1.42	20	0.42	277	9	20	108	6	<5	<5	<10	63	207	2	15	11	6	14	0.48
1637	689799	<1	>10.00	5	312	2	<1	1.20	<4	3	290	4	1.71	1.39	16	0.41	252	14	9	220	8	<5	<5	<10	127	440	<1	5	<10	16	24	0.43
1638	689800	<1	>10.00	9	189	2	<1	2.21	<4	8	112	8	2.81	1.06	20	0.52	579	15	19	709	8	<5	<5	<10	171	613	5	32	<10	21	59	0.52
1639	689801	<1	>10.00	6	197	2	<1	3.57	<4	8	228	12	2.78	1.81	19	0.45	645	16	9	408	13	<5	<5	<10	175	1655	<1	11	<10	24	62	0.65
1640	689802	<1	>10.00	3	221	1	1	2.90	<4	8	79	13	2.42	1.98	24	0.54	365	12	11	465	8	<5	<5	<10	190	488	3	89	<10	10	22	0.50
1641	689803	<1	9.69	5	461	2	2	3.06	<4	5	273	16	1.58	1.57	21	0.50	275	13	18	349	21	<5	<5	<10	115	567	3	24	<10	13	31	0.51
1642	689803	<1	>10.00	6	479	2	<1	3.20	<4	5	287	16	1.65	1.91	22	0.52	284	14	11	356	23	<5	<5	<10	119	583	3	25	<10	14	30	0.55
1643	689804	<1	>10.00	12	496	2	3	1.90	<4	4	139	464	1.29	1.65	22	0.48	160	16	19	441	20	<5	<5	<10	120	692	2	34	<10	16	22	0.54
1644	689805	<1	9.74	12	191	2	1	5.18	<4	12	539	11	2.39	1.49	33	1.62	677	12	65	274	7	<5	<5	<10	199	378	7	50	<10	15	28	0.61
1645	689806	<1	>10.00	8	390	2	1	0.82	<4	6	133	7	1.48	1.92	20	0.35	246	13	11	359	14	<5	<5	<10	84	1569	<1	29	<10	15	33	0.47
1646	689807	<1	>10.00	7	408	2	2	1.33	<4	5	196	246	1.83	1.41	24	0.55	230	14	21	496	10	<5	<5	<10	107	624	<1	34	<10	17	32	0.47
1647	689808	<1	>10.00	5	384	2	2	2.17	<4	16	97	37	3.73	1.51	36	1.34	553	10	47	509	13	<5	<5	<10	403	432	4	99	<10	12	59	0.54
1648	689809	1	6.81	6	88	2	<1	0.95	<4	3	841	8	0.94	1.25	22	0.39	178	12	26	<100	6	<5	<5	<10	57	213	2	7	<10	6	6	0.60
1649	689810	<1	>10.00	8	230	2	1	1.70	<4	15	143	217	3.05	1.15	37	1.10	391	10	49	441	10	<5	<5	<10	206	493	1	95	<10	10	49	0.56
1650	689811	<1	>10.00	9	293	2	<1	1.53	<4	5	272	5	1.17	1.07	21	0.59	225	10	37	310	12	<5	<5	<10	333	259	1	20	<10	8	37	0.44
1651	689812	<1	>10.00	7	98	1	<1	1.59	<4	22	176	6	4.13	1.61	39	2.29	439	7	99	570	11	<5	<5	<10	164	297	7	87	<10	9	74	0.37
1652	689813	<1	>10.00	10	166	2	3	2.48	<4	13	219	21	2.93	1.51	34	1.11	598	11	42	503	8	<5	<5	<10	179	383	2	54	<10	15	51	0.77
1653	689813	<1	>10.00	12	164	1	2	2.31	<4	13	214	20	2.79	1.86	31	1.03	573	11	44	472	10	<5	<5	<10	167	357	2	51	<10	14	55	0.75

Certified By:   
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Alto Ventures Ltd.  
Date Created: 09-07-03 11:33:11 AM  
Job Number: 200910018  
Date Received: Jun 23, 2009  
Number of Samples: 51  
Type of Sample: Rock  
Date Completed: Jun 30, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1654	689814	<1	>10.00	6	297	2	<1	2.80	<4	11	75	15	3.61	2.02	21	0.70	725	14	18	705	12	<5	<5	<10	202	590	2	69	<10	17	48	0.42
1655	689815	<1	>10.00	17	314	2	<1	1.65	<4	16	206	22	3.81	1.81	30	1.33	400	14	36	601	12	<5	<5	<10	227	3206	4	83	<10	17	56	1.10
1656	689816	<1	8.94	4	369	1	<1	4.03	<4	11	377	10	2.71	1.91	25	1.18	451	7	49	289	10	<5	<5	<10	183	393	5	74	<10	9	28	0.45
1657	689817	<1	6.43	5	127	2	2	0.89	<4	8	853	21	1.54	1.82	21	0.30	260	12	24	358	5	<5	<5	<10	58	231	1	10	<10	7	24	0.53
1658	689817A	<1	6.65	8	123	1	2	0.90	<4	8	834	21	1.53	1.68	21	0.31	258	12	19	353	6	<5	<5	<10	59	240	<1	10	<10	8	26	0.57
1659	689882	<1	>10.00	9	147	2	2	5.08	<4	16	100	21	3.75	1.43	25	1.58	897	9	51	458	10	<5	<5	<10	244	466	11	72	<10	9	42	0.44
1660	689883	<1	>10.00	11	179	2	2	2.28	<4	15	395	21	3.31	1.33	33	1.26	572	13	72	533	13	<5	<5	<10	170	353	5	73	<10	13	62	0.52
1661	689884	<1	>10.00	<2	223	2	3	2.10	<4	15	126	32	3.17	1.25	29	1.11	535	10	49	506	12	<5	<5	<10	229	318	<1	65	<10	11	53	0.44
1662	689885	<1	6.92	5	112	1	3	1.77	<4	6	776	15	1.67	1.07	21	0.56	458	10	19	<100	4	<5	<5	<10	84	213	1	14	<10	6	16	0.50
1663	689886	<1	>10.00	7	155	1	<1	1.48	<4	14	122	28	3.00	1.77	24	0.93	495	8	35	424	8	<5	<5	<10	181	353	1	60	<10	11	54	0.33
1664	689887	<1	8.86	7	248	2	2	1.25	<4	5	170	5	2.85	1.88	17	0.31	526	13	6	389	11	<5	<5	<10	147	336	<1	4	<10	17	79	0.38
1665	689887	<1	>10.00	2	269	2	2	1.53	<4	7	186	5	3.03	2.21	23	0.42	562	16	6	432	16	<5	<5	<10	170	493	<1	5	<10	21	80	0.57
1666	689888	<1	>10.00	5	92	1	<1	1.80	<4	17	216	191	3.81	2.17	23	1.32	615	9	37	446	7	<5	<5	<10	258	2589	4	64	<10	19	52	0.38
1667	689889	<1	>10.00	11	161	1	<1	1.74	<4	21	180	29	4.09	1.91	30	1.47	589	9	59	339	13	<5	<5	<10	223	370	1	82	<10	10	57	0.56
1668	689890	<1	>10.00	8	93	2	1	1.70	<4	17	143	21	3.49	2.01	26	1.54	467	7	52	302	11	<5	<5	<10	169	362	1	61	<10	9	51	0.44
1669	689891	<1	>10.00	14	129	1	3	2.36	<4	14	248	29	2.69	2.09	22	0.69	355	21	51	299	10	<5	<5	<10	211	309	1	58	<10	12	37	0.68
1670	689892	<1	8.98	9	158	1	1	2.28	<4	14	328	10	2.95	1.70	27	1.26	505	8	49	307	5	<5	<5	<10	122	271	4	54	<10	8	42	0.52
1671	689892A	<1	7.58	7	143	1	<1	2.10	<4	14	324	10	2.87	1.65	22	1.17	488	6	43	285	6	<5	<5	<10	112	231	2	52	<10	7	41	0.42
1672	689893	<1	>10.00	9	214	2	<1	2.16	<4	20	185	27	4.25	1.47	37	2.43	609	7	103	466	11	<5	<5	<10	128	422	7	83	<10	11	61	0.44
1673	689894	<1	9.90	17	163	2	<1	4.13	<4	14	286	22	2.90	1.35	24	1.20	534	9	48	478	9	<5	<5	<10	143	2311	1	65	<10	14	42	0.44
1674	689895	<1	>10.00	26	89	1	<1	4.62	<4	30	305	297	5.16	1.26	30	2.22	771	5	83	666	11	7	<5	<10	272	4627	8	129	<10	18	66	0.44
1675	689896	<1	>10.00	21	291	3	2	1.03	<4	7	142	27	6.70	1.95	39	2.13	439	10	67	502	17	<5	<5	<10	180	505	2	93	<10	12	57	0.54

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Alto Ventures Ltd.  
Date Created: 09-07-03 11:33:11 AM  
Job Number: 200910018  
Date Received: Jun 23, 2009  
Number of Samples: 51  
Type of Sample: Rock  
Date Completed: Jun 30, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1676	689896	<1	>10.00	20	291	3	<1	0.98	<4	7	139	26	6.58	2.12	37	2.09	431	9	73	491	17	<5	<5	<10	176	474	<1	91	<10	11	57	0.48
1677	689897	<1	>10.00	26	296	.3	2	1.05	<4	12	195	29	7.73	2.00	41	2.26	459	11	69	493	21	<5	<5	<10	197	503	<1	92	<10	12	58	1.12
1678	689898	<1	>10.00	24	274	2	<1	1.05	<4	13	200	35	8.25	2.71	40	2.62	491	11	111	561	21	<5	<5	<10	200	420	6	111	<10	12	68	1.12
1679	689899	<1	7.23	8	202	2	<1	1.31	<4	4	473	23	1.11	1.88	21	0.51	236	10	17	167	6	<5	<5	<10	68	250	<1	25	<10	7	14	0.51
1680	689900	<1	>10.00	14	142	2	1	1.89	<4	19	116	27	5.06	1.91	42	2.21	533	6	87	493	12	<5	<5	<10	199	284	2	84	<10	9	59	0.92
1681	755001	<1	>10.00	12	243	2	3	1.82	<4	13	312	29	3.25	1.46	31	0.79	504	17	38	377	14	<5	<5	<10	180	452	<1	62	<10	14	46	1.02
1682	755002	<1	>10.00	14	192	3	1	3.94	<4	27	145	53	5.83	2.10	33	2.01	958	12	58	994	14	<5	<5	<10	188	390	7	112	<10	15	103	0.59
1683	755003	<1	9.04	9	120	2	<1	2.18	<4	10	452	5	2.40	1.37	24	1.05	507	9	39	291	8	<5	<5	<10	131	360	3	48	<10	8	27	0.50
1684	755004	<1	>10.00	7	302	2	<1	2.55	<4	16	108	28	3.39	1.89	33	0.60	603	13	36	576	13	<5	<5	<10	209	433	1	70	<10	15	62	0.75
1685	755005	<1	6.42	7	92	2	1	2.04	<4	4	708	9	1.50	1.89	20	0.47	284	10	21	<100	5	<5	<5	<10	51	192	1	6	<10	6	10	0.77
1686	755005A	<1	6.30	5	89	2	<1	1.97	<4	3	635	8	1.41	1.93	19	0.46	273	10	24	<100	7	<5	<5	<10	49	189	3	6	<10	5	11	0.74

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Alto Ventures Ltd.  
Date Created: 09-07-09 09:59:28 AM  
Job Number: 200910019  
Date Received: Jun 24, 2009  
Number of Samples: 6  
Type of Sample: Rock  
Date Completed: Jul 3, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1687	689819	<1	9.95	4	321	3	2	6.07	<4	40	542	101	4.93	1.32	38	3.63	975	3	141	2799	18	<5	13	<10	358	4376	6	128	<10	23	88	<0.10
1688	689825	1	>10.00	17	290	2	2	7.14	<4	15	256	45	2.83	1.32	28	1.14	565	4	88	473	13	7	24	<10	207	2491	10	86	<10	13	31	0.14
1689	689826	<1	>10.00	12	109	1	3	4.35	<4	21	139	36	3.62	1.35	30	1.92	597	2	104	515	11	<5	16	<10	154	2832	5	87	<10	14	56	0.10
1690	689842	<1	>10.00	<2	100	2	4	3.04	<4	17	174	40	3.36	1.24	36	1.73	658	4	120	516	11	6	19	<10	184	486	14	69	<10	10	81	0.14
1691	689853	3	9.39	<2	233	2	2	4.35	<4	42	125	32	6.42	1.11	24	1.75	997	4	46	797	16	<5	<5	<10	231	7340	9	196	<10	19	110	0.11
1692	689864	6	>10.00	5	192	2	3	4.75	<4	45	109	63	7.09	0.94	30	2.06	1173	3	58	568	15	<5	<5	<10	195	6199	7	242	<10	18	104	0.11
1693	689864	6	>10.00	2	213	2	<1	5.20	<4	49	115	66	7.65	0.96	31	2.30	1259	3	71	590	18	6	<5	<10	209	6602	12	256	<10	20	111	0.13

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Alto Ventures Ltd.  
Date Created: 09-07-09 09:59:33 AM  
Job Number: 200910020  
Date Received: Jun 24, 2009  
Number of Samples: 60  
Type of Sample: Rock  
Date Completed: Jul 3, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn	S
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1694	689818	<1	>10.00	4	207	2	6	2.31	<4	9	187	21	3.20	1.00	28	0.60	511	3	33	672	10	<5	20	<10	171	601	5	35	<10	15	72	<0.10
1695	689820	<1	>10.00	6	170	2	2	3.48	<4	24	176	102	3.65	1.18	32	1.93	603	4	99	462	12	<5	22	<10	670	2817	5	93	<10	14	59	<0.10
1696	689821	<1	9.30	2	114	2	4	1.51	<4	9	623	5	2.07	1.22	30	1.01	334	3	39	184	10	<5	17	<10	71	388	<1	34	<10	7	35	<0.10
1697	689822	<1	>10.00	3	330	1	3	4.99	<4	13	122	11	2.61	1.23	29	0.90	666	3	71	441	8	<5	18	<10	150	626	3	83	<10	9	42	<0.10
1698	689823	<1	7.60	<2	62	1	2	2.04	<4	1	252	3	0.32	1.23	22	0.33	194	3	20	<100	5	<5	19	<10	68	232	7	5	<10	7	11	<0.10
1699	689824	<1	7.37	3	108	1	3	0.76	<4	1	304	3	0.32	1.20	21	0.32	<100	3	21	<100	3	<5	12	<10	50	229	1	4	<10	6	12	<0.10
1700	689827	<1	>10.00	4	304	2	3	2.58	<4	12	112	33	2.88	1.67	22	0.85	487	2	33	668	11	<5	21	<10	171	653	<1	63	<10	12	74	<0.10
1701	689828	<1	>10.00	6	94	1	4	2.03	<4	9	125	27	2.53	1.42	24	0.71	372	3	35	391	11	<5	19	<10	129	485	1	40	<10	11	55	<0.10
1702	689829	<1	>10.00	5	140	1	4	1.58	<4	13	120	33	3.09	1.05	26	0.82	277	3	32	571	10	<5	17	<10	148	544	5	55	<10	10	58	<0.10
1703	689829	<1	>10.00	6	126	2	2	1.57	<4	13	115	33	3.08	1.06	28	0.74	262	3	53	602	9	<5	16	<10	144	684	1	56	<10	9	60	<0.10
1704	689830	<1	>10.00	3	127	1	3	3.37	<4	10	223	17	2.68	1.25	27	1.25	586	2	58	410	7	<5	26	<10	163	729	3	52	<10	12	33	<0.10
1705	689831	<1	>10.00	<2	151	1	3	2.03	<4	11	51	57	2.63	1.19	27	1.11	377	3	31	447	8	<5	22	<10	105	708	6	56	<10	12	55	<0.10
1706	689832	<1	>10.00	10	114	2	2	2.95	<4	20	197	40	3.56	1.16	31	1.71	499	3	104	502	10	11	16	<10	102	2654	6	78	<10	14	61	<0.10
1707	689833	<1	>10.00	8	159	1	1	3.28	<4	20	175	42	4.22	1.49	30	2.33	650	3	112	553	9	5	20	<10	169	3216	17	97	<10	16	67	0.54
1708	689834	<1	>10.00	5	131	2	1	3.58	<4	22	206	46	3.83	1.47	31	1.89	643	2	100	499	8	<5	20	<10	257	2968	7	86	<10	15	56	0.45
1709	689835	<1	>10.00	8	94	1	2	3.02	<4	21	237	40	3.83	1.07	30	1.84	589	3	98	473	9	6	20	<10	149	2791	15	81	<10	14	55	0.11
1710	689836	<1	>10.00	3	126	2	1	2.24	<4	21	150	46	3.74	1.25	32	1.45	472	4	132	553	9	<5	18	<10	173	412	6	84	<10	9	70	<0.10
1711	689837	<1	>10.00	2	74	1	3	3.42	<4	16	345	17	3.44	1.31	32	1.56	553	3	97	509	9	8	20	<10	142	763	2	93	<10	9	28	0.19
1712	689838	<1	>10.00	5	73	1	4	5.82	<4	18	310	35	3.08	1.70	36	1.82	774	3	114	506	9	5	17	<10	174	672	9	97	<10	10	29	0.11
1713	689839	<1	>10.00	7	165	2	5	3.23	<4	30	205	102	6.04	1.39	43	2.09	750	3	88	1039	14	<5	22	<10	230	725	10	115	<10	14	183	0.26
1714	689839	<1	>10.00	3	150	2	4	2.83	<4	26	184	89	5.39	1.43	34	2.00	685	2	77	900	13	<5	12	<10	201	536	12	102	<10	12	162	0.20
1715	689840	<1	>10.00	5	193	1	5	1.88	<4	10	214	14	2.53	1.30	26	0.80	318	3	38	465	13	5	19	<10	138	504	6	50	<10	11	75	<0.10

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Alto Ventures Ltd.

Date Created: 09-07-09 09:59:33 AM

Job Number: 200910020

Date Received: Jun 24, 2009

Number of Samples: 60

Type of Sample: Rock

Date Completed: Jul 3, 2009

Project ID:

\* The results included on this report relate only to the items tested

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1716	689841	<1	>10.00	.6	210	1	3	3.70	<4	21	252	42	3.84	1.36	32	1.11	528	3	115	493	9	<5	25	<10	130	599	6	91	<10	12	70	<0.10
1717	689842A	2	>10.00	.26	414	2	5	1.83	<4	18	96	>5,000	3.92	1.18	35	0.94	245	609	69	624	46	18	22	<10	221	1308	6	67	20	15	72	1.47
1718	689843	<1	>10.00	.29	118	1	5	3.56	<4	21	104	71	4.20	1.37	33	1.27	718	4	60	605	13	5	17	<10	196	537	1	81	<10	11	85	0.27
1719	689844	<1	>10.00	<2	112	1	1	2.20	<4	16	259	106	2.91	1.20	31	1.16	469	3	53	477	12	<5	20	<10	130	427	14	56	<10	9	71	0.18
1720	689845	<1	9.19	3	74	1	2	2.11	<4	9	209	63	1.76	1.19	24	0.81	326	3	39	248	6	<5	20	<10	93	343	8	30	<10	8	44	0.17
1721	689846	<1	8.21	3	63	1	3	3.75	<4	6	320	7	1.70	1.07	23	1.39	597	3	45	121	5	<5	13	<10	89	257	11	15	<10	8	27	<0.10
1722	689847	<1	>10.00	4	98	1	4	4.18	<4	12	309	29	3.29	1.12	28	1.40	704	3	51	238	11	<5	15	<10	143	480	5	41	<10	9	48	<0.10
1723	689848	<1	>10.00	<2	166	1	3	5.05	<4	21	117	53	4.24	1.24	34	1.34	709	3	86	603	12	<5	13	<10	244	659	2	93	<10	13	74	<0.10
1724	689849	<1	>10.00	2	65	1	4	1.65	<4	19	101	35	4.27	1.50	36	1.72	593	2	81	602	13	5	11	<10	101	523	5	91	<10	12	79	<0.10
1725	689850	<1	>10.00	10	207	2	4	5.94	<4	9	270	40	2.00	1.16	28	0.60	283	4	58	203	10	6	27	<10	236	1054	6	49	<10	11	24	<0.10
1726	689850	<1	>10.00	10	195	1	2	5.65	<4	9	258	37	1.89	1.34	26	0.56	270	4	49	193	8	9	23	<10	223	991	1	46	<10	10	16	<0.10
1727	689851	<1	>10.00	4	133	2	5	4.27	<4	27	85	35	6.78	1.19	29	0.70	559	2	111	286	18	<5	9	<10	165	645	2	85	<10	12	42	2.51
1728	689852	<1	>10.00	5	90	1	7	7.19	<4	8	209	105	1.54	1.21	31	0.82	592	3	46	395	5	7	20	<10	225	406	5	50	<10	9	25	<0.10
1729	689854	<1	>10.00	4	72	1	1	3.68	<4	13	178	129	2.68	1.14	29	1.37	411	3	67	412	8	<5	13	<10	215	1941	23	62	<10	12	42	<0.10
1730	689855	<1	>10.00	10	82	2	1	5.81	<4	23	175	149	4.20	1.25	32	1.97	654	3	95	533	11	<5	20	<10	331	3198	8	89	<10	16	61	<0.10
1731	689856	<1	>10.00	13	98	2	2	3.97	<4	16	78	36	2.87	1.57	36	1.12	612	3	62	461	12	6	19	<10	303	2903	2	68	<10	15	77	<0.10
1732	689857	<1	>10.00	5	194	2	4	1.87	<4	19	134	26	3.67	1.22	27	1.04	575	3	85	401	12	<5	6	<10	145	550	1	90	<10	9	48	0.24
1733	689858	<1	>10.00	9	73	1	4	2.14	<4	19	146	36	4.30	1.06	30	1.30	569	17	73	493	17	<5	15	<10	179	400	5	86	<10	10	68	0.23
1734	689859	<1	>10.00	11	168	1	2	2.26	<4	18	164	16	3.75	1.11	27	1.13	485	15	74	358	18	<5	13	<10	193	423	5	71	<10	10	54	0.75
1735	689860	<1	9.36	6	310	2	1	>10.00	<4	2	80	3	0.35	1.17	28	0.41	665	7	26	103	15	<5	21	<10	312	334	19	41	<10	8	19	<0.10
1736	689861	<1	>10.00	8	142	2	3	2.25	<4	14	112	33	3.19	1.35	29	0.62	552	3	43	577	8	6	23	<10	122	685	<1	94	<10	11	56	<0.10
1737	689861	<1	>10.00	10	139	2	3	2.31	<4	15	120	38	3.42	1.13	33	0.60	572	4	53	634	12	<5	16	<10	129	750	<1	101	<10	11	61	<0.10

Certified By:   
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Aito Ventures Ltd.  
Date Created: 09-07-09 09:59:33 AM  
Job Number: 200910020  
Date Received: Jun 24, 2009  
Number of Samples: 60  
Type of Sample: Rock  
Date Completed: Jul 3, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1738	689862	<1	>10.00	3	245	2	2	1.52	<4	11	57	8	2.60	1.00	34	1.06	280	3	40	410	6	<5	20	<10	178	483	5	51	<10	14	45	<0.10
1739	689863	<1	>10.00	5	266	1	4	1.60	<4	11	117	5	2.80	1.42	28	0.85	374	2	28	423	7	<5	19	<10	178	471	3	60	<10	14	53	<0.10
1740	689865	<1	>10.00	3	393	1	2	2.05	<4	15	84	20	3.39	1.10	29	1.11	474	3	47	526	9	6	21	<10	304	570	4	79	<10	12	61	<0.10
1741	689866	<1	>10.00	5	194	1	3	1.78	<4	10	155	4	2.37	1.22	26	0.79	539	3	41	447	9	<5	25	<10	179	347	1	40	<10	15	47	<0.10
1742	689867	<1	7.41	2	76	1	<1	1.25	<4	3	197	6	0.91	1.40	21	0.40	163	3	37	<100	8	<5	13	<10	59	241	1	9	<10	7	15	<0.10
1743	689867A	<1	>10.00	3011	348	2	3	2.37	<4	12	42	57	7.56	1.59	31	0.98	524	6	34	595	61	<5	<5	<10	300	1922	3	68	<10	13	70	0.55
1744	689868	<1	>10.00	3	99	2	6	1.71	<4	8	352	14	2.11	1.28	27	0.53	371	5	32	194	7	<5	21	<10	107	425	<1	21	<10	11	34	<0.10
1745	689869	<1	>10.00	6	194	2	2	1.75	<4	5	80	16	2.18	1.26	28	0.36	262	3	40	460	9	<5	17	<10	167	539	2	50	<10	12	39	<0.10
1746	689870	<1	>10.00	3	206	2	3	5.18	<4	14	43	15	3.37	1.16	30	1.23	897	4	41	342	15	<5	21	<10	158	488	9	49	<10	16	55	0.16
1747	689870	<1	>10.00	6	246	2	6	6.09	<4	17	50	20	3.91	1.20	33	1.46	1040	4	51	393	14	6	22	<10	186	611	20	58	<10	19	59	0.18
1748	689871	<1	>10.00	4	72	2	2	8.27	<4	15	161	39	5.94	1.29	33	1.79	1401	4	63	258	12	<5	12	<10	173	342	16	37	<10	11	61	<0.10
1749	689872	<1	>10.00	2	133	1	4	1.68	<4	9	87	2	2.20	1.35	26	0.78	372	3	36	358	8	<5	18	<10	192	428	7	30	<10	15	38	<0.10
1750	689873	<1	>10.00	<2	148	2	3	1.75	<4	5	100	4	1.43	1.27	25	0.64	469	4	40	201	9	<5	18	<10	132	286	4	25	<10	10	23	<0.10
1751	689874	<1	>10.00	9	181	1	3	2.11	<4	11	91	31	2.69	1.40	23	0.70	423	4	31	429	13	<5	16	<10	185	421	4	56	<10	15	43	0.43
1752	689875	<1	>10.00	7	148	<1	4	2.49	<4	8	105	82	2.20	1.72	17	0.54	663	4	18	276	9	<5	22	<10	130	351	<1	27	<10	10	21	0.25
1753	689876	<1	8.88	3	115	1	3	2.78	<4	6	167	9	1.68	1.81	24	0.84	399	2	31	204	7	<5	10	<10	124	323	4	20	<10	9	28	<0.10
1754	689877	<1	>10.00	4	255	2	3	1.37	<4	12	121	17	2.43	1.43	26	0.74	265	2	34	495	8	<5	17	<10	185	430	5	59	<10	14	60	<0.10
1755	689878	<1	8.90	3	111	1	2	1.16	<4	5	219	3	1.17	1.57	26	0.63	138	3	35	465	7	6	17	<10	98	314	5	23	<10	9	20	<0.10
1756	689879	<1	>10.00	5	204	2	<1	2.58	<4	9	47	31	2.33	1.15	25	0.63	370	3	40	401	6	<5	20	<10	188	540	3	49	<10	13	44	<0.10
1757	689879	<1	>10.00	5	208	2	3	2.73	<4	9	50	34	2.49	1.04	29	0.64	392	3	47	438	10	<5	18	<10	201	566	5	54	<10	13	53	<0.10
1758	689880	<1	>10.00	4	158	2	3	2.87	<4	9	68	16	2.66	1.30	26	0.73	506	4	56	395	11	5	19	<10	157	660	2	55	<10	15	45	<0.10
1759	689881	<1	>10.00	3	176	2	3	1.98	<4	13	79	11	2.80	1.22	28	0.44	339	3	39	372	9	<5	24	<10	161	517	8	57	<10	13	64	<0.10

Certified By: *D. Demianiuk*  
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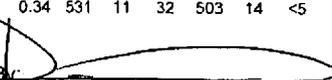
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Alto Ventures Ltd.  
Date Created: 09-07-16 11:11:48 AM  
Job Number: 200910021  
Date Received: Jul 2, 2009  
Number of Samples: 34  
Type of Sample: Core  
Date Completed: Jul 9, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
\* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.  
\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1760	755018	<1	7.53	7	296	2	<1	3.19	<4	15	77	33	3.43	1.47	31	0.49	520	11	38	562	10	<5	11	<10	182	435	<1	95	<10	5	98	0.40
1761	755019	<1	7.53	8	231	2	1	5.06	<4	10	304	17	2.58	1.47	31	0.67	649	12	22	375	16	<5	17	<10	214	418	<1	56	<10	7	44	0.54
1762	755020	<1	8.05	7	228	2	19	3.22	<4	14	55	27	3.39	1.50	30	0.61	586	11	27	576	17	<5	12	<10	209	432	73	90	<10	5	69	0.45
1763	755021	<1	8.15	5	223	2	15	3.38	<4	14	71	28	3.51	1.65	30	0.51	634	10	29	580	15	<5	12	<10	187	398	139	93	<10	5	68	0.42
1764	755022	<1	8.67	4	258	2	29	3.26	<4	15	67	83	3.60	1.72	37	0.39	521	12	31	574	15	<5	15	<10	194	367	177	100	<10	5	72	0.42
1765	755023	<1	7.85	7	280	2	13	2.51	<4	15	96	24	3.59	1.63	35	0.44	609	13	24	610	16	<5	13	<10	222	396	163	96	<10	5	71	0.48
1766	755024	<1	7.56	6	254	2	13	2.60	<4	14	98	124	3.39	1.60	29	0.55	543	11	44	561	20	<5	11	<10	196	523	244	92	<10	4	94	0.39
1767	755025	<1	7.66	3	260	2	26	3.51	<4	14	190	100	3.18	1.51	32	0.65	563	13	44	427	13	<5	5	<10	215	542	144	76	<10	4	80	0.40
1768	755026	<1	8.09	4	213	2	33	3.76	<4	14	56	21	3.38	1.66	33	0.48	638	12	24	557	20	<5	14	<10	200	435	179	84	<10	5	64	0.54
1769	755027	<1	7.72	5	228	1	19	3.53	<4	13	110	138	3.28	1.48	30	0.44	581	12	51	529	15	<5	6	<10	200	536	166	87	<10	5	86	0.44
1770	755027	<1	7.94	7	223	2	24	3.52	<4	13	104	136	3.20	1.52	29	0.46	587	11	54	522	13	<5	14	<10	197	524	110	84	<10	5	84	0.39
1771	755028	<1	7.34	6	247	2	15	3.63	<4	12	52	42	3.19	1.46	31	0.31	570	12	27	520	13	<5	8	<10	184	422	216	83	<10	5	58	0.40
1772	755029	<1	7.79	7	283	2	18	3.39	<4	15	78	91	3.52	1.56	33	0.39	632	12	44	580	16	<5	<5	<10	185	467	216	93	<10	5	86	0.48
1773	755030	<1	6.77	9	272	2	16	2.10	<4	13	94	97	3.41	1.50	32	0.28	636	13	28	516	19	6	<5	<10	168	402	208	91	<10	4	63	0.52
1774	755031	<1	7.94	8	275	2	20	2.63	<4	14	39	75	3.45	1.59	35	0.39	532	12	31	566	16	<5	15	<10	183	380	89	97	<10	4	81	0.37
1775	755032	<1	8.21	5	269	2	9	2.91	<4	14	23	29	3.04	1.76	34	0.52	481	12	31	521	15	<5	11	<10	188	422	173	91	<10	4	64	0.41
1776	755033	<1	8.20	4	282	2	2	3.46	<4	13	47	33	3.27	1.56	33	0.53	517	13	22	545	14	5	12	<10	178	429	133	88	<10	5	80	0.43
1777	755034	<1	8.53	5	274	2	11	3.46	<4	13	27	77	3.16	1.57	36	0.50	518	13	28	563	17	<5	6	<10	210	463	24	94	<10	5	100	0.52
1778	755035	<1	7.69	6	251	2	13	4.16	<4	16	43	27	3.47	1.74	32	0.44	599	11	29	532	21	<5	13	<10	184	364	260	87	<10	5	81	0.39
1779	755036	<1	7.00	6	277	2	22	3.11	<4	14	32	79	3.18	1.48	33	0.36	525	11	33	534	12	5	<5	<10	187	383	183	91	<10	4	76	0.42
1780	755037	<1	7.34	6	278	2	18	3.07	<4	14	21	24	3.02	1.55	33	0.34	499	12	30	480	14	<5	<5	<10	187	391	154	88	<10	4	62	0.37
1781	755037	<1	7.01	4	288	2	17	3.36	<4	14	24	27	3.20	1.50	32	0.34	531	11	32	503	14	<5	<5	<10	198	357	124	92	<10	4	63	0.34

Certified By:   
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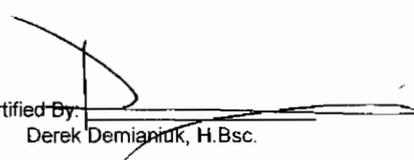
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Alto Ventures Ltd.  
Date Created: 09-07-16 11:11:48 AM  
Job Number: 200910021  
Date Received: Jul 2, 2009  
Number of Samples: 34  
Type of Sample: Core  
Date Completed: Jul 9, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1782	755038	<1	7.48	7	300	2	21	3.06	<4	14	37	47	3.24	1.58	33	0.33	531	11	34	629	19	<5	8	<10	204	398	169	91	<10	4	72	0.35
1783	755039	<1	7.18	6	341	2	21	1.90	<4	11	135	10	2.96	1.64	28	0.34	544	13	22	381	14	<5	<5	<10	151	394	169	53	<10	6	51	0.41
1784	755040	<1	7.50	2	306	1	10	1.73	<4	9	97	4	2.42	1.63	27	0.36	458	13	26	382	8	<5	10	<10	147	408	292	44	<10	5	58	0.44
1785	755041	<1	7.60	<2	312	2	18	1.69	<4	10	120	40	2.63	1.55	26	0.32	485	12	26	399	12	<5	15	<10	158	400	176	50	<10	5	66	0.39
1786	755041A	7	>10.00	65	599	2	14	2.60	7	25	95	1191	5.29	1.58	24	1.65	760	48	167	619	242	11	12	20	220	2532	70	125	15	14	648	0.19
1787	755042	<1	8.57	4	315	1	17	1.90	<4	9	156	27	2.45	1.62	23	0.32	503	10	20	379	16	<5	11	<10	162	358	104	49	<10	7	61	0.31
1788	755043	<1	7.71	7	417	1	19	1.86	<4	12	195	19	2.87	1.59	31	0.30	617	13	23	375	15	<5	10	<10	180	359	156	48	<10	7	72	0.36
1789	755044	<1	7.71	6	266	2	18	1.50	<4	11	127	27	2.70	1.52	30	0.27	506	12	22	403	13	<5	11	<10	164	398	135	52	<10	7	60	0.36
1790	755045	<1	7.90	<2	319	1	19	1.65	<4	9	82	12	2.21	1.45	29	0.31	488	11	18	394	12	<5	12	<10	177	369	175	51	<10	7	55	0.39
1791	755046	<1	8.00	4	298	2	21	1.91	<4	9	261	18	2.44	1.39	34	0.32	517	13	23	391	13	<5	17	<10	175	391	169	49	<10	7	50	0.36
1792	755046	<1	7.46	3	294	1	1	1.90	<4	9	259	19	2.45	1.50	31	0.29	519	12	20	388	14	<5	9	<10	171	359	131	49	<10	7	52	0.36
1793	755047	<1	7.49	3	293	2	9	1.66	<4	9	107	31	2.34	1.69	29	0.33	441	11	19	361	16	<5	9	<10	163	389	179	48	<10	6	60	0.31
1794	755048	<1	8.23	6	346	1	24	2.12	<4	11	225	11	3.12	1.59	27	0.21	692	14	25	377	10	<5	13	<10	138	348	107	52	<10	7	59	0.39
1795	755049	<1	7.82	5	214	2	21	2.32	<4	13	94	29	2.90	1.62	40	0.45	561	12	30	430	10	<5	10	<10	203	421	201	76	<10	4	65	0.35
1796	755050	<1	8.15	6	230	2	17	2.37	<4	16	95	29	3.51	1.54	39	0.75	696	12	34	428	19	5	10	<10	187	394	129	76	<10	5	79	0.38

Certified By:   
Derek Demianuk, H.Bsc.

## Certificate of Analysis

Friday, July 17, 2009

Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 8, 2009

Date Completed: Jul 17, 2009

Job #: 200941523

Reference:

Sample #: 70 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
113340	755083	22	<0.001	0.022
113341	755084	66	0.002	0.066
113342	755085	14	<0.001	0.014
113343	755086	11	<0.001	0.011
113344	755087	8	<0.001	0.008
113345	755088	34	<0.001	0.034
113346	755089	190	0.006	0.190
113347	755090	217	0.006	0.217
113348	755091	35	0.001	0.035
113349	755092	174	0.005	0.174
113350 Dup	755092	184	0.005	0.184
113351	755093	6	<0.001	0.006
113352	755094	471	0.014	0.471
113353	755095	17	<0.001	0.017
113354	755096	12	<0.001	0.012
113355	755097	11	<0.001	0.011
113356	755098	49	0.001	0.049
113357	755099	1356	0.040	1.356
113358	755100	349	0.010	0.349
113359	755101	414	0.012	0.414
113360	755102	28	<0.001	0.028
113361 Dup	755102	26	<0.001	0.026
113362	755103	7	<0.001	0.007
113363	755104	<5	<0.001	<0.005

**Certificate of Analysis**

Friday, July 17, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 8, 2009

Date Completed: Jul 17, 2009

Job #: 200941523

Reference:

Sample #: 70 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
113364	755104A	754	0.022	0.754
113365	755105	<5	<0.001	<0.005
113366	755106	6	<0.001	0.006
113367	755107	10	<0.001	0.010
113368	755108	1056	0.031	1.056
113369	755109	17	<0.001	0.017
113370	755110	570	0.017	0.570
113371	755111	282	0.008	0.282
113372	755112	47	0.001	0.047
113373 Dup	755112	58	0.002	0.058
113374	755113	10	<0.001	0.010
113375	755114	3427	0.100	3.427
113376	755115	1847	0.054	1.847
113377	755116	54	0.002	0.054
113378	755117	2745	0.080	2.745
113379	755118	54	0.002	0.054
113380	755119	280	0.008	0.280
113381	755120	2833	0.083	2.833
113382	755121	4293	0.125	4.293
113383	755122	1858	0.054	1.858
113384 Dup	755122	1868	0.054	1.868
113385	755123	1556	0.045	1.556
113386	755124	877	0.026	0.877
113387	755125	3155	0.092	3.155

**Certificate of Analysis**

Friday, July 17, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 8, 2009

Date Completed: Jul 17, 2009

Job #: 200941523

Reference:

Sample #: 70 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
113388	755126	117	0.003	0.117
113389	755127	571	0.017	0.571
113390	755128	34	0.001	0.034
113391	755129	40	0.001	0.040
113392	755129A	753	0.022	0.753
113393	755130	10	<0.001	0.010
113394	755131	322	0.009	0.322
113395	755132	13	<0.001	0.013
113396 Dup	755132	11	<0.001	0.011
113397	755133	59	0.002	0.059
113398	755134	458	0.013	0.458
113399	755135	34	<0.001	0.034
113400	755136	650	0.019	0.650
113401	755137	315	0.009	0.315
113402	755138	288	0.008	0.288
113403	755139	1517	0.044	1.517
113404	755140	333	0.010	0.333
113405	755141	1184	0.035	1.184
113406	755142	162	0.005	0.162
113407 Rep	755142	160	0.005	0.160
113408	755143	221	0.006	0.221
113409	755144	33	<0.001	0.033
113410	755145	51	0.001	0.051
113411	755146	12	<0.001	0.012

**Certificate of Analysis**

Friday, July 17, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 8, 2009  
 Date Completed: Jul 17, 2009  
 Job #: 200941523  
 Reference:  
 Sample #: 70 Core

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
113412	755147	8	<0.001	0.008
113413	755148	<5	<0.001	<0.005
113414	755149	7	<0.001	0.007
113415	755150	7	<0.001	0.007

PROCEDURE CODES: ALFA1, ALICPMA, ALS



Derek Demianiuk H.Bsc., Laboratory Manager

Certified By:

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## Certificate of Analysis

Friday, July 24, 2009

Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 10, 2009  
 Date Completed: Jul 24, 2009

Job #: 200910023

Reference:

Sample #: 65 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1800	755006	323	0.009	0.323
1801	755007	<5	<0.001	<0.005
1802	755008	<5	<0.001	<0.005
1803	755009	<5	<0.001	<0.005
1804	755010	<5	<0.001	<0.005
1805	755011	<5	<0.001	<0.005
1806	755012	<5	<0.001	<0.005
1807	755013	<5	<0.001	<0.005
1808	755014	<5	<0.001	<0.005
1809	755015	<5	<0.001	<0.005
1810 Dup	755015	<5	<0.001	<0.005
1811	755016	<5	<0.001	<0.005
1812	755017	<5	<0.001	<0.005
1813	755051	<5	<0.001	<0.005
1814	755052	<5	<0.001	<0.005
1815	755053	<5	<0.001	<0.005
1816	755054	<5	<0.001	<0.005
1817	755054A	769	0.022	0.769
1818	755055	<5	<0.001	<0.005
1819	755056	<5	<0.001	<0.005
1820 Dup	755056	6	<0.001	0.006
1821	755057	<5	<0.001	<0.005
1822	755058	<5	<0.001	<0.005
1823	755059	<5	<0.001	<0.005

**Certificate of Analysis**

Friday, July 24, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 10, 2009

Date Completed: Jul 24, 2009

Job #: 200910023

Reference:

Sample #: 65 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1824	755060	<5	<0.001	<0.005
1825	755061	<5	<0.001	<0.005
1826	755062	<5	<0.001	<0.005
1827	755063	<5	<0.001	<0.005
1828	755064	<5	<0.001	<0.005
1829	755065	<5	<0.001	<0.005
1830	755066	<5	<0.001	<0.005
1831 Dup	755066	<5	<0.001	<0.005
1832	755067	<5	<0.001	<0.005
1833	755068	<5	<0.001	<0.005
1834	755069	<5	<0.001	<0.005
1835	755070	7	<0.001	0.007
1836	755071	<5	<0.001	<0.005
1837	755072	<5	<0.001	<0.005
1838	755073	<5	<0.001	<0.005
1839	755074	<5	<0.001	<0.005
1840	755075	<5	<0.001	<0.005
1841	755076	<5	<0.001	<0.005
1842 Dup	755076	<5	<0.001	<0.005
1843	755077	<5	<0.001	<0.005
1844	755078	<5	<0.001	<0.005
1845	755079	34	0.001	0.034
1846	755079A	668	0.019	0.668
1847	755080	<5	<0.001	<0.005

**Certificate of Analysis**

Friday, July 24, 2009

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 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 10, 2009  
 Date Completed: Jul 24, 2009  
 Job #: 200910023  
 Reference:  
 Sample #: 65 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1848	755081	7	<0.001	0.007
1849	755082	6	<0.001	0.006
1850	755151	2262	0.066	2.262
1851	755152	<5	<0.001	<0.005
1852	755153	<5	<0.001	<0.005
1853	755154	<5	<0.001	<0.005
1854 Dup	755154	<5	<0.001	<0.005
1855	755154A	683	0.020	0.683
1856	755155	17	<0.001	0.017
1857	755156	<5	<0.001	<0.005
1858	755157	<5	<0.001	<0.005
1859	755158	249	0.007	0.249
1860	755159	27	<0.001	0.027
1861	755160	<5	<0.001	<0.005
1862	755161	<5	<0.001	<0.005
1863	755162	<5	<0.001	<0.005
1864	755163	<5	<0.001	<0.005
1865 Rep	755163	<5	<0.001	<0.005
1866	755164	<5	<0.001	<0.005
1867	755165	<5	<0.001	<0.005
1868	755166	<5	<0.001	<0.005
1869	755167	262	0.008	0.262
1870	755168	45	0.001	0.045

**Certificate of Analysis**

Friday, July 24, 2009

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P3E5P5  
Ph#: (705) 522-6372  
Fax#: (705) 522-8856  
Email#: koziol@altoventures.comDate Received: Jul 10, 2009  
Date Completed: Jul 24, 2009  
Job #: 200910023  
Reference:  
Sample #: 65 Rock

Acc #

Client ID

Au  
ppbAu  
oz/tAu  
g/t (ppm)

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



Derek Demianiuk H.Bsc., Laboratory Manager

The results included on this report relate only to the items tested  
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**Certificate of Analysis**

Friday, July 31, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 22, 2009

Date Completed: Jul 31, 2009

Job #: 200910026

Reference:

Sample #: 39 Channel

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1884	755169	77	0.002	0.077
1885	755170	<5	<0.001	<0.005
1886	755171	17	<0.001	0.017
1887	755172	7	<0.001	0.007
1888	755173	130	0.004	0.130
1889	755174	16	<0.001	0.016
1890	755175	22	<0.001	0.022
1891	755176	25	<0.001	0.025
1892	755177	<5	<0.001	<0.005
1893	755178	<5	<0.001	<0.005
1894 Dup	755178	<5	<0.001	<0.005
1895	755201	<5	<0.001	<0.005
1896	755202	<5	<0.001	<0.005
1897	755203	28	<0.001	0.028
1898	755204	1106	0.032	1.106
1899	755205	104	0.003	0.104
1900	755206	73	0.002	0.073
1901	755207	<5	<0.001	<0.005
1902	755208	<5	<0.001	<0.005
1903 Dup	755208	<5	<0.001	<0.005
1904	755209	<5	<0.001	<0.005
1905	755210	<5	<0.001	<0.005
1906	755211	<5	<0.001	<0.005
1907	755212	<5	<0.001	<0.005

## Certificate of Analysis

Friday, July 31, 2009

Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 22, 2009  
 Date Completed: Jul 31, 2009

Job #: 200910026

Reference:

Sample #: 39 Channel

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
1908	755213	<5	<0.001	<0.005
1909	755214	<5	<0.001	<0.005
1910	755215	23	<0.001	0.023
1911	755215A	730	0.021	0.730
1912	755216	109	0.003	0.109
1913	755217	<5	<0.001	<0.005
1914 Dup	755217	<5	<0.001	<0.005
1915	755218	<5	<0.001	<0.005
1916	755219	43	0.001	0.043
1917	755220	<5	<0.001	<0.005
1918	755221	<5	<0.001	<0.005
1919	755222	<5	<0.001	<0.005
1920	755223	<5	<0.001	<0.005
1921	755224	6	<0.001	0.006
1922	755225	<5	<0.001	<0.005
1923	755226	<5	<0.001	<0.005
1924	755227	<5	<0.001	<0.005
1925 Dup	755227	<5	<0.001	<0.005
1926	755228	<5	<0.001	<0.005

## Certificate of Analysis

Friday, July 31, 2009

Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 22, 2009

Date Completed: Jul 31, 2009

Job #: 200910026

Reference:

Sample #: 39 Channel

Acc #

Client ID

Au  
ppb

Au  
oz/t

Au  
g/t (ppm)

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



Derek Demianiuk H.Bsc., Laboratory Manager

The results included on this report relate only to the items tested  
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AL903-0519-07/31/2009 12:51 PM

**Certificate of Analysis**

Tuesday, August 11, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 22, 2009  
 Date Completed: Jul 31, 2009

Job #: 200910026

Reference:

Sample #: 39 Channel

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
1884	755169	77										
1885	755170	<5										
1886	755171	17										
1887	755172	7										
1888	755173	130										
1889	755174	16										
1890	755175	22										
1891	755176	25										
1892	755177	<5										
1893	755178	<5										
1894	Dup 755178	<5										
1895	755201	<5										
1896	755202	<5										
1897	755203	28										
1898	755204	1106										
1899	755205	104										
1900	755206	73										
1901	755207	<5										
1902	755208	<5										
1903	Dup 755208	<5										
1904	755209	<5										
1905	755210	<5										
1906	755211	<5										
1907	755212	<5										
1908	755213	<5										

**Certificate of Analysis**

Tuesday, August 11, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 22, 2009

Date Completed: Jul 31, 2009

Job #: 200910026

Reference:

Sample #: 39 Channel

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
1909	755214	<5										
1910	755215	23						15018				
1911	755215A	730										
1912	755216	109						10391			13176	21144
1913	755217	<5										
1914	Dup 755217	<5										
1915	755218	<5										
1916	755219	43										10737
1917	755220	<5										
1918	755221	<5										
1919	755222	<5										
1920	755223	<5										
1921	755224	6										
1922	755225	<5										
1923	755226	<5										
1924	755227	<5										
1925	Dup 755227	<5										
1926	755228	<5										

**Certificate of Analysis**

Tuesday, August 11, 2009

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 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 22, 2009

Date Completed: Jul 31, 2009

Job #: 200910026

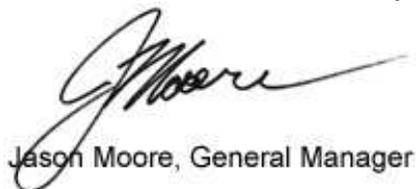
Reference:

Sample #: 39 Channel

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
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PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:


  
 Jason Moore, General Manager

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AL917-0519-08/11/2009 9:29 AM

## Certificate of Analysis

Friday, August 7, 2009

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 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 28, 2009

Date Completed: Aug 7, 2009

Job #: 200941667

Reference:

Sample #: 82 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
122484	755229	<5	<0.001	<0.005
122485	755230	<5	<0.001	<0.005
122486	755231	<5	<0.001	<0.005
122487	755232	<5	<0.001	<0.005
122488	755233	<5	<0.001	<0.005
122489	755234	<5	<0.001	<0.005
122490	755235	<5	<0.001	<0.005
122491	755236	<5	<0.001	<0.005
122492	755237	<5	<0.001	<0.005
122493	755238	<5	<0.001	<0.005
122494 Dup	755238	<5	<0.001	<0.005
122495	755239	<5	<0.001	<0.005
122496	755240	<5	<0.001	<0.005
122497	755241	<5	<0.001	<0.005
122498	755242	<5	<0.001	<0.005
122499	755243	<5	<0.001	<0.005
122500	755244	<5	<0.001	<0.005
122501	755245	<5	<0.001	<0.005
122502	755246	<5	<0.001	<0.005
122503	755247	6	<0.001	0.006
122504	755248	65	0.002	0.065
122505 Dup	755248	53	0.002	0.053
122506	755249	<5	<0.001	<0.005
122507	755250	12	<0.001	0.012

**Certificate of Analysis**

Friday, August 7, 2009

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 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 28, 2009

Date Completed: Aug 7, 2009

Job #: 200941667

Reference:

Sample #: 82 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
122508	755251	<5	<0.001	<0.005
122509	755252	<5	<0.001	<0.005
122510	755253	8	<0.001	0.008
122511	755253A	635	0.019	0.635
122512	755254	13	<0.001	0.013
122513	755255	<5	<0.001	<0.005
122514	755256	5	<0.001	0.005
122515	755257	<5	<0.001	<0.005
122516 Dup	755257	7	<0.001	0.007
122517	755258	<5	<0.001	<0.005
122518	755259	<5	<0.001	<0.005
122519	755260	<5	<0.001	<0.005
122520	755261	<5	<0.001	<0.005
122521	755262	<5	<0.001	<0.005
122522	755263	<5	<0.001	<0.005
122523	755264	6	<0.001	0.006
122524	755265	<5	<0.001	<0.005
122525	755266	<5	<0.001	<0.005
122526	755267	<5	<0.001	<0.005
122527 Dup	755267	<5	<0.001	<0.005
122528	755268	<5	<0.001	<0.005
122529	755269	<5	<0.001	<0.005
122530	755270	7	<0.001	0.007
122531	755271	<5	<0.001	<0.005

## Certificate of Analysis

Friday, August 7, 2009

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Fax#: (705) 522-8856  
Email#: koziol@altoventures.com

Date Received: Jul 28, 2009  
Date Completed: Aug 7, 2009  
Job #: 200941667  
Reference:  
Sample #: 82 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
122532	755272	<5	<0.001	<0.005
122533	755273	<5	<0.001	<0.005
122534	755274	24	<0.001	0.024
122535	755275	12	<0.001	0.012
122536	755276	77	0.002	0.077
122537	755277	<5	<0.001	<0.005
122538	Dup 755277	<5	<0.001	<0.005
122539	755278	<5	<0.001	<0.005
122540	755278A	1619	0.047	1.619
122541	755279	<5	<0.001	<0.005
122542	755280	<5	<0.001	<0.005
122543	755281	<5	<0.001	<0.005
122544	755282	<5	<0.001	<0.005
122545	755283	<5	<0.001	<0.005
122546	755284	<5	<0.001	<0.005
122547	755285	<5	<0.001	<0.005
122548	755286	<5	<0.001	<0.005
122549	755287	<5	<0.001	<0.005
122550	Dup 755287	<5	<0.001	<0.005
122551	755288	<5	<0.001	<0.005
122552	755289	<5	<0.001	<0.005
122553	755290	<5	<0.001	<0.005
122554	755291	<5	<0.001	<0.005
122555	755292	<5	<0.001	<0.005

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Friday, August 7, 2009

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 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 28, 2009  
 Date Completed: Aug 7, 2009  
 Job #: 200941667  
 Reference:  
 Sample #: 82 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
122556	755293	<5	<0.001	<0.005
122557	755294	<5	<0.001	<0.005
122558	755295	<5	<0.001	<0.005
122559	755296	<5	<0.001	<0.005
122560	755297	8	<0.001	0.008
122561 Dup	755297	15	<0.001	0.015
122562	755298	<5	<0.001	<0.005
122563	755299	<5	<0.001	<0.005
122564	755300	<5	<0.001	<0.005
122565	755301	<5	<0.001	<0.005
122566	755302	235	0.007	0.235
122567	755303	36	0.001	0.036
122568	755303A	1646	0.048	1.646
122569	755304	9	<0.001	0.009
122570	755305	<5	<0.001	<0.005
122571	755306	6	<0.001	0.006
122572	755307	<5	<0.001	<0.005

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



Derek Demianiuk H.Bsc., Laboratory Manager

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AL903-0519-08/07/2009 12:23 PM

**Certificate of Analysis**

Friday, August 14, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Jul 28, 2009

Date Completed: Aug 7, 2009

Job #: 200941667

Reference:

Sample #: 82 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
122484	755229	<5										
122485	755230	<5										
122486	755231	<5										
122487	755232	<5										
122488	755233	<5										
122489	755234	<5										
122490	755235	<5										
122491	755236	<5										
122492	755237	<5										
122493	755238	<5										
122494	Dup 755238	<5										
122495	755239	<5										
122496	755240	<5										
122497	755241	<5										
122498	755242	<5										
122499	755243	<5										
122500	755244	<5										
122501	755245	<5										
122502	755246	<5										
122503	755247	6										
122504	755248	65						44810				
122505	Dup 755248	53						43909				
122506	755249	<5										
122507	755250	12						17298				

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Friday, August 14, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
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 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Jul 28, 2009  
 Date Completed: Aug 7, 2009  
 Job #: 200941667  
 Reference:  
 Sample #: 82 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
122508	755251	<5										
122509	755252	<5										
122510	755253	8										
122511	755253A	635										
122512	755254	13										
122513	755255	<5										
122514	755256	5										
122515	755257	<5										
122516	Dup 755257	7										
122517	755258	<5										
122518	755259	<5										
122519	755260	<5										
122520	755261	<5										
122521	755262	<5										
122522	755263	<5										
122523	755264	6										
122524	755265	<5										
122525	755266	<5										
122526	755267	<5										
122527	Dup 755267	<5										
122528	755268	<5										
122529	755269	<5										
122530	755270	7										
122531	755271	<5										

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Friday, August 14, 2009

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 Date Received: Jul 28, 2009  
 Date Completed: Aug 7, 2009  
 Job #: 200941667  
 Reference:  
 Sample #: 82 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
122532	755272	<5										
122533	755273	<5										
122534	755274	24										
122535	755275	12										
122536	755276	77										
122537	755277	<5										
122538	Dup 755277	<5										
122539	755278	<5										
122540	755278A	1619						8389				
122541	755279	<5										
122542	755280	<5										
122543	755281	<5										
122544	755282	<5										
122545	755283	<5										
122546	755284	<5										
122547	755285	<5										
122548	755286	<5										
122549	755287	<5										
122550	Dup 755287	<5										
122551	755288	<5										
122552	755289	<5										
122553	755290	<5										
122554	755291	<5										
122555	755292	<5										

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Date Received: Jul 28, 2009

Date Completed: Aug 7, 2009

Job #: 200941667

Reference:

Sample #: 82 Rock

Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
122556	755293	<5										
122557	755294	<5										
122558	755295	<5										
122559	755296	<5										
122560	755297	8										
122561	Dup 755297	15										
122562	755298	<5										
122563	755299	<5										
122564	755300	<5										
122565	755301	<5										
122566	755302	235						9485				
122567	755303	36										
122568	755303A	1646						8103				
122569	755304	9										
122570	755305	<5										
122571	755306	6										
122572	755307	<5										

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 Email#: koziol@altoventures.com

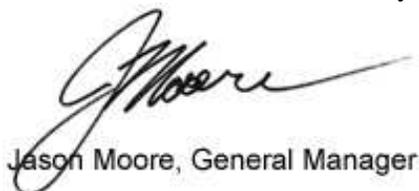
 Date Received: Jul 28, 2009  
 Date Completed: Aug 7, 2009  
 Job #: 200941667  
 Reference:  
 Sample #: 82 Rock

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Acc #	Client ID	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
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PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:



Jason Moore, General Manager

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AL917-0519-08/14/2009 9:16 AM

## Certificate of Analysis

Thursday, August 20, 2009

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 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Aug 10, 2009

Date Completed: Aug 20, 2009

Job #: 200941820

Reference:

Sample #: 97 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
128883	755308	<5	<0.001	<0.005
128884	755309	33	<0.001	0.033
128885	755310	267	0.008	0.267
128886	755311	3221	0.094	3.221
128887	755312	11	<0.001	0.011
128888	755313	7	<0.001	0.007
128889	755314	<5	<0.001	<0.005
128890	755315	6	<0.001	0.006
128891	755316	6	<0.001	0.006
128892	Dup 755316	6	<0.001	0.006
128893	755317	6	<0.001	0.006
128894	755318	<5	<0.001	<0.005
128895	755319	<5	<0.001	<0.005
128896	755320	13	<0.001	0.013
128897	755321	<5	<0.001	<0.005
128898	755322	<5	<0.001	<0.005
128899	755323	<5	<0.001	<0.005
128900	755324	<5	<0.001	<0.005
128901	755325	<5	<0.001	<0.005
128902	755326	22	<0.001	0.022
128903	Dup 755326	<5	<0.001	<0.005
128904	755327	47	0.001	0.047
128905	755327A	672	0.020	0.672
128906	755328	<5	<0.001	<0.005

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Thursday, August 20, 2009

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 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Aug 10, 2009  
 Date Completed: Aug 20, 2009

Job #: 200941820

Reference:

Sample #: 97 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
128907	755329	58	0.002	0.058
128908	755330	<5	<0.001	<0.005
128909	755331	57	0.002	0.057
128910	755332	<5	<0.001	<0.005
128911	755333	22	<0.001	0.022
128912	755334	8	<0.001	0.008
128913	755335	<5	<0.001	<0.005
128914	755336	<5	<0.001	<0.005
128915 Dup	755336	<5	<0.001	<0.005
128916	755337	6	<0.001	0.006
128917	755338	26	<0.001	0.026
128918	755339	6	<0.001	0.006
128919	755340	<5	<0.001	<0.005
128920	755341	<5	<0.001	<0.005
128921	755342	<5	<0.001	<0.005
128922	755343	<5	<0.001	<0.005
128923	755344	<5	<0.001	<0.005
128924	755345	<5	<0.001	<0.005
128925	755346	<5	<0.001	<0.005
128926 Dup	755346	<5	<0.001	<0.005
128927	755347	<5	<0.001	<0.005
128928	755347A	1756	0.051	1.756
128929	755348	17	<0.001	0.017
128930	755349	<5	<0.001	<0.005

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 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Aug 10, 2009

Date Completed: Aug 20, 2009

Job #: 200941820

Reference:

Sample #: 97 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
128931	755350	<5	<0.001	<0.005
128932	755351	<5	<0.001	<0.005
128933	755352	<5	<0.001	<0.005
128934	755353	<5	<0.001	<0.005
128935	755354	<5	<0.001	<0.005
128936	755355	<5	<0.001	<0.005
128937	755356	20	<0.001	0.020
128938	Dup 755356	21	<0.001	0.021
128939	755357	<5	<0.001	<0.005
128940	755358	10	<0.001	0.010
128941	755359	10	<0.001	0.010
128942	755360	11	<0.001	0.011
128943	755361	15	<0.001	0.015
128944	755362	178	0.005	0.178
128945	755363	8	<0.001	0.008
128946	755364	7	<0.001	0.007
128947	755365	6	<0.001	0.006
128948	755366	<5	<0.001	<0.005
128949	Dup 755366	<5	<0.001	<0.005
128950	755367	<5	<0.001	<0.005
128951	755367A	4062	0.119	4.062
128952	755368	8	<0.001	0.008
128953	755369	6	<0.001	0.006
128954	755370	<5	<0.001	<0.005

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 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

Date Received: Aug 10, 2009

Date Completed: Aug 20, 2009

Job #: 200941820

Reference:

Sample #: 97 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
128955	755371	<5	<0.001	<0.005
128956	755372	12	<0.001	0.012
128957	755373	<5	<0.001	<0.005
128958	755374	<5	<0.001	<0.005
128959	755375	8	<0.001	0.008
128960	755376	34	<0.001	0.034
128961 Dup	755376	34	<0.001	0.034
128962	755377	<5	<0.001	<0.005
128963	755378	6	<0.001	0.006
128964	755379	<5	<0.001	<0.005
128965	755380	<5	<0.001	<0.005
128966	755381	<5	<0.001	<0.005
128967	755382	<5	<0.001	<0.005
128968	755383	<5	<0.001	<0.005
128969	755384	<5	<0.001	<0.005
128970	755385	10	<0.001	0.010
128971	755386	8	<0.001	0.008
128972 Dup	755386	5	<0.001	0.005
128973	755387	<5	<0.001	<0.005
128974	755387A	4049	0.118	4.049
128975	755388	6	<0.001	0.006
128976	755389	5	<0.001	0.005
128977	755390	<5	<0.001	<0.005
128978	755391	<5	<0.001	<0.005

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Thursday, August 20, 2009

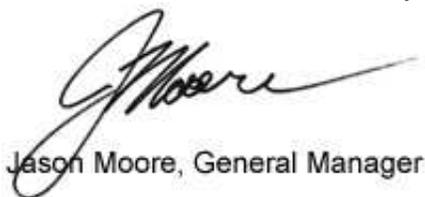
 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Aug 10, 2009  
 Date Completed: Aug 20, 2009  
 Job #: 200941820  
 Reference:  
 Sample #: 97 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
128979	755392	<5	<0.001	<0.005
128980	755393	<5	<0.001	<0.005
128981	755394	<5	<0.001	<0.005
128982	755395	<5	<0.001	<0.005
128983	755396	<5	<0.001	<0.005
128984 Dup	755396	<5	<0.001	<0.005
128985	755397	<5	<0.001	<0.005
128986	755398	<5	<0.001	<0.005
128987	755399	9	<0.001	0.009
128988	755400	<5	<0.001	<0.005

PROCEDURE CODES: ALFA1, ALICPMA, ALS

Certified By:


 Jason Moore, General Manager

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AL903-0519-08/20/2009 9:49 AM

**Certificate of Analysis**

Saturday, October 24, 2009

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 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
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 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
173928	755401	6	<0.001	0.006
173929	755402	<5	<0.001	<0.005
173930	755403	32	<0.001	0.032
173931	755404	27	<0.001	0.027
173932	755405	7	<0.001	0.007
173933	755406	11	<0.001	0.011
173934	755407	11	<0.001	0.011
173935	755408	9	<0.001	0.009
173936	755409	<5	<0.001	<0.005
173937	755410	<5	<0.001	<0.005
173938 Dup	755410	<5	<0.001	<0.005
173939	755411	<5	<0.001	<0.005
173940	755412	12	<0.001	0.012
173941	755413	<5	<0.001	<0.005
173942	755414	<5	<0.001	<0.005
173943	755415	<5	<0.001	<0.005
173944	755416	<5	<0.001	<0.005
173945	755417	6	<0.001	0.006
173946	755418	<5	<0.001	<0.005
173947	755419	9	<0.001	0.009
173948	755420	<5	<0.001	<0.005
173949 Dup	755420	<5	<0.001	<0.005
173950	755421	<5	<0.001	<0.005
173951	755422	<5	<0.001	<0.005

**Certificate of Analysis**

Saturday, October 24, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
173952	755423	<5	<0.001	<0.005
173953	755424	<5	<0.001	<0.005
173954	755425	<5	<0.001	<0.005
173955	755425A	700	0.020	0.700
173956	755426	11	<0.001	0.011
173957	755427	<5	<0.001	<0.005
173958	755428	<5	<0.001	<0.005
173959	755429	103	0.003	0.103
173960	755430	<5	<0.001	<0.005
173961	Dup 755430	5	<0.001	0.005
173962	755431	15	<0.001	0.015
173963	755432	<5	<0.001	<0.005
173964	755433	<5	<0.001	<0.005
173965	755434	<5	<0.001	<0.005
173966	755435	<5	<0.001	<0.005
173967	755436	<5	<0.001	<0.005
173968	755437	<5	<0.001	<0.005
173969	755438	<5	<0.001	<0.005
173970	755439	<5	<0.001	<0.005
173971	755440	<5	<0.001	<0.005
173972	Dup 755440	<5	<0.001	<0.005
173973	755441	<5	<0.001	<0.005
173974	755442	5	<0.001	0.005
173975	755443	14	<0.001	0.014

**Certificate of Analysis**

Saturday, October 24, 2009

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 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
173976	755444	24	<0.001	0.024
173977	755445	6	<0.001	0.006
173978	755446	<5	<0.001	<0.005
173979	755447	6	<0.001	0.006
173980	755448	1312	0.038	1.312
173981	755449	15	<0.001	0.015
173982	755450	25	<0.001	0.025
173983	Dup 755450	42	0.001	0.042
173984	755450A	730	0.021	0.730
173985	755451	21	<0.001	0.021
173986	755452	18	<0.001	0.018
173987	755453	<5	<0.001	<0.005
173988	755454	<5	<0.001	<0.005
173989	755455	10	<0.001	0.010
173990	755456	20	<0.001	0.020
173991	755457	<5	<0.001	<0.005
173992	755458	55	0.002	0.055
173993	755459	8	<0.001	0.008
173994	755460	45	0.001	0.045
173995	Dup 755460	37	0.001	0.037
173996	755461	6	<0.001	0.006
173997	755462	<5	<0.001	<0.005
173998	755463	11	<0.001	0.011
173999	755464	90	0.003	0.090

**Certificate of Analysis**

Saturday, October 24, 2009

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 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
174000	755465	80	0.002	0.080
174001	755466	79	0.002	0.079
174002	755467	<5	<0.001	<0.005
174003	755468	14	<0.001	0.014
174004	755469	142	0.004	0.142
174005	755470	24	<0.001	0.024
174006 Dup	755470	62	0.002	0.062
174007	755471	<5	<0.001	<0.005
174008	755472	<5	<0.001	<0.005
174009	755473	30	<0.001	0.030
174010	755474	7	<0.001	0.007
174011	755475	<5	<0.001	<0.005
174012	755475A	704	0.021	0.704
174013	755476	<5	<0.001	<0.005
174014	755477	<5	<0.001	<0.005
174015	755478	<5	<0.001	<0.005
174016	755479	46	0.001	0.046
174017	755480	17	<0.001	0.017
174018 Dup	755480	17	<0.001	0.017
174019	755481	39	0.001	0.039
174020	755482	<5	<0.001	<0.005
174021	755483	<5	<0.001	<0.005
174022	755484	35	0.001	0.035
174023	755485	<5	<0.001	<0.005

**Certificate of Analysis**

Saturday, October 24, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
174024	755486	9	<0.001	0.009
174025	755487	47	0.001	0.047
174026	755488	<5	<0.001	<0.005
174027	755489	<5	<0.001	<0.005
174028	755490	<5	<0.001	<0.005
174029 Dup	755490	<5	<0.001	<0.005
174030	755491	95	0.003	0.095
174031	755492	<5	<0.001	<0.005
174032	755493	9	<0.001	0.009
174033	755494	<5	<0.001	<0.005
174034	755495	<5	<0.001	<0.005
174035	755496	<5	<0.001	<0.005
174036	755497	15	<0.001	0.015
174037	755498	27	<0.001	0.027
174038	755499	<5	<0.001	<0.005
174039	755500	13	<0.001	0.013
174040 Dup	755500	17	<0.001	0.017
174041	755500A	679	0.020	0.679
174042	661501	8	<0.001	0.008
174043	661502	10	<0.001	0.010
174044	661503	6	<0.001	0.006
174045	661504	15	<0.001	0.015
174046	661505	<5	<0.001	<0.005
174047	661506	<5	<0.001	<0.005

**Certificate of Analysis**

Saturday, October 24, 2009

 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
174048	661507	<5	<0.001	<0.005
174049	661508	23	<0.001	0.023
174050	661509	18	<0.001	0.018
174051 Dup	661509	20	<0.001	0.020
174052	661510	<5	<0.001	<0.005
174053	661511	<5	<0.001	<0.005
174054	661512	8	<0.001	0.008
174055	661513	6	<0.001	0.006
174056	661514	<5	<0.001	<0.005
174057	661515	5	<0.001	0.005
174058	661516	12	<0.001	0.012
174059	661517	6	<0.001	0.006
174060	661518	<5	<0.001	<0.005
174061	661519	<5	<0.001	<0.005
174062 Dup	661519	26	<0.001	0.026
174063	661520	14	<0.001	0.014
174064	661521	33	<0.001	0.033
174065	661522	5	<0.001	0.005
174066	661523	5	<0.001	0.005
174067	661524	<5	<0.001	<0.005
174068	661525	7	<0.001	0.007
174069	661526	7	<0.001	0.007
174070	661527	<5	<0.001	<0.005
174071	661528	<5	<0.001	<0.005

**Certificate of Analysis**

Saturday, October 24, 2009

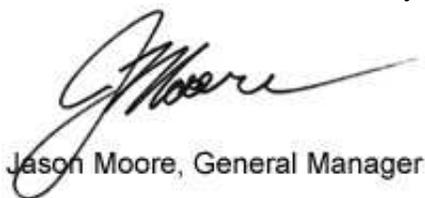
 Alto Ventures Ltd.  
 Unit #8, 1351D Kelly Lake Rd.  
 Sudbury, ON, CAN  
 P3E5P5  
 Ph#: (705) 522-6372  
 Fax#: (705) 522-8856  
 Email#: koziol@altoventures.com

 Date Received: Oct 2, 2009  
 Date Completed: Oct 23, 2009  
 Job #: 200942529  
 Reference:  
 Sample #: 133 Rock

Acc #	Client ID	Au ppb	Au oz/t	Au g/t (ppm)
174072	661529	<5	<0.001	<0.005

PROCEDURE CODES: ALFA1, ALICPAR

Certified By:


 Jason Moore, General Manager

 The results included on this report relate only to the items tested  
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AL903-0519-10/24/2009 9:46 PM

Handwritten initials: "Muel Ue"



1046 Gorham Street  
Thunder Bay, ON  
Canada P7B 5X5

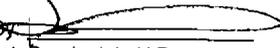
Tel: (807) 626-1630  
Fax: (807) 622-7571

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assay@accurassay.com

Alto Ventures Ltd.  
Date Created: 09-07-20 09:19:42 AM  
Job Number: 200941523  
Date Received: Jul 8, 2009  
Number of Samples: 70  
Type of Sample: Core  
Date Completed: Jul 17, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
113340	755083	<1	8.05	2	544	1	<1	1.22	<4	7	236	6	1.95	1.32	34	0.66	323	14	33	195	15	<5	<5	<10	93	1553	<1	28	<10	11	35	<0.10
113341	755084	<1	7.48	5	351	<1	<1	1.49	<4	6	243	16	1.67	1.20	27	0.51	329	11	26	198	14	<5	11	<10	127	1575	4	26	<10	12	31	<0.10
113342	755085	<1	8.07	2	440	<1	<1	1.52	<4	7	238	10	1.64	1.35	29	0.54	323	12	22	185	13	<5	18	<10	113	1546	2	28	<10	12	30	<0.10
113343	755086	5	7.73	3	494	1	<1	1.93	<4	15	219	12	2.98	1.27	36	0.86	597	11	38	410	14	<5	6	<10	92	2418	4	55	<10	11	66	<0.10
113344	755087	<1	8.68	<2	368	1	<1	2.24	<4	10	203	38	2.95	1.28	34	0.90	557	10	36	417	14	7	8	<10	151	1043	1	56	<10	7	62	<0.10
113345	755088	<1	8.31	9	425	<1	<1	2.69	<4	11	214	28	2.91	1.29	35	0.90	593	11	27	397	13	<5	8	<10	103	779	8	50	<10	7	57	<0.10
113346	755089	<1	8.19	27	389	<1	<1	2.09	<4	10	257	38	2.85	1.36	35	0.83	743	13	40	296	18	<5	12	<10	92	928	10	46	<10	6	62	<0.10
113347	755090	<1	8.50	19	415	1	<1	2.16	<4	10	256	12	3.23	1.31	36	0.89	761	12	36	327	13	<5	11	<10	96	868	3	50	<10	6	78	<0.10
113348	755091	<1	7.81	6	367	1	<1	1.60	<4	7	272	15	2.11	1.30	31	0.57	376	13	42	272	15	<5	6	<10	99	681	1	37	<10	6	53	<0.10
113349	755092	<1	7.89	20	364	<1	<1	1.73	<4	7	287	28	2.21	1.19	33	0.67	581	13	35	246	15	<5	10	<10	84	966	<1	45	<10	5	68	<0.10
113350	755092	<1	7.02	19	357	1	<1	1.62	<4	8	289	28	2.13	1.18	31	0.62	569	12	31	248	13	<5	15	<10	77	943	3	44	<10	5	67	<0.10
113351	755093	<1	8.79	<2	413	2	<1	1.86	<4	7	259	28	1.86	1.22	33	0.76	439	13	30	186	14	<5	13	<10	97	772	1	30	<10	7	43	<0.10
113352	755094	<1	7.60	50	354	<1	<1	1.81	<4	14	356	29	2.66	1.26	33	0.82	456	18	34	204	27	6	10	<10	89	772	1	43	<10	5	55	0.41
113353	755095	<1	7.70	<2	349	<1	<1	2.13	<4	11	236	37	2.68	1.21	31	0.82	621	12	38	372	13	<5	<5	<10	153	1245	1	55	<10	9	67	<0.10
113354	755096	<1	8.07	3	408	1	<1	2.27	<4	12	214	84	3.28	1.33	34	0.95	873	11	42	436	14	<5	10	<10	121	1387	4	62	<10	6	85	<0.10
113355	755097	<1	8.97	5	382	1	<1	2.36	<4	14	225	219	4.00	1.38	39	1.22	966	13	39	411	13	<5	5	<10	111	925	<1	59	<10	7	114	<0.10
113356	755098	<1	8.12	12	427	2	<1	2.12	<4	9	244	126	2.56	1.37	32	0.75	701	12	35	307	17	<5	10	<10	96	1178	<1	44	<10	6	64	<0.10
113357	755099	<1	7.63	114	353	1	<1	1.86	<4	8	279	59	2.70	1.33	33	0.71	555	14	31	252	18	<5	<5	<10	83	956	4	41	<10	5	56	0.27
113358	755100	<1	7.64	24	321	1	<1	1.86	<4	6	379	12	1.79	1.43	29	0.54	418	13	33	209	11	<5	8	<10	82	724	4	35	<10	5	31	<0.10
113359	755101	<1	8.26	44	346	1	<1	2.07	<4	9	272	16	2.56	1.33	35	0.78	433	13	36	320	17	6	<5	<10	93	934	2	48	<10	5	50	<0.10
113360	755102	<1	8.62	13	338	2	<1	2.21	<4	10	210	18	2.92	1.39	36	0.85	530	13	38	368	14	<5	<5	<10	114	974	4	55	<10	6	61	<0.10
113361	755102	<1	8.57	17	358	1	<1	2.25	<4	11	215	17	2.96	1.30	36	0.86	533	13	44	379	16	<5	7	<10	115	956	1	55	<10	6	62	<0.10

Certified By:   
Derek Demianiuk, H.Bsc.



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Thunder Bay, ON  
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Alto Ventures Ltd.  
Date Created: 09-07-20 09:19:42 AM  
Job Number: 200941523  
Date Received: Jul 8, 2009  
Number of Samples: 70  
Type of Sample: Core  
Date Completed: Jul 17, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
113362	755103	<1	8.58	<2	357	<1	<1	2.15	<4	13	218	19	2.95	1.48	34	0.83	620	13	42	412	12	<5	15	<10	148	1724	4	55	<10	11	75	<0.10
113363	755104	<1	8.43	3	340	<1	<1	1.36	<4	5	349	15	1.33	1.43	28	0.47	314	13	33	118	17	<5	13	<10	94	873	<1	17	<10	6	20	<0.10
113364	755104A	9	9.73	61	602	2	<1	2.76	6	25	103	1100	5.17	1.38	33	1.54	766	58	177	592	225	15	5	18	243	2905	<1	122	25	13	652	0.45
113365	755105	<1	8.24	2	418	<1	<1	1.99	<4	8	354	42	2.23	1.35	30	0.66	521	11	35	266	14	<5	17	<10	96	1161	3	36	<10	7	45	<0.10
113366	755106	<1	7.82	2	380	<1	<1	2.17	<4	11	264	15	2.71	1.30	31	0.79	574	10	46	366	15	<5	11	<10	118	1026	<1	51	<10	7	61	<0.10
113367	755107	<1	8.54	8	353	2	<1	2.45	<4	12	363	25	3.19	1.27	35	0.94	606	11	42	404	14	5	13	<10	114	801	<1	54	<10	7	68	<0.10
113368	755108	<1	7.20	98	379	2	<1	0.89	<4	8	499	27	2.39	1.33	32	0.58	219	13	34	274	21	8	5	<10	65	930	<1	47	<10	4	36	0.24
113369	755109	<1	8.42	3	356	1	<1	2.71	<4	11	367	15	2.97	1.32	34	0.80	775	15	38	353	13	<5	11	<10	125	1860	<1	51	<10	10	63	<0.10
113370	755110	<1	8.21	89	435	<1	<1	1.58	<4	7	454	12	2.40	1.38	31	0.62	498	14	30	175	23	7	12	<10	78	863	<1	30	<10	7	36	0.13
113371	755111	<1	8.25	27	373	<1	<1	1.69	<4	8	455	10	2.38	1.33	34	0.69	557	15	29	220	16	<5	6	<10	85	1207	<1	45	<10	7	44	<0.10
113372	755112	1	6.97	22	305	<1	<1	0.88	<4	3	518	6	1.12	1.42	29	0.40	192	13	22	<100	13	8	6	<10	64	544	<1	10	<10	4	9	<0.10
113373	755112	<1	6.72	21	302	<1	<1	0.85	<4	3	523	6	1.12	1.33	28	0.39	193	13	21	<100	14	8	11	<10	64	555	<1	11	<10	4	11	<0.10
113374	755113	<1	7.08	<2	316	<1	<1	0.92	<4	2	425	9	0.84	1.25	25	0.32	157	13	27	<100	13	6	7	<10	73	478	1	18	<10	5	6	<0.10
113375	755114	<1	8.22	256	404	1	<1	0.82	<4	24	442	32	4.63	1.19	35	0.90	493	17	39	276	26	<5	<5	<10	59	771	2	55	<10	5	63	0.57
113376	755115	<1	7.11	234	439	<1	<1	0.72	<4	14	542	18	3.12	1.28	26	0.51	379	13	25	160	20	5	8	<10	54	645	6	37	<10	4	31	0.44
113377	755116	<1	7.29	44	464	<1	<1	0.73	<4	10	517	42	2.29	1.27	29	0.61	390	12	30	227	14	9	8	<10	57	704	<1	34	<10	5	32	0.11
113378	755117	2	6.31	46	298	<1	<1	0.83	<4	5	685	14	1.52	1.24	26	0.44	211	11	25	112	12	9	16	<10	59	489	<1	18	<10	4	16	0.13
113379	755118	<1	6.82	72	531	<1	<1	1.18	<4	10	385	42	3.22	1.55	23	0.79	590	8	19	306	11	<5	<5	<10	48	555	4	34	<10	9	49	<0.10
113380	755119	<1	6.52	82	612	<1	1	0.63	<4	12	505	30	2.59	1.34	26	0.55	296	11	24	131	14	6	<5	<10	44	515	<1	24	<10	6	22	0.46
113381	755120	<1	4.94	39	141	<1	2	1.21	<4	6	703	13	1.32	1.35	22	0.32	249	10	17	<100	11	7	6	<10	53	197	<1	8	<10	5	5	0.21
113382	755121	2	5.89	161	287	<1	1	0.64	<4	4	581	24	1.57	1.36	24	0.34	138	10	16	<100	26	5	6	<10	53	431	<1	17	<10	4	21	0.17
113383	755122	<1	5.92	150	259	<1	1	0.77	<4	6	531	13	1.78	1.46	25	0.39	236	9	18	<100	28	7	8	<10	50	507	<1	18	<10	5	19	0.31

Certified By:   
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Alto Ventures Ltd.  
Date Created: 09-07-20 09:19:42 AM  
Job Number: 200941523  
Date Received: Jul 8, 2009  
Number of Samples: 70  
Type of Sample: Core  
Date Completed: Jul 17, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
113384	755122	<1	5.83	147	258	<1	<1	0.76	<4	5	526	12	1.77	1.50	24	0.39	235	9	18	<100	29	8	<5	<10	50	503	<1	18	<10	5	20	0.31
113385	755123	2	5.56	85	218	<1	1	0.65	<4	4	669	23	1.37	1.53	22	0.32	146	9	13	<100	24	8	<5	<10	45	400	<1	12	<10	5	10	0.20
113386	755124	<1	6.29	84	345	<1	<1	1.10	<4	10	531	21	2.44	1.63	25	0.51	373	8	20	184	26	7	<5	<10	50	1102	<1	33	<10	8	30	0.37
113387	755125	<1	7.63	82	420	<1	<1	1.19	<4	7	488	11	2.55	1.23	31	0.63	444	14	28	203	15	6	<5	<10	64	796	<1	29	<10	6	49	0.15
113388	755126	<1	7.91	10	437	1	<1	1.28	<4	11	365	11	2.91	1.26	35	0.78	546	14	44	379	11	5	7	<10	72	1395	<1	53	<10	7	66	<0.10
113389	755127	<1	6.74	64	262	<1	<1	0.84	<4	5	579	10	1.79	1.20	29	0.57	236	13	34	135	16	8	11	<10	64	705	<1	24	<10	4	30	<0.10
113390	755128	1	7.87	8	427	<1	<1	2.46	<4	9	301	8	2.54	1.33	33	0.76	668	10	29	341	9	5	<5	<10	95	988	1	51	<10	7	55	<0.10
113391	755129	<1	6.97	<2	318	<1	<1	2.19	<4	9	407	242	2.46	1.50	28	0.75	479	7	22	333	10	<5	9	<10	86	1556	<1	43	<10	15	55	<0.10
113392	755129A	9	8.57	55	588	2	<1	2.51	5	23	94	1022	4.82	1.37	29	1.47	709	51	154	548	214	12	9	18	212	2524	5	112	22	14	614	0.44
113393	755130	<1	7.45	<2	363	1	<1	1.62	<4	11	373	49	2.63	1.46	31	0.82	432	9	26	279	11	6	11	<10	84	1668	<1	49	<10	12	62	<0.10
113394	755131	<1	7.49	28	489	<1	<1	2.26	<4	12	343	23	2.70	1.48	32	0.71	565	10	24	343	17	8	11	<10	76	1912	<1	49	<10	11	57	<0.10
113395	755132	2	8.17	5	681	1	<1	1.71	<4	11	315	31	2.77	1.43	34	0.82	525	9	24	360	10	<5	<5	<10	73	2371	1	50	<10	14	57	<0.10
113396	755132	3	7.98	5	691	<1	<1	1.66	<4	12	308	30	2.76	1.57	33	0.80	524	9	24	354	6	<5	10	<10	71	2419	2	51	<10	13	55	<0.10
113397	755133	<1	7.62	12	416	1	<1	1.88	<4	10	377	12	2.97	1.66	25	0.50	928	9	25	303	10	<5	14	<10	74	588	1	44	<10	7	40	<0.10
113398	755134	<1	7.22	65	367	1	2	1.89	<4	14	366	52	3.37	1.40	25	0.69	1068	10	22	244	11	6	6	<10	70	637	2	39	<10	7	45	0.23
113399	755135	<1	7.46	11	378	<1	<1	2.05	<4	7	331	6	2.62	1.36	25	0.72	646	9	24	321	9	10	8	<10	78	662	6	45	<10	6	32	<0.10
113400	755136	<1	7.44	84	322	1	<1	1.68	<4	7	514	17	1.99	1.19	32	0.55	335	11	33	248	18	6	7	<10	85	775	2	34	<10	6	30	0.19
113401	755137	2	7.02	24	181	<1	1	2.90	<4	7	559	9	2.33	1.29	33	0.80	844	12	32	107	16	7	9	<10	108	558	1	21	<10	7	46	<0.10
113402	755138	<1	6.62	34	199	<1	<1	6.23	<4	11	297	10	4.10	1.42	31	1.82	1911	9	28	177	20	<5	<5	<10	164	516	8	30	<10	9	93	0.16
113403	755139	1	5.49	135	150	<1	1	1.33	<4	10	636	11	1.84	1.33	23	0.40	284	11	20	<100	23	<5	<5	<10	52	352	1	15	<10	5	23	0.33
113404	755140	9	6.82	32	333	1	68	2.06	<4	10	418	7	2.80	1.41	31	0.80	688	9	22	250	49	<5	<5	<10	69	610	<1	35	<10	6	66	0.15
113405	755141	8	7.56	122	318	<1	19	3.10	<4	14	379	9	3.76	1.32	32	0.97	1020	12	26	267	144	8	5	<10	90	693	<1	37	<10	7	76	0.53

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Alto Ventures Ltd.  
Date Created: 09-07-20 09:19:42 AM  
Job Number: 200941523  
Date Received: Jul 8, 2009  
Number of Samples: 70  
Type of Sample: Core  
Date Completed: Jul 17, 2009  
Project ID:

- \* The results included on this report relate only to the items tested
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- \* The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
113406	755142	<1	6.89	30	163	<1	<1	2.29	<4	6	631	11	1.81	1.30	28	0.60	728	13	34	<100	22	8	6	<10	86	488	6	17	<10	5	84	<0.10
113407	755142	1	6.72	35	154	<1	<1	2.24	<4	5	654	10	1.75	1.25	28	0.58	718	13	30	<100	18	7	11	<10	86	464	<1	16	<10	5	50	<0.10
113408	755143	<1	8.37	21	360	1	<1	2.37	<4	9	331	14	2.66	1.29	34	0.80	785	12	40	294	18	9	8	<10	101	757	2	43	<10	6	72	<0.10
113409	755144	<1	7.92	15	333	1	<1	1.76	<4	9	453	10	2.85	1.28	35	0.81	597	12	39	329	27	<5	<5	<10	76	795	1	44	<10	5	73	<0.10
113410	755145	<1	8.17	12	359	1	<1	2.12	<4	9	345	8	2.80	1.41	34	0.82	570	9	26	352	16	6	11	<10	94	897	<1	46	<10	7	69	<0.10
113411	755146	<1	8.75	8	336	<1	1	2.05	<4	11	319	15	2.88	1.29	35	0.86	541	12	43	382	18	<5	14	<10	122	1105	<1	51	<10	7	73	<0.10
113412	755147	<1	7.58	5	302	<1	<1	1.69	<4	11	368	7	2.52	1.39	33	0.74	360	13	42	308	17	<5	9	<10	225	2179	<1	45	<10	10	48	<0.10
113413	755148	<1	8.36	<2	436	<1	<1	1.82	<4	13	303	28	2.61	1.29	34	0.89	353	12	42	356	17	<5	12	<10	267	2355	2	50	<10	12	43	<0.10
113414	755149	<1	7.68	15	287	1	<1	1.80	<4	25	346	15	3.05	1.25	33	0.88	354	17	43	360	24	<5	<5	<10	309	2237	2	51	<10	10	43	0.36
113415	755150	<1	7.03	4	275	1	<1	1.58	<4	13	379	14	2.41	1.17	33	0.80	331	14	37	337	16	<5	<5	<10	269	2183	2	49	<10	8	42	0.12

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Alto Ventures Ltd.  
Date Created: 09-07-31 01:35:03 PM  
Job Number: 200910023  
Date Received: Jul 10, 2009  
Number of Samples: 65  
Type of Sample: Rock  
Date Completed: Jul 24, 2009  
Project ID:

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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1800	755006	<1	7.71	351	204	2	9	1.00	<4	50	264	28	7.61	1.57	31	1.55	342	18	68	830	25	.6	<5	<10	59	300	15	187	<10	9	114	<0.10
1801	755007	<1	3.51	5	104	2	8	>10.00	<4	14	104	16	6.95	1.70	16	2.89	2142	11	19	<100	17	<5	5	<10	127	109	7	22	<10	5	93	<0.10
1802	755008	<1	6.13	5	266	2	6	3.48	<4	15	365	40	2.35	1.71	23	1.09	556	7	105	137	10	<5	<5	<10	127	174	8	63	<10	5	49	<0.10
1803	755009	1	4.46	5	85	<1	<1	1.26	<4	3	366	23	1.43	1.67	15	0.33	453	8	12	<100	9	<5	6	<10	76	128	6	14	<10	5	36	<0.10
1804	755010	1	5.65	7	27	2	7	1.47	<4	29	466	4	4.89	0.78	28	3.07	881	<1	194	252	9	<5	<5	<10	81	415	6	91	<10	4	138	<0.10
1805	755011	1	6.94	3	77	1	3	2.89	<4	18	360	29	3.30	1.55	18	2.18	574	4	80	265	10	<5	<5	<10	86	2832	14	88	<10	8	66	<0.10
1806	755012	2	4.51	6	60	1	3	3.42	<4	30	360	47	3.37	1.04	13	2.17	551	3	168	216	8	<5	<5	<10	133	2780	22	91	<10	7	66	<0.10
1807	755013	2	8.90	7	101	2	6	4.78	<4	24	357	34	3.25	1.70	22	2.06	599	8	129	258	9	<5	<5	<10	166	2737	12	103	<10	9	62	<0.10
1808	755014	<1	8.17	9	176	1	5	2.98	<4	26	394	33	3.16	1.58	22	2.18	583	6	162	272	13	<5	7	<10	115	2539	10	83	<10	9	87	<0.10
1809	755015	4	7.59	12	99	2	4	5.64	<4	22	287	32	3.47	1.52	24	1.78	746	8	82	318	10	<5	<5	<10	435	2853	9	106	<10	11	73	<0.10
1810	755015	4	4.29	13	52	1	6	5.01	<4	23	280	34	3.36	0.61	14	1.76	747	3	83	305	10	<5	<5	<10	296	2609	7	90	<10	7	73	<0.10
1811	755016	3	7.18	18	69	1	6	4.34	<4	16	524	46	1.80	1.51	17	0.88	381	7	48	434	8	5	<5	<10	261	3382	5	120	<10	11	72	<0.10
1812	755017	3	7.03	25	67	1	4	6.27	<4	24	315	43	3.68	1.39	26	1.98	735	5	82	357	11	<5	<5	<10	275	2856	9	117	<10	10	77	<0.10
1813	755051	<1	4.54	5	174	2	5	5.58	<4	10	97	6	2.76	1.57	26	2.67	584	5	30	<100	13	<5	5	<10	264	233	6	45	<10	6	29	<0.10
1814	755052	<1	9.13	5	125	2	11	1.13	<4	27	262	99	4.84	1.64	76	2.76	254	6	102	286	11	5	5	<10	132	235	5	103	<10	6	69	<0.10
1815	755053	2	3.42	5	91	1	4	3.69	<4	15	128	57	2.67	0.75	6	1.06	1441	7	29	132	13	<5	7	<10	103	<100	11	29	<10	6	48	<0.10
1816	755054	<1	8.65	5	446	2	9	0.46	<4	6	72	27	1.46	1.62	34	0.40	<100	8	19	156	14	<5	6	<10	263	260	6	60	<10	10	53	<0.10
1817	755054A	9	6.94	56	480	2	8	2.43	6	25	105	1214	5.19	1.72	23	1.57	756	48	174	287	240	<5	<5	17	183	2227	9	123	23	15	691	<0.10
1818	755055	2	5.66	5	108	1	7	2.89	<4	7	413	248	2.98	1.77	23	0.50	557	9	31	207	22	<5	<5	<10	84	235	4	30	<10	8	86	<0.10
1819	755056	<1	6.70	4	312	2	7	0.63	<4	21	190	73	4.03	1.48	53	1.95	182	9	61	293	9	<5	<5	<10	99	167	6	85	<10	7	85	<0.10
1820	755056	1	7.59	4	291	1	6	1.41	<4	14	168	291	3.10	1.79	38	1.40	338	11	40	216	13	<5	<5	<10	116	182	8	61	<10	10	58	<0.10
1821	755057	1	6.46	6	231	1	6	1.42	<4	11	140	313	2.51	1.64	28	1.09	341	8	30	170	11	<5	<5	<10	99	148	5	45	<10	10	45	<0.10

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Alto Ventures Ltd.  
Date Created: 09-07-31 01:35:03 PM  
Job Number: 200910023  
Date Received: Jul 10, 2009  
Number of Samples: 65  
Type of Sample: Rock  
Date Completed: Jul 24, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1822	755058	2	9.22	22	80	1	10	3.00	<4	34	439	42	4.96	1.64	29	2.32	827	9	196	317	14	5	7	<10	123	3532	9	107	<10	10	94	<0.10
1823	755059	2	6.12	30	57	2	7	3.21	<4	32	278	35	4.26	1.06	18	2.28	695	4	162	253	8	<5	<5	<10	83	3229	8	103	<10	8	79	<0.10
1824	755060	<1	3.19	5	33	1	2	1.37	<4	14	187	23	2.02	0.54	11	0.97	340	4	78	106	4	<5	5	<10	52	1205	5	48	<10	4	49	<0.10
1825	755061	<1	3.01	<2	44	<1	1	2.03	<4	4	290	10	0.97	0.91	12	0.85	311	5	30	<100	12	<5	6	<10	104	226	6	16	<10	3	20	<0.10
1826	755062	3	7.53	9	187	2	6	2.04	<4	22	500	269	3.65	1.39	23	1.88	553	9	76	280	8	<5	<5	<10	120	2776	5	100	<10	10	73	<0.10
1827	755063	2	4.49	4	124	<1	3	0.73	<4	5	620	162	1.19	1.67	17	0.49	150	9	20	<100	8	<5	6	<10	50	802	3	23	<10	4	30	<0.10
1828	755064	2	>10.00	7	278	2	8	4.24	<4	35	457	68	5.24	1.67	29	2.85	891	6	127	412	9	<5	<5	<10	213	4358	7	151	<10	15	91	<0.10
1829	755065	2	>10.00	30	95	2	9	3.41	<4	33	347	36	5.16	1.78	31	2.59	733	10	164	292	14	<5	<5	<10	157	3634	9	128	<10	12	83	<0.10
1830	755066	3	9.22	22	80	1	5	3.41	<4	34	382	40	4.45	1.65	27	2.53	736	8	165	315	7	<5	8	<10	118	3554	8	120	<10	11	83	<0.10
1831	755066	2	5.07	22	44	1	4	2.62	<4	34	359	40	4.25	0.84	17	2.46	716	3	172	286	5	<5	<5	<10	70	3227	10	98	<10	8	85	<0.10
1832	755067	<1	8.67	14	70	1	10	2.81	<4	35	343	37	4.16	1.57	30	2.56	621	5	192	271	7	<5	8	<10	175	3207	7	114	<10	10	79	<0.10
1833	755068	1	5.75	20	223	1	6	3.74	<4	36	300	39	4.69	1.38	19	1.75	678	8	201	253	8	<5	<5	<10	123	3096	10	104	<10	8	82	<0.10
1834	755069	2	8.21	20	382	2	3	2.85	<4	35	310	39	6.03	1.71	28	2.05	703	14	196	281	13	<5	5	<10	105	3087	8	107	<10	10	86	<0.10
1835	755070	2	6.36	22	185	2	10	1.34	<4	25	330	54	8.54	1.46	21	1.60	581	14	114	237	16	<5	<5	<10	94	3019	9	98	<10	7	119	<0.10
1836	755071	1	7.88	11	165	1	9	3.30	<4	35	338	57	5.63	1.34	32	2.37	790	9	148	239	9	<5	<5	<10	127	2997	4	107	<10	10	118	<0.10
1837	755072	1	8.04	6	237	2	11	2.07	<4	24	373	71	4.66	1.48	65	2.61	452	8	97	243	11	<5	<5	<10	143	225	5	104	<10	7	62	<0.10
1838	755073	1	9.06	6	336	2	7	2.23	<4	21	215	29	4.41	1.57	58	2.42	480	7	73	250	11	<5	8	<10	155	282	5	97	<10	9	58	<0.10
1839	755074	<1	>10.00	7	258	2	6	1.89	<4	27	216	43	5.55	1.57	75	2.87	508	8	98	334	13	<5	<5	<10	156	199	7	110	<10	9	85	<0.10
1840	755075	1	5.00	3	260	2	7	2.03	<4	13	230	43	2.99	1.31	33	1.63	396	8	36	166	10	<5	<5	<10	148	127	6	53	<10	8	45	<0.10
1841	755076	2	9.69	4	162	2	9	3.15	<4	29	249	62	6.26	1.70	84	3.18	572	10	104	259	15	<5	<5	<10	235	213	6	108	<10	9	106	<0.10
1842	755076	<1	6.49	6	126	2	7	2.70	<4	26	218	54	5.61	1.35	71	2.70	520	9	95	232	13	<5	<5	<10	188	153	9	95	<10	6	102	<0.10
1843	755077	<1	7.56	7	163	2	7	1.78	<4	22	213	59	4.87	1.43	70	2.45	364	11	83	256	10	<5	7	<10	153	167	6	93	<10	7	90	<0.10

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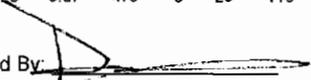
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Alto Ventures Ltd.  
Date Created: 09-07-31 01:35:03 PM  
Job Number: 200910023  
Date Received: Jul 10, 2009  
Number of Samples: 65  
Type of Sample: Rock  
Date Completed: Jul 24, 2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1844	755078	<1	6.01	4	223	2	6	2.46	<4	14	157	34	3.41	1.47	42	1.74	482	9	39	174	11	5	<5	<10	163	158	15	60	<10	7	92	<0.10
1845	755079	<1	7.88	7	175	2	7	1.74	<4	24	190	50	4.77	1.52	65	2.26	406	10	78	234	10	<5	<5	<10	170	174	7	90	<10	7	117	<0.10
1846	755079A	9	9.37	49	642	2	11	2.63	6	25	103	1120	5.07	1.60	28	1.63	760	53	159	276	219	9	10	16	236	2713	10	128	25	16	625	<0.10
1847	755080	<1	7.90	4	259	2	9	1.57	<4	11	172	38	2.88	1.53	40	1.26	399	11	26	177	13	<5	8	<10	186	219	11	52	<10	9	84	<0.10
1848	755081	<1	5.34	4	208	1	2	2.37	<4	4	188	5	1.74	1.53	19	0.88	550	8	11	114	13	<5	8	<10	121	156	4	27	<10	8	36	<0.10
1849	755082	<1	7.01	4	137	1	5	2.64	<4	11	132	52	2.55	1.46	24	1.29	583	11	33	183	9	<5	6	<10	159	135	8	49	<10	9	35	<0.10
1850	755151	2	2.07	57	99	<1	1	0.18	<4	1	395	8	0.80	1.22	7	0.14	<100	7	7	<100	16	<5	<5	<10	13	145	1	5	<10	2	23	<0.10
1851	755152	1	7.06	5	477	2	4	1.16	<4	5	340	29	1.31	1.53	20	0.44	205	11	12	<100	11	<5	7	<10	82	1096	6	22	<10	18	35	<0.10
1852	755153	1	5.94	4	432	1	3	0.64	<4	6	449	5	1.17	1.58	16	0.31	207	10	9	<100	4	<5	6	<10	61	1459	3	21	<10	11	23	<0.10
1853	755154	1	5.44	4	77	2	9	2.63	<4	34	313	5	8.15	0.91	50	2.68	1614	14	54	<100	13	<5	<5	<10	39	325	11	47	<10	3	225	<0.10
1854	755154	<1	7.34	3	95	1	10	2.76	<4	33	292	4	7.92	1.45	59	2.68	1573	16	51	<100	13	<5	<5	<10	55	362	7	47	<10	4	216	<0.10
1855	755154A	7	5.58	49	397	2	11	2.04	5	22	94	1033	4.58	1.41	19	1.40	678	46	148	238	207	5	6	15	144	1851	11	105	19	13	609	<0.10
1856	755155	<1	6.62	15	462	2	6	0.57	<4	24	412	28	4.37	1.62	24	0.93	341	31	30	117	23	6	<5	<10	64	404	3	51	<10	5	74	<0.10
1857	755156	<1	6.98	7	1054	2	6	0.53	<4	6	242	13	2.30	1.55	22	0.83	225	11	9	<100	8	<5	<5	<10	69	1974	4	26	<10	10	50	<0.10
1858	755157	2	6.94	4	139	1	4	1.73	<4	9	534	5	2.04	1.65	21	0.61	313	10	18	118	9	<5	7	<10	151	1583	5	32	<10	13	31	<0.10
1859	755158	2	5.93	31	212	2	5	0.41	<4	32	285	54	9.53	1.47	39	1.53	1042	15	23	211	19	<5	<5	<10	27	1948	10	44	10	11	127	<0.10
1860	755159	3	8.86	16	446	2	4	0.65	<4	21	340	13	6.99	2.18	43	1.28	782	15	22	227	13	5	<5	<10	45	2355	4	52	13	14	99	<0.10
1861	755160	1	7.20	4	635	1	4	0.38	<4	6	378	10	1.89	1.61	21	0.58	182	10	14	117	9	<5	<5	<10	31	1504	5	43	<10	14	35	<0.10
1862	755161	2	4.94	5	180	1	2	0.49	<4	6	752	35	1.86	1.63	20	0.53	285	11	19	<100	10	<5	5	<10	43	626	5	23	<10	7	36	<0.10
1863	755162	1	5.48	3	371	1	6	0.54	<4	5	437	15	1.30	1.64	16	0.41	218	8	12	<100	10	<5	6	<10	40	1352	4	41	<10	10	29	<0.10
1864	755163	2	4.02	7	328	1	4	0.68	<4	9	553	6	2.27	1.46	18	0.77	468	9	21	104	18	<5	6	<10	47	1393	3	40	<10	9	50	<0.10
1865	755163	1	6.31	8	367	1	5	0.88	<4	9	377	6	2.24	1.61	26	0.87	476	8	20	110	24	<5	<5	<10	67	1503	6	43	<10	10	52	<0.10

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Alto Ventures Ltd.  
Date Created: 09-07-31 01:35:03 PM  
Job Number: 200910023  
Date Received: Jul 10, 2009  
Number of Samples: 65  
Type of Sample: Rock  
Date Completed: Jul 24, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1866	755164	1	2.83	4	32	<1	2	0.25	<4	4	387	3	1.27	1.44	16	0.44	176	5	14	<100	6	<5	5	<10	20	217	5	6	<10	2	64	<0.10
1867	755165	1	7.84	4	493	2	5	1.87	<4	13	174	20	2.89	1.54	24	0.74	274	10	13	<100	30	<5	6	<10	487	1363	8	41	<10	18	62	<0.10
1868	755166	1	4.38	4	572	1	6	0.75	<4	3	158	3	1.22	1.59	16	0.33	119	6	6	<100	19	<5	<5	<10	212	510	4	27	<10	11	51	<0.10
1869	755167	4	8.09	25	1324	2	6	1.23	<4	18	138	10	2.95	1.54	35	0.98	308	9	23	180	25	6	6	<10	196	2324	5	54	10	18	95	<0.10
1870	755168	<1	5.28	6	715	2	1	1.65	<4	14	126	15	2.73	1.45	25	0.99	429	9	22	339	12	<5	<5	<10	228	2238	6	50	<10	20	112	<0.10

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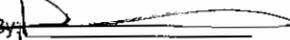
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Alto Ventures Ltd.  
Date Created: 09-08-04 12:21:47 PM  
Job Number: 200910026  
Date Received: Jul 22, 2009  
Number of Samples: 39  
Type of Sample: Channel  
Date Completed: Jul 31, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\* The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
1884	755169	4	9.87	7	313	1	<1	1.15	<4	10	376	32	1.92	1.24	32	0.75	278	17	19	1291	11	<5	<5	<10	118	1597	<1	38	<10	16	42	0.44
1885	755170	4	>10.00	7	276	1	<1	2.07	<4	9	93	34	2.36	1.40	32	0.80	472	15	14	1379	13	<5	<5	<10	265	1947	<1	43	<10	16	50	0.45
1886	755171	1	7.13	6	80	<1	<1	0.75	<4	2	352	6	0.43	1.42	27	0.35	<100	16	4	1475	7	<5	<5	<10	69	292	2	5	<10	5	6	0.51
1887	755172	5	6.41	6	72	<1	<1	0.69	<4	2	725	20	1.05	1.45	25	0.41	125	16	10	1639	8	<5	<5	<10	64	323	<1	9	<10	5	11	0.41
1888	755173	1	7.97	7	349	<1	<1	0.69	<4	6	131	43	1.44	1.73	25	0.54	248	12	8	1581	11	<5	<5	<10	92	1389	<1	30	<10	8	24	0.34
1889	755174	<1	6.20	5	64	<1	<1	0.65	<4	<1	199	3	0.21	1.68	24	0.30	<100	14	4	1040	4	<5	<5	<10	57	226	<1	3	<10	4	<1	0.42
1890	755175	4	8.99	5	234	<1	<1	1.47	<4	9	173	6	2.21	1.28	27	0.73	370	10	10	1389	7	<5	<5	<10	190	1852	<1	43	<10	15	38	0.32
1891	755176	<1	5.60	3	70	<1	<1	0.58	<4	<1	281	3	0.30	1.24	22	0.27	<100	13	2	1631	4	<5	<5	<10	50	203	<1	3	<10	4	16	0.39
1892	755177	<1	8.32	4	460	<1	<1	0.87	<4	2	113	8	0.67	1.43	20	0.30	<100	15	5	1408	23	<5	<5	<10	112	910	<1	11	<10	9	7	0.32
1893	755178	3	5.44	5	61	<1	<1	0.57	<4	1	614	4	0.50	1.21	21	0.26	<100	14	6	356	5	<5	<5	<10	49	209	<1	3	<10	4	<1	0.37
1894	755178	2	5.48	2	60	<1	<1	0.56	<4	<1	573	4	0.48	1.24	20	0.26	<100	14	6	1976	3	<5	<5	<10	49	203	<1	3	<10	4	<1	0.39
1895	755201	<1	8.89	8	286	1	<1	1.12	<4	9	122	<1	2.01	1.32	30	0.93	354	11	11	2439	7	<5	<5	<10	81	1522	<1	39	<10	12	39	0.42
1896	755202	<1	9.52	14	496	<1	3	0.99	<4	24	109	4	6.26	1.29	31	1.02	907	24	19	1780	15	<5	<5	<10	56	1848	<1	57	<10	10	62	0.44
1897	755203	3	9.47	11	156	2	>1,000	1.51	5	39	58	45	>10.00	1.34	30	1.28	1532	39	20	936	91	<5	6	<10	58	1632	<1	65	<10	7	104	0.53
1898	755204	<1	9.96	100	221	2	516	0.85	6	140	136	38	>10.00	1.05	29	1.21	1316	44	20	2376	172	<5	<5	<10	48	1284	<1	64	<10	6	176	1.88
1899	755205	3	>10.00	39	206	2	1	1.05	7	56	43	60	>10.00	1.25	35	1.60	1965	48	27	1245	31	<5	<5	<10	55	1602	<1	74	<10	7	245	1.05
1900	755206	1	>10.00	58	494	1	7	1.24	<4	46	74	495	8.61	1.26	35	1.49	1208	24	18	1785	18	<5	<5	<10	67	1624	<1	67	<10	8	149	0.87
1901	755207	4	7.42	6	186	1	<1	1.10	<4	5	457	4	1.19	1.36	27	0.53	204	15	9	1459	5	<5	<5	<10	85	874	<1	22	<10	8	16	0.41
1902	755208	<1	6.88	4	122	<1	<1	1.06	<4	4	180	2	1.02	1.52	27	0.54	190	12	6	1649	5	<5	<5	<10	93	884	<1	19	<10	8	16	0.36
1903	755208	<1	6.83	6	122	<1	<1	1.05	<4	4	176	2	1.03	1.18	26	0.53	189	11	7	488	6	<5	<5	<10	91	850	<1	20	<10	8	18	0.39
1904	755209	2	6.36	4	146	<1	<1	0.70	<4	3	156	5	0.60	1.31	23	0.38	<100	12	4	703	5	<5	<5	<10	67	676	<1	14	<10	7	6	0.36
1905	755210	4	5.40	<2	87	<1	<1	0.57	<4	3	515	5	0.79	1.32	22	0.37	110	13	6	1018	4	<5	<5	<10	50	360	<1	8	<10	4	8	0.37

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Alto Ventures Ltd.  
Date Created: 09-08-04 12:21:47 PM  
Job Number: 200910026  
Date Received: Jul 22, 2009  
Number of Samples: 39  
Type of Sample: Channel  
Date Completed: Jul 31, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\* The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn	S
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
1906	755211	<1	8.61	6	278	<1	<1	1.51	<4	7	100	10	2.11	1.36	26	0.63	365	9	12	1438	8	<5	<5	<10	139	303	<1	37	<10	8	49	0.29
1907	755212	<1	9.10	6	48	<1	<1	1.00	<4	13	44	7	3.30	1.25	28	1.06	547	8	14	1929	9	<5	<5	<10	103	221	4	78	<10	12	68	0.32
1908	755213	<1	>10.00	9	116	<1	<1	3.09	<4	14	126	31	3.02	1.29	36	1.39	505	2	47	1877	12	<5	<5	<10	236	358	<1	71	<10	11	54	0.50
1909	755214	<1	>10.00	5	94	1	<1	2.36	<4	15	85	35	3.25	1.31	38	1.51	520	4	48	959	10	<5	<5	<10	249	407	<1	78	<10	11	63	0.40
1910	755215	15	9.36	12	470	<1	4	1.35	10	16	61	>5,000	5.67	1.30	41	1.42	1030	18	28	906	640	<5	<5	<10	75	520	<1	64	22	8	2450	1.24
1911	755215A	12	8.93	45	509	1	<1	2.14	4	18	79	868	3.84	1.18	28	1.24	578	34	116	1324	162	5	<5	14	210	2231	<1	103	18	13	473	0.87
1912	755216	23	6.96	45	96	<1	14	6.94	71	20	219	>5,000	5.16	1.20	30	0.74	1528	24	16	1751	>5,000	<5	<5	<10	106	305	1	26	118	7	>5,000	3.32
1913	755217	<1	>10.00	6	291	<1	<1	3.50	<4	19	64	76	4.40	1.36	41	1.60	1163	5	47	1068	50	<5	<5	<10	178	693	3	73	<10	11	223	0.49
1914	755217	1	8.45	8	233	<1	<1	2.75	<4	15	49	51	3.39	1.19	33	1.28	901	5	38	1212	35	<5	<5	<10	143	560	<1	57	<10	9	159	0.40
1915	755218	<1	8.23	3	440	<1	<1	3.36	<4	16	96	313	2.56	1.42	33	1.09	749	7	34	997	26	<5	<5	<10	104	1579	<1	57	<10	8	132	0.44
1916	755219	5	7.42	13	318	<1	5	0.66	29	20	174	1573	4.74	1.06	30	1.20	671	20	31	735	1506	<5	<5	<10	51	1188	<1	47	47	6	>5,000	1.55
1917	755220	<1	8.75	6	111	<1	<1	3.52	<4	15	67	566	3.18	1.42	36	1.51	1032	1	40	2011	26	<5	<5	<10	134	279	<1	56	<10	9	179	0.40
1918	755221	2	8.86	8	107	<1	<1	1.79	<4	13	106	30	2.70	1.18	33	1.46	447	<1	43	1000	15	<5	<5	<10	200	369	<1	60	<10	9	65	0.42
1919	755222	<1	>10.00	16	114	1	<1	4.38	<4	23	218	53	4.70	0.55	49	1.98	852	8	91	1412	27	<5	<5	<10	370	768	<1	108	<10	11	93	0.73
1920	755223	3	9.24	<2	188	<1	<1	2.41	<4	16	69	21	2.72	1.31	32	1.38	639	3	39	2292	10	<5	<5	<10	127	1980	<1	69	<10	9	120	0.37
1921	755224	<1	8.93	6	707	1	2	1.25	<4	6	116	13	1.38	1.23	26	1.35	181	6	33	2181	191	<5	<5	<10	328	221	4	26	<10	6	40	0.43
1922	755225	<1	8.89	<2	217	1	<1	1.39	<4	8	61	18	1.80	1.40	25	0.61	333	15	9	845	10	<5	<5	<10	209	1765	<1	41	<10	11	38	0.42
1923	755226	<1	7.51	4	707	2	2	1.25	<4	5	233	18	1.23	2.18	25	0.51	239	12	28	437	26	<5	<5	<10	308	378	<1	28	<10	4	47	0.97
1924	755227	<1	9.19	6	439	2	<1	1.06	<4	4	106	6	1.11	1.21	24	0.82	195	10	23	1615	29	<5	<5	<10	284	290	<1	25	<10	6	45	0.34
1925	755227	<1	9.20	6	472	2	<1	1.07	<4	5	115	6	1.19	1.19	23	0.83	210	8	22	1598	30	<5	<5	<10	297	282	2	26	<10	6	49	0.33
1926	755228	<1	8.68	5	887	2	<1	1.14	<4	3	103	2	0.91	1.20	23	0.65	219	9	19	1192	7	<5	<5	<10	236	403	<1	25	<10	5	26	0.35

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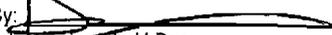
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Alto Ventures Ltd.  
Date Created: 09-08-11 09:49:56 AM  
Job Number: 200941667  
Date Received: Jul 28, 2009  
Number of Samples: 82  
Type of Sample: Rock  
Date Completed: Aug 7, 2009  
Project ID:

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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
122484	755229	<1	5.98	<2	255	<1	6	1.11	<4	21	179	34	4.40	1.42	34	1.68	614	2	72	381	<1	<5	<5	<10	137	2288	<1	69	<10	6	116
122485	755230	<1	5.22	<2	140	<1	3	1.07	<4	21	104	44	3.73	1.20	28	1.83	643	<1	72	341	<1	<5	<5	<10	111	1770	4	46	<10	7	105
122486	755231	<1	5.64	3	319	<1	8	0.78	<4	7	167	26	3.52	1.53	31	1.53	637	1	52	227	<1	<5	<5	<10	100	2192	<1	66	<10	3	117
122487	755232	<1	3.61	<2	29	<1	5	2.67	<4	11	165	292	2.37	0.87	17	0.77	657	4	28	182	<1	<5	<5	<10	124	699	<1	31	<10	4	52
122488	755233	<1	6.55	3	98	<1	5	3.26	<4	16	293	66	3.24	1.50	35	1.64	933	2	66	389	<1	<5	<5	<10	161	1732	8	53	<10	8	85
122489	755234	<1	6.68	<2	89	<1	6	1.61	<4	15	134	261	5.00	1.50	36	2.14	850	3	71	435	<1	<5	<5	<10	129	1460	2	56	<10	7	107
122490	755235	<1	6.50	2	189	<1	4	1.73	<4	18	185	20	3.53	1.59	36	1.80	573	2	64	508	<1	<5	<5	<10	163	2416	<1	69	<10	8	57
122491	755236	<1	7.81	3	122	<1	6	3.14	<4	22	127	10	3.58	1.75	42	2.29	790	3	78	503	<1	<5	8	<10	164	2502	4	70	<10	11	68
122492	755237	<1	6.16	3	128	<1	8	2.10	<4	20	213	16	3.49	1.32	33	1.83	701	1	62	510	<1	<5	<5	<10	138	2124	4	58	<10	10	58
122493	755238	<1	6.28	2	121	<1	8	1.96	<4	22	126	11	4.68	1.64	37	1.83	776	2	63	473	<1	<5	<5	<10	140	2224	<1	64	<10	8	72
122494	755238	<1	6.46	3	121	<1	3	1.92	<4	22	124	11	4.58	1.55	37	1.81	763	2	61	466	<1	<5	<5	<10	138	2155	3	62	<10	9	73
122495	755239	<1	5.01	5	106	<1	3	2.58	<4	24	219	31	4.73	1.14	29	1.85	797	3	65	504	<1	<5	5	<10	108	1699	3	48	<10	8	56
122496	755240	<1	6.60	3	127	<1	5	2.57	<4	20	116	13	3.40	1.41	34	1.79	742	1	78	398	<1	<5	<5	<10	154	895	<1	54	<10	8	62
122497	755241	<1	6.72	<2	50	<1	8	3.27	<4	17	218	8	3.21	1.46	35	1.83	836	2	74	328	<1	<5	<5	<10	203	1164	2	56	<10	8	65
122498	755242	<1	7.08	4	39	<1	8	4.05	<4	30	118	1341	4.88	1.60	37	2.04	1492	5	71	392	<1	<5	<5	<10	175	2276	3	51	<10	9	148
122499	755243	<1	5.07	<2	160	<1	3	2.19	<4	14	519	26	2.40	1.63	25	0.98	644	3	39	250	<1	<5	<5	<10	133	1280	<1	47	<10	6	57
122500	755244	<1	5.41	2	70	<1	3	2.84	<4	15	160	64	3.21	1.26	23	1.13	803	2	42	270	<1	<5	<5	<10	195	1632	<1	51	<10	7	77
122501	755245	<1	4.19	<2	387	<1	<1	1.00	<4	6	170	52	1.54	1.50	9	0.28	272	2	5	134	<1	<5	<5	<10	52	1165	<1	6	<10	21	19
122502	755246	<1	5.88	4	340	1	6	3.49	<4	17	47	8	2.61	1.72	21	0.71	851	2	16	1052	<1	<5	<5	<10	226	2378	4	36	<10	19	87
122503	755247	<1	6.72	<2	242	1	8	1.34	7	36	149	1216	6.13	1.30	48	2.49	1380	1	88	466	<1	<5	<5	<10	99	3351	1	51	<10	11	196
122504	755248	29	7.68	7	241	2	33	1.53	22	52	115	>5,000	>10.00	1.61	42	2.44	1845	16	89	902	33	<5	33	<10	103	2066	4	54	<10	10	517
122505	755248	29	6.48	8	157	2	29	1.24	23	52	111	>5,000	>10.00	1.12	37	2.54	1822	16	91	905	43	<5	30	<10	73	1718	3	46	<10	9	528

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Alto Ventures Ltd.  
Date Created: 09-08-11 09:49:56 AM  
Job Number: 200941667  
Date Received: Jul 28, 2009  
Number of Samples: 82  
Type of Sample: Rock  
Date Completed: Aug 7, 2009  
Project ID:

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122506	755249	<1	7.86	3	245	<1	7	4.29	5	24	293	735	4.40	1.72	33	1.80	1546	3	66	525	<1	<5	6	<10	169	2048	10	58	<10	10	125
122507	755250	8	6.76	3	68	2	14	2.27	15	42	186	>5.000	8.15	0.97	40	2.99	2245	2	90	763	<1	<5	9	<10	100	2042	3	53	<10	7	311
122508	755251	<1	7.33	<2	135	2	13	2.86	7	34	384	262	6.97	1.51	38	2.23	669	2	118	484	<1	<5	<5	<10	147	1950	3	87	<10	12	78
122509	755252	<1	8.57	3	165	2	18	2.13	7	47	327	74	6.18	1.77	48	2.63	855	2	80	516	<1	<5	7	<10	151	2773	<1	89	<10	12	95
122510	755253	<1	4.83	5	104	<1	3	1.74	4	23	258	41	4.37	1.03	31	1.91	536	2	49	569	<1	<5	<5	<10	98	2338	2	53	<10	10	73
122511	755253A	4	7.30	46	569	2	6	2.37	9	26	99	1109	4.83	1.77	23	1.53	764	46	170	589	154	7	<5	20	197	2585	3	124	23	15	575
122512	755254	<1	5.18	<2	104	1	6	0.90	5	12	303	69	4.57	1.09	34	2.14	567	3	68	517	<1	<5	<5	<10	96	1497	1	61	<10	7	104
122513	755255	<1	7.51	3	77	1	5	1.12	5	14	385	18	4.31	1.54	43	2.62	693	2	96	551	<1	<5	<5	<10	124	1216	2	78	<10	11	133
122514	755256	<1	6.43	2	295	1	4	1.63	<4	15	214	26	3.25	1.69	25	1.27	396	3	30	610	<1	<5	<5	<10	102	1553	2	53	<10	14	48
122515	755257	<1	4.67	2	228	<1	2	1.16	<4	15	318	11	2.50	1.22	25	1.65	416	2	53	529	<1	<5	<5	<10	69	1458	4	49	<10	14	59
122516	755257	<1	6.62	3	383	<1	10	1.55	<4	15	309	11	2.47	1.72	28	1.54	429	3	50	492	<1	<5	<5	<10	116	1672	4	68	<10	13	57
122517	755258	<1	7.12	3	283	1	9	2.43	5	30	303	109	5.09	1.64	38	2.07	1079	2	101	553	<1	<5	<5	<10	144	1325	2	90	<10	11	159
122518	755259	<1	5.21	23	136	1	9	2.10	5	26	380	531	4.84	1.05	34	2.27	728	2	86	619	<1	<5	<5	<10	99	2686	<1	61	<10	7	158
122519	755260	<1	8.05	5	135	1	8	2.81	4	26	243	51	4.08	1.49	42	2.45	1000	1	102	572	<1	<5	<5	<10	180	2622	3	77	<10	12	159
122520	755261	<1	7.20	6	201	2	10	3.76	5	61	381	96	5.64	1.51	33	1.45	631	5	81	585	<1	<5	<5	<10	215	2810	2	103	<10	14	50
122521	755262	<1	4.97	2	112	<1	2	1.90	<4	22	191	12	2.37	0.88	28	1.83	425	2	45	555	<1	<5	<5	<10	118	2327	<1	64	<10	10	79
122522	755263	<1	7.72	2	233	1	8	1.79	4	20	434	23	4.38	1.61	38	2.24	581	4	96	648	<1	<5	<5	<10	142	2014	4	76	<10	10	133
122523	755264	<1	6.65	2	143	1	7	2.14	<4	22	324	65	3.88	1.34	30	1.62	630	2	86	512	<1	<5	<5	<10	147	2850	3	89	<10	8	79
122524	755265	<1	5.60	<2	347	<1	2	1.48	<4	7	247	23	1.74	1.47	17	0.41	362	4	8	188	<1	<5	<5	<10	159	1647	<1	9	<10	18	30
122525	755266	<1	4.78	<2	123	1	12	4.11	<4	24	279	13	3.31	0.96	26	1.55	1374	3	60	498	<1	<5	<5	<10	182	1182	7	47	<10	7	67
122526	755267	<1	6.97	<2	238	<1	9	4.27	<4	23	214	4	3.21	1.53	34	1.88	1182	4	69	572	<1	<5	<5	<10	202	2437	4	57	<10	10	87
122527	755267	<1	4.97	<2	156	<1	6	3.44	<4	22	199	4	2.87	1.02	29	1.82	1087	3	68	552	<1	<5	<5	<10	138	2100	1	42	<10	7	88

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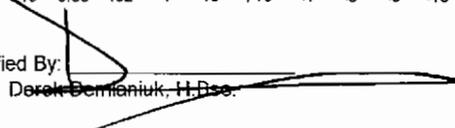
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Alto Ventures Ltd.  
Date Created: 09-08-11 09:49:56 AM  
Job Number: 200941667  
Date Received: Jul 28, 2009  
Number of Samples: 82  
Type of Sample: Rock  
Date Completed: Aug 7, 2009  
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122528	755268	<1	6.50	<2	63	<1	5	3.80	5	23	276	50	4.57	1.35	33	1.97	1508	6	64	512	<1	<5	<5	<10	189	1447	3	47	<10	8	167
122529	755269	<1	4.84	2	151	<1	<1	3.75	<4	22	188	33	3.59	1.05	25	1.56	1323	2	60	508	<1	<5	<5	<10	125	1637	2	44	<10	7	104
122530	755270	<1	6.89	2	405	1	11	1.64	5	19	227	351	5.25	1.73	35	1.47	1256	4	37	467	<1	<5	<5	<10	175	2008	<1	74	<10	8	143
122531	755271	<1	7.89	3	148	1	8	2.46	<4	21	158	22	3.24	1.61	42	1.88	800	3	79	474	<1	<5	<5	<10	171	1334	2	61	<10	8	125
122532	755272	<1	7.15	5	199	<1	8	4.24	<4	18	231	19	3.28	1.67	39	1.70	1119	2	69	441	<1	<5	<5	<10	179	844	<1	58	<10	9	112
122533	755273	<1	4.99	27	74	<1	5	1.68	<4	14	212	66	3.15	1.08	21	1.59	827	3	42	428	<1	<5	<5	<10	108	2278	2	49	<10	13	77
122534	755274	<1	6.24	3	878	2	2	1.36	<4	7	192	6	1.11	1.46	16	0.50	308	1	27	451	<1	<5	<5	<10	248	275	<1	28	<10	5	21
122535	755275	<1	8.05	3	348	2	7	2.38	<4	15	123	28	3.11	2.40	34	1.03	565	3	37	490	<1	<5	<5	<10	207	853	<1	73	<10	10	50
122536	755276	<1	4.04	<2	329	1	4	0.65	<4	8	309	17	1.50	1.17	13	0.75	214	1	35	527	26	<5	<5	<10	105	114	<1	19	<10	6	36
122537	755277	<1	7.84	8	263	1	8	3.09	<4	25	123	43	3.63	1.74	29	1.54	911	1	60	492	<1	<5	<5	<10	136	2834	10	65	<10	13	73
122538	755277	<1	6.26	8	203	<1	7	2.96	<4	27	122	45	3.71	1.37	24	1.58	936	2	62	502	<1	<5	<5	<10	112	2941	4	57	<10	12	77
122539	755278	<1	7.21	7	266	<1	4	2.74	<4	23	147	45	3.72	1.65	29	1.37	891	2	59	492	<1	<5	<5	<10	151	2875	<1	78	<10	11	77
122540	755278A	2	6.49	22	883	2	11	1.24	5	21	98	>5,000	3.73	1.61	21	0.77	259	667	64	571	<1	13	<5	<10	160	968	<1	67	15	8	73
122541	755279	<1	5.94	6	93	<1	6	2.29	<4	22	178	288	3.88	1.35	25	1.42	662	18	62	474	<1	<5	<5	<10	127	2513	1	62	<10	10	78
122542	755280	<1	8.20	13	149	1	9	1.59	6	41	220	804	5.91	1.87	44	2.43	1302	23	99	504	32	<5	<5	<10	93	2655	3	72	<10	9	272
122543	755281	<1	6.97	16	212	1	7	1.41	4	37	113	112	4.44	1.62	33	1.57	888	5	59	439	<1	<5	<5	<10	83	2548	1	59	<10	9	207
122544	755282	<1	6.56	7	67	1	9	0.91	17	45	178	663	8.63	1.07	46	2.54	2274	5	62	495	<1	<5	<5	<10	32	2783	3	77	13	9	1187
122545	755283	<1	7.81	3	108	1	10	2.70	<4	19	195	32	3.49	1.35	35	1.95	779	3	70	399	<1	<5	<5	<10	207	2888	<1	93	<10	9	96
122546	755284	<1	7.17	<2	63	<1	9	2.66	<4	19	240	13	3.52	1.22	28	1.60	626	2	73	394	<1	<5	<5	<10	189	2826	<1	82	<10	8	60
122547	755285	<1	7.15	3	196	<1	6	2.21	<4	28	179	86	3.54	1.52	40	2.41	887	2	79	390	<1	<5	<5	<10	138	2567	6	68	<10	9	101
122548	755286	<1	6.39	2	46	<1	8	1.67	<4	16	178	50	3.32	1.21	28	1.08	590	3	10	632	<1	<5	<5	<10	149	2565	2	21	<10	18	64
122549	755287	<1	5.01	<2	36	<1	2	1.90	<4	16	270	46	2.50	1.19	19	0.66	432	1	10	718	<1	<5	<5	<10	151	2355	<1	22	<10	19	43

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122550	755287	<1	6.07	3	50	<1	6	2.16	<4	16	259	43	2.47	1.33	20	0.55	453	<1	9	695	<1	<5	<5	<10	190	2463	<1	26	<10	14	40
122551	755288	<1	6.34	<2	107	1	5	2.49	<4	20	124	8	3.30	1.47	29	1.05	592	2	20	804	<1	<5	<5	<10	299	3146	4	93	<10	11	60
122552	755289	<1	4.48	<2	351	<1	4	1.52	<4	8	162	8	2.06	1.54	21	0.52	482	1	12	428	<1	<5	<5	<10	64	280	<1	25	<10	13	55
122553	755290	<1	5.75	<2	538	1	5	1.83	<4	10	149	4	2.78	1.89	27	0.53	1222	1	16	367	<1	<5	<5	<10	92	371	<1	35	<10	8	101
122554	755291	<1	4.80	<2	273	1	3	0.64	<4	8	249	5	2.43	1.50	24	0.61	569	1	14	384	<1	<5	<5	<10	71	171	<1	26	<10	10	75
122555	755292	<1	4.88	<2	264	<1	1	1.68	<4	7	155	12	2.19	1.55	18	0.76	791	2	11	306	<1	<5	<5	<10	115	226	2	5	<10	19	101
122556	755293	<1	6.95	4	191	1	13	2.59	<4	21	213	127	3.54	1.49	18	1.34	468	2	38	556	<1	<5	<5	<10	266	2502	3	80	<10	10	30
122557	755294	<1	4.91	2	62	<1	3	1.46	<4	24	119	48	3.48	1.22	16	1.44	502	2	40	545	<1	<5	<5	<10	105	1867	2	63	<10	10	32
122558	755295	<1	6.65	<2	95	<1	5	3.04	<4	12	218	3	2.59	1.28	14	0.80	374	2	25	364	<1	<5	<5	<10	356	2522	3	75	<10	10	16
122559	755296	<1	5.29	2	96	<1	3	2.57	<4	21	149	23	3.07	1.49	18	1.28	400	2	36	465	<1	<5	<5	<10	148	2375	3	62	<10	11	24
122560	755297	<1	7.39	<2	81	1	5	4.37	4	31	182	112	4.51	1.81	22	2.14	684	2	70	243	<1	<5	<5	<10	123	1803	6	147	<10	13	43
122561	755297	<1	7.57	<2	62	1	9	4.43	4	33	185	116	4.63	1.78	23	2.18	702	1	70	242	<1	<5	<5	<10	123	1977	7	154	<10	13	45
122562	755298	<1	5.89	<2	156	<1	9	2.06	<4	21	183	41	3.32	1.30	21	1.60	480	3	40	430	<1	<5	<5	<10	162	2226	2	70	<10	11	40
122563	755299	<1	6.87	2	192	<1	8	2.27	<4	21	238	51	3.32	1.75	23	1.31	508	2	36	451	<1	<5	<5	<10	210	2540	3	74	<10	10	38
122564	755300	<1	5.91	<2	209	1	9	2.01	<4	27	131	87	4.13	1.61	24	1.96	543	1	48	869	<1	<5	<5	<10	162	3159	<1	73	<10	14	33
122565	755301	<1	6.86	<2	103	1	10	2.53	4	30	127	23	4.38	1.66	26	2.55	773	1	76	477	<1	<5	<5	<10	114	3324	2	100	<10	13	51
122566	755302	24	4.38	<2	58	2	8	1.96	11	30	237	>5,000	>10.00	1.08	13	2.02	1219	3	53	359	<1	<5	6	<10	38	1039	<1	51	13	8	79
122567	755303	<1	7.97	4	94	2	13	0.93	10	59	353	785	>10.00	1.95	31	3.13	1190	3	144	364	<1	<5	<5	<10	45	1644	<1	87	<10	10	128
122568	755303A	2	6.55	20	750	2	5	1.20	5	21	106	>5,000	3.82	1.49	20	0.84	266	630	65	562	<1	10	<5	<10	157	899	<1	65	14	8	70
122569	755304	<1	7.31	6	282	1	6	2.33	<4	16	134	71	3.19	1.78	24	0.83	441	3	16	580	<1	<5	<5	<10	239	2952	2	57	<10	14	31
122570	755305	<1	5.85	2	204	<1	5	1.14	<4	14	233	6	3.78	1.73	19	0.64	622	2	10	200	<1	<5	<5	<10	76	1424	<1	4	<10	27	32
122571	755306	<1	7.68	3	1015	2	7	1.48	<4	9	183	6	1.58	2.06	18	0.97	294	2	45	498	<1	<5	<5	<10	513	1420	2	37	<10	6	32

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
122572	755307	<1	4.76	<2	218	<1	3	1.70	<4	14	191	13	2.76	1.67	21	0.76	318	1	15	689	<1	<5	<5	<10	98	2009	2	52	<10	20	35

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Alto Ventures Ltd.  
Date Created: 09-08-24 09:39:54 AM  
Job Number: 200941820  
Date Received: Aug 10, 2009  
Number of Samples: 97  
Type of Sample: Rock  
Date Completed: Aug 20, 2009  
Project ID:

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Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Ti	V	W	Y	Zn	S
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
128883	755308	<1	4.29	<2	220	<1	3	1.12	<4	2	232	3	0.64	1.39	8	0.15	192	6	4	<100	5	<5	<5	<10	37	217	<1	2	<10	13	7	0.14
128884	755309	<1	2.80	3	64	<1	<1	0.65	<4	6	980	991	1.56	1.06	10	0.28	154	6	18	<100	6	<5	<5	<10	41	525	<1	11	<10	4	14	0.24
128885	755310	<1	3.62	<2	112	<1	3	0.72	<4	12	471	610	2.72	1.12	21	0.90	374	7	29	168	7	<5	<5	<10	62	986	<1	25	<10	7	61	0.17
128886	755311	<1	2.70	10	100	<1	<1	0.73	<4	5	743	44	1.31	1.32	10	0.33	182	6	16	<100	7	<5	<5	<10	18	429	<1	9	<10	5	14	0.15
128887	755312	<1	4.67	<2	108	<1	3	2.28	<4	22	126	32	3.58	0.98	25	1.47	607	8	31	736	6	<5	<5	<10	63	3402	<1	65	<10	11	83	0.13
128888	755313	<1	5.41	<2	200	<1	6	1.74	<4	21	305	39	2.97	1.30	20	2.18	419	3	71	372	5	<5	<5	<10	140	2429	<1	48	<10	7	56	0.15
128889	755314	<1	3.21	<2	146	<1	<1	0.27	<4	3	304	71	0.75	1.16	8	0.23	<100	4	8	<100	3	<5	<5	<10	22	458	<1	11	<10	7	8	0.11
128890	755315	<1	5.19	17	15	<1	4	3.09	<4	25	315	271	4.29	0.92	18	2.02	925	7	74	953	15	<5	<5	<10	215	3569	<1	77	<10	8	131	0.17
128891	755316	<1	6.07	8	25	<1	<1	1.84	<4	18	167	20	5.13	1.26	18	2.42	749	8	71	1028	19	<5	<5	<10	104	3168	<1	76	<10	7	127	1.67
128892	755316	<1	4.14	8	16	<1	2	1.25	<4	18	168	19	5.09	0.67	14	2.38	728	6	72	1019	17	<5	<5	<10	64	2516	<1	63	<10	5	128	1.68
128893	755317	<1	4.55	5	44	<1	5	1.04	<4	19	278	19	3.56	0.74	28	1.83	524	6	64	399	6	<5	<5	<10	82	2253	1	61	<10	9	106	0.70
128894	755318	<1	2.17	<2	24	<1	<1	0.23	<4	5	667	18	1.58	0.86	13	0.42	254	5	15	<100	7	<5	<5	<10	17	234	<1	6	<10	2	44	0.11
128895	755319	2	2.04	<2	17	<1	<1	0.23	<4	1	543	952	0.74	1.12	9	0.16	<100	4	9	<100	20	<5	<5	<10	15	<100	<1	3	<10	2	7	0.21
128896	755320	2	1.75	<2	14	<1	<1	0.20	<4	1	547	961	0.74	0.92	7	0.14	<100	3	9	<100	20	<5	<5	<10	13	<100	<1	3	<10	1	10	0.19
128897	755321	4	2.31	<2	40	<1	<1	0.45	<4	5	763	467	1.46	0.91	12	0.35	191	5	14	132	23	<5	<5	<10	35	538	<1	11	<10	3	20	0.13
128898	755322	<1	1.67	<2	11	<1	<1	0.17	<4	<1	493	9	0.41	0.93	6	0.09	<100	3	7	<100	<1	<5	<5	<10	12	<100	<1	<2	<10	1	3	0.12
128899	755323	<1	1.55	<2	26	<1	<1	0.20	<4	1	931	7	0.85	0.73	6	0.11	109	4	12	<100	2	<5	<5	<10	14	206	<1	3	<10	2	12	<0.10
128900	755324	<1	1.31	<2	18	<1	<1	0.16	<4	<1	470	4	0.44	0.72	5	0.08	<100	2	7	<100	3	<5	<5	<10	10	<100	<1	<2	<10	1	6	<0.10
128901	755325	<1	1.83	<2	36	<1	<1	0.31	<4	3	760	5	0.91	0.68	6	0.16	123	4	11	<100	3	<5	<5	<10	28	481	<1	7	<10	4	15	<0.10
128902	755326	<1	1.73	<2	14	<1	<1	0.19	<4	<1	921	5	0.71	0.95	6	0.09	<100	4	11	<100	3	<5	<5	<10	12	<100	<1	<2	<10	1	7	0.12
128903	755326	<1	1.88	<2	16	<1	<1	0.21	<4	<1	974	5	0.76	1.02	7	0.10	<100	4	12	<100	5	<5	<5	<10	14	<100	<1	<2	<10	1	7	0.12
128904	755327	<1	4.13	<2	154	<1	1	0.97	<4	13	229	8	2.50	1.41	20	0.82	261	9	20	573	8	<5	<5	<10	73	1969	<1	31	<10	12	43	0.16

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Alto Ventures Ltd.  
Date Created: 09-08-24 09:39:54 AM  
Job Number: 200941820  
Date Received: Aug 10, 2009  
Number of Samples: 97  
Type of Sample: Rock  
Date Completed: Aug 20, 2009  
Project ID:

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128905	755327A	6	5.33	65	393	1	5	2.01	7	23	108	1102	4.46	1.52	17	1.47	625	50	185	560	227	<5	<5	20	136	1695	3	98	23	13	685	0.72
128906	755328	<1	4.61	<2	193	<1	<1	0.86	<4	11	356	18	2.08	1.60	17	0.75	247	29	17	513	5	<5	<5	<10	73	1919	<1	27	<10	14	40	0.29
128907	755329	<1	3.30	<2	146	<1	<1	1.37	<4	4	231	16	1.46	1.36	11	0.40	504	10	6	128	20	<5	<5	<10	45	673	<1	5	<10	14	37	0.29
128908	755330	<1	3.81	<2	156	<1	<1	1.56	<4	11	405	22	2.95	1.51	12	0.69	827	8	16	640	6	<5	<5	<10	47	192	<1	27	<10	9	59	0.17
128909	755331	<1	3.73	<2	152	<1	<1	1.52	<4	13	290	27	2.10	1.48	10	0.46	654	14	15	577	11	<5	<5	<10	45	178	2	24	<10	7	56	0.31
128910	755332	<1	4.50	<2	224	<1	3	1.28	<4	12	431	12	2.49	1.41	13	0.78	460	8	17	627	5	<5	<5	<10	72	2184	<1	38	<10	18	49	0.14
128911	755333	<1	2.98	<2	144	<1	<1	0.82	<4	12	284	35	2.27	1.04	10	0.69	366	6	17	562	6	<5	<5	<10	69	1997	<1	39	<10	15	46	0.12
128912	755334	<1	3.12	<2	115	<1	2	1.25	<4	10	385	12	2.70	1.10	13	0.73	427	6	19	615	9	<5	<5	<10	60	347	1	30	<10	17	59	0.20
128913	755335	<1	3.98	<2	197	<1	2	0.70	<4	11	228	24	2.42	1.41	14	0.70	346	7	17	600	2	<5	<5	<10	66	1901	<1	37	<10	16	50	0.38
128914	755336	<1	2.93	2	87	<1	<1	0.92	<4	11	297	25	1.72	0.97	12	0.74	423	5	17	615	5	<5	<5	<10	36	1421	<1	20	<10	16	70	0.21
128915	755336	<1	2.93	<2	92	<1	1	0.94	<4	12	306	26	1.81	0.96	12	0.77	442	6	17	642	6	<5	<5	<10	36	1434	<1	21	<10	17	72	0.22
128916	755337	<1	2.80	<2	139	<1	<1	0.89	<4	11	225	38	1.97	0.94	11	0.65	282	7	15	581	7	<5	<5	<10	60	1747	<1	30	<10	14	47	0.15
128917	755338	<1	2.67	<2	94	<1	3	1.58	<4	17	227	8	3.08	0.40	24	1.64	511	5	60	494	4	<5	<5	<10	49	1507	<1	25	<10	5	106	1.35
128918	755339	<1	4.18	<2	228	<1	<1	1.43	<4	4	228	18	2.27	1.35	11	0.48	272	8	6	192	7	<5	<5	<10	70	1034	<1	5	<10	17	26	1.34
128919	755340	<1	4.00	2	216	<1	4	0.96	<4	20	220	11	3.81	1.19	23	1.39	441	9	42	567	10	<5	<5	<10	49	2318	2	28	<10	12	100	1.86
128920	755341	<1	3.27	<2	200	<1	1	0.45	<4	3	295	40	2.47	1.06	10	0.46	149	8	6	205	11	<5	<5	<10	47	596	<1	5	<10	12	32	1.04
128921	755342	<1	6.18	2	157	<1	7	1.91	<4	18	262	27	3.30	1.16	31	1.99	722	3	65	462	8	<5	<5	<10	120	3009	<1	53	<10	8	144	0.26
128922	755343	<1	4.62	<2	160	<1	<1	2.69	<4	19	134	52	2.94	1.29	28	1.64	831	4	59	500	9	<5	<5	<10	66	2296	1	30	<10	7	112	0.84
128923	755344	<1	4.85	3	109	<1	<1	1.52	<4	18	239	25	3.17	0.90	32	1.95	624	2	63	494	8	<5	<5	<10	102	2516	<1	42	<10	7	124	1.00
128924	755345	<1	4.61	3	17	<1	3	1.36	<4	18	197	16	3.67	0.58	41	2.59	584	1	55	1123	6	<5	<5	<10	86	2962	<1	56	<10	7	176	0.50
128925	755346	<1	4.28	<2	245	<1	3	0.64	<4	8	257	13	2.86	1.19	14	0.70	185	8	7	657	5	<5	<5	<10	61	2877	<1	26	<10	13	65	0.79
128926	755346	<1	3.90	2	231	<1	1	0.61	<4	8	252	13	2.87	1.10	13	0.69	184	8	6	668	9	<5	<5	<10	56	2804	<1	25	<10	13	67	0.78

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Job Number: 200941820  
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Number of Samples: 97  
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128927	755347	<1	3.88	3	60	<1	<1	1.55	<4	14	181	15	2.92	0.66	25	1.58	558	3	56	478	9	<5	<5	<10	86	1961	2	31	<10	5	112	0.85
128928	755347A	2	4.66	29	509	2	6	1.15	<4	18	95	>5,000	3.74	1.71	12	0.79	230	668	69	583	47	<5	<5	<10	111	626	<1	46	<10	10	88	1.81
128929	755348	<1	3.24	<2	27	<1	<1	1.07	<4	7	690	24	1.51	0.85	13	0.58	316	6	26	165	5	<5	<5	<10	65	906	<1	20	<10	4	28	0.32
128930	755349	<1	5.03	<2	29	<1	5	1.26	<4	26	185	48	3.92	0.72	42	2.65	790	3	84	616	9	<5	<5	<10	75	2264	<1	40	<10	8	134	1.46
128931	755350	<1	4.11	<2	39	<1	3	1.31	<4	20	699	91	3.37	0.82	31	1.99	766	4	77	256	10	<5	<5	<10	48	1680	<1	39	<10	4	107	0.29
128932	755351	<1	3.56	<2	191	<1	<1	0.97	<4	7	303	10	1.36	1.43	9	0.33	208	6	10	345	8	<5	<5	<10	53	1638	<1	17	<10	19	24	0.14
128933	755352	<1	4.06	2	225	<1	4	1.25	<4	9	420	28	2.44	1.32	15	0.65	341	7	16	582	7	<5	<5	<10	176	1717	<1	43	<10	18	43	0.15
128934	755353	<1	4.02	<2	116	<1	<1	1.65	<4	8	246	6	2.21	1.22	12	0.64	392	6	13	554	7	<5	<5	<10	163	1837	<1	43	<10	17	43	0.13
128935	755354	<1	3.60	<2	149	<1	1	1.10	<4	9	370	7	2.18	1.21	13	0.64	361	7	14	554	4	<5	<5	<10	143	1757	<1	37	<10	16	47	0.15
128936	755355	<1	3.52	<2	155	<1	<1	0.95	<4	9	234	8	1.92	1.44	18	0.54	274	6	14	485	3	<5	<5	<10	132	1483	<1	39	<10	14	32	0.14
128937	755356	<1	5.18	<2	82	<1	1	0.70	<4	25	252	46	3.99	1.04	30	2.23	485	6	62	331	7	<5	<5	<10	66	1979	3	38	<10	6	93	0.37
128938	755356	<1	5.03	<2	70	<1	3	0.66	<4	25	233	46	3.88	1.00	29	2.15	461	7	62	312	4	<5	<5	<10	61	1865	1	35	<10	5	93	0.37
128939	755357	<1	3.53	<2	196	1	<1	1.50	<4	7	211	5	2.07	1.21	20	0.66	622	6	13	524	8	<5	<5	<10	240	368	2	36	<10	10	54	0.12
128940	755358	<1	4.52	4	72	<1	4	1.22	<4	27	197	33	5.65	1.05	23	1.47	485	12	65	286	4	<5	<5	<10	73	1603	2	28	<10	8	81	1.02
128941	755359	<1	3.76	3	79	<1	2	1.12	<4	11	230	3	2.45	1.15	14	0.71	572	7	15	482	6	<5	<5	<10	55	152	<1	19	<10	13	56	0.50
128942	755360	<1	3.88	<2	66	<1	4	1.32	<4	8	344	4	1.83	1.07	12	0.44	388	6	8	455	5	<5	<5	<10	64	116	<1	7	<10	11	22	0.31
128943	755361	<1	4.66	6	153	1	1	0.87	<4	16	181	6	3.23	1.50	20	1.35	502	8	53	315	13	<5	<5	<10	36	1297	<1	39	<10	10	72	0.39
128944	755362	<1	5.01	3	261	1	4	0.93	<4	18	415	9	3.56	1.70	17	1.05	388	10	21	496	4	<5	<5	<10	153	2365	<1	71	<10	12	44	0.90
128945	755363	<1	5.28	<2	151	<1	<1	2.02	<4	17	212	7	3.18	1.75	19	1.25	554	9	19	621	3	<5	<5	<10	178	3137	<1	71	<10	12	50	0.21
128946	755364	<1	4.70	<2	140	1	5	1.14	<4	18	204	6	3.38	1.65	19	1.31	397	8	22	684	4	<5	<5	<10	100	2869	<1	68	<10	12	48	0.80
128947	755365	<1	3.85	6	118	1	3	1.73	<4	21	113	5	3.54	1.51	16	1.31	449	8	19	651	5	<5	<5	<10	84	2592	<1	67	<10	12	50	0.95
128948	755366	<1	5.31	<2	174	<1	4	1.40	<4	19	160	3	3.61	1.30	23	1.73	397	9	35	698	9	<5	<5	<10	106	3108	<1	65	<10	11	70	0.24

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128949	755366	<1	4.66	<2	161	<1	2	1.33	<4	18	159	2	3.59	1.30	22	1.72	395	9	34	693	8	<5	<5	<10	97	3074	1	62	<10	11	65	0.19
128950	755367	<1	3.94	<2	257	<1	<1	1.37	<4	9	224	7	2.11	1.52	12	0.70	243	15	17	581	8	<5	<5	<10	96	1782	<1	34	<10	16	28	0.19
128951	755367A	<1	4.18	4023	340	2	8	1.95	4	11	48	50	7.12	1.17	16	1.01	490	17	28	567	71	<5	<5	<10	205	1135	<1	55	<10	9	81	0.61
128952	755368	<1	3.71	32	173	<1	<1	1.27	<4	9	230	10	2.12	1.19	13	0.64	242	6	15	524	9	<5	<5	<10	93	1696	<1	31	<10	16	45	0.21
128953	755369	<1	3.46	7	92	<1	<1	1.20	<4	16	146	10	3.03	0.89	11	0.83	302	14	14	664	20	<5	<5	<10	47	2176	<1	56	<10	14	36	0.21
128954	755370	<1	3.70	5	81	1	4	2.86	<4	33	294	37	4.15	0.85	18	2.89	833	<1	178	507	11	<5	<5	<10	56	2719	<1	82	<10	11	71	0.28
128955	755371	<1	4.33	<2	97	<1	<1	1.74	<4	16	147	2	3.35	1.08	14	1.15	402	8	23	490	5	<5	<5	<10	75	1241	<1	75	<10	9	55	<0.10
128956	755372	<1	3.74	2	99	<1	<1	3.37	<4	10	317	7	2.68	1.17	16	0.78	542	6	16	402	3	<5	<5	<10	66	215	<1	33	<10	6	38	0.11
128957	755373	<1	4.09	<2	62	<1	<1	2.04	<4	31	251	47	4.00	0.87	29	2.49	694	31	118	480	3	<5	<5	<10	70	2832	<1	94	<10	9	77	0.30
128958	755374	<1	3.33	<2	162	<1	2	1.99	<4	10	240	12	2.73	1.12	11	0.43	523	8	10	631	6	<5	<5	<10	97	551	<1	29	<10	15	57	0.53
128959	755375	<1	3.51	<2	112	<1	<1	0.91	<4	17	182	5	3.16	1.05	14	0.98	306	18	13	993	7	<5	<5	<10	36	2045	<1	40	<10	13	60	0.27
128960	755376	<1	6.09	<2	63	<1	2	2.49	<4	22	208	16	3.13	1.05	36	1.71	603	4	59	491	5	<5	<5	<10	171	2474	<1	46	<10	7	79	0.93
128961	755376	<1	5.68	5	57	<1	<1	2.34	<4	21	206	16	3.05	0.90	35	1.69	590	4	59	474	8	<5	<5	<10	159	2402	2	43	<10	7	76	0.90
128962	755377	<1	5.55	10	45	<1	3	3.14	<4	12	263	83	2.65	0.91	26	1.22	520	8	31	427	6	<5	<5	<10	172	1968	<1	52	<10	14	60	0.23
128963	755378	<1	4.81	16	45	<1	8	2.41	<4	14	287	49	2.92	0.75	24	1.16	476	7	33	467	7	<5	<5	<10	170	1851	<1	46	<10	14	61	0.43
128964	755379	<1	4.96	<2	68	<1	1	1.76	<4	14	199	30	3.11	0.70	33	1.72	645	4	56	334	7	<5	<5	<10	146	799	<1	47	<10	8	99	0.26
128965	755380	<1	5.01	3	54	<1	8	1.73	<4	16	173	35	3.27	0.69	34	1.85	684	4	64	477	6	<5	<5	<10	129	2134	2	56	<10	8	104	0.53
128966	755381	<1	4.73	2	33	<1	5	2.41	<4	15	222	42	3.21	0.68	30	1.41	290	7	61	383	8	<5	<5	<10	177	2171	<1	53	<10	13	66	0.23
128967	755382	<1	3.71	<2	56	<1	<1	0.96	<4	10	255	15	1.71	0.93	14	0.55	107	7	20	176	5	<5	<5	<10	84	750	<1	17	<10	12	24	0.25
128968	755383	<1	4.87	5	38	<1	4	2.36	<4	25	186	29	4.16	0.76	32	1.26	417	11	48	601	12	<5	<5	<10	146	1857	<1	65	<10	11	74	0.76
128969	755384	<1	4.49	<2	220	<1	5	1.14	<4	22	137	125	3.30	0.93	37	1.61	1086	5	62	492	11	<5	<5	<10	77	346	<1	34	<10	7	227	0.29
128970	755385	<1	4.07	<2	124	<1	5	1.61	<4	16	162	50	2.87	0.75	35	1.46	830	5	49	464	11	<5	<5	<10	101	923	<1	32	<10	8	149	0.29

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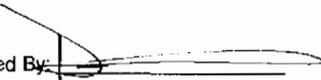
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Alto Ventures Ltd.  
Date Created: 09-08-24 09:39:54 AM  
Job Number: 200941820  
Date Received: Aug 10, 2009  
Number of Samples: 97  
Type of Sample: Rock  
Date Completed: Aug 20, 2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bl ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	S %
128971	755386	<1	4.10	2	28	1	8	2.04	4	50	119	38	7.59	0.47	20	2.48	1078	12	64	1631	10	<5	<5	<10	51	7142	<1	134	<10	13	182	<0.10
128972	755386	<1	5.53	5	35	1	11	3.02	5	57	132	39	8.46	0.98	24	2.70	1185	16	68	1720	7	<5	<5	<10	89	9825	5	169	<10	16	196	0.16
128973	755387	<1	5.12	2	63	1	5	3.37	<4	44	133	20	7.00	0.97	18	2.24	1010	13	56	1037	4	<5	<5	<10	109	8768	<1	177	<10	19	132	0.12
128974	755387A	<1	4.39	4009	354	1	8	1.98	4	13	45	51	7.20	1.33	17	1.02	493	18	27	566	69	<5	<5	<10	213	1179	<1	56	<10	9	73	0.66
128975	755388	<1	4.35	2	31	<1	<1	1.43	<4	18	310	66	2.73	0.77	22	1.39	507	4	50	495	4	<5	<5	<10	95	2310	<1	51	<10	10	79	0.10
128976	755389	<1	4.98	<2	19	1	8	2.55	<4	49	115	23	6.96	0.70	18	2.20	931	12	54	960	6	<5	<5	<10	108	9338	1	158	<10	16	127	<0.10
128977	755390	<1	5.58	3	35	<1	4	2.23	<4	25	161	20	3.56	0.81	34	1.94	828	5	69	615	6	<5	<5	<10	134	2790	<1	56	<10	9	108	0.82
128978	755391	<1	3.14	<2	14	<1	<1	1.59	<4	12	341	8	1.72	0.61	13	0.64	417	5	31	247	4	<5	<5	<10	86	1068	<1	28	<10	4	33	0.47
128979	755392	<1	4.45	<2	102	<1	3	1.28	<4	14	174	21	3.05	0.62	30	1.80	666	4	53	376	9	<5	<5	<10	105	1010	3	39	<10	6	116	0.62
128980	755393	<1	2.89	<2	268	<1	<1	0.27	<4	9	289	8	1.49	1.25	10	0.34	408	6	11	425	26	<5	<5	<10	23	786	<1	19	<10	16	57	<0.10
128981	755394	<1	2.87	<2	137	<1	<1	1.20	<4	8	352	24	1.68	1.16	16	0.57	263	5	14	438	12	<5	<5	<10	102	1413	<1	39	<10	13	29	0.19
128982	755395	<1	3.64	<2	125	<1	<1	0.80	<4	12	259	8	2.47	1.37	19	0.67	295	8	14	588	7	<5	<5	<10	111	2035	<1	37	<10	17	48	0.25
128983	755396	<1	4.25	<2	222	<1	2	1.64	<4	6	238	7	1.88	1.11	30	0.54	439	5	10	378	11	<5	<5	<10	172	438	<1	36	<10	12	38	0.12
128984	755396	<1	4.12	<2	225	<1	<1	1.67	<4	6	236	7	1.88	1.48	32	0.56	428	6	10	367	14	<5	<5	<10	149	439	<1	36	<10	12	39	0.18
128985	755397	<1	4.05	<2	608	<1	4	1.24	<4	7	361	4	1.63	1.55	20	0.43	330	7	10	322	17	<5	<5	<10	113	1134	<1	31	<10	13	25	0.17
128986	755398	<1	3.75	<2	211	<1	2	1.88	<4	10	269	8	2.35	1.40	15	0.62	524	7	18	527	7	<5	<5	<10	58	253	<1	24	<10	9	45	0.39
128987	755399	<1	5.42	2	94	<1	3	2.49	<4	17	127	719	3.09	1.12	25	1.00	729	8	19	549	9	<5	<5	<10	140	2936	<1	61	<10	11	126	0.17
128988	755400	<1	5.93	<2	228	<1	7	3.85	<4	18	213	17	3.43	1.28	44	2.14	1218	3	76	333	10	<5	<5	<10	139	275	<1	62	<10	11	128	0.18

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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
173928	755401	1	9.22	15	1079	2	13	2.17	<4	10	150	21	3.95	1.60	42	1.10	609	11	46	619	16	<5	<5	<10	213	914	5	112	<10	9	104
173929	755402	<1	9.02	24	229	<1	11	2.44	<4	21	254	47	4.24	1.77	37	1.84	569	3	60	376	4	<5	<5	<10	205	2644	5	85	<10	8	75
173930	755403	<1	9.93	22	549	1	16	2.60	<4	20	224	38	3.84	1.80	37	1.93	561	3	63	443	2	<5	<5	<10	191	2922	4	94	<10	9	74
173931	755404	<1	9.82	50	567	1	15	1.54	<4	27	138	30	6.21	1.66	50	1.74	617	28	53	847	17	<5	<5	<10	170	4662	6	137	<10	8	111
173932	755405	<1	8.05	11	285	1	11	2.90	<4	19	226	16	3.58	1.91	37	1.14	544	9	54	532	7	<5	<5	<10	153	3050	3	101	<10	6	70
173933	755406	<1	9.33	9	271	1	10	2.54	<4	21	204	45	3.60	1.73	32	1.18	513	6	46	420	3	<5	<5	<10	138	2926	8	91	<10	8	56
173934	755407	<1	8.78	27	329	1	15	2.76	<4	15	279	11	4.05	1.91	36	1.40	654	6	51	556	2	<5	<5	<10	182	2888	5	93	<10	8	67
173935	755408	<1	9.49	24	83	<1	16	3.74	<4	18	274	18	4.45	1.59	40	1.59	804	5	60	560	4	<5	<5	<10	261	2963	9	93	<10	9	86
173936	755409	<1	9.09	14	90	1	4	3.62	<4	18	184	7	3.93	1.94	36	1.54	701	5	51	441	10	<5	<5	<10	316	3425	5	96	<10	9	86
173937	755410	<1	>10.00	15	662	1	10	3.72	<4	22	265	24	5.65	1.72	55	2.76	1103	3	120	633	7	<5	<5	<10	334	3944	7	144	<10	10	160
173938	755410	<1	>10.00	14	699	2	11	3.77	<4	23	274	23	5.77	1.82	54	2.86	1118	1	122	644	6	<5	<5	<10	339	3936	8	148	<10	10	162
173939	755411	<1	9.70	15	281	2	12	3.08	<4	22	244	8	4.31	1.95	53	2.37	945	3	94	458	3	<5	<5	<10	257	2753	5	93	<10	7	108
173940	755412	1	7.70	39	595	2	16	1.24	<4	14	186	62	4.68	1.78	37	0.68	498	15	10	764	15	<5	5	<10	155	644	2	58	<10	9	104
173941	755413	<1	8.17	17	180	1	7	3.65	<4	14	236	17	3.39	1.40	35	1.26	881	4	48	406	7	<5	<5	<10	206	1429	11	76	<10	8	198
173942	755414	<1	8.52	8	391	1	7	2.88	<4	18	228	8	3.68	1.97	42	1.32	744	7	49	479	6	<5	<5	<10	218	1083	15	81	<10	7	99
173943	755415	<1	6.22	5	130	1	8	1.21	<4	6	1005	14	1.53	1.99	22	0.55	226	9	24	110	<1	<5	<5	<10	76	692	6	28	<10	5	22
173944	755416	<1	>10.00	10	430	1	8	2.14	<4	18	222	38	4.13	2.02	47	2.37	682	2	72	639	<1	<5	<5	<10	227	3809	6	112	<10	6	150
173945	755417	<1	9.09	12	256	1	12	2.56	<4	20	254	17	3.45	2.02	38	1.89	565	3	67	558	1	<5	<5	<10	232	2853	4	98	<10	8	97
173946	755418	<1	8.60	27	192	1	20	3.60	<4	31	233	76	4.41	1.91	37	1.70	767	3	67	569	7	<5	<5	<10	255	3143	11	109	<10	10	119
173947	755419	<1	8.43	9	99	1	2	2.52	<4	26	282	36	4.18	1.74	39	1.64	692	6	71	546	4	<5	<5	<10	192	2305	10	90	<10	8	104
173948	755420	<1	7.13	8	142	<1	7	1.36	<4	6	529	5	1.43	1.90	21	0.45	284	7	10	280	<1	<5	<5	<10	123	1415	3	27	<10	10	32
173949	755420	<1	7.29	8	144	1	<1	1.37	<4	6	536	5	1.44	2.07	21	0.46	287	8	11	282	<1	<5	<5	<10	124	1451	3	28	<10	10	28

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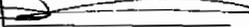
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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

\* The results included on this report relate only to the items tested  
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Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
173950	755421	<1	7.88	8	603	1	<1	3.23	<4	15	160	15	2.37	2.42	35	0.76	377	9	24	510	<1	<5	<5	<10	60	2240	5	72	<10	10	28
173951	755422	<1	4.84	10	41	1	9	0.63	<4	2	548	4	0.51	2.12	19	0.25	<100	8	8	<100	<1	<5	<5	<10	36	229	3	4	<10	3	7
173952	755423	<1	5.69	5	114	1	3	0.81	<4	5	547	4	1.10	1.75	27	0.46	178	12	14	<100	<1	<5	<5	<10	46	783	4	13	<10	5	25
173953	755424	<1	6.49	12	213	1	8	0.90	<4	7	639	5	1.39	1.82	26	0.51	242	10	17	194	1	<5	<5	<10	83	1260	3	23	<10	9	27
173954	755425	<1	8.75	13	1046	1	24	1.33	<4	19	345	22	5.21	1.71	46	1.30	1375	9	25	473	4	<5	<5	<10	115	2941	5	64	<10	12	147
173955	755425A	9	8.76	62	633	2	4	2.63	6	24	101	1121	4.77	2.02	31	1.39	749	48	158	596	226	10	<5	18	230	2977	9	126	23	12	638
173956	755426	<1	5.78	4	134	<1	8	0.60	<4	6	694	238	1.99	2.00	25	0.69	272	6	19	156	<1	<5	<5	<10	45	562	6	18	<10	5	48
173957	755427	<1	>10.00	10	170	2	3	4.49	<4	32	194	54	5.26	1.97	46	2.39	896	6	37	1613	6	<5	<5	<10	327	3772	13	150	<10	20	98
173958	755428	<1	8.05	8	256	1	7	2.90	<4	16	249	17	2.98	1.84	32	0.90	537	9	27	406	<1	<5	<5	<10	90	2475	6	71	<10	11	56
173959	755429	10	7.33	6	399	1	1	0.91	<4	10	386	969	2.36	2.03	29	0.60	302	11	18	349	47	<5	<5	<10	87	2253	4	59	<10	7	37
173960	755430	<1	8.56	12	299	1	<1	1.91	<4	16	202	39	2.86	1.89	30	0.79	461	11	26	452	4	<5	<5	<10	89	2893	3	72	<10	9	57
173961	755430	<1	8.07	5	290	1	4	1.83	<4	16	198	37	2.87	2.39	25	0.80	451	9	27	442	4	<5	<5	<10	82	2766	4	70	<10	10	61
173962	755431	1	9.78	13	581	2	20	0.81	5	27	328	155	8.62	2.28	52	2.11	1431	12	25	460	14	<5	<5	<10	46	2995	10	74	<10	11	190
173963	755432	<1	8.68	6	392	1	10	1.50	5	26	196	79	5.54	2.14	36	1.23	1016	9	29	488	9	<5	<5	<10	62	2936	2	74	<10	10	469
173964	755433	<1	9.45	8	144	<1	<1	3.46	<4	15	192	27	2.98	1.02	26	1.12	854	6	25	459	26	<5	<5	<10	81	2260	8	55	<10	17	94
173965	755434	<1	8.37	6	52	<1	3	1.97	<4	11	421	8	1.94	1.76	20	0.59	504	7	15	320	3	<5	<5	<10	83	956	5	22	<10	12	43
173966	755435	<1	9.37	8	385	1	8	2.28	<4	15	430	17	2.73	2.10	18	0.65	605	11	32	448	<1	<5	<5	<10	90	550	4	60	<10	14	34
173967	755436	<1	9.03	7	464	1	10	2.03	<4	10	325	7	2.45	1.63	23	0.50	431	8	23	390	<1	<5	<5	<10	82	596	4	57	<10	10	33
173968	755437	<1	7.63	8	596	2	10	0.52	<4	11	337	8	2.26	2.00	21	0.37	234	12	23	173	<1	<5	<5	<10	47	972	3	82	<10	4	26
173969	755438	<1	8.74	9	210	1	11	0.99	<4	9	443	19	2.16	2.14	16	0.32	456	11	21	463	<1	<5	<5	<10	73	370	3	60	<10	7	21
173970	755439	<1	8.53	10	350	1	6	2.00	<4	37	268	16	2.53	2.28	21	0.70	502	9	24	518	<1	<5	<5	<10	179	385	1	46	<10	8	25
173971	755440	<1	8.06	7	780	2	14	1.33	<4	19	217	4	3.04	2.09	39	0.68	401	12	30	521	<1	<5	<5	<10	67	2820	5	96	<10	6	49

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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

\* The results included on this report relate only to the items tested  
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\* The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
173972	755440	<1	8.43	14	786	2	5	1.33	<4	19	220	4	3.10	1.98	37	0.75	399	11	27	514	<1	<5	<5	<10	66	2797	7	97	<10	6	49
173973	755441	<1	6.92	12	268	1	6	1.24	<4	10	767	6	2.00	1.94	28	0.64	367	11	20	268	<1	<5	<5	<10	54	1095	5	33	<10	10	53
173974	755442	<1	8.31	8	161	1	15	3.72	<4	15	166	53	2.99	2.07	30	0.97	933	8	27	426	<1	<5	<5	<10	143	1021	2	43	15	10	82
173975	755443	2	8.88	18	751	2	19	1.12	5	37	271	653	7.30	1.69	60	1.56	1561	14	39	605	16	<5	<5	<10	50	3714	4	98	<10	8	269
173976	755444	11	>10.00	40	552	1	36	2.08	11	45	178	4171	>10.00	2.13	70	2.75	2229	21	52	526	87	<5	<5	<10	52	2984	5	91	<10	19	466
173977	755445	7	6.84	9	61	1	130	0.72	<4	15	427	169	3.63	1.72	36	1.14	712	6	23	<100	75	<5	<5	<10	35	402	8	19	<10	4	123
173978	755446	<1	7.92	<2	373	<1	5	1.43	<4	12	128	56	3.87	1.69	33	0.80	1053	9	14	231	<1	<5	<5	<10	56	468	4	31	<10	8	188
173979	755447	<1	8.74	10	388	1	7	2.49	<4	24	289	261	2.59	1.97	27	0.62	531	7	23	388	<1	<5	<5	<10	96	566	5	56	<10	7	43
173980	755448	1	6.31	16	306	1	10	0.65	<4	8	302	84	1.95	1.79	26	0.65	330	7	14	138	3	<5	<5	<10	31	820	4	30	<10	7	41
173981	755449	<1	8.21	3	484	<1	14	0.61	<4	17	342	17	5.63	1.99	35	1.04	512	8	16	381	5	<5	<5	<10	30	2618	3	54	20	13	60
173982	755450	2	7.52	9	365	1	4	0.59	<4	6	205	271	1.30	1.65	20	0.42	134	7	11	114	<1	<5	<5	<10	60	1010	2	23	<10	8	21
173983	755450	2	7.83	3	393	1	6	0.57	<4	6	221	296	1.40	1.43	18	0.44	143	7	11	127	<1	<5	<5	<10	61	1068	1	25	<10	9	26
173984	755450A	9	8.54	65	604	1	9	2.50	6	22	90	1097	4.46	1.90	31	1.19	684	46	144	550	196	11	<5	14	217	2838	<1	116	23	11	581
173985	755451	<1	5.51	8	121	<1	8	1.34	<4	6	641	15	1.65	1.66	26	0.51	412	8	19	<100	<1	<5	<5	<10	41	342	5	14	<10	6	29
173986	755452	<1	7.12	11	89	1	3	6.01	<4	10	256	85	2.83	2.01	32	1.07	781	18	18	219	2	<5	<5	<10	94	821	4	47	<10	17	58
173987	755453	<1	7.81	5	410	1	11	0.90	<4	7	279	18	1.81	1.58	32	0.58	234	9	15	155	<1	<5	<5	<10	49	760	3	35	<10	6	39
173988	755454	<1	7.84	6	337	2	7	1.00	<4	13	378	9	2.20	2.21	27	0.59	290	8	21	329	<1	<5	<5	<10	35	1854	5	49	<10	15	30
173989	755455	<1	8.66	5	235	1	7	1.07	<4	11	256	11	1.88	1.95	32	0.67	303	7	18	245	<1	<5	<5	<10	62	774	5	41	<10	11	25
173990	755456	<1	6.22	13	148	<1	4	1.68	<4	5	389	16	1.18	1.79	23	0.49	284	9	13	<100	<1	<5	<5	<10	46	582	<1	16	<10	8	21
173991	755457	<1	6.84	7	373	<1	<1	0.90	<4	9	469	12	2.09	2.05	25	0.63	246	6	18	216	<1	<5	<5	<10	33	1262	6	36	<10	8	35
173992	755458	<1	7.02	3	285	<1	6	1.07	<4	9	361	13	1.93	1.96	27	0.67	248	8	17	166	<1	<5	<5	<10	40	1199	3	31	<10	9	36
173993	755459	<1	8.88	9	406	1	14	1.88	<4	21	334	28	3.08	1.79	28	0.97	435	4	30	400	<1	<5	<5	<10	88	545	5	52	<10	7	53

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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

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\* The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Ni	P	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	W	Y	Zn
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
173994	755460	2	7.79	9	311	1	10	0.77	<4	9	315	615	1.81	1.97	27	0.60	228	9	17	245	15	<5	<5	<10	65	1622	6	32	<10	8	41
173995	755460	2	7.46	8	300	<1	<1	0.71	<4	9	303	596	1.78	1.91	26	0.57	218	8	15	240	15	<5	<5	<10	61	1496	4	31	<10	8	41
173996	755461	<1	7.25	18	327	1	9	1.27	<4	5	419	23	1.16	1.92	31	0.43	202	10	10	<100	<1	<5	<5	<10	48	587	6	16	<10	5	19
173997	755462	<1	6.89	9	315	<1	2	3.40	<4	11	487	46	2.27	2.05	30	0.74	516	9	15	<100	1	<5	<5	<10	57	646	3	19	<10	8	28
173998	755463	<1	8.31	19	438	1	6	2.54	<4	12	335	17	2.96	2.11	33	0.65	522	12	24	415	<1	<5	<5	<10	70	878	3	60	<10	7	49
173999	755464	<1	6.00	14	105	1	<1	1.66	<4	4	667	12	1.23	1.87	26	0.38	321	10	11	<100	<1	<5	<5	<10	61	357	3	12	<10	5	14
174000	755465	<1	6.57	16	285	1	5	2.61	<4	9	438	25	2.55	1.97	36	0.73	644	10	19	148	1	<5	<5	<10	88	759	3	32	<10	6	46
174001	755466	3	7.41	11	249	1	7	0.81	<4	10	437	796	2.61	1.65	33	0.80	265	11	24	135	5	<5	<5	<10	58	999	2	39	<10	7	61
174002	755467	<1	5.27	5	54	<1	3	0.67	<4	2	700	96	0.68	1.47	23	0.25	<100	10	9	<100	2	<5	<5	<10	41	352	3	6	<10	4	6
174003	755468	1	7.08	13	511	1	<1	1.16	<4	5	460	172	1.09	1.63	23	0.35	194	10	11	108	6	<5	<5	<10	50	966	2	20	<10	7	16
174004	755469	6	8.22	16	554	1	9	1.48	<4	23	457	4210	4.86	1.72	43	1.27	771	11	34	411	15	<5	<5	<10	71	2890	4	68	<10	10	153
174005	755470	4	7.87	9	127	1	<1	1.76	<4	8	372	2444	1.81	1.59	21	0.48	332	10	13	205	<1	<5	<5	<10	90	1326	4	23	<10	12	29
174006	755470	4	7.89	13	120	1	5	1.68	<4	7	329	2239	1.68	1.71	22	0.46	303	10	13	187	<1	<5	<5	<10	86	1212	2	21	<10	12	26
174007	755471	<1	7.45	9	330	1	6	1.41	<4	7	258	20	1.63	1.98	29	0.43	326	12	14	189	<1	<5	<5	<10	82	1319	4	27	<10	10	33
174008	755472	<1	7.74	5	226	1	5	2.08	<4	10	268	26	2.08	1.85	23	0.57	393	8	22	319	<1	<5	<5	<10	121	266	4	42	<10	6	37
174009	755473	2	7.09	14	199	1	9	0.94	<4	7	516	58	1.76	1.87	27	0.52	194	9	16	225	10	<5	<5	<10	84	1144	2	34	<10	7	32
174010	755474	1	7.99	10	184	1	10	2.99	<4	16	253	22	2.94	1.79	28	1.00	527	7	30	379	6	<5	<5	<10	115	1880	6	53	<10	13	55
174011	755475	<1	5.31	3	42	1	3	0.71	<4	3	453	234	0.84	1.70	24	0.34	108	9	9	<100	2	<5	<5	<10	39	219	4	6	<10	3	16
174012	755475A	8	8.37	53	589	1	6	2.43	6	22	90	1034	4.47	1.35	27	1.33	672	43	141	530	197	10	<5	17	216	2558	6	114	21	12	584
174013	755476	<1	6.46	8	204	1	8	1.85	<4	10	463	710	1.86	1.75	33	0.54	347	11	19	246	1	<5	<5	<10	79	1333	4	36	<10	6	37
174014	755477	<1	7.96	10	404	1	11	1.56	<4	6	309	15	1.80	1.96	26	0.38	356	11	15	224	3	<5	<5	<10	122	827	4	28	<10	7	23
174015	755478	<1	7.18	6	473	2	5	2.29	<4	13	201	24	1.86	1.66	28	0.75	446	9	52	451	6	<5	<5	<10	315	698	3	39	<10	6	44

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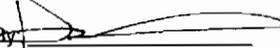
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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
174016	755479	2	7.00	10	507	1	10	1.88	<4	10	450	765	1.78	1.61	30	0.47	402	12	15	228	2	<5	<5	<10	66	1789	5	40	<10	8	53
174017	755480	2	9.19	8	460	2	15	1.28	5	26	208	1029	5.75	1.70	58	2.26	1497	8	36	407	37	<5	<5	<10	60	2302	6	78	<10	10	491
174018	755480	2	9.34	4	423	1	16	1.25	4	24	190	947	5.31	2.13	55	2.06	1367	9	33	375	35	<5	<5	<10	62	2148	5	72	<10	10	472
174019	755481	8	7.31	15	401	1	5	0.84	<4	8	381	4968	2.59	1.71	25	0.45	263	24	19	109	14	<5	<5	<10	50	403	2	6	<10	5	88
174020	755482	<1	7.95	8	468	1	<1	1.15	<4	10	260	80	1.87	1.73	28	0.52	256	9	8	287	3	<5	<5	<10	122	2884	3	31	<10	10	46
174021	755483	<1	7.30	12	342	1	11	1.66	<4	14	238	58	2.47	1.71	27	0.64	342	11	17	392	29	<5	<5	<10	154	2833	4	47	<10	10	64
174022	755484	<1	7.57	7	334	<1	11	2.31	<4	15	268	40	2.95	1.68	24	0.98	450	7	27	414	10	<5	<5	<10	170	2416	5	64	<10	12	42
174023	755485	<1	7.66	6	494	1	6	1.32	<4	9	279	144	1.57	1.68	28	0.52	222	10	15	195	<1	<5	<5	<10	72	1598	2	32	<10	9	27
174024	755486	<1	7.45	78	234	1	17	1.90	<4	23	401	35	6.21	1.94	44	1.24	749	8	28	260	12	<5	<5	<10	178	1326	6	45	<10	6	92
174025	755487	<1	6.52	20	392	2	5	0.74	<4	8	332	7	1.69	1.91	33	0.45	200	10	15	226	1	<5	<5	<10	46	888	4	44	<10	3	32
174026	755488	<1	5.58	9	83	2	<1	0.87	<4	6	659	10	0.81	1.88	27	0.25	112	11	13	<100	<1	<5	<5	<10	50	596	5	13	<10	4	7
174027	755489	<1	8.20	6	336	1	10	1.60	<4	15	304	7	4.77	1.70	44	1.00	510	10	27	406	5	<5	<5	<10	70	544	2	59	<10	5	92
174028	755490	<1	5.89	2	60	1	7	1.82	<4	10	532	5	2.42	1.61	35	0.89	552	8	24	<100	3	<5	<5	<10	48	256	6	14	<10	4	68
174029	755490	<1	5.75	7	55	<1	<1	1.70	<4	10	480	4	2.25	1.46	32	0.84	510	8	22	<100	2	<5	<5	<10	45	231	3	13	<10	4	62
174030	755491	4	5.68	8	78	1	43	0.65	<4	2	531	1052	0.63	1.79	21	0.28	<100	9	7	<100	39	<5	<5	<10	67	199	2	4	<10	4	5
174031	755492	<1	8.43	12	268	1	9	2.27	<4	25	186	43	7.21	1.73	53	1.30	701	10	41	562	11	<5	<5	<10	164	2892	4	67	<10	8	71
174032	755493	<1	7.92	11	579	1	2	0.63	<4	3	299	17	1.02	1.79	24	0.38	119	8	10	178	<1	<5	<5	<10	51	527	5	24	<10	7	16
174033	755494	<1	6.78	7	293	1	10	1.13	<4	8	292	1056	1.32	1.87	28	0.43	232	10	14	165	<1	<5	<5	<10	86	1303	<1	24	<10	6	28
174034	755495	<1	7.07	11	454	1	4	0.94	<4	7	313	44	1.37	2.03	26	0.49	213	9	13	193	<1	<5	<5	<10	55	862	1	22	<10	8	26
174035	755496	<1	7.64	8	407	1	10	1.63	<4	14	235	30	2.71	1.79	35	0.86	443	7	22	361	<1	<5	<5	<10	76	1901	3	51	<10	11	61
174036	755497	<1	7.26	7	368	1	5	1.85	<4	12	405	21	2.35	2.02	36	0.71	407	8	21	298	<1	<5	<5	<10	57	1295	3	47	<10	8	55
174037	755498	<1	6.76	7	372	1	<1	1.34	<4	8	310	12	1.98	1.94	34	0.63	305	9	18	226	2	<5	<5	<10	51	636	6	37	<10	6	42

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Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

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Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Ti ppm	V ppm	W ppm	Y ppm	Zn ppm
174038	755499	<1	7.48	6	389	1	7	1.70	<4	12	277	12	2.56	2.03	35	0.78	405	8	23	364	<1	<5	<5	<10	73	1309	6	53	<10	9	57
174039	755500	<1	7.34	<2	277	2	9	2.15	<4	12	292	23	2.14	1.74	38	0.65	341	9	22	328	<1	<5	<5	<10	60	1488	3	87	<10	9	37
174040	755500	<1	6.66	11	280	2	6	2.06	<4	12	293	23	2.11	1.75	40	0.57	345	11	21	324	1	<5	<5	<10	64	1529	5	88	<10	7	35
174041	755500A	9	7.67	58	583	1	12	2.40	6	22	91	1047	4.38	1.67	34	1.08	683	49	143	542	198	9	<5	13	207	2771	4	115	21	9	590
174042	661501	1	7.36	11	219	2	12	1.79	<4	9	376	19	1.98	1.84	36	0.64	356	11	22	431	2	<5	<5	<10	61	1070	2	54	<10	8	49
174043	661502	<1	8.06	6	386	2	5	2.04	<4	12	235	12	2.53	1.75	38	0.73	356	8	21	378	<1	<5	<5	<10	60	2108	4	57	<10	12	51
174044	661503	<1	7.50	10	412	1	6	1.91	<4	11	331	21	2.20	1.81	34	0.65	335	8	20	290	<1	<5	<5	<10	48	1499	3	45	<10	10	39
174045	661504	<1	7.33	<2	448	1	9	1.37	<4	6	369	12	1.60	1.91	28	0.49	233	9	11	144	<1	<5	<5	<10	44	811	5	24	<10	7	27
174046	661505	<1	6.85	12	440	1	2	1.46	<4	8	292	6	1.91	2.22	37	0.53	298	9	16	230	1	<5	<5	<10	47	988	5	37	<10	6	38
174047	661506	<1	7.84	7	400	1	2	1.85	<4	11	227	9	2.65	1.99	37	0.75	390	9	23	365	<1	<5	<5	<10	69	1698	2	55	<10	11	59
174048	661507	<1	7.34	9	298	1	9	1.43	<4	10	307	21	2.21	2.04	30	0.60	313	8	18	290	<1	<5	<5	<10	55	1748	4	42	<10	10	43
174049	661508	<1	6.80	5	349	1	12	1.30	<4	10	266	21	2.19	1.92	33	0.54	296	9	19	300	2	<5	<5	<10	49	1912	5	47	<10	10	43
174050	661509	<1	6.97	6	255	1	11	1.80	<4	9	400	18	2.16	2.01	32	0.60	355	8	19	269	<1	<5	<5	<10	57	1278	2	41	<10	9	44
174051	661509	<1	7.11	9	263	1	12	1.87	<4	9	416	19	2.25	1.67	32	0.62	369	8	18	269	<1	<5	<5	<10	56	1291	<1	43	<10	10	45
174052	661510	<1	8.02	10	286	2	6	1.26	<4	11	244	15	2.05	1.59	36	0.65	267	9	19	333	<1	<5	<5	<10	60	1465	6	61	<10	10	33
174053	661511	<1	7.74	8	341	2	23	2.20	<4	13	368	33	2.58	1.56	43	0.67	431	10	23	349	<1	<5	<5	<10	74	1604	4	58	<10	10	44
174054	661512	<1	8.76	5	590	1	<1	0.90	<4	10	371	28	2.80	1.98	38	0.83	380	10	24	349	<1	<5	<5	<10	39	1096	4	53	<10	9	49
174055	661513	<1	8.53	11	581	1	1	1.19	<4	7	383	39	1.96	1.69	34	0.63	238	10	16	272	<1	<5	<5	<10	46	861	2	39	<10	8	28
174056	661514	<1	6.92	6	284	2	16	1.81	<4	8	355	19	1.52	2.08	32	0.46	265	12	17	183	2	<5	<5	<10	55	1379	5	32	<10	7	23
174057	661515	<1	6.87	6	200	1	<1	4.62	<4	10	429	39	1.70	1.90	31	0.53	548	10	18	117	2	<5	<5	<10	83	944	9	24	<10	15	23
174058	661516	<1	7.29	10	363	1	5	1.83	<4	9	348	14	1.92	2.09	36	0.54	294	14	18	223	<1	<5	<5	<10	54	1620	4	43	<10	8	35
174059	661517	<1	7.15	13	401	1	5	1.37	<4	9	340	16	1.80	2.08	32	0.51	252	9	17	251	<1	<5	<5	<10	47	1705	5	41	<10	9	31

Certified By:   
Derek Demianiuk, H.Bsc.



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essay@accurassay.com

Alto Ventures Ltd.  
Date Created: 09-10-28 10:07:21 AM  
Job Number: 200942529  
Date Received: 10/02/2009  
Number of Samples: 133  
Type of Sample: Rock  
Date Completed: 10/23/2009  
Project ID:

\* The results included on this report relate only to the items tested  
\* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.  
\*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
174060	661518	<1	8.60	9	503	2	7	1.05	<4	13	255	11	2.40	1.79	38	0.61	264	15	26	351	<1	<5	<5	<10	52	2244	4	61	<10	9	52
174061	661519	<1	7.82	11	327	1	11	1.89	<4	10	384	23	2.25	1.72	33	0.70	336	9	18	224	<1	<5	<5	<10	56	1479	4	41	<10	10	42
174062	661519	<1	7.97	8	325	1	11	1.87	<4	10	385	23	2.18	1.73	35	0.61	337	12	19	233	1	<5	<5	<10	63	1585	3	41	<10	8	45
174063	661520	<1	8.21	8	283	2	13	1.81	<4	9	305	19	2.28	1.67	31	0.67	321	11	21	321	4	<5	<5	<10	113	1063	3	51	<10	9	39
174064	661521	<1	7.79	14	233	2	<1	2.33	<4	12	320	123	2.38	1.90	30	0.61	387	15	26	327	4	<5	<5	<10	117	1010	4	53	<10	7	44
174065	661522	<1	7.71	<2	190	2	14	1.43	<4	8	281	6	1.33	1.49	28	0.43	210	14	12	135	1	<5	<5	<10	82	522	1	23	<10	6	22
174066	661523	<1	7.82	6	270	2	8	1.89	<4	10	264	66	2.47	1.61	31	0.59	323	12	22	354	3	<5	<5	<10	126	827	3	51	<10	6	45
174067	661524	<1	7.57	9	231	1	12	1.80	<4	10	361	12	2.41	1.45	29	0.61	307	11	20	305	4	<5	<5	<10	109	498	2	39	<10	8	38
174068	661525	<1	7.25	6	290	1	5	1.30	<4	8	366	21	2.10	1.61	29	0.50	246	11	16	250	4	<5	<5	<10	107	548	3	38	<10	6	40
174069	661526	<1	7.99	8	307	2	10	2.03	<4	12	304	27	2.98	1.65	35	0.71	437	12	29	426	5	<5	<5	<10	144	931	7	67	<10	8	50
174070	661527	<1	8.25	8	478	2	10	2.22	<4	16	294	25	3.18	1.77	38	0.76	496	11	28	451	5	<5	<5	<10	111	2822	4	73	<10	9	63
174071	661528	<1	8.65	6	426	1	11	2.06	<4	18	196	20	3.63	1.83	38	1.15	682	11	29	481	4	<5	<5	<10	165	2927	5	70	<10	11	102
174072	661529	1	8.81	6	341	1	11	1.64	<4	13	318	87	2.13	1.84	33	0.57	345	14	18	296	2	<5	<5	<10	119	2151	3	37	<10	11	60

Certified By:   
Derek Demianiuk, H.Bsc.

Appendix B:

Expansion Lake and Mud Lake Photo Gallery



**Photo 1: Location of high Au assay value in Trench 1, Expansion Lake. High Au assay value is located in the quartz stockwork in the upper portion of the photo, indicated by the geotool (used for scale).**



**Photo 2: Weakly mineralized shear in Trench 2, Expansion Lake, where anomalous Au assay values are located, extending to the quartz stockwork in the bottom right of the photo. Shear is indicated by the red cooler in upper part of photo (used for scale).**



**Photo 3: Main quartz carbonate vein present in Trench 3, showing hematite alteration, galena and faint fluorite (purple). Pencil for scale.**



**Photo 4: C-S style shearing located in Trench 4, Expansion Lake. Pencils for scale, showing the dominant trends of the two shear foliations.**



**Photo 5: Example of hand stripping and washing, from the Can-Am trench located in the Expansion Lake area. Also pictured is local Beardmore prospector, Robert Cote (right) with his grandson Kyle Cote (left).**



**Photo 6: Strong shearing and carbonate-sericite-chlorite alteration present at the Can-Am trench, Expansion Lake area. Fire hose nozzle for scale.**



**Photo 7: Fold nose with saw-cut channel samples, on the Golden Eagle trench, Expansion Lake. Pencil for scale, indicating apex of fold nose and direction of plunge.**



**Photo 8: Weakly mineralized quartz-carbonate vein, part of the Koski showing. Sledgehammer for scale.**



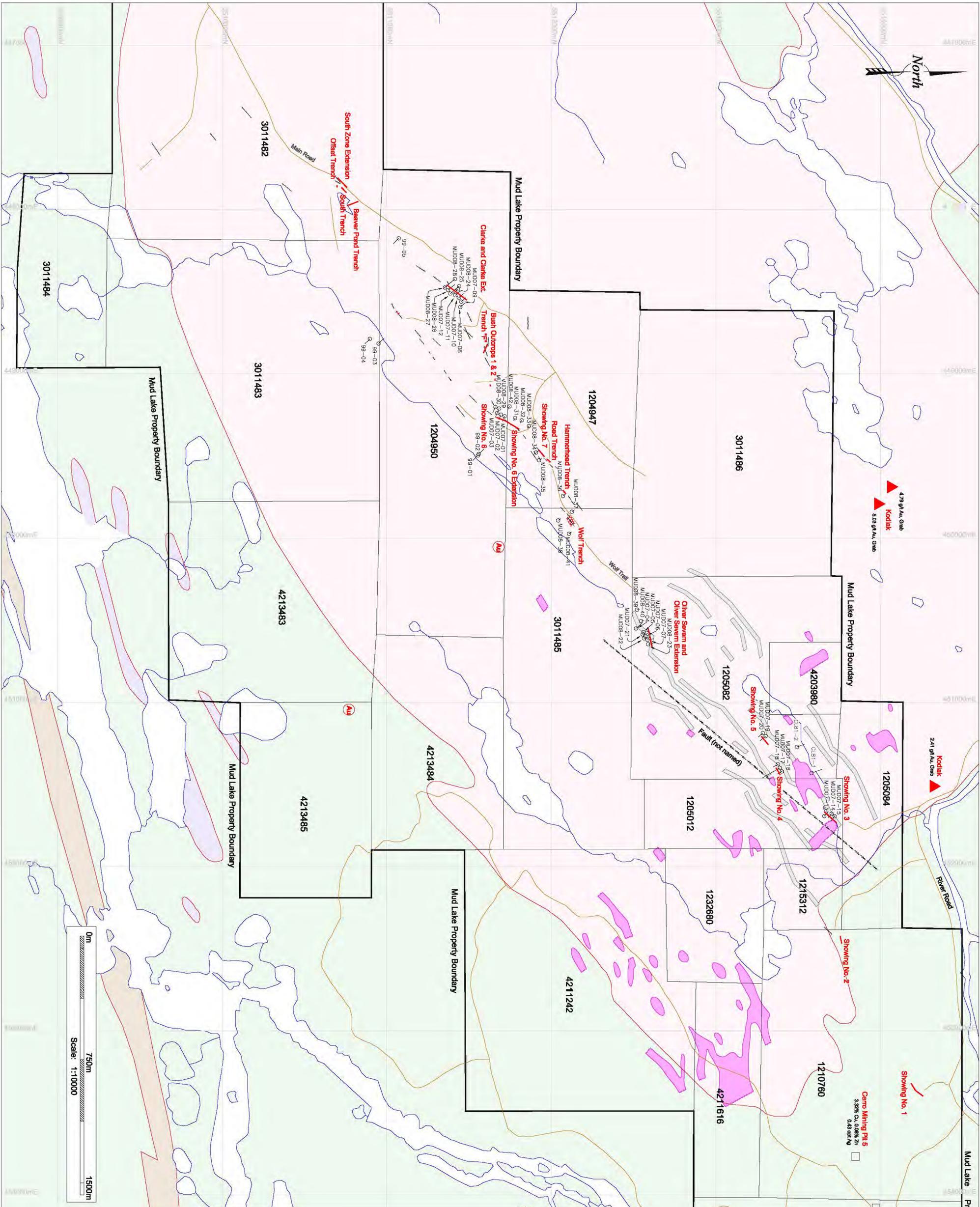
**Photo 9: Main Extension Trench, Mud Lake, illustrating the "M" pattern defined by the quartz-carbonate veins present. Channel cuts present in photo are historical, and were repeated for the purpose of this report.**



**Photo 10: Offset Trench, Mud Lake. The main E-W shear is present along the centre of the photo. Also pictured is Alto Ventures field assistant, Terry Desjardins (for scale).**



**Photo 11: Mineralized quartz-carbonate veins present in the new South trench, Mud Lake. Samples are indicated by the red painted line, with historical channel cuts being unmarked. Pencil for scale.**



**Legend:**

**Geology:**

- Granite
- Gabbro
- Metasediments
- Metavolcanics

**Soil Sampling**

- ( $>100$  ppb from Metagreg (Late Epanation))
- ( $<50$  ppb from Noranda Epanation)
- Point - source anomaly
- Anomaly open along strike

**Drilling**

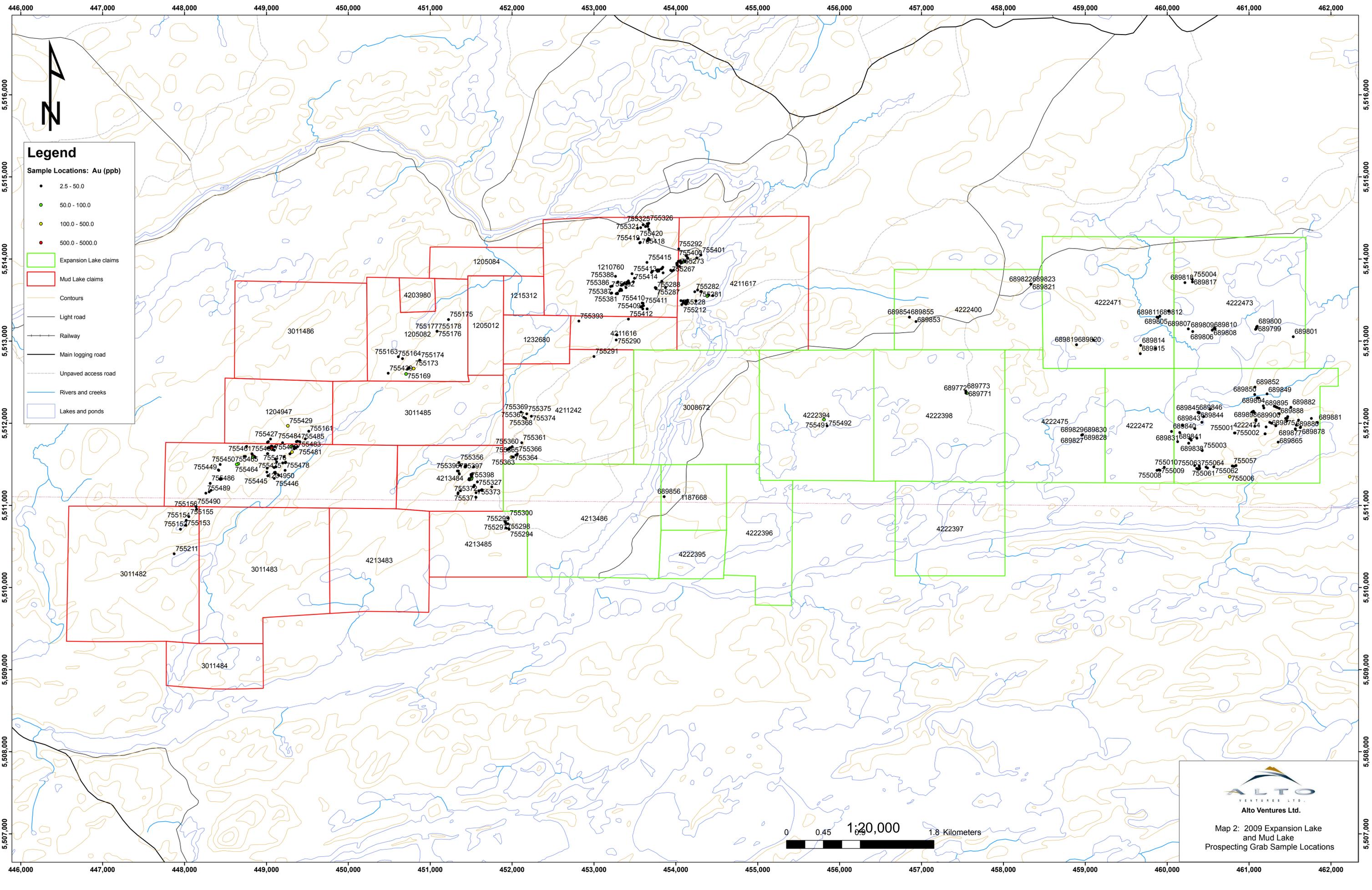
- Diamond Drill Holes
- ADR Holes: MUD07-01 to MUD08-30
- ADR Holes: 99-01 to 99-05
- Metagreg Holes: CL81-1 and CL81-2

**Showings**

- Also Showing
- The line indicates the location, length and strike
- Showing No. 1
- Other Showing
- With Au values, sample type and sample taker
- 4.79 gr/Au, Gneiss
- Au
- Au  $> 0.1$  g/t in rock sample
- Misc. Symbols
- Roads
- Rivers
- Alto IP Anomalies
- Performed by Alto by Aurifer Geophysics
- Historical Pit



**Alto Ventures Ltd.**  
**Mud Lake Project**  
**Summary of 2009 Work**  
 January 10, 2011  
 Compiled and Drawn by: D.K.  
**Map 1**



### Legend

**Sample Locations: Au (ppb)**

- 2.5 - 50.0
- 50.0 - 100.0
- 100.0 - 500.0
- 500.0 - 5000.0

Expansion Lake claims

Mud Lake claims

Contours

Light road

Railway

Main logging road

Unpaved access road

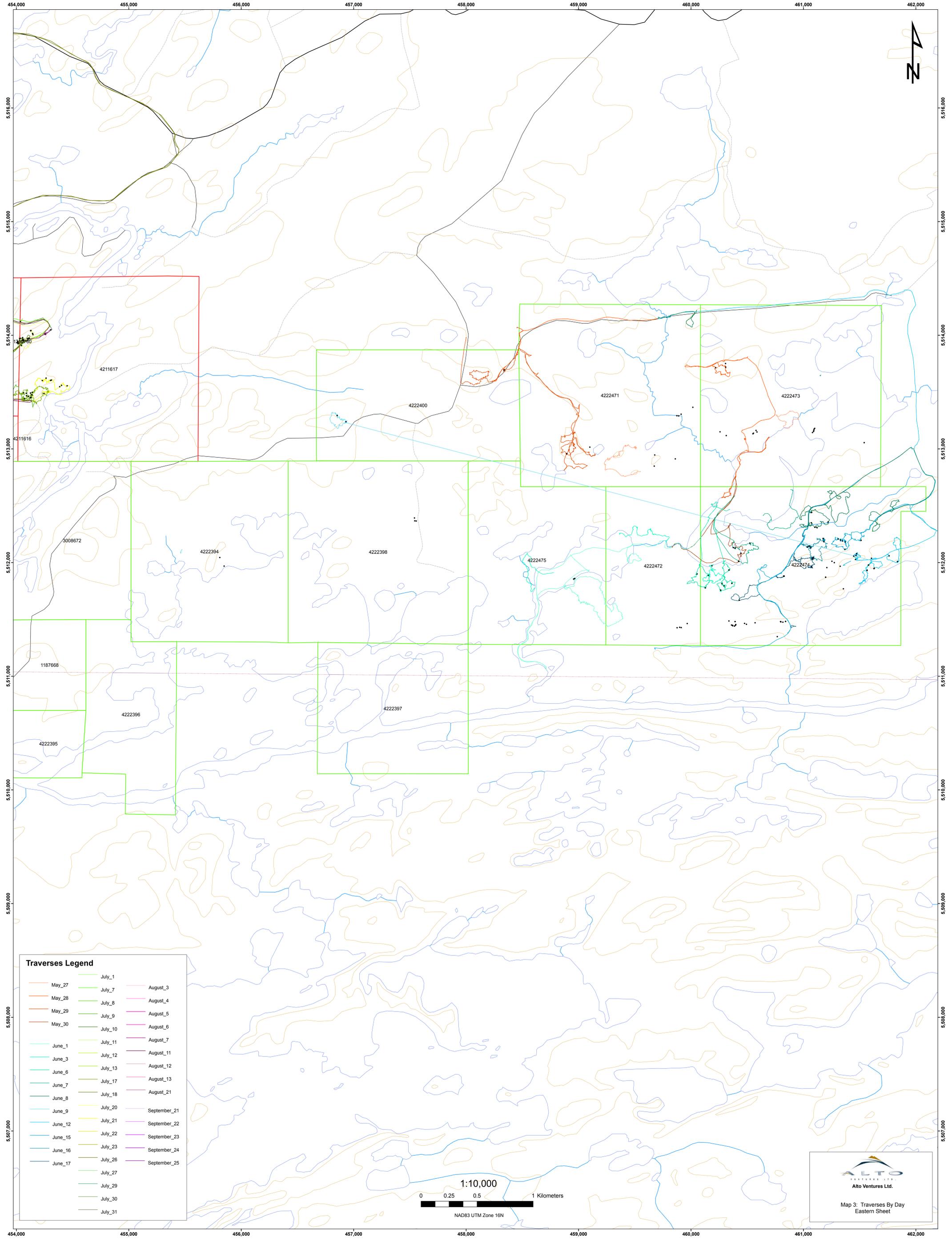
Rivers and creeks

Lakes and ponds



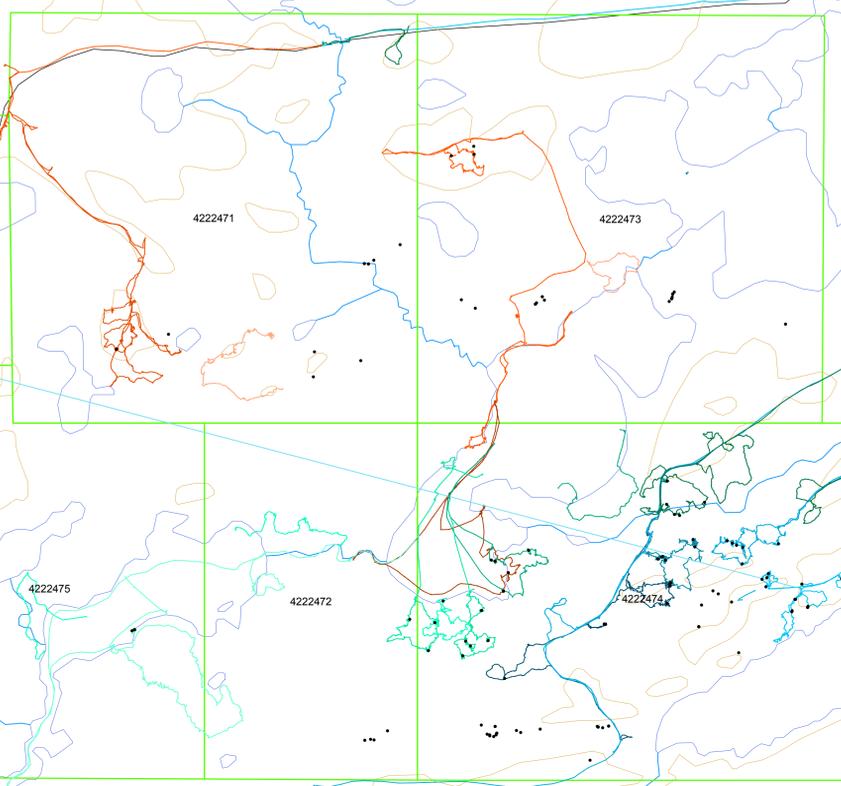
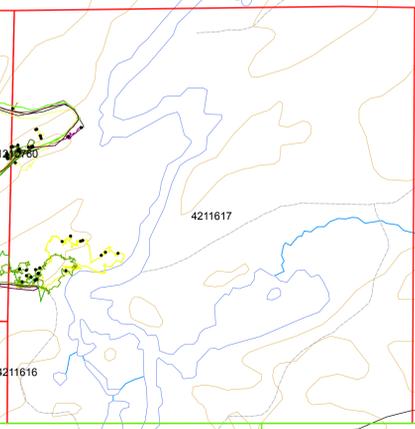
**Alto Ventures Ltd.**

Map 2: 2009 Expansion Lake and Mud Lake Prospecting Grab Sample Locations



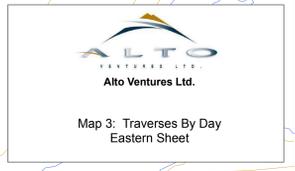
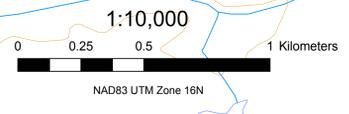
454,000 455,000 456,000 457,000 458,000 459,000 460,000 461,000 462,000

5,516,000 5,515,000 5,514,000 5,513,000 5,512,000 5,511,000 5,510,000 5,509,000 5,508,000 5,507,000

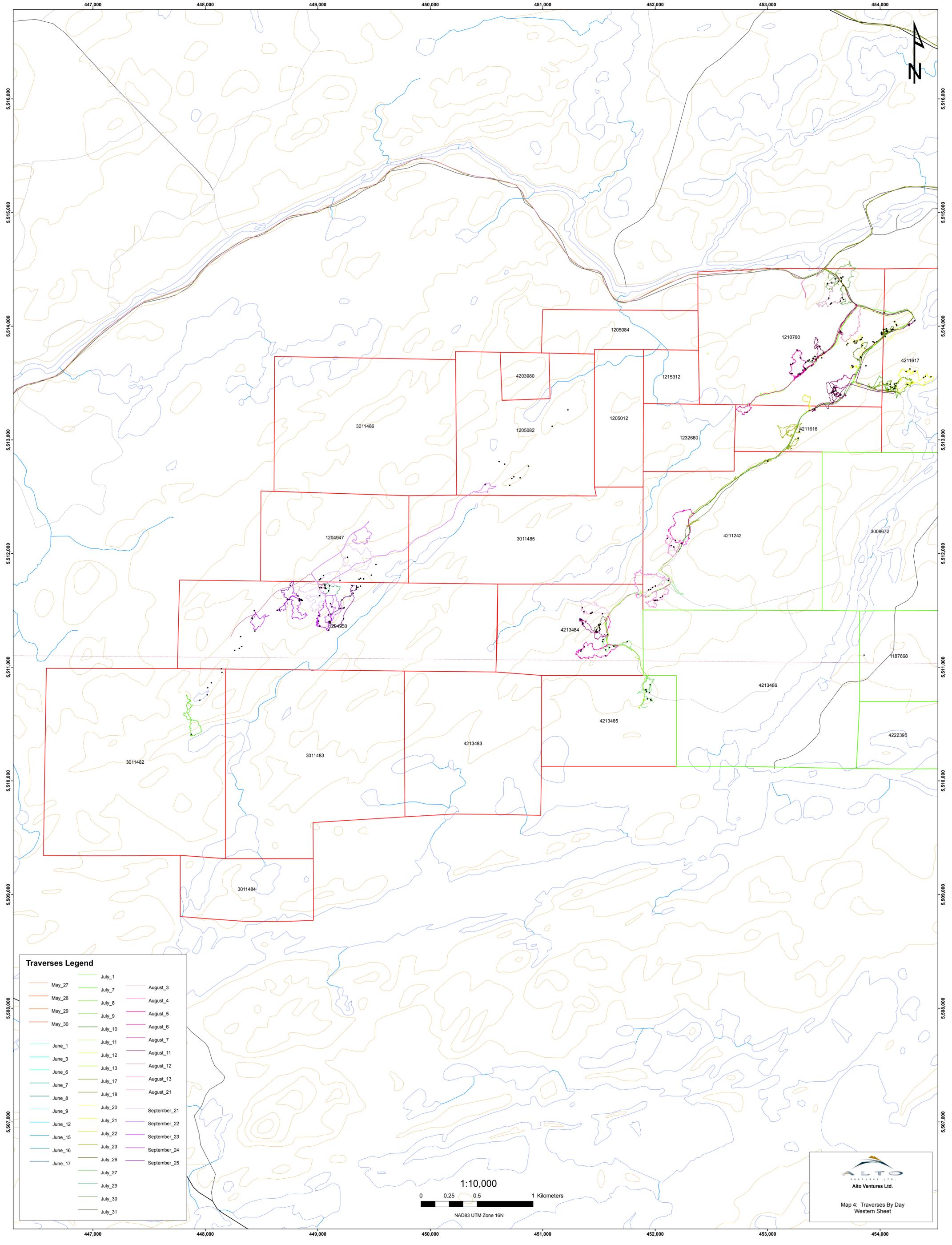


**Traverses Legend**

May_27	July_1	August_3
May_28	July_7	August_4
May_29	July_8	August_5
May_30	July_9	August_6
June_1	July_10	August_7
June_3	July_11	August_11
June_6	July_12	August_12
June_7	July_13	August_13
June_8	July_17	August_21
June_9	July_18	September_21
June_12	July_20	September_22
June_15	July_21	September_23
June_16	July_22	September_24
June_17	July_23	September_25
July_26	July_27	
July_29	July_30	
July_31		

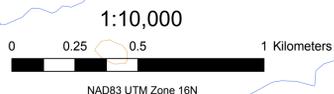


454,000 455,000 456,000 457,000 458,000 459,000 460,000 461,000 462,000



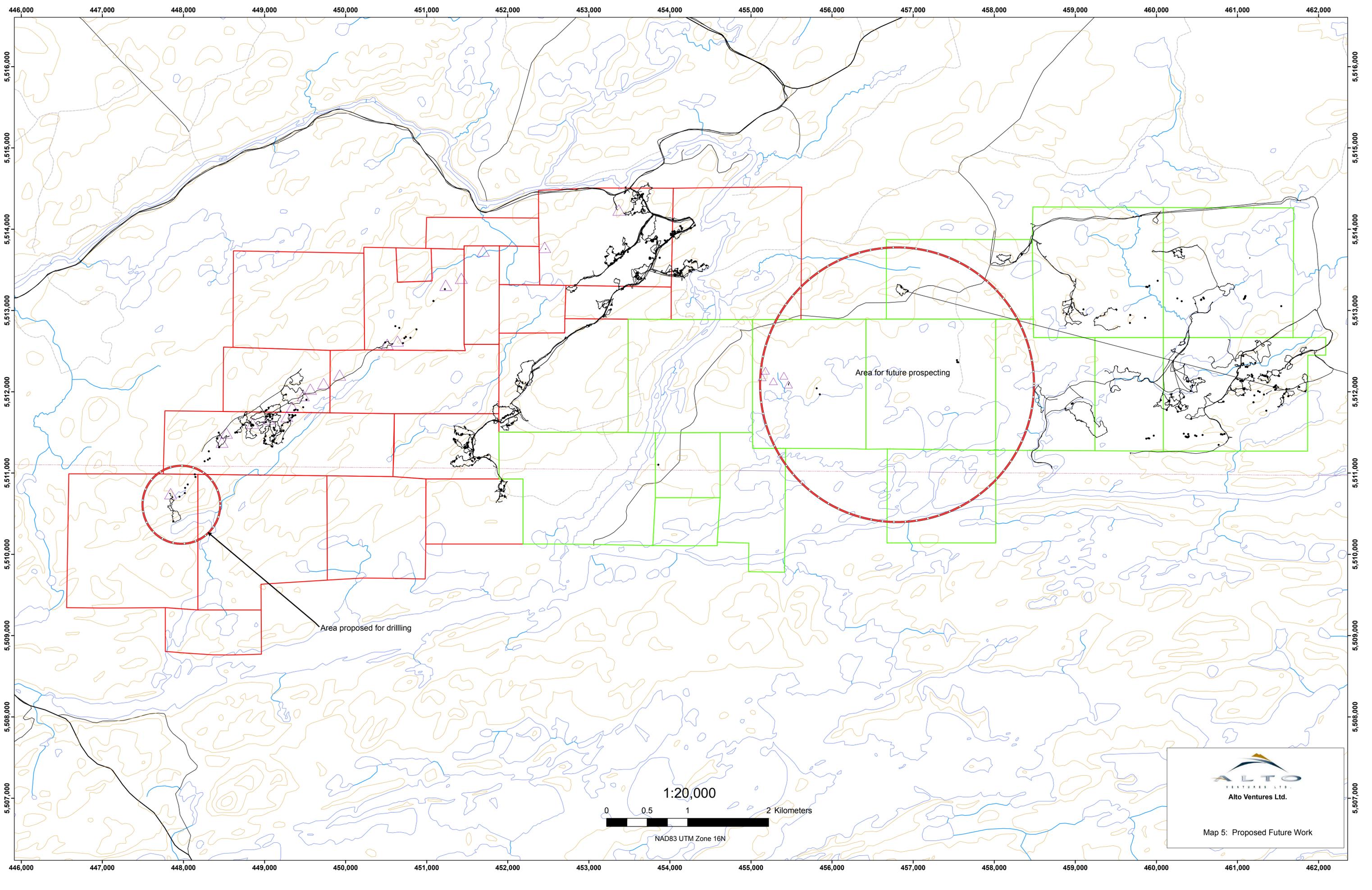
**Traverses Legend**

- |         |         |              |
|---------|---------|--------------|
| May_27  | July_1  | August_3     |
| May_28  | July_7  | August_4     |
| May_29  | July_8  | August_5     |
| May_30  | July_9  | August_6     |
| June_1  | July_10 | August_7     |
| June_3  | July_11 | August_11    |
| June_6  | July_12 | August_12    |
| June_7  | July_13 | August_13    |
| June_8  | July_17 | August_21    |
| June_9  | July_18 | September_21 |
| June_12 | July_20 | September_22 |
| June_15 | July_21 | September_23 |
| June_16 | July_22 | September_24 |
| June_17 | July_23 | September_25 |
| July_27 | July_26 |              |
| July_29 | July_27 |              |
| July_30 | July_29 |              |
| July_31 | July_30 |              |



**ALTO**  
ALTO VENTURES LTD.

Map 4: Traverses By Day  
Western Sheet



Area proposed for drilling

Area for future prospecting

1:20,000

0 0.5 1 2 Kilometers

NAD83 UTM Zone 16N



Map 5: Proposed Future Work