2.53062

STRIPPING AND TRENCHING REPORT ON THE DIXIE LAKE PROPERTY

By Larry Herbert and A. P. Pryslak

August, 2012.

A report by the same authors dated November 12, 2010, covered the first phase of mechanical and manual stripping on L. Herbert's Dixie Lake Property. The property comprises of 48 contiguous claims, 14 claims being added on to the 2010 Block, mostly in the area to the west and south of the original property. Although assays values for base and precious metals were not overly high, the values obtained were sufficiently encouraging to justify further exploration. The area in the vicinity of the earlier stripping has less than 1% bedrock exposure. The identification of rhyolite lithologies with marginal proximal sulphide-bearing tuffs carrying low Cu values and strongly ankeritic mafic dikes with spotty gold values within quartz-tourmaline ladder veins, were sufficiently encouraging to continue with the stripping program. This report covers Phase II of that program from October 21, 2010 to July 31, 2012.

Access to the property is by means of a resource road locally known as the Dixie Lake Road. The first junction with HWY 105 is at kilometer 16, south of the town of Red Lake, Ontario. The 50 kilometre Dixie Lake Road loops around to the west and south and comes back to HWY 105 at kilometer 32. A secondary logging road at kilometer 25 trends north to the property and the stripping areas, centered in the vicinity of kilometre 8-10. The access roads can be seen in Figure #2, with roads to the stripping areas illustrated in Figure #3.

The Precambrian Geology of the area is poorly understood as the glacial deposits are extensive and prohibitive. The bedrock lithologies have been identified by Sandborn-Barrie et al (2004) as belonging to the Confederation Assemblage. The rhyolite sequence of lithologies within the Dixie Lake Property are interpreted to be related to a similar suite of rocks located in the Uchi Lake Belt, approximately 75 kilometres east of the Dixie Lake area. These were host to the mined- out South Bay mine VMS deposit.

This Phase II stripping program met with some immediate success. Backhoe excavations on claim 4241242, immediately south of claim 4241241, that is host to a sequence of rhyolite, uncovered a 30 metre wide carb zone (see Figure #12). Initial sampling returned anomalous values in Au (30ppb) and As (141 ppm). The discovery was made in mid October, 2010 and intermittent mechanical stripping was carried out into January, 2111.This activity was possible due to the unusual mild winter with very little accumulation of snow. Further west, on claim 4252904, D-7 stripping was carried out in an area that hosted an old trench in a strongly gossanous I.F. (see Figure #13).

In April, 2011, the new stripping season commenced in the area located approximately 500-600 metres due south of Carb Zone, but on the east side of the north-east flowing creek. (Figure #12). The starting point was a small outcrop of strongly epidotized breccias. The outcrop was extended approximately 50 metres southwest and north-east. The excavation revealed the presence of a series of north trending, shallow west dipping (20-30 degrees) quartz-calcite-tourmaline veins, 5-30cm thick and mineralized with minor chalcopyrite. Trenching uncovered near massive chalcopyrite in the northeast vein. Assays returned up to 4.5 g/t Au and 11.5% Cu.

A diamond drill program was carried out in the latter part of October, 2011. Three drill holes were completed in the vicinity of the Cu-Au veining, described above and the fourth drill hole was put down across the carb zone and extending into the swampy area beyond (see D.D.H.report by the author, March 17, 2012). Herbert continued excavation in the area 150 metres northwest of the original Carb Zone. Here he uncovered a second massive carb unit. The zone was stripped, washed and mapped in November/2011.It is referred to as Carb Zone # 2.

The various stripped areas were mapped by A. P. Pryslak on five separate visits; Carb Zone #1 was reconn-mapped and sampled on October 21, 2011; geological mapping continued on June 16, 17, 18 and 19; July 5 and 6; September 16, 17, and 18; and November 13, 2011. The mapping was at a scale of 1:500, using a GPS with NAD 83 co-ordinates. The Geological and Symbol Legends are illustrated in Tables 1 and 2, respectively. Most figures have been reduced to 1:1000 scale for this report, except where detail is needed for illustration purposes.

The strip areas were labeled 11-A to 11-I, inclusive. These are illustrated in Figure #3. Figures #4 to #13, inclusive, cover the main STRIP AREAS, and enlarged plans are illustrated in Figures #14 to #16. The following section of the report describes the specific activities on each of three claims that the work was carried out. This is followed by a list of expenditures for each claim. Assays results and geochemistry is appended.

ACTIVITIES ON CLAIM 4241241

Strip areas 11-A, 11-B, 11-C, 11-D and the north part of 11-E fall within this claim. The work can be followed on Figures #4 to #9, inclusive.

Strip Area 11-A includes 5 separate strip areas that total 2115 square metres. They are an extension of Strips-1 and2 in the 2010 report (fig. 14). The main purpose for Strip 11A-1 was to prospect for additional quartz veining. A gabbro intrusion occurs in the NW part of the excavation. The contact with the basalt flows to the south trends at 50 degrees and is sheared with strong ankerite alteration associated with minor chalcopyrite. Samples 56662 and 56663 assayed nil in Au. A felsic dike of 2-3 metres width occurs near the south part of the stripping. This dike can be traced towards the west onto strip 11-A-3. Approximately 10 metres south of this dike is a strong silicified shear with minor disseminated pyrite. Although it looked promising for gold, assay values on samples 56660 and 56668, were nil. The central section of this stripping has a number of white quartz veins, trending N70E with steep northerly dips. The veins are from 1-25cm in width. Assays for Au were disappointing (samples 56664,-5,-6 and -7).

Strip area 11-A-3 was further excavated and washed in an attempt to test the extension of the silicified tuff/ shear observed at the south part of Strip 11-A-1. This unit is cut off by a fairly fresh gabbro, that is somewhat horseshoe shaped. It does intrude across the felsic dike described above for the Strip 11-A-1.

Strip Area 11-G, Figure #11 (Figure #15 for detail), features the second carb zone. It was first discovered in the late part of the 2010 field season (Nov/2010). Stripping and washing continued in several phases in 2011, exposing the zone over a strike length of 75 metres. Two bands of laminated ankerite, 1-2.5 metres in width are separated by several metres of altered basalt. The zone trends at 65 degrees, dips are steeply to the north. Traces of pyrite and acicular arsenopyrite were identified. A total of 73 grab and channel samples were cut; the best Au value was 45 ppb and the best As was 605 ppm.

Strip Area 11-H (Figures# 12 and 14) is located 550 metres due south of Carb Zone #1 and lies on the east side of the topographic low with a creek and marks the east limit to outcrop in the Carb Zone. Two areas of an estimated area of 2200 square metres were stripped and washed. The dominant lithology is the epidotized mafic breccias that has been strongly bleached and carbonated, then under amphibolites metamorphism, transformed into the intermediate looking breccias with its characteristic epidote signature. Shearing and strong biotite alteration are part of a later event. Where the epidote clasts are absent, the unit has been mapped as basalt. The north trending vein set occurs within this area of stripping. The veins trend northerly and dip 20-30 degrees west. The length of the veins varies from 1-metre to 15 metres, with the limit being due to pinching or shearing. Coarse calite locally forms 20% of the veins. Black tourmaline is a minor component. Chalcopirite generally is found as disseminated to bleb form. In Vein #2, Strip Area 11-H-2, shallow trenching exposed massive pods of cpy. The south end of Strip 11-H-1 is a barren qtz-tourmaline vein with similar orientation and characterized by cm-scale black, biotitic inclusions. It is 10-15 cm thick and appears to be limited by shears, both to the north and south. A total if 18 grab samples were collected for assay and geochem analysis. Sample 797003 assayed 4.1 g/t Au, 11.5% CU and moderately anomalous values in Zn, Pb, As, Bi and Sb. Drill testing was attempted March/2012 , but none of the mineralized veins were intersected. The dips on the veins likely turned to the south, instead of the steep northerly.

ACTIVITIES ON CLAIM 4252904

This area is located approximately 3 kilometres to the west of Strip 11-H. It is all D-7 Dozer work, clearing brush and exposing bedrock in the vicinity of an old trench in gossanous I.F. The total stripping measures approximately 4800 square metres. There was no manual clearing on any of the Bedrock. In Strips 11-I-1 and 2 three bands of chert-sulphide- oxide I.F., 0.5 to 5 metres thick, occur within massive to pillowed basalt. Lithology trends at 030 degrees. A 5-metre FP dike cuts stratigraphy at 080 degrees.

Strip 11-I-3 exposed a sequence of felsic volcanic tuffs intruded by gabbro dikes. The I.F. situated in the old pit, appears to lie close to the contact of felsic and mafic volcanics. Two samples from this unit did not return any significant Au or base metal values. More sampling and geochem info is required for this area.

Strip areas 11-A-2 & 4 are small areas that were done to examine bedrock for quartz or carbonate veining. There was no manual power washing on these two areas.

Strip area 11-A-5 was excavated with a backhoe to check for the mineralized tuff horizon mapped in the main rhyolite section (Fig.13, strip area-13, 2011 report). The horizon is only several metres in width at this location as it is intruded by gabbro, both on the north and south sides.

Strip Areas 11-B-1, 2, 3 and -4, total 1260 square metres (Figure#-5). They are all proximal to the main rhyolite stripping from 2008 (see Fig.13, Strip Area-G, 2010 report). Strip 11-B-1 is mainly in massive rhyolite, but exposed a 1-2 metre band of black biotite. It would appear to be an altered dike, except that 80 metres to the east (strip area 11-B-3) the contact between the rhyolite and host basalts is exposed. This contact is sheared and strongly biotitized. The black biotite would indicate that the rhyolite is intrusive into an altered and sheared basalt sequence, rather than being extrusive, as originally expected. The sheared contact in Strip 11-B-3 is approximately 20 metres in width. There is a cherty tuff unit approximately 35 metre east of the contact. Sampling of both of these units returned nil values in Au. Strip areas 11-B-2 and -4 exposed only more rhyolite. The area between these two strips was clear-cut and exposed a number of outcrops, all being rhyolite.

Strip Area 11-C is located east of 11-B and includes 9 separate excavations. Strips 11-C-1 to 5 are illustrated in Figure #6 and Strips 11-6 to 9 are illustrated in Figure #7. The combined areas represent approximately 1525 square metres. The strips 11-C-1 to 5 were done in an attempt to follow the contact between the rhyolite to the NW and the basalt sequence to the SE. Strip 11-C-1 is essentially a cleaned-off outcrop with pillowed basalt to the north and a medium grained basalt of gabbro to the south. The pillowed-coarse flow contact can be traced to the north-east onto Strip 11-C-2. A fault trending at 100 degrees on azimuth, occurs at 5629515N. The lithologies in this northern section of Strip 11-C-2 are very different from those to the south. Pillowed flow breccias underlies the extreme 5 metre section, followed by a 1-metre band of cherty tuff, similar to that observed in Strip 11-B-3. This is followed eastwards by massive basalt and then a monolithic breccia. This breccia is interpreted as being related to the 100 degree fault, mentioned above. The bleaching is likely from pervasive carbonate alteration along the structure, followed by disruption into lapilli-like clasts.

Strip 11-C-4 is in rhyolite with numerous black biotitic inclusions, similar to that seen in Strip 11-B-1. White, bully and barren quartz veins up to 25 cm are present. The contact with the basalts could not be reached, as the south end of the strip quickly reached a depth of 3+ metres. Strip 11-C-5 is immediately south of the logging road and the bedrock is all massive rhyolite.

Figure #7 shows 4 small excavations, each of approximately 80 square metres. The main purpose for this work was to examine the area along the edge of the clear-cut for lithology identification. The exposed bedrock in all cases is breccias with strongly epidotized sub-angular fragment in a dark hornblende-biotite rich matrix. Many of the fragments are amygdaloidal basalt; the epidote being a product of strong pervasive carbonate alteration, under amphibolites grade metamorphism. None of the stripped areas were washed and no sampling for assay purposes carried out.

Strip area 11-D is the located at the far eastern limit of potential outcrop in this area with an area of low ground and creek immediately to the east (see Figure #8). A turn-around logging road marks the end of the clear cut operations. A moss and thin mantle of glacial till cover a sub-outcrop that was cleared over an area of 400 square metres using a D-7 CAT Strip areas 11-D-1 &2). The bedrock is of a coarse grained, massive pyroxenes (or amphibolites?). Several pods of epidote alteration over 10-40 cm were noted. These probably represent carbonate alteration or possibly inclusions of the epidotized breccias described above for Figure #7. Strip area 11-D-3 is a small D-7 clearing on the margin of the clear-cut. The bedrock here is the epidotized basalt breccias. No sampling was done in Area – D.

The north part of Strip Area 11-E, Figure # 9, falls within claim 4241241. It lies 500 metre south of rhyolite exposures in strip areas 11-B & C (Figures #5 & 6). Strip area 11-E-1 covers two areas, totaling 560 square metres and separated by a 6-8 metre section of glacial till. The bedrock was washed, but no samples collected for assay purposes.There is a 5-10cm brown weathering carb vein, trending 070 degrees. The rocks belong to the basalt breccias unit, 2d, which is strongly epidotized.

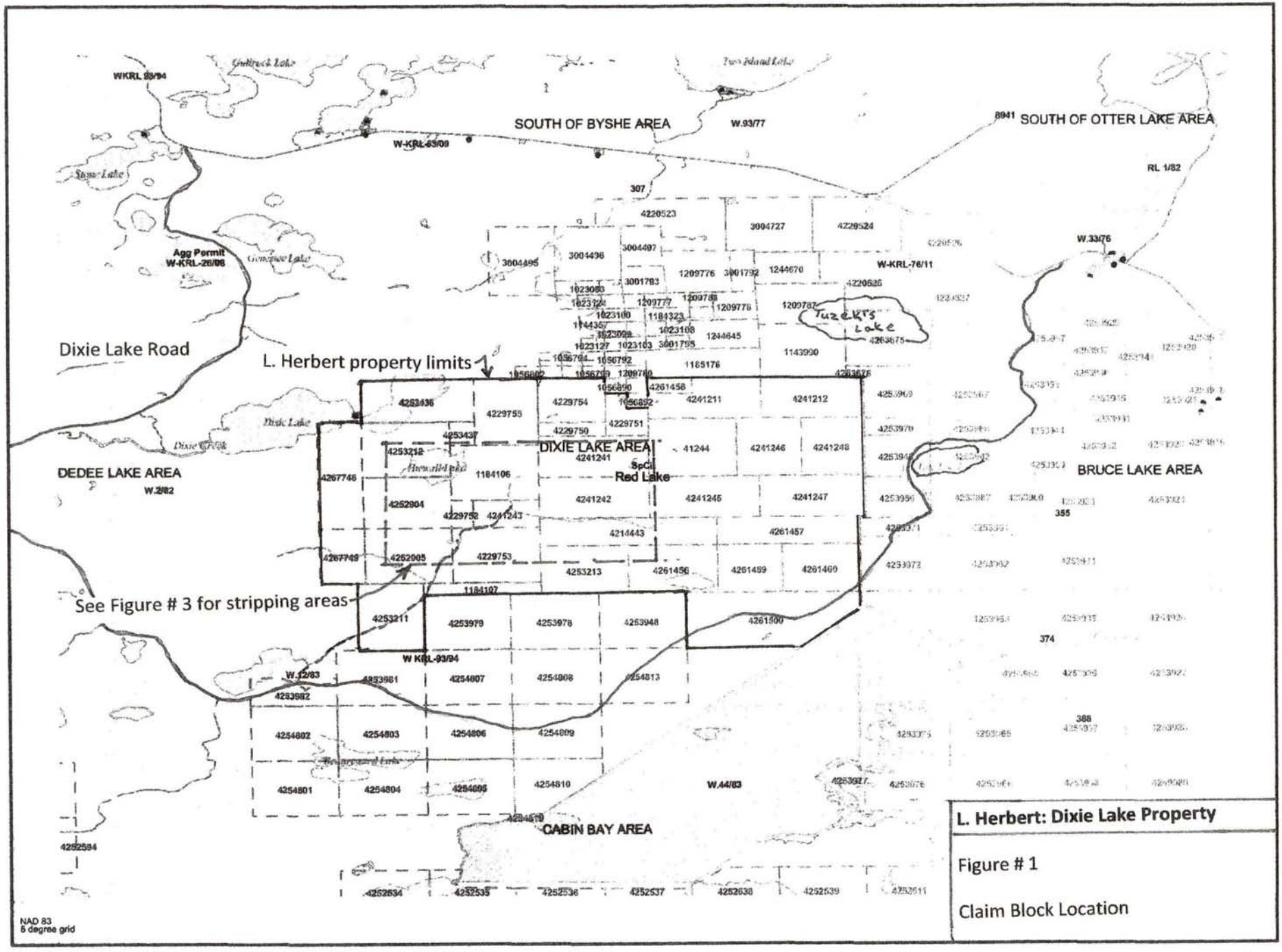
ACTIVITIES ON CLAIM 4241242

Strip areas within this claim are labeled as 11-E-2, 11-F, 11-G and 11-H (Figures # 9, 10, 11, 12, 14, 15 and 16. Note that Figures 14, 15 and 16 are expanded versios at 1:500 scale to allow for detail in geology and sampling data.

Strip area 11-E-2 covers approximately 700 square metres and exposed massive basalt, quite coarse grained, but locally amygdaloidal. There is a feldspar porphyry unit of 1 to 2 metres thichness, laminated, that is interpreted to be a dike. On the south side of this dike are three inclusions of rhyolite, up to 0.5 metres diameter, indicating that the mafic unit may well be intrusive? However, near the south part of the stripped area is a felsic cherty tuff horizon, well laminated, 10-15 cm in width and trending 055 degrees with a vertical dip. Most of the exposure is strongly foliated and biotitized. No samples for assaying were collected.

Strip area 11-F is comprised of 4 separate areas, all excavated by backhoe and washed by a wajax pump. The combined stripping totals approximately 2400 square metres. The work resulted in the discovery of a band of massive carbonate, up to three metres wide within a section of pillowed to massive basalt. Areas 11-F-1, -2 and -4 were areas selected around several small outcrops located within a topographic high. The striping's stretch over a distance of 150 metres and establish the contact between the epidotized basalt breccias unit to the northwest and massive basalt to the southeast. The contact trends at an azimuth of 050 degrees. The brown weathering iron-carb zone trends on an average of 080 degrees; 20 to 30 degrees to stratigraphy. A 1-2 metre shear several metres to the north of the carb vein, is mineralized with 2-5% disseminated pyrite-pyhotite. A reddish, medium grained granitic dike intrudes the basalts several metres south of the carb vein. Sections of the massive basalts are medium grained and maybe intrusive, rather than extrusive. The excavations were washed and nine samples collected for assaying. Low, anomalous values in AU were returned on three samples, with the highest of 102 ppb in sample 56662 (see Figures #10 and 16).

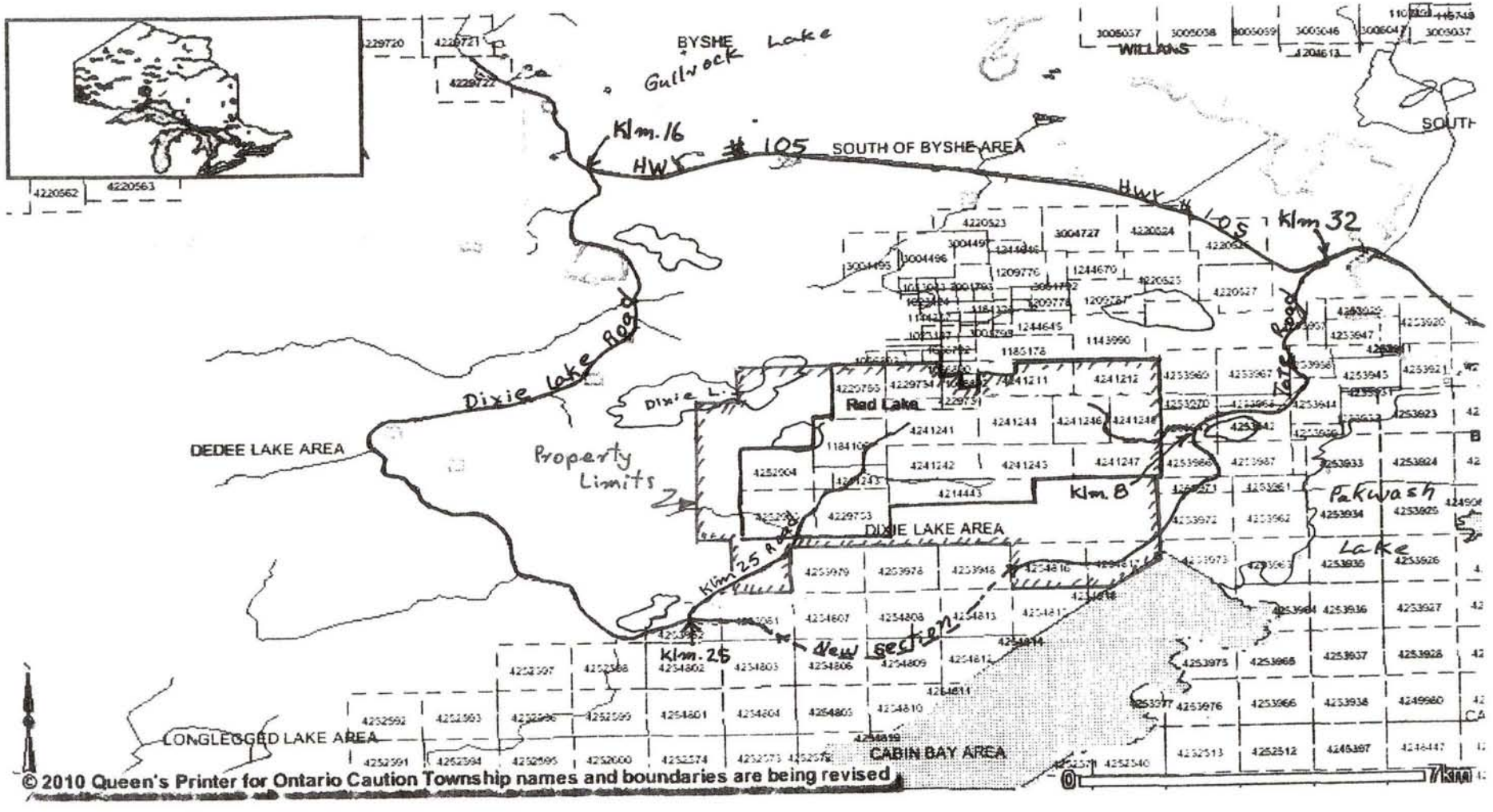
APPENDIX I; LIST OF FIGURES AND TABLES, DIXIE LAKE PROPERTY



L. Herbert: Dixie Lake Property

Figure # 1

Claim Block Location



L. Herbert: Dixie Lake Property

Figure # 2

Access & Location

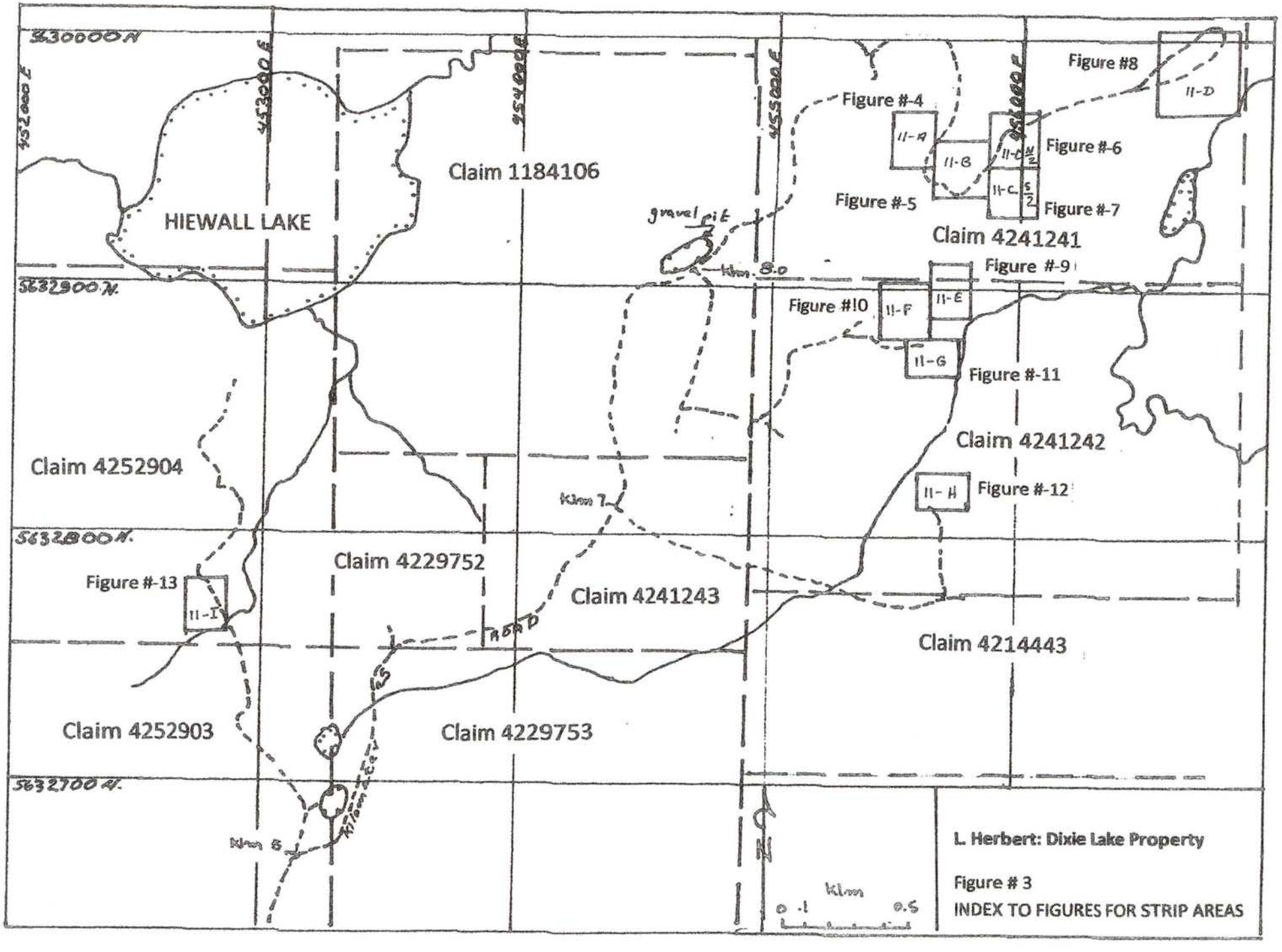
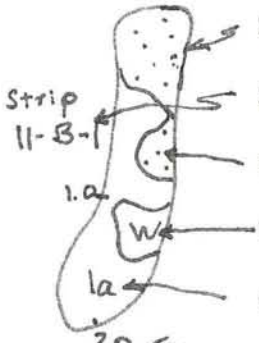

5630000N
452000E
453000E
454000E
455000E
456000E
Figure #8
II-D
Figure #-4
II-A
II-B
II-C
N/2
S/2
Figure #-6
Figure #-7
Figure #-5
Claim 1184106
HIEWALL LAKE
gravel pit
Km 8.0
Claim 4241241
Figure #-9
5632900N.
Figure #10
II-F
II-E
II-G
Figure #-11
Claim 4241242
Claim 4252904
Km 7
II-H
Figure #-12
5632800N.
Claim 4229752
Figure #-13
II-I
Claim 4241243
ROAD
Claim 4214443
Claim 4252903
Claim 4229753
5632700N.
Km 6
Km
0 .1 0.5
L. Herbert: Dixie Lake Property
Figure # 3
INDEX TO FIGURES FOR STRIP AREAS

Table No. 1: GEOLOGICAL LEGEND

8. FELSIC INTRUSIVES
    a. Fine grained dikes
    b. Granodiorite
7. MAFIC INTRUSIVES
    a. Gabbro, fine grained
    b. Gabbro, coarse grained
    c. Pyroxenite
    d. Diorite
6. SUBVOLCANIC INTRUSIVES
    a. Quartz porphyry
    b. Quartz-feldspar porphyry
    c. Feldspar porphyry
5. CLASTIC METASEDIMENTS
    a. Argillite
    b. Wacke-sandstone
    c. Conglomerate, heterolthic
4. CHEMICAL METASEDIMENTS
    a. Chert-magnetite/hematite (oxide facies)
    b. Chert-sulphide (sulphide facies)
3. FELSIC VOLCANICS
    a. Massive flows, tuffs
    b. Tuffs, layered
    c. Spherulitic flows, tuffs
2. INTERMEDIATE VOLCANICS
    a. Massive flows
    b. Tuffs, layered
    c. Lapilli tuff
    d.Breccia/congl. ?
1. MAFIC VOLCANICS
    a. Massive flows
    b. Pillowed flows
    c. Breccia units, flow or pyroclastic?
    d. Medium to coarse grained flows or gabbro
    e. Strongly tectonized mafic units

* all units are metamorphosed to Upper Greenschist-Amphibolite Grade

Table No. 2: SYMBOL LEGEND



Stripped area

Stripped number designation

Overburden covered-stippled

Water covered-W

Geologic unit, i.e. 1c

Depth of overburden

Outcrop area

Topographic slope change

Overburden piles from dozer-significant only

Bedding, azimuth and dip

Foliation, azimuth and dip

Pillow top direction

21732 Sample location and number

10 Quartz vein- width in cm. / flat lying vein

S Sulphide alteration/ rusty

ccc Carbonate vein/alteration

Blasted trench

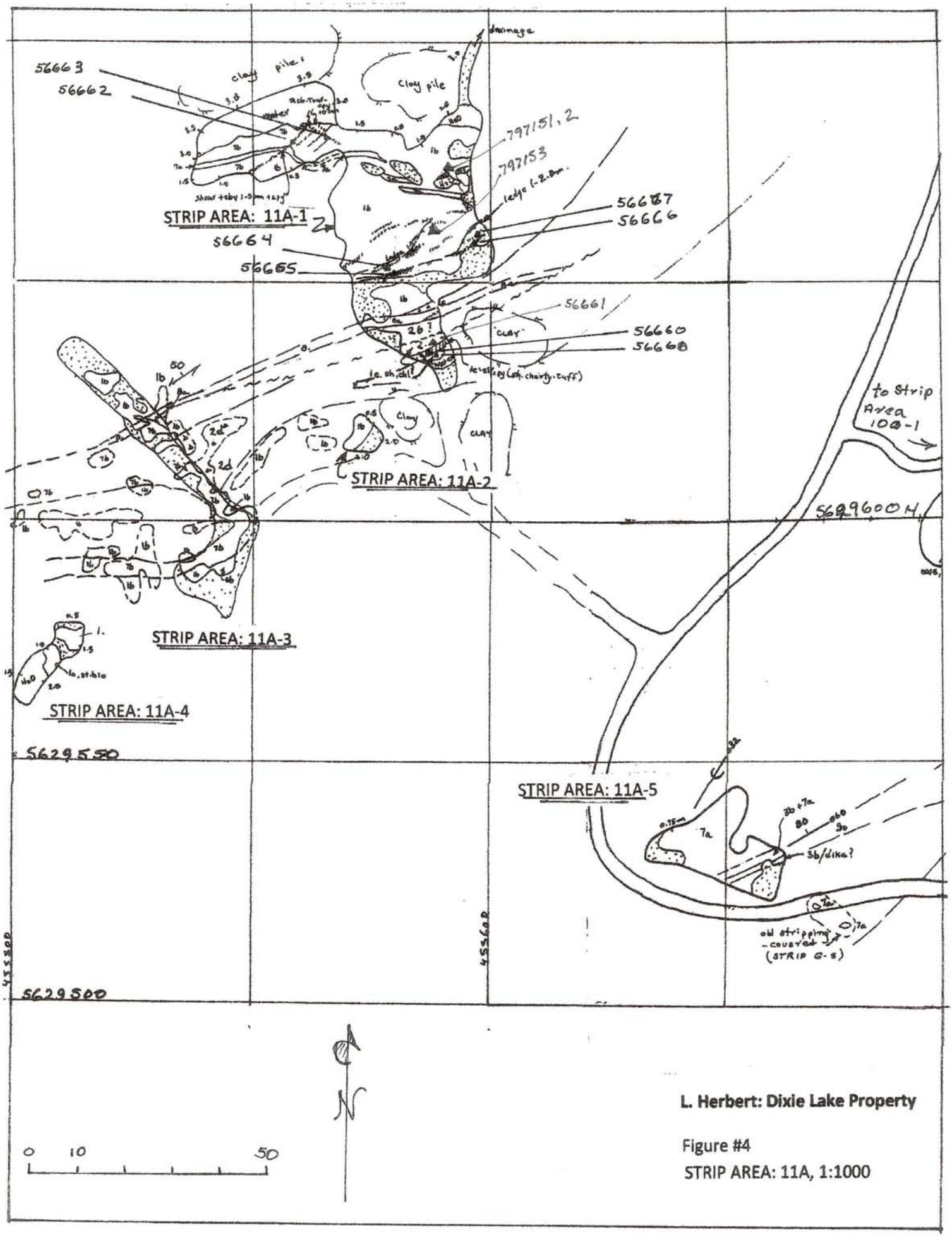
Logging road; major/ trail

Claim post

Claim line, claim number

Geological contact; defined, interpreted

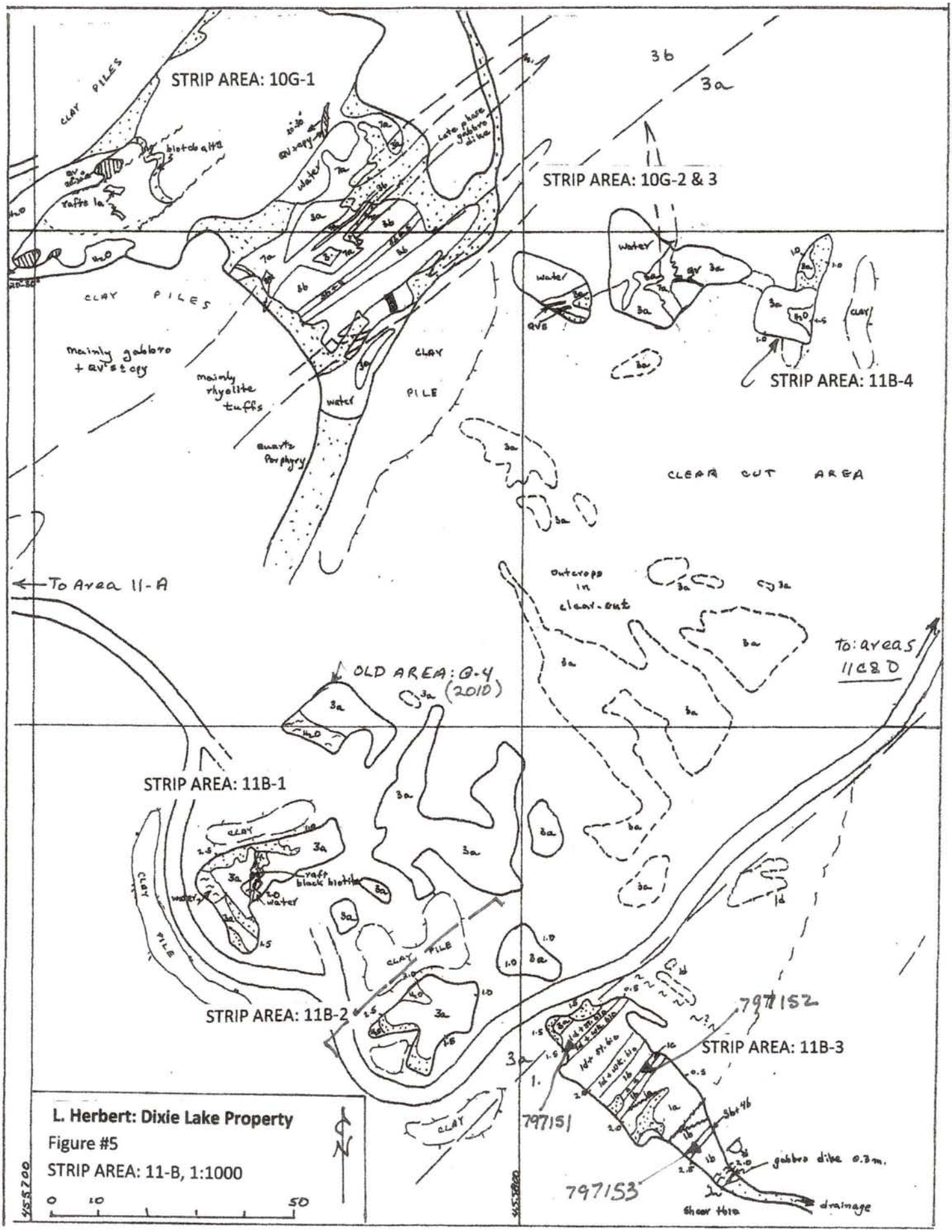
Shear/fault

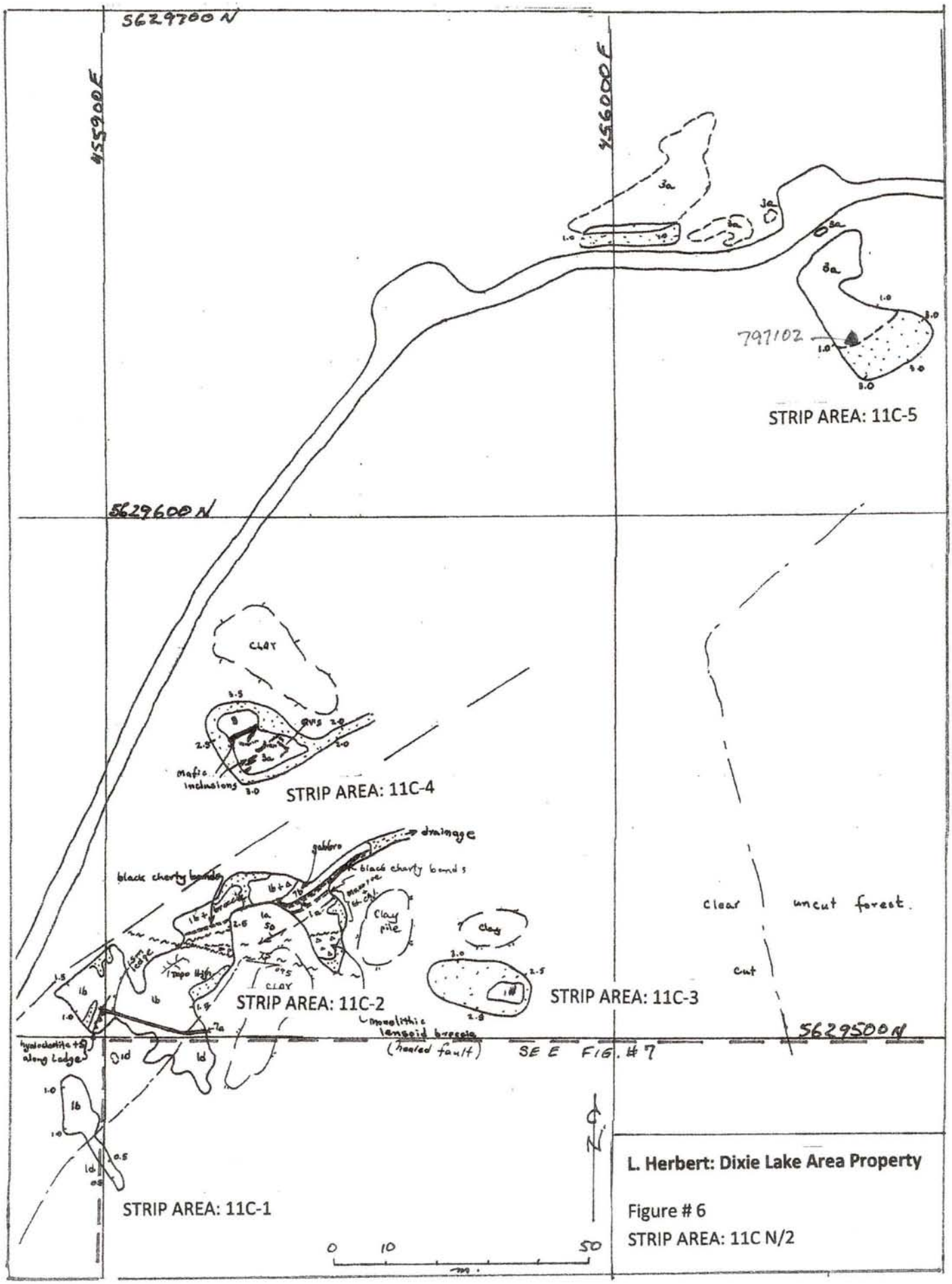


L. Herbert: Dixie Lake Property

Figure #4

STRIP AREA: 11A, 1:1000

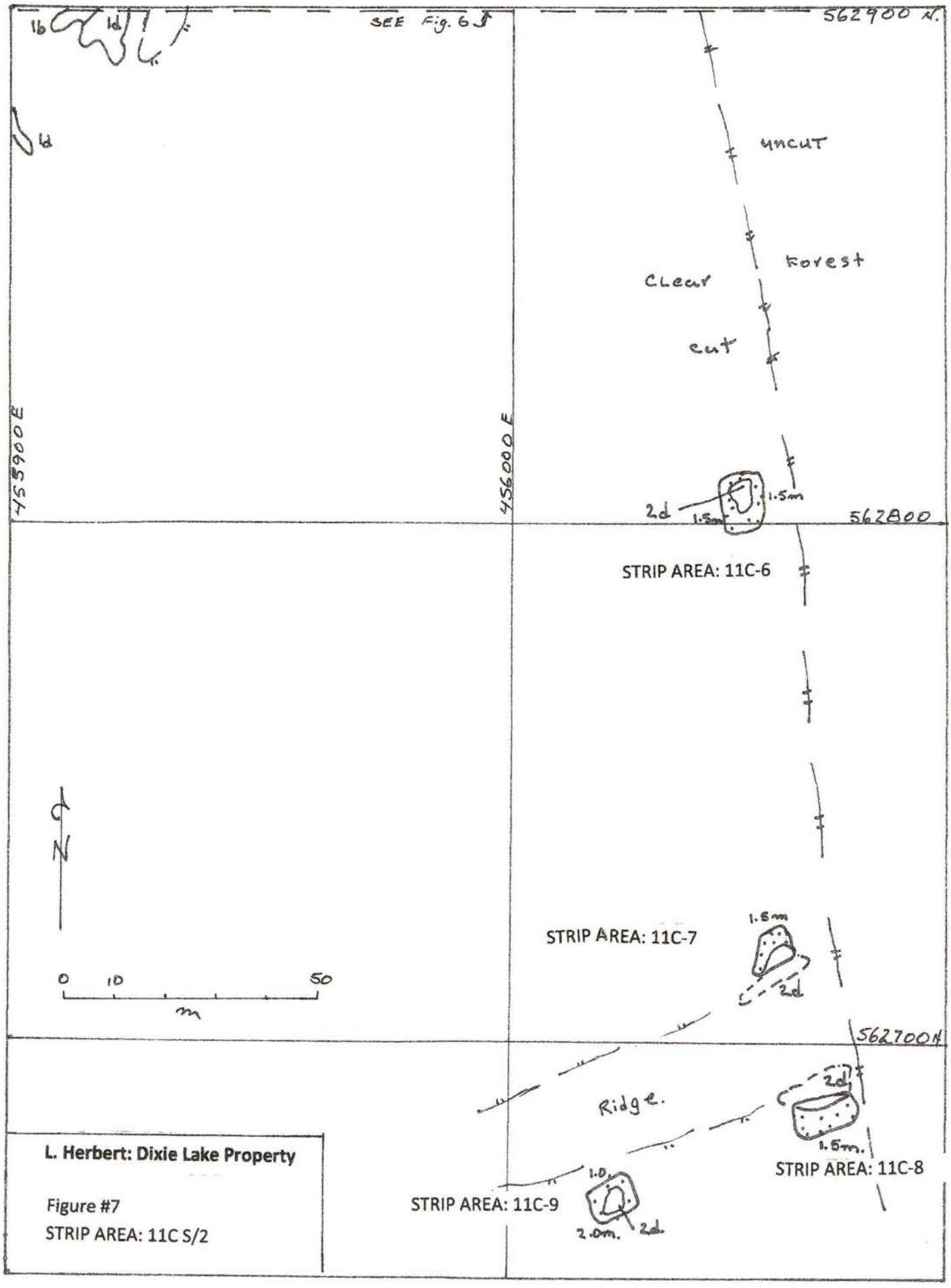

STRIP AREA: 10G-1
STRIP AREA: 10G-2 & 3
STRIP AREA: 11B-4
STRIP AREA: 11B-1
STRIP AREA: 11B-2
STRIP AREA: 11B-3
OLD AREA: G-4 (2010)
CLEAR CUT AREA
CLAY PILES
CLAY PILE
mainly gabbro + qvr ± cpy
mainly rhyolite tuffs
quartz porphyry
late phase gabbro dike
outcrops in clear-cut
To Area 11-A
to: areas 11C & D
797152
797151
797153
gabbro dike 0.3m.
shear zone
drainage
L. Herbert: Dixie Lake Property
Figure #5
STRIP AREA: 11-B, 1:1000
0 10 50



L. Herbert: Dixie Lake Area Property

Figure # 6

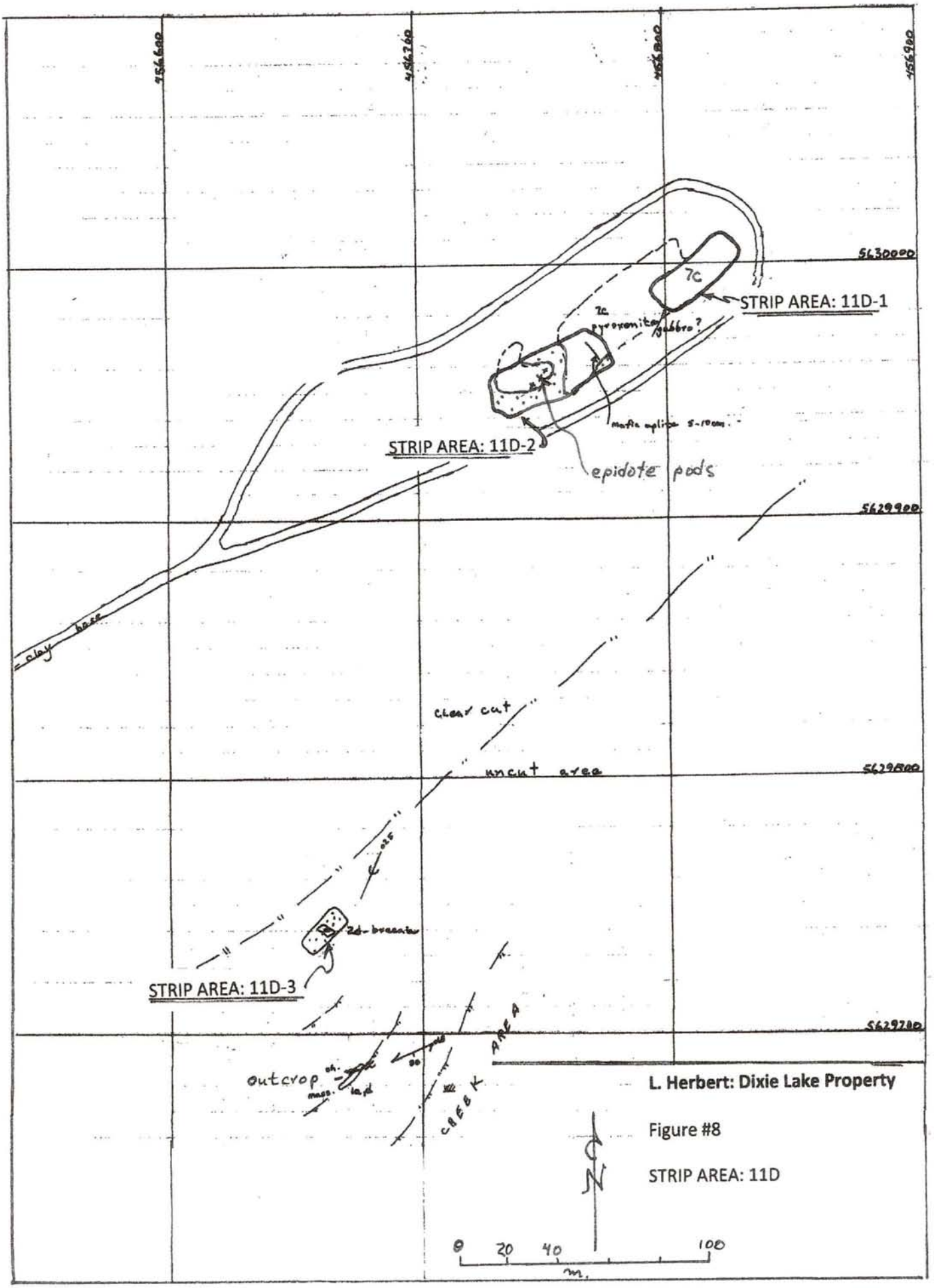
STRIP AREA: 11C N/2



L. Herbert: Dixie Lake Property

Figure #7

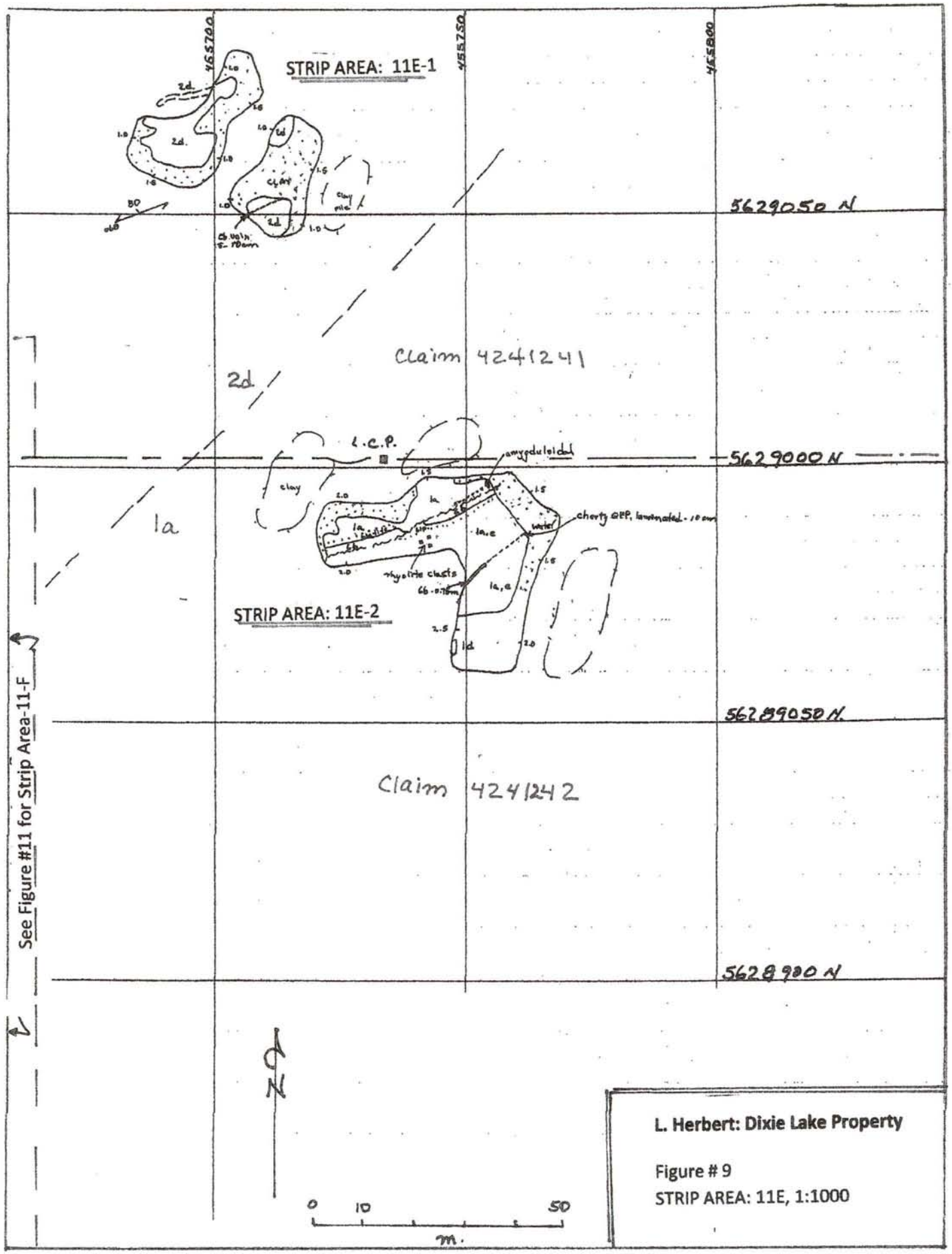
STRIP AREA: 11C S/2

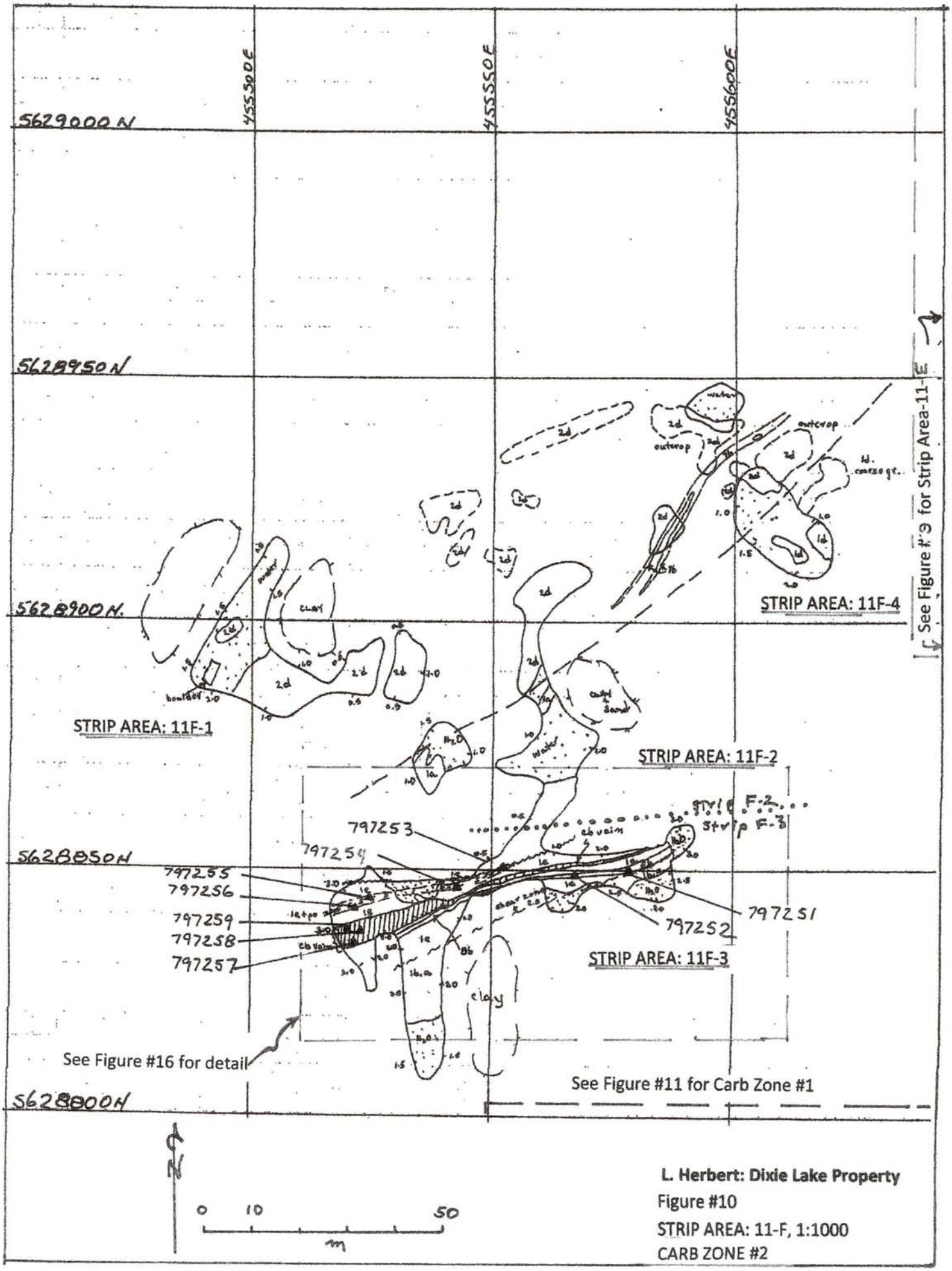


L. Herbert: Dixie Lake Property

Figure #8

STRIP AREA: 11D


STRIP AREA: 11E-1
STRIP AREA: 11E-2
465700
465750
465800
5629050 N
5629000 N
5628950 N
5628900 N
Claim 4241241
Claim 4241242
2d
1a
clay
l.c.p.
amygdaloidal
chert
rhyolite clasts
See Figure #11 for Strip Area-11-F
0 10 50
m.
L. Herbert: Dixie Lake Property
Figure # 9
STRIP AREA: 11E, 1:1000

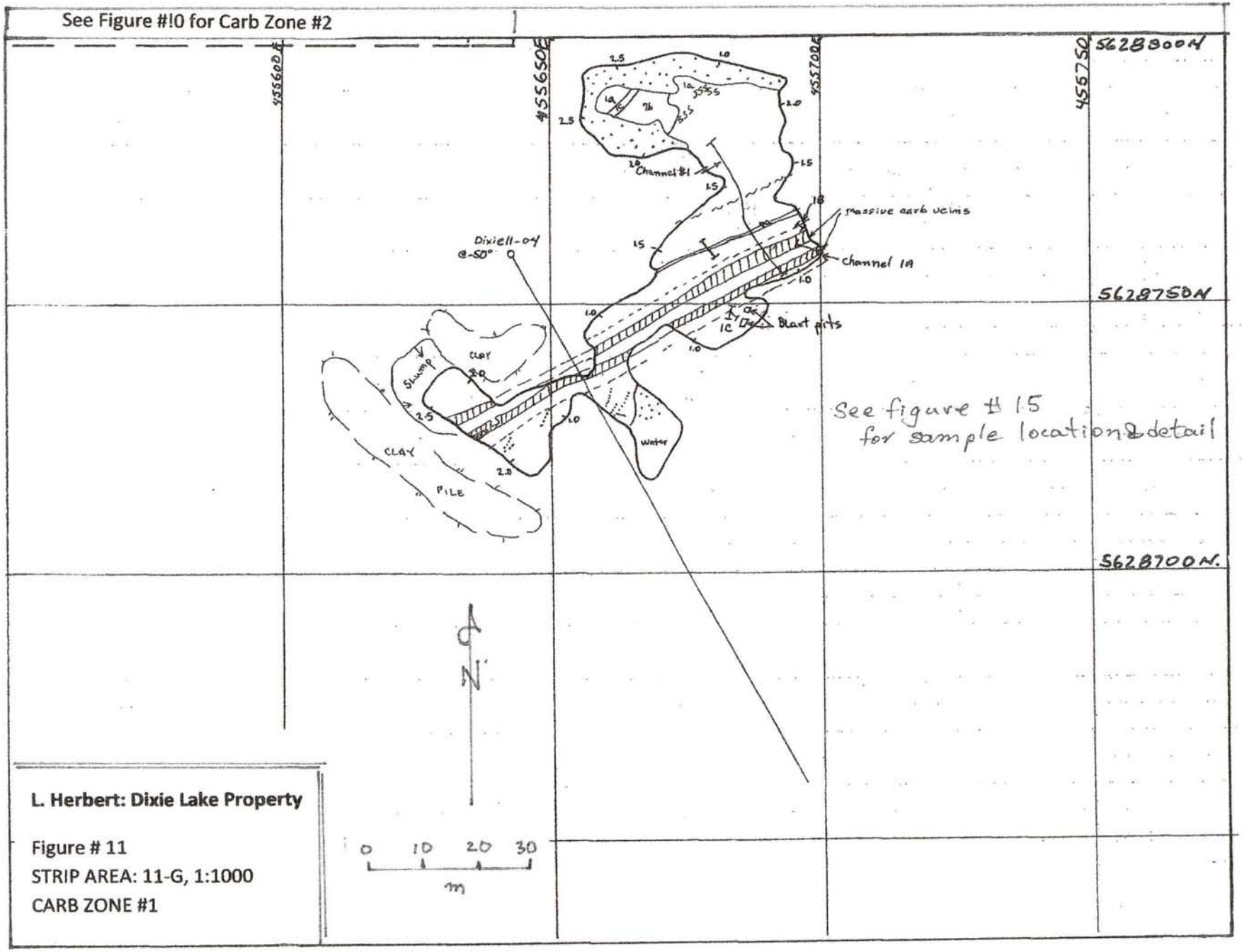


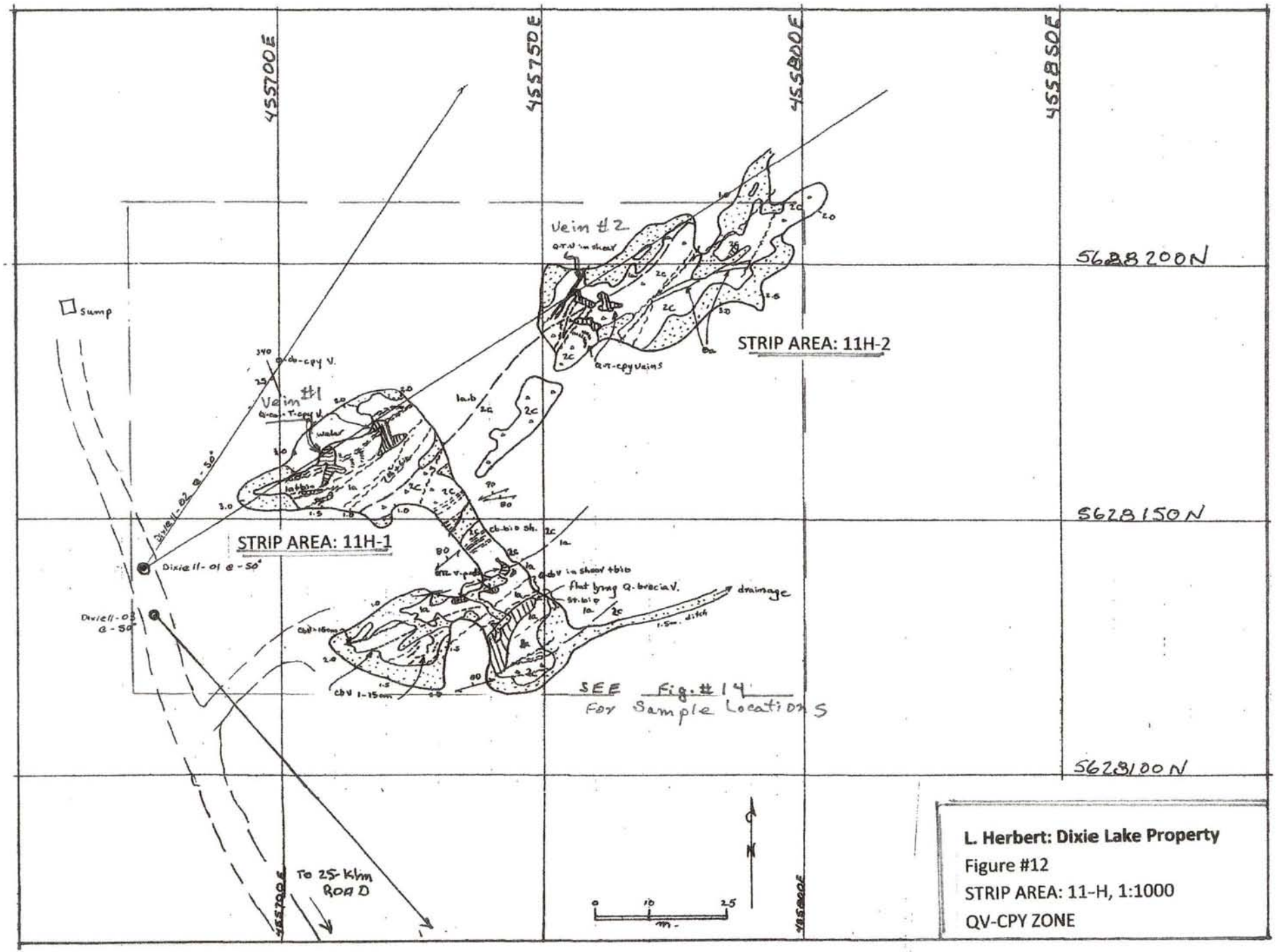
L. Herbert: Dixie Lake Property

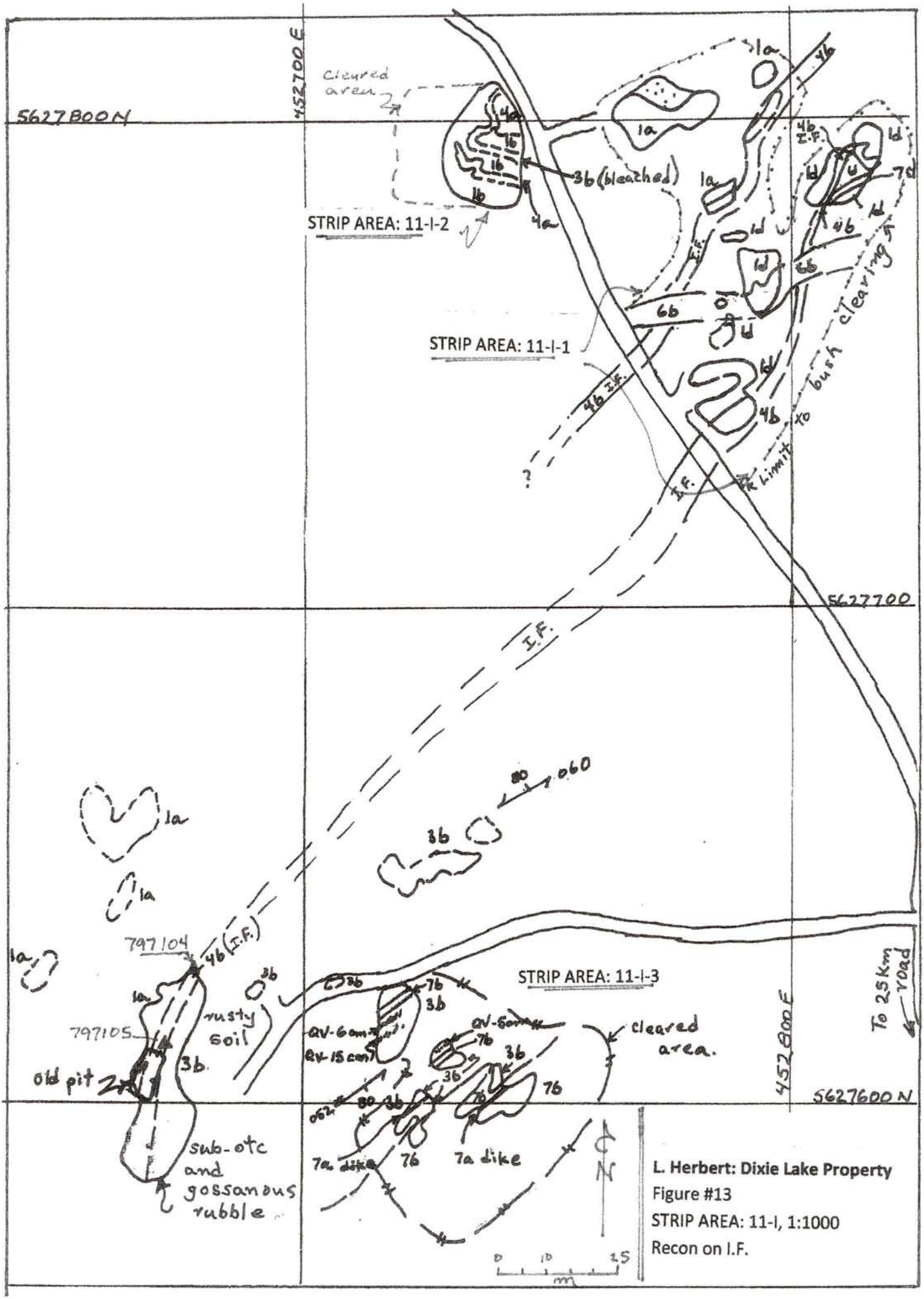
Figure #10

STRIP AREA: 11-F, 1:1000

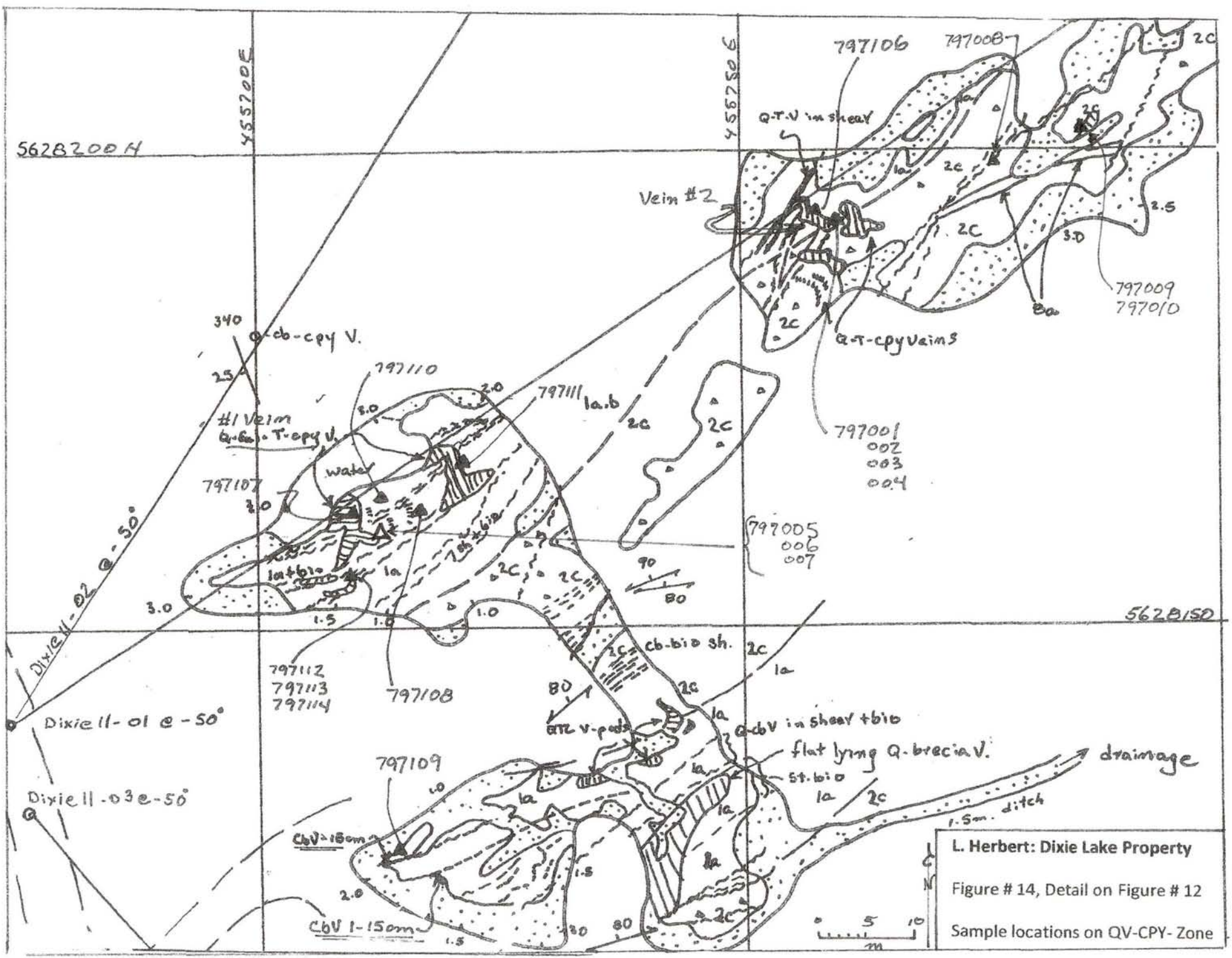
CARB ZONE #2

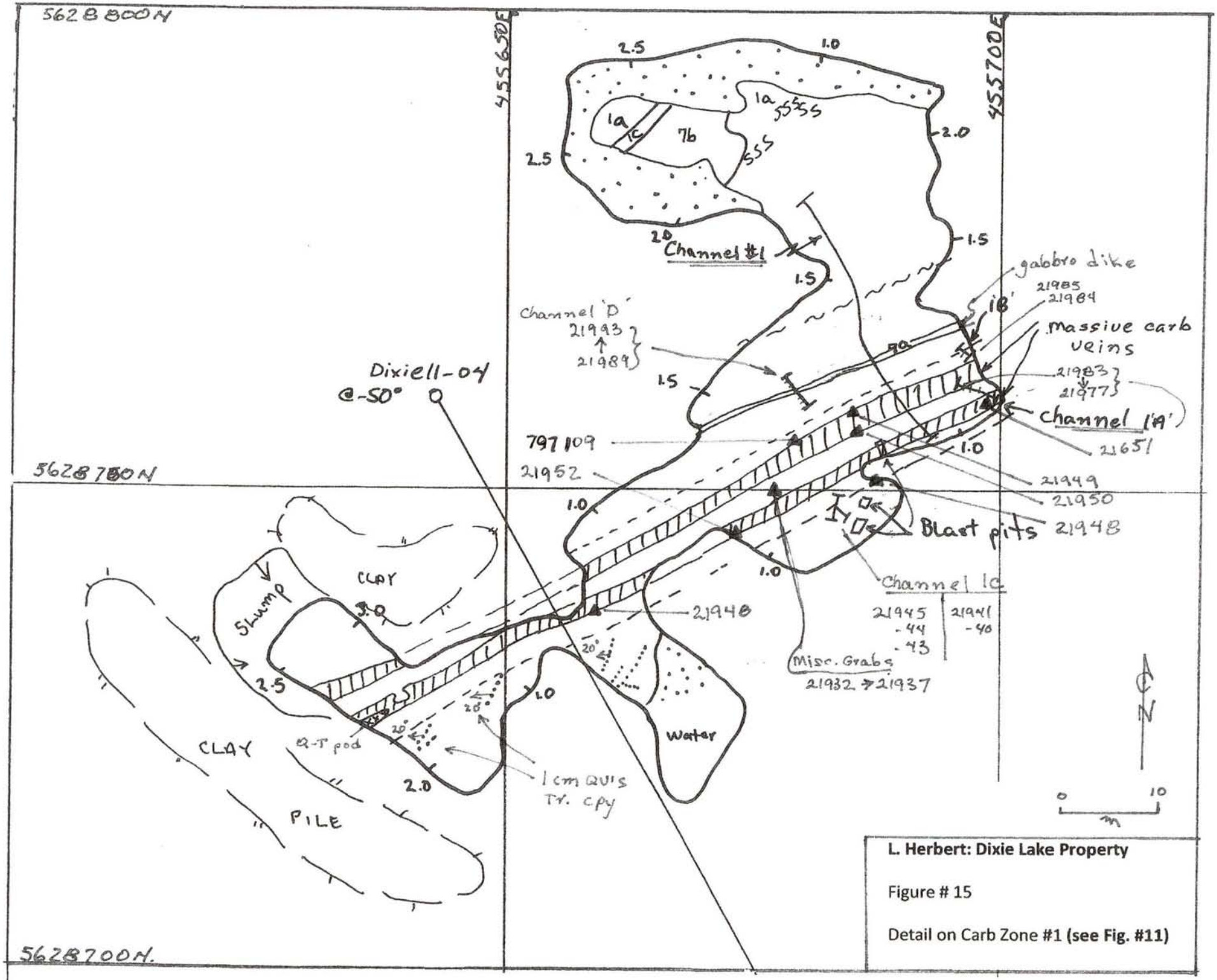

See Figure #10 for Carb Zone #2
455600E
455650E
455700E
455750E
5628800N
5628750N
5628700N.
Channel #1
massive carb veins
channel 19
Dixie11-04
@-50°
Blast pits
Clay
Slump
CLAY
PILE
Water
See figure # 15
for sample location & detail
N
0 10 20 30
m
L. Herbert: Dixie Lake Property
Figure # 11
STRIP AREA: 11-G, 1:1000
CARB ZONE #1


455700E
455750E
455800E
455850E
5628200N
5628150N
5628100N
Vein #2
STRIP AREA: 11H-2
Vein #1
STRIP AREA: 11H-1
Sump
Dixie 11-01 @ -50°
Dixie 11-02 @ -50°
Dixie 11-03 @ -50°
drainage
SEE Fig. #14 For Sample Locations
To 25 Klm ROAD
0 10 25
m
N
L. Herbert: Dixie Lake Property
Figure #12
STRIP AREA: 11-H, 1:1000
QV-CPY ZONE



L. Herbert: Dixie Lake Property
Figure #13
STRIP AREA: 11-I, 1:1000
Recon on I.F.

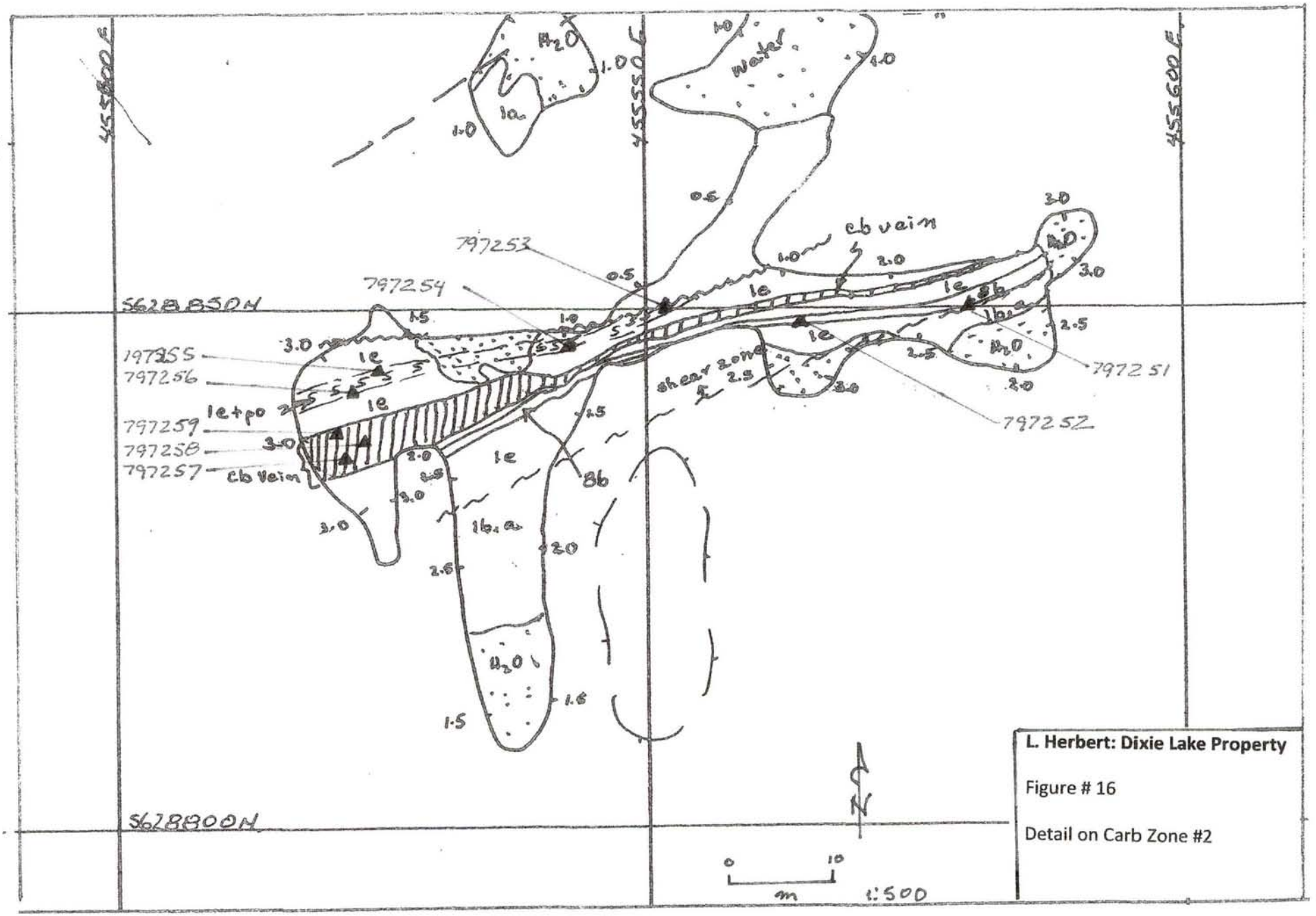

5628200 H
455700E
456250E
797106
797008
Q-T-V in shear
Vein #2
2c
1a
2.5
3.0
797009
797010
Q-T-cpy veins
340
Q-cb-cpy V.
25
797110
797111
1a.b
#1 Veim
Q-Ba-T-cpy V.
water
797107
1a+bio
1a
2c
90
80
797001
002
003
004
797005
006
007
5628150
Dixie II-02 @-50°
Dixie II-01 @-50°
Dixie II-03 @-50°
797112
797113
797114
797108
cb-bio sh.
BD
QTZ V-pods
Q-cbV in shear +bio
flat lying Q-brecia V.
797109
drainage
1.5m. ditch
CbV=15cm
CbV 1-15cm
1.5
2.0
1.0
5
10
m
L. Herbert: Dixie Lake Property
Figure # 14, Detail on Figure # 12
Sample locations on QV-CPY- Zone



L. Herbert: Dixie Lake Property

Figure # 15

Detail on Carb Zone #1 **(see Fig. #11)**



L. Herbert: Dixie Lake Property

Figure # 16

Detail on Carb Zone #2

APPENDIX II; SUMMARY OF EXPLORATION ACTIVITIES AND EXPENDITURES

Equipment And labor specification and rates for mechanical and manual stripping on L. Herbert's Dixie Lake Property, NW, Ontario

Backhoe: Hitachi EX-270 @ $155/hr, including fuel + operator

Dozer: CAT D-7 @ $155/hr, including fuel + operator

Float for transporting excavator and Cat; round trip = 4hrs; rate @ $115/HR

Wajax Mark III pump and hose line @ $100/day

Channel saw at $75/day

SGS assays, geochem @ $45/ sample

Actlads assay and geochem @ $67/sample

Pickup travel @ $0.55/klm, 110 klm/ trip from Red Lake to Dixie Lake property or $60/trip

Labor rate @ $200/day (going rate for Red Lake)

-Nathan Herbert, Red Lake, Ontario

-Bruce Lavigne, Red Lake, Ontario

-Larry Herbert, Red Lake, Ontario

Backhoe, D-7 operators: Larry Herbert, Red Lake, Ontario

Mapping: A.P.Pryslak, 15 Hunterspoint Road, Winnipeg, Manitoba: rate $700/day

SUMMARY OF EXPENDITURES PER CLAIM:

Claim 4241241: $116,650.00

Claim 4241242: $106,760.00

Claim 4252904: $17,090.00

GRAND TOTAL: $240,500.00

CLAIM 4241241: Exploration activities and expenditures

Strip Area	Square- metres	Backhoe/hrs	D-& hrs	Manual hrs/man	Lab/#samples	Truck trips
11-A-1	1400	21days@8hrs=168	nil	5daysx2men	10@$67	26
11-A-2	65	.5days@8hrs=4	nil	1 dayx2men	nil	2
11-A-3	225	1.5days@8hrs=12	nil	nil	nil	2
11-A-4	90	.5days@8hrs=4	nil	nil	nil	1
11-A-5	335	2.5days@8hrs=20	nil	nil	nil	2
11-B-1	300	4days@8hrs=32	nil	1dayx2men	nil	5
11-B-2	250	3days@8hrs=24	nil	1dayx2men	nil	4
11-B-3	600	10dys@8hrs=80	nil	2daysx2men	3@$67	12
11-B-4	110	2days@8hrs=16	nil	1dayx2men	nil	3
11-C-1	80	.5days@8hrs=4	nil	nil	nil	1
11-C-2	650	10days@8hrs=80	nil	5daysx2men	nil	15
11-C-3	150	2days@8hrs=16	nil	2daysx2men	nil	4
11-C-4	210	3days@8hrs=24	nil	1dayx2men	nil	4
11-C-5	275	3.5days@8hrs=28	nil	1dayx2men	1@$45	5
11-C-6,7,8,9	160	2days@8hrs=16	nil	nil	nil	2
11-D-1	160	nil	1day@10hrs=10	nil	nil	1
11-D-2	200	nil	1day@10hrs=10	nil	nil	1
11-D-3	40	nil	1day@10hrs=10	nil	nil	1
11-E-1	560	3days@8hrs=24	nil	nil	nil	3
TOTALS	**5860**	**552**	**30**	**20daysx2 men=40m.d.**	**14**	**94**

Expenditures: b Backhoe: 552hrs @ $155/hr = $85,560.00
D-7 Dozzer: 30 hrs@$155/hr =$4,650.00
Wajax: 20 days @ $100/day =$2,000.00
Truck/travel: 94 trips @ $60 =$5640.00
Float*: 23 hours @ $115/hr = $2650.00
manual: 40 man/days@ $200/day= $8000
assaying: 14@ $67 = $940.00
1@ $45 = $50.00
A.P.Pryslak: mapping:5days @ $700/day = $3500.00
Report: 40% 12daysx$700 = $3360
Travel: 5 trips@ $60 = $300.00
TOTAL.....$116,650.00

Note on Float: Nov/2010: demod excacator, 4hrs
April/2011: mo excavator to field, 4 hrs
June-Aug/2011: move excavator, 3 trips at 5 hours= 15 hrs

CLAIM 4252904: Exploration activities and expenditures

Strip Area	Square metres	Backhoe hours	D-7 hours	Manual hours/man	Lab/#samples	truck trips	
11-I-1	500	nil	2days@8hrs=16hrs	nil	nil		2
11-I-2	2100	nil	5days@8hrs=40hrs	nil	nil		5
11-I-3	1800	nil	4days@8hrs=32hrs	nil	2@$45		4
TOTALS	4400	nil	88hrs	nil		2	11

Expenditures D-7, 88hrs @ $155/hr= $13,640.00
Assaying, 2@ $45 = $90.00
Float: 2 trips (mob-demob) @4 hrs x $115/hr = $920.00
A.P.Pryslak: mapping, 1day @ $700 =$700
report: 20% x12 x$700=$1680.00
travel: 1 trip @ $60.00= $60.00
TOTAL: $17,090.00

CLAIM 4252904: Exploration activities and expenditures

Strip Area	Square metres	Backhoe hours	D-7 hours	Manual hours/man	Lab/#samples	truck trips	
11-I-1	500	nil	2days@8hrs=16hrs	nil	nil		2
11-I-2	2100	nil	5days@8hrs=40hrs	nil	nil		5
11-I-3	1800	nil	4days@8hrs=32hrs	nil	2@$45		4
TOTALS	4400	nil	88hrs	nil		2	11

Expenditures: D-7, 88hrs @ $155/hr= $13,640.00
Assaying, 2@ $45 = $90.00
Float: 2 trips (mob-demob) @4 hrs x $115/hr = $920.00
A.P.Pryslak: mapping, 1day @ $700 =$700
report: 20% x12 x$700=$1680.00
travel: 1 trip @ $60.00= $60.00
TOTAL: $17,090.00

APPENDIX III; ASSAY AND GEOCHEM CERFICATES

Date	Lab	Certificate No.	Sample numbers	Figure reference
Dec. 21, 2010	SGS	T0112993	21930-22000= 71	Fig. # 11 & 15
			21651, 21652=2	Fig. # 11 & 15
Nov.23/2010	SGS	RL1040788	Ditto----73 samples , Au	
May 9, 2011	Actlabs	A11-3762	797001-797010=10	Fig. # 12 & 14
Aug. 17, 2011	Actlabs	A11-9158	797102- 797114= 13	Fig. # 12 & 14
Sept.26, 2011	Actlabs	A11-11021	797151-797153=3	Fig. #4
			56660-56668=9	Fig. #4
Nov.15, 2011	SGS	RL1103943	797251-797259= 9	Fig. #10 & 16

Certificate of Analysis

Work Order: TO112993

To: **COD SGS Minerals**
C/O P.O. Box 439
Whiffen Head Road
ARNOLD COVE
NF A0B 1A0

Date: Dec 21, 2010

P.O. No.	:	Larry Herbert/RL1040788
Project No.	:	-
No. Of Samples	:	73
Date Submitted	:	Nov 05, 2010
Report Comprises	:	Pages 1 to 9 (Inclusive of Cover Sheet)

Distribution of unused material:
STORE:

Certified By : _____
Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the **@** symbol (e.g. @AAS21E) denote accredited tests

Element	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	1
Units	ppm	%	%	%	%	%	%	ppm	%	ppm
21951	<0.5	0.20	3.47	3.04	0.08	0.22	8.81	7.3	0.02	37
21952	<0.5	0.26	4.38	5.41	0.10	0.13	9.81	20.1	0.02	94
21953	0.7	0.39	3.11	8.73	0.13	0.17	4.85	35.8	0.04	162
21954	<0.5	0.12	5.02	1.69	0.03	0.07	12.2	3.5	<0.01	15
21955	<0.5	0.08	4.46	1.91	0.02	0.10	11.3	6.1	<0.01	34
21956	<0.5	0.28	4.28	5.21	0.03	0.31	10.5	21.7	0.04	117
21957	<0.5	0.26	4.12	5.79	0.03	0.31	9.98	25.6	0.04	132
21958	<0.5	0.21	4.34	6.22	0.04	0.38	6.82	30.5	0.05	160
21959	<0.5	0.12	3.42	3.82	0.10	0.35	7.27	14.7	0.06	114
21960	<0.5	0.03	3.56	4.41	0.06	0.26	7.11	22.4	0.05	153
21961	<0.5	0.04	3.67	4.28	0.06	0.22	6.53	22.4	0.05	149
21962	<0.5	0.04	3.49	4.04	0.05	0.26	7.31	23.6	0.04	135
21963	<0.5	0.04	4.53	5.00	0.05	0.39	7.12	29.0	0.06	156
21964	<0.5	0.08	3.32	4.55	0.05	0.24	7.92	23.5	0.04	152
21965	<0.5	0.08	3.66	4.40	0.07	0.53	6.71	26.3	0.08	164
21966	<0.5	0.09	2.27	3.35	0.08	0.69	7.15	15.9	0.08	112
21967	<0.5	0.03	2.73	2.61	0.09	0.27	5.53	18.8	0.05	132
21968	<0.5	0.03	2.67	3.58	0.08	0.48	6.16	15.8	0.07	118
21969	<0.5	0.13	2.49	4.18	0.08	0.54	8.01	15.8	0.08	118
21970	<0.5	0.05	3.45	4.55	0.13	0.44	5.17	20.7	0.08	153
21971	<0.5	0.07	2.82	3.66	0.07	0.73	8.85	15.9	0.09	112
21972	<0.5	0.05	2.57	3.34	0.07	0.45	8.59	11.8	0.06	85
21973	<0.5	0.06	3.70	4.49	0.08	0.50	4.43	23.2	0.08	139
21974	<0.5	0.06	3.46	4.45	0.05	0.25	3.11	29.5	0.05	154
21975	<0.5	0.07	4.07	4.38	0.05	0.21	5.95	25.9	0.04	145
21976	<0.5	0.05	4.28	4.44	0.05	0.41	7.34	27.3	0.06	135
21977	<0.5	0.10	6.48	1.39	0.03	0.06	15.0	5.1	<0.01	24
21978	<0.5	0.22	1.08	3.05	0.04	0.18	3.04	1.7	<0.01	6
21979	<0.5	0.30	3.51	5.95	0.07	0.22	8.18	17.5	0.03	82
21980	<0.5	0.26	2.94	3.93	0.05	0.23	7.67	7.8	0.02	33
21981	<0.5	0.07	5.35	2.45	0.02	0.08	13.0	8.5	<0.01	51
21982	<0.5	0.03	3.67	0.89	0.02	0.05	9.71	3.1	<0.01	14
21983	<0.5	0.17	2.30	2.03	0.03	0.14	5.61	1.2	<0.01	2
21984	<0.5	0.30	4.54	6.65	0.03	0.36	9.01	27.5	0.05	142
21985	<0.5	0.24	4.16	6.25	0.03	0.30	7.76	31.5	0.04	164
21986	<0.5	0.20	2.13	4.91	0.13	0.04	1.43	21.2	0.02	138
21987	<0.5	0.24	3.06	6.13	0.18	0.06	3.87	28.4	0.03	166
21988	<0.5	0.20	3.30	5.94	0.20	0.23	5.41	31.9	0.04	174
21989	<0.5	0.25	3.73	5.80	0.04	0.28	6.95	25.1	0.04	135
21990	<0.5	0.15	3.58	5.12	0.05	0.29	7.82	22.6	0.04	136
21991	<0.5	0.13	3.65	3.78	0.09	0.26	8.17	15.2	0.04	108
21992	<0.5	0.12	3.65	5.45	0.06	0.17	7.16	23.0	0.04	153
21993	<0.5	0.04	6.00	2.39	0.04	0.11	14.1	13.0	0.03	80

channel #1'A'

channel #1'B'

pits

channel 1.D

Element		Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V
Method		@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.		0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	1
Units		ppm	%	%	%	%	%	%	ppm	%	ppm
21994		<0.5	0.07	2.76	3.85	0.07	0.12	3.98	25.1	0.03	140
21995		<0.5	0.05	3.63	4.60	0.06	0.15	3.38	31.5	0.04	161
21996		<0.5	0.05	3.71	4.75	0.06	0.21	5.72	31.5	0.05	157
21997	Channel #1 - N. end.	<0.5	0.05	3.66	4.14	0.05	0.39	7.20	24.2	0.06	119
21998		<0.5	0.05	3.65	4.28	0.05	0.31	4.65	28.0	0.06	147
21999		<0.5	0.03	3.52	4.45	0.06	0.13	3.76	31.6	0.04	159
22000		<0.5	0.03	3.08	3.57	0.06	0.46	6.77	17.9	0.07	113
21930		<0.5	0.04	0.78	1.14	0.07	0.82	0.52	3.4	0.15	30
21931		<0.5	0.04	0.61	0.80	0.02	0.02	1.21	3.2	<0.01	26
21932	Misc. grabs	<0.5	0.03	2.21	3.16	0.08	0.76	7.30	18.6	0.10	138
21933		<0.5	0.03	2.82	3.36	0.08	0.46	6.87	20.7	0.07	145
21934		<0.5	0.03	2.97	3.91	0.08	0.69	5.02	24.8	0.11	169
21935		<0.5	0.05	3.33	4.16	0.06	0.54	4.73	27.8	0.09	155
21936		<0.5	0.03	4.10	4.35	0.05	0.48	4.46	23.8	0.12	153
21937		<0.5	0.02	4.31	4.49	0.05	0.13	6.04	25.7	0.12	137
21938	Blast pit	0.6	0.14	0.83	3.02	0.08	0.21	1.04	12.2	<0.01	62
21939		<0.5	0.24	2.98	6.57	0.21	0.06	3.38	31.3	0.03	178
21940		<0.5	0.05	2.99	3.82	0.06	0.18	7.90	24.2	0.04	150
21941		<0.5	0.06	0.61	1.26	0.05	0.02	0.45	12.0	0.02	42
21942	Channel #1C	<0.5	0.04	0.26	0.55	0.02	0.03	0.50	2.6	<0.01	12
21943		<0.5	0.11	0.61	3.02	0.10	0.23	0.95	9.7	0.02	50
21944		<0.5	0.27	1.39	3.40	0.05	0.16	4.11	2.4	<0.01	7
21945		<0.5	0.17	3.76	2.42	0.07	0.16	9.52	8.9	0.01	37
21946		<0.5	0.11	0.12	0.66	0.03	0.12	0.29	0.9	0.01	5
21947		<0.5	0.01	7.25	0.30	<0.01	0.02	>15	2.4	<0.01	6
21948		<0.5	0.01	6.92	0.29	0.02	0.01	>15	3.3	<0.01	7
21949		<0.5	0.03	6.45	1.05	0.02	0.05	>15	5.0	<0.01	24
21950	Grabs - located on plan.	<0.5	0.13	4.96	2.49	0.02	0.17	12.6	5.9	0.02	43
21651		<0.5	0.24	3.39	3.51	0.05	0.17	8.20	7.4	0.02	32
21652		<0.5	0.20	5.24	3.42	0.04	0.25	11.9	8.8	0.03	56
*Rep 21958		<0.5	0.20	4.16	5.94	0.04	0.38	6.82	29.6	0.05	154
*Rep 21991	# 15	<0.5	0.12	3.35	3.50	0.09	0.23	7.68	15.1	0.04	109

Element	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	1	2	0.01	1	1	0.5	1	3	0.5	0.5
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
21951	108	1910	5.34	24	85	53.2	64	82	93.3	8.1
21952	287	1510	6.06	29	102	56.7	87	78	92.4	8.9
21953	549	837	6.29	39	147	122	119	62	103	11.0
21954	36	1840	5.63	17	51	14.7	53	78	72.9	6.0
21955	106	1740	4.83	20	60	26.3	41	47	85.6	5.8
21956	289	1900	5.68	31	103	114	67	12	116	8.8
21957	320	1780	5.82	34	125	82.9	69	6	113	9.3
21958	320	1260	6.55	42	149	86.9	88	4	97.0	10.0
21959	256	1030	5.45	32	137	79.4	71	8	76.5	10.6
21960	289	1120	6.70	38	156	97.8	91	4	56.9	10.9
21961	297	1170	6.90	39	162	118	96	<3	50.0	11.2
21962	277	1170	6.09	32	146	70.3	72	<3	51.1	9.5
21963	298	1320	7.02	40	166	65.0	86	<3	53.8	9.9
21964	315	1280	6.52	44	188	84.0	81	6	67.8	10.5
21965	283	1370	6.63	42	153	98.4	79	<3	56.1	11.1
21966	350	1780	5.14	37	192	82.7	68	4	64.9	9.1
21967	398	1640	5.73	36	198	57.7	70	<3	39.3	8.1
21968	364	1480	6.70	39	220	83.0	73	6	46.1	8.8
21969	369	1530	6.05	36	224	65.8	67	<3	99.8	9.3
21970	338	1190	6.83	38	168	91.4	92	6	48.3	12.2
21971	364	1590	4.86	28	135	47.2	57	<3	75.5	8.4
21972	319	1810	4.71	27	111	76.6	63	<3	59.1	8.5
21973	413	1820	6.06	35	141	59.7	63	<3	36.5	10.0
21974	388	1370	6.10	45	167	121	72	4	30.0	8.9
21975	324	2250	6.78	44	137	106	89	6	40.3	9.8
21976	331	2700	6.39	33	109	63.5	62	7	50.5	8.9
21977	52	2130	5.56	24	90	13.9	70	141	76.9	4.1
21978	26	493	2.95	9	20	8.1	21	44	66.9	9.0
21979	275	1370	5.60	29	100	73.4	75	61	96.5	8.7
21980	105	1310	4.33	16	47	26.7	44	51	87.2	8.5
21981	148	2090	5.60	28	76	68.6	55	43	102	5.7
21982	43	1460	4.06	13	44	17.8	37	38	56.7	4.0
21983	3	758	3.38	7	22	9.1	29	57	74.3	8.0
21984	341	1840	6.11	38	142	96.0	75	4	127	9.9
21985	323	1390	6.59	37	135	99.9	84	<3	106	10.8
21986	340	485	6.12	58	346	135	93	32	74.7	12.7
21987	447	955	7.53	75	459	113	114	87	88.0	13.8
21988	486	1160	7.02	45	273	74.9	102	19	129	15.4
21989	293	1240	5.91	41	150	68.3	78	5	95.3	8.4
21990	285	1260	6.37	37	158	70.1	85	11	84.9	10.3
21991	229	1170	5.42	31	131	56.1	64	7	86.5	9.9
21992	306	1200	7.16	43	186	114	98	6	76.9	10.5
21993	153	1770	6.95	30	116	30.0	80	<3	67.5	7.7

Element	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	1	2	0.01	1	1	0.5	1	3	0.5	0.5
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
21994	378	1410	5.67	39	158	57.8	70	5	30.3	9.1
21995	406	1790	6.29	43	163	78.7	77	<3	24.4	8.4
21996	384	2090	6.76	41	130	58.3	79	4	34.7	9.8
21997	288	2160	5.54	29	100	54.0	58	<3	47.2	7.8
21998	362	1630	6.21	40	163	88.3	72	11	30.9	9.0
21999	455	1700	6.67	44	194	82.6	74	6	22.2	9.4
22000	350	1580	5.55	29	99	370	60	11	33.5	8.2
21930	18	387	3.06	40	343	68.5	47	14	8.7	4.7
21931	9	1670	>15	130	233	466	91	7	8.6	11.6
21932	403	1540	5.48	29	91	78.9	71	<3	34.0	9.8
21933	433	1510	5.45	29	90	88.1	68	4	42.5	7.9
21934	454	1760	6.23	32	116	88.3	79	6	26.6	10.2
21935	404	1170	6.39	41	190	116	146	28	20.5	8.0
21936	433	1150	6.33	47	220	98.7	66	7	25.6	5.4
21937	422	1200	6.22	42	232	88.1	58	7	22.5	5.0
21938	144	200	2.69	147	509	108	37	605	69.9	11.2
21939	484	849	8.00	70	428	149	130	63	89.7	15.7
21940	282	1060	5.67	36	146	93.6	87	4	60.5	13.3
21941	103	187	2.54	23	163	155	29	8	19.8	18.5
21942	35	172	1.61	19	124	143	17	10	9.0	4.8
21943	137	151	2.82	145	525	210	30	284	77.1	12.4
21944	17	606	3.18	16	22	24.9	26	41	82.9	9.0
21945	102	1410	4.32	21	61	45.1	65	43	72.7	8.3
21946	13	236	1.02	11	90	32.0	13	10	24.4	3.8
21947	6	2470	6.80	16	65	4.1	63	78	50.5	3.3
21948	13	2440	6.22	14	44	7.9	50	32	72.1	4.1
21949	56	2480	6.61	21	74	38.8	61	520	84.5	4.8
21950	103	2110	6.05	27	97	32.6	57	103	75.5	5.1
21651	97	1120	3.86	11	45	14.8	55	29	82.2	8.0
21652	126	2130	5.98	31	98	49.7	66	74	110	6.6
*Rep 21958	316	1230	6.58	43	148	85.8	88	6	92.8	9.6
*Rep 21991	231	1070	5.12	31	132	49.9	63	7	79.2	10.0

Element	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	0.5	1	2	1	10	5	5	0.5	10	2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
21951	26.7	1	<2	1	<10	7	236	16.1	<10	7
21952	14.5	<1	<2	1	<10	15	120	13.7	<10	9
21953	13.7	<1	<2	<1	<10	20	124	16.4	<10	9
21954	23.2	4	<2	1	<10	11	39	13.3	<10	4
21955	14.4	<1	<2	<1	<10	15	50	6.1	<10	5
21956	6.9	<1	<2	<1	<10	17	180	4.1	<10	5
21957	6.5	<1	<2	<1	<10	15	210	3.0	<10	3
21958	7.7	<1	<2	<1	<10	13	312	4.3	<10	3
21959	12.5	<1	<2	<1	<10	13	203	19.5	<10	4
21960	3.0	<1	<2	<1	<10	14	143	5.0	<10	<2
21961	4.9	<1	<2	<1	<10	13	105	6.5	<10	<2
21962	8.9	<1	<2	<1	<10	13	109	5.8	<10	3
21963	8.8	<1	<2	<1	<10	16	141	5.3	<10	<2
21964	7.6	<1	<2	<1	<10	16	60	9.0	<10	<2
21965	14.4	<1	<2	<1	<10	17	108	8.7	<10	3
21966	15.0	<1	<2	<1	<10	16	251	13.5	<10	5
21967	14.0	<1	<2	<1	<10	20	99	15.3	<10	3
21968	16.0	<1	<2	<1	<10	12	191	14.4	<10	<2
21969	10.7	<1	<2	<1	<10	17	125	15.3	<10	4
21970	10.5	<1	<2	<1	<10	18	122	17.9	<10	4
21971	11.8	<1	<2	<1	<10	15	205	12.5	<10	<2
21972	10.5	<1	<2	<1	<10	14	114	13.9	<10	3
21973	16.9	<1	<2	<1	<10	18	132	18.2	<10	4
21974	6.9	<1	<2	<1	<10	15	88	12.0	<10	2
21975	6.4	<1	<2	<1	<10	19	56	17.8	<10	3
21976	9.4	<1	<2	<1	<10	15	83	12.7	<10	5
21977	10.5	<1	<2	2	<10	8	59	2.6	<10	4
21978	77.4	2	<2	<1	<10	7	134	20.3	<10	7
21979	18.3	<1	<2	<1	<10	15	151	14.3	<10	7
21980	36.7	3	<2	<1	<10	10	100	17.8	<10	5
21981	9.4	<1	<2	<1	<10	11	40	1.5	<10	<2
21982	13.2	2	<2	<1	<10	14	22	2.5	<10	<2
21983	52.2	6	<2	<1	<10	11	51	22.6	<10	5
21984	6.8	<1	<2	<1	<10	16	270	2.7	<10	5
21985	6.3	<1	<2	<1	<10	18	247	3.1	<10	4
21986	19.8	<1	<2	<1	<10	16	17	25.3	<10	4
21987	17.4	<1	<2	1	<10	16	26	25.6	<10	4
21988	13.7	<1	<2	<1	<10	19	91	30.8	<10	5
21989	8.7	<1	<2	<1	<10	13	178	1.3	<10	4
21990	6.8	<1	<2	<1	<10	13	165	4.6	<10	4
21991	13.4	<1	<2	<1	<10	18	171	13.1	<10	2
21992	6.7	<1	<2	<1	<10	15	96	6.3	<10	3
21993	6.2	<1	<2	<1	<10	8	36	2.8	<10	3

Element	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	0.5	1	2	1	10	5	5	0.5	10	2
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
21994	9.4	<1	<2	<1	<10	16	59	12.7	<10	<2
21995	8.1	<1	<2	<1	<10	15	61	12.2	<10	<2
21996	8.2	<1	<2	<1	<10	16	66	14.2	<10	<2
21997	7.0	<1	<2	<1	<10	15	84	8.0	<10	3
21998	7.9	<1	<2	<1	<10	14	184	13.9	<10	<2
21999	10.2	<1	<2	<1	<10	15	79	17.5	<10	4
22000	9.9	<1	<2	<1	<10	19	109	10.0	<10	<2
21930	20.2	2	<2	<1	<10	<5	507	17.9	<10	3
21931	5.5	<1	2	<1	<10	<5	12	3.0	<10	7
21932	10.0	<1	<2	<1	<10	18	245	14.0	<10	<2
21933	9.8	<1	<2	<1	<10	18	119	13.1	<10	<2
21934	11.3	<1	<2	<1	<10	21	287	22.6	<10	3
21935	5.4	<1	<2	<1	<10	17	167	10.4	<10	<2
21936	2.7	<1	<2	<1	<10	19	114	7.8	<10	4
21937	2.7	<1	<2	<1	<10	18	64	8.1	<10	2
21938	67.8	<1	<2	7	<10	10	56	23.2	<10	4
21939	16.3	<1	<2	<1	<10	19	27	28.6	<10	4
21940	4.3	<1	<2	<1	<10	16	123	3.9	<10	<2
21941	10.4	<1	<2	<1	<10	<5	<5	56.4	<10	2
21942	2.6	<1	<2	<1	<10	<5	<5	10.9	<10	<2
21943	84.1	<1	<2	3	<10	10	73	23.1	<10	3
21944	74.8	3	<2	<1	<10	5	128	21.9	<10	6
21945	38.3	<1	<2	<1	<10	13	181	11.7	<10	4
21946	15.3	<1	<2	<1	<10	<5	18	4.7	<10	6
21947	7.5	2	<2	1	<10	10	15	2.1	<10	<2
21948	9.9	<1	<2	<1	<10	<5	13	0.8	<10	3
21949	6.4	<1	<2	6	<10	11	29	0.9	<10	4
21950	9.3	4	<2	1	<10	10	71	2.5	<10	3
21651	46.1	2	<2	<1	<10	9	118	14.6	<10	6
21652	11.5	<1	<2	1	<10	9	249	3.1	<10	6
*Rep 21958	7.2	<1	<2	<1	<10	12	311	4.0	<10	3
*Rep 21991	13.9	<1	<2	<1	<10	15	124	13.5	<10	5

Element	Bi	Li	S	Hg
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	5	1	0.01	1
Units	ppm	ppm	%	ppm
21951	<5	12	0.41	<1
21952	<5	25	0.18	<1
21953	<5	37	0.14	<1
21954	<5	9	0.35	<1
21955	<5	17	0.29	<1
21956	<5	23	0.13	<1
21957	<5	30	0.09	<1
21958	<5	44	0.08	2
21959	<5	30	0.14	<1
21960	<5	37	0.09	<1
21961	<5	33	0.09	<1
21962	<5	32	0.04	<1
21963	<5	43	0.04	<1
21964	<5	26	0.13	<1
21965	<5	34	0.11	<1
21966	<5	27	0.04	<1
21967	<5	25	0.02	<1
21968	<5	27	0.02	<1
21969	<5	25	0.03	<1
21970	<5	32	0.05	2
21971	<5	29	0.02	<1
21972	<5	25	0.03	1
21973	<5	33	0.03	1
21974	<5	27	0.03	<1
21975	<5	23	0.08	1
21976	<5	31	0.02	<1
21977	<5	7	0.10	<1
21978	<5	11	1.07	<1
21979	<5	24	0.19	<1
21980	<5	12	0.37	<1
21981	<5	24	0.33	<1
21982	<5	8	0.25	<1
21983	<5	8	0.90	<1
21984	<5	38	0.10	<1
21985	<5	40	0.11	<1
21986	<5	25	0.18	2
21987	<5	33	0.05	<1
21988	<5	39	0.05	<1
21989	<5	31	0.07	<1
21990	<5	36	0.20	<1
21991	<5	28	0.20	<1
21992	<5	29	0.15	<1
21993	<5	17	0.09	<1

Element	Bi	Li	S	Hg
Method	@ICP12B	@ICP12B	@ICP12B	@ICP12B
Det.Lim.	5	1	0.01	1
Units	ppm	ppm	%	ppm
21994	<5	22	0.02	<1
21995	<5	33	0.02	1
21996	<5	30	0.04	<1
21997	<5	30	0.01	<1
21998	<5	28	0.04	1
21999	<5	25	0.03	<1
22000	<5	30	0.05	<1
21930	<5	12	1.31	<1
21931	<5	2	>5	<1
21932	<5	26	0.03	<1
21933	<5	25	0.03	<1
21934	<5	31	0.02	<1
21935	<5	29	0.06	<1
21936	<5	29	0.06	<1
21937	<5	26	0.02	<1
21938	<5	37	0.22	2
21939	<5	35	0.06	2
21940	<5	30	0.10	<1
21941	<5	9	0.25	<1
21942	7	4	0.16	<1
21943	<5	50	0.54	<1
21944	<5	10	1.15	<1
21945	<5	12	0.35	<1
21946	10	6	0.02	<1
21947	<5	6	0.06	<1
21948	<5	5	0.09	<1
21949	<5	10	0.20	<1
21950	<5	14	0.20	<1
21651	<5	14	0.39	<1
21652	<5	18	0.16	<1
*Rep 21958	<5	41	0.08	<1
*Rep 21991	<5	26	0.20	<1

Certificate of Analysis

Work Order: RL1040788

To: ACCOUNTS PAYABLE
COD SGS MINERALS
C/O P.O. Box 439
Whiffen Head Road
ARNOLD COVE
NF A0B 1A0

Date: Nov 23, 2010

P.O. No.	:	LARRY HERBERT
Project No.	:	-
No. Of Samples	:	73
Date Submitted	:	Nov 05, 2010
Report Comprises	:	Pages 1 to 3 (Inclusive of Cover Sheet)

Certified By : _____

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	WtKg	Au	Au	Au
Method	WGH79	FAA313	FAA313	FAA313
Det.Lim.	0.01	5	0.01	0.001
Units	kg	ppb	g/t	oz/t
21651	2.70	10	<0.01	<0.001
21652	2.80	<5	<0.01	<0.001
21930	1.30	<5	<0.01	<0.001
21931	2.10	30	0.03	<0.001
21932	1.50	<5	<0.01	<0.001
21933	2.30	<5	<0.01	<0.001
21934	2.10	<5	<0.01	<0.001
21935	3.30	<5	<0.01	<0.001
21936	2.90	<5	<0.01	<0.001
21937	3.70	<5	<0.01	<0.001
21938	2.00	<5	<0.01	<0.001
21939	3.00	25	0.02	<0.001
21940	1.90	<5	<0.01	<0.001
21941	1.80	<5	<0.01	<0.001
21942	1.50	<5	<0.01	<0.001
21943	0.29	<5	<0.01	<0.001
21944	2.00	<5	<0.01	<0.001
21945	2.00	<5	<0.01	<0.001
21946	0.16	<5	<0.01	<0.001
21947	1.20	<5	<0.01	<0.001
21948	1.50	<5	<0.01	<0.001
21949	1.90	<5	<0.01	<0.001
21950	1.00	25	0.02	<0.001
21951	2.00	<5	<0.01	<0.001
21952	2.30	<5	<0.01	<0.001
21953	1.40	<5	<0.01	<0.001
21954	2.10	<5	<0.01	<0.001
21955	2.60	<5	<0.01	<0.001
21956	4.20	<5	<0.01	<0.001
21957	3.50	<5	<0.01	<0.001
21958	2.80	<5	<0.01	<0.001
21959	3.00	<5	<0.01	<0.001
21960	3.90	<5	<0.01	<0.001
21961	4.30	<5	<0.01	<0.001
21962	4.80	30	0.03	<0.001
21963	3.60	<5	<0.01	<0.001
21964	3.60	<5	<0.01	<0.001
21965	3.20	<5	<0.01	<0.001
21966	1.90	5	<0.01	<0.001
21967	2.10	<5	<0.01	<0.001
21968	1.50	25	0.03	<0.001
21969	1.30	<5	<0.01	<0.001
21970	1.20	<5	<0.01	<0.001

Element	WtKg	Au	Au	Au
Method	WGH79	FAA313	FAA313	FAA313
Det.Lim.	0.01	5	0.01	0.001
Units	kg	ppb	g/t	oz/t
21971	2.30	<5	<0.01	<0.001
21972	1.70	35	0.03	0.001
21973	1.50	<5	<0.01	<0.001
21974	1.30	<5	<0.01	<0.001
21975	3.00	<5	<0.01	<0.001
21976	2.20	<5	<0.01	<0.001
21977	3.30	<5	<0.01	<0.001
21978	0.60	<5	<0.01	<0.001
21979	2.20	<5	<0.01	<0.001
21980	2.80	<5	<0.01	<0.001
21981	2.10	<5	<0.01	<0.001
21982	3.00	<5	<0.01	<0.001
21983	2.20	25	0.02	<0.001
21984	3.50	<5	<0.01	<0.001
21985	2.20	20	0.02	<0.001
21986	2.90	<5	<0.01	<0.001
21987	3.00	<5	<0.01	<0.001
21988	3.80	45	0.04	0.001
21989	3.00	<5	<0.01	<0.001
21990	3.60	<5	<0.01	<0.001
21991	4.30	<5	<0.01	<0.001
21992	3.00	5	<0.01	<0.001
21993	3.40	<5	<0.01	<0.001
21994	2.50	35	0.03	<0.001
21995	3.60	<5	<0.01	<0.001
21996	4.50	<5	<0.01	<0.001
21997	4.60	<5	<0.01	<0.001
21998	2.70	<5	<0.01	<0.001
21999	2.40	<5	<0.01	<0.001
22000	3.60	5	<0.01	<0.001
*Dup 21651	--	<5	<0.01	<0.001
*Dup 21952	--	<5	<0.01	<0.001
*Dup 21976	--	<5	<0.01	<0.001
*Dup 22000	--	<5	<0.01	<0.001

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted: 09-May-11
Invoice No.: A11-3762
Invoice Date: 07-Jun-11
Your Reference:

ESKER LOGGING
P.O. BOX - 1059
HWY-125
Red Lake ON P0V 2M0
Canada

ATTN: Larry Herbert

CERTIFICATE OF ANALYSIS

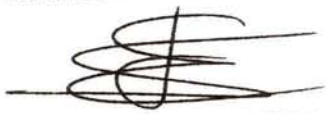
10 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-RedLake Au - Fire Assay AA
Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A11-3762**

Notes:
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

CERTIFIED BY :



Emmanuel Eseme , Ph.D.
Quality Control

SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.
1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-3762

Analyte Symbol	Au	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba	Be	Bi	Br	Co	Cr	Cs	Fe	Hf	Hg	Ir	Na	Rb	Sb	Sc
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1	0.1	0.1	0.5	0.1	1	0.05	0.01	1	1	5	0.01	0.2	0.1	0.1
Analysis Method	FA-AA	INAA	MULT INAA/TD-ICP/TD-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	MULT INAA/TD-ICP/TD-MS	MULT INAA/TD-ICP/TD-MS	INAA	MULT INAA/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	INAA	INAA	INAA	INAA	INAA	MULT INAA/TD-ICP-MS	INAA	INAA
797001	1600	1600	130	> 10000	19.4	472	254	592	59.2	63	< 0.1	1.5	0.9	108	43	0.81	6.17	< 1	< 1	< 5	0.64	5.7	9.1	4.3
797002	252	293	19.8	9790	5.7	28.8	169	252	42.0	260	0.3	0.9	< 0.5	52.4	104	3.70	7.15	4	< 1	< 5	2.57	15.6	3.8	15.1
797003	> 3000	4130	283	> 10000	57.5	602	465	1590	98.6	68	< 0.1	3.3	1.0	348	20	1.00	13.5	< 1	< 1	< 5	0.20	15.9	13.9	1.2
797004	2970	2980	20.4	> 10000	8.9	15.0	258	484	25.9	63	0.2	1.3	0.9	108	28	1.09	4.05	< 1	< 1	< 5	0.46	13.0	1.4	0.8
797005	5	< 2	0.27	90.0	0.2	6.5	49.6	52.5	12.2	215	< 0.1	< 0.1	< 0.5	17.0	122	4.40	1.96	< 1	< 1	< 5	1.31	35.4	0.6	8.7
797006	5	< 2	0.17	90.5	0.2	18.7	191	99.9	8.2	177	0.6	0.5	< 0.5	42.5	316	4.04	5.89	2	< 1	< 5	3.23	29.1	1.6	30.1
797007	5	< 2	0.20	87.9	0.1	19.9	189	106	7.1	196	0.6	0.6	< 0.5	39.1	298	4.33	5.37	2	< 1	< 5	3.12	26.0	1.4	28.1
797008	9	10	< 0.05	101	< 0.1	4.3	61.0	86.4	< 0.5	140	1.5	< 0.1	< 0.5	28.0	246	1.70	5.92	2	< 1	< 5	2.55	19.4	0.9	21.0
797009	< 5	6	< 0.05	21.9	0.1	14.5	169	136	5.9	268	0.5	0.3	< 0.5	46.8	276	5.76	5.76	2	< 1	< 5	2.76	43.7	1.4	25.2
797010	< 5	< 2	0.39	23.6	< 0.1	15.4	74.3	89.8	4.8	431	1.3	0.3	< 0.5	33.2	273	10.2	5.06	2	< 1	< 5	2.44	70.8	0.7	24.4

Analyte Symbol	Se	Ta	Th	U	W	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Au	Ag	Cu	Mo	S	Al	Ca	Hf	Ga	Ge
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g/tonne	ppm	%	ppm	%	%	%	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	1	0.5	3	5	0.1	0.2	0.5	0.2	0.05		0.03	3	0.001	1	0.01	0.01	0.01	0.1	0.1	0.1
Analysis Method	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	FA-GRA	ICP-OES	ICP-OES	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS
797001	63.5	0.1	0.4	0.2	< 1	7.3	17	< 5	1.1	0.4	< 0.5	0.5	< 0.05	33.7		130	4.68	< 1	5.03	0.86	2.20	0.5	6.9	0.4
797002	19.2	0.4	0.8	0.6	< 1	24.6	53	23	4.2	1.0	< 0.5	1.0	0.13	45.0			1.13	< 1	1.05	3.32	4.87	2.3	22.7	0.4
797003	195	< 0.1	< 0.1	0.1	< 1	2.5	6	< 5	0.3	< 0.2	< 0.5	< 0.2	< 0.05	33.9	4.61	284	11.5	< 1	13.1	0.86	0.92	< 0.1	3.0	0.9
797004	38.1	< 0.1	< 0.1	0.2	< 1	1.7	5	< 5	0.3	< 0.2	< 0.5	< 0.2	< 0.05	30.3			1.35	< 1	1.53	1.30	0.40	< 0.1	3.9	0.3
797005	0.4	< 0.1	0.1	< 0.1	< 1	4.8	13	9	1.4	0.4	< 0.5	0.6	< 0.05	29.0				< 1	0.01	2.01	1.90	0.4	5.3	0.1
797006	0.5	0.2	0.8	0.2	< 1	14.2	36	15	3.9	1.0	< 0.5	1.7	0.33	32.8				< 1	0.01	5.10	8.49	1.3	16.8	0.7
797007	0.5	< 0.1	0.8	0.3	< 1	12.7	30	18	3.7	1.0	< 0.5	1.6	< 0.05	36.8				< 1	0.01	5.01	8.12	1.1	17.5	0.4
797008	0.4	0.2	2.1	0.7	< 1	19.4	49	25	4.8	1.0	< 0.5	1.2	0.25	31.8				< 1	0.18	4.68	6.44	2.2	17.5	0.2
797009	0.2	0.2	0.9	0.2	< 1	12.7	32	< 5	3.4	0.9	< 0.5	1.5	0.27	34.5				< 1	< 0.01	4.85	6.71	1.3	18.7	1.1
797010	< 0.1	0.1	0.6	0.7	< 1	12.4	32	9	3.0	0.8	< 0.5	1.1	0.24	28.6				< 1	< 0.01	4.61	2.98	1.2	13.1	0.5

Analyte Symbol	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy
Unit Symbol	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1
Analysis Method	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
797001	0.2	0.35	10.6	0.46	480	1.4	0.067	0.001	< 1	76.1	7.7	0.16	0.12	48	1.3	22	2.0	5.8	0.6	2.1	0.4	0.13	0.4	0.3
797002	< 0.1	1.09	15.3	1.99	804	4.9	0.086	< 0.001	< 1	286	1.8	0.44	0.40	142	5.5	101	8.5	23.0	2.4	9.1	1.8	0.52	1.7	1.4
797003	0.4	0.41	13.6	0.34	383	< 0.1	0.083	0.003	< 1	33.0	18.8	0.06	0.18	24	1.1	2	1.8	4.0	0.4	1.5	0.3	0.07	0.2	0.2
797004	0.1	0.31	5.2	0.61	276	0.8	0.017	0.001	< 1	56.6	6.0	0.16	0.43	20	0.7	< 1	1.2	2.0	0.3	1.1	0.2	< 0.05	0.2	0.1
797005	< 0.1	0.97	14.4	0.83	505	1.1	0.020	0.002	< 1	60.2	0.3	0.28	0.31	58	5.7	18	4.3	10.6	1.4	5.4	1.1	0.32	1.2	1.1
797006	< 0.1	1.04	16.6	1.82	1420	3.0	0.064	< 0.001	< 1	225	0.1	0.48	0.24	140	18.7	53	12.1	28.7	3.9	15.9	3.4	1.04	3.4	3.3
797007	< 0.1	1.09	17.7	1.77	1340	0.7	0.064	< 0.001	< 1	231	< 0.1	0.46	0.26	139	18.1	44	12.1	28.3	3.9	16.1	3.3	1.05	3.5	3.4
797008	< 0.1	0.63	21.4	3.47	1320	3.6	0.121	0.001	< 1	298	< 0.1	0.48	0.05	196	14.2	98	19.0	41.7	5.7	22.5	4.4	1.19	3.7	2.6
797009	< 0.1	1.32	23.3	2.38	1240	4.0	0.053	0.004	< 1	221	< 0.1	0.37	0.36	116	17.5	49	12.6	29.6	4.0	15.8	3.4	0.99	3.6	3.3
797010	< 0.1	2.02	24.9	1.60	724	3.1	0.074	0.003	< 1	221	< 0.1	0.55	0.58	133	9.7	48	10.0	23.9	3.1	12.1	2.4	0.76	2.2	1.9

Analyte Symbol	Tb	Ho	Er	Tm	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.1	0.1	0.1	0.1	0.1
Analysis Method	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
797001	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1
797002	0.2	0.3	0.7	0.1	0.6	< 0.1
797003	< 0.1	< 0.1	0.1	< 0.1	0.2	< 0.1
797004	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
797005	0.2	0.2	0.6	< 0.1	0.4	< 0.1
797006	0.5	0.7	2.0	0.3	1.7	0.3
797007	0.5	0.7	2.0	0.3	1.7	0.3
797008	0.5	0.5	1.4	0.2	1.2	0.2
797009	0.6	0.7	1.9	0.3	1.5	0.2
797010	0.3	0.4	1.1	0.2	1.0	0.2

Quality Control																							
Analyte Symbol	Au	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Analysis Method	FA-AA	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
GXR-1 Meas			29.6	32.2		1140	1230	2.1	3.4	14	739	778	42.3	46		752	808		0.24	1.73		633		1.1
GXR-1 Cert			31.0	31.0		1110	1110	3.30	3.30	18.0	730	730	41.0	41.0		760	760		0.257	3.52		750		1.22
GXR-4 Meas			3.10	3.3		6260	6400	< 0.1	0.3	314	53.5	40	43.3	47		77.0	76		1.80	4.55		1130		2.3
GXR-4 Cert			4.00	4.00		8520	6520	0.860	0.860	310	52.0	52.0	42.0	42.0		73.0	73.0		1.77	7.20		1640		1.90
KC-1A Meas																								
KC-1A Cert																								
CZN-3 Meas																								
CZN-3 Cert																								
PTM-1a Meas																								
PTM-1a Cert																								
SDC-1 Meas			< 0.05	< 0.3		32.0	26	< 0.1	0.4	< 1	23.9	16	33.5	36		92.8	103		0.06	3.41		497		2.5
SDC-1 Cert			0.0410	0.0410		30.0	30.0	0.0800	0.0800	0.250	25.0	25.0	38.0	38.0		103	103		0.0650	8.34		630		3.00
SCO-1 Meas			0.06	0.3		33.2	29	0.1	< 0.3	< 1	33.2	27	28.6	29		96.2	105			4.32		512		1.9
SCO-1 Cert			0.134	0.134		28.7	28.7	0.140	0.140	1.37	31.0	31.0	27.0	27.0		103	103			7.24		570		1.84
GXR-6 Meas			0.20	0.4		67.9	63	< 0.1	0.3	5	91.4	87	25.1	26		111	126		0.01	9.97		1370		1.2
GXR-6 Cert			1.30	1.30		66.0	66.0	1.00	1.00	2.40	101	101	27.0	27.0		118	118		0.0160	17.7		1300		1.40
CCU-1C Meas																								
CCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 14P Meas																								
OREAS 14P Cert																								
DNC-1a Meas						104	96						269	247		64.0	55					95		
DNC-1a Cert						100	100						247	247		70.0	70.0					118		
OREAS 13b (4-Acid) Meas			0.71	0.9		2150	2420			7			2150	2240		124	139		1.11					
OREAS 13b (4-Acid) Cert			0.86	0.86		2300.000	2300.000			9.0			2247	2247		133	133		1.20					
CDN-GS-7B Meas																								
CDN-GS-7B Cert																					1970		1450	
DMMAS 112 Meas		1730																			1862		1288	
DMMAS 112 Cert		1721																						
CDN-GS-3H Meas	> 3000																							
CDN-GS-3H Cert	3040																							
797010 Orig	< 5																							
797010 Dup	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank			< 0.05	< 0.3		< 0.2	< 1	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1		< 0.5	< 1		< 0.01	< 0.01		< 1		< 0.1
Method Blank Method Blank		< 2			< 5										< 20			< 50			< 0.5		< 50	
Method Blank Method Blank				< 0.3			< 1		< 0.3	< 1		< 3		< 1			< 1		< 0.01	< 0.01				
Method Blank Method Blank			< 0.05			< 0.2		< 0.1			< 0.5		< 0.5			< 0.5						< 1		< 0.1

Quality Control

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg	Mn	Na
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%
Detection Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.01	0.1	1	0.1	0.1	1	0.1	5	0.01	0.5	0.01	1	0.01
Analysis Method	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA
GXR-1 Meas	1	1260	1580		1.02	8.2		> 10.0		2.60			0.3		11.6			0.8		0.06	10.3	0.22	1010	
GXR-1 Cert	1.22	1380	1380		0.960	8.20		12.0		3.00			0.960		13.8			0.770		0.0500	8.20	0.217	852	
GXR-4 Meas	2	18.7	12		1.19	15.4		> 10.0		2.48			1.2		19.6			0.2		2.44	14.5	1.73	169	
GXR-4 Cert	1.90	19.0	19.0		1.01	14.6		64.0		2.80			6.30		20.0			0.270		4.01	11.1	1.66	155	
KC-1A Meas																								
KC-1A Cert																								
CZN-3 Meas																								
CZN-3 Cert																								
PTM-1a Meas																								
PTM-1a Cert																								
SDC-1 Meas	3	0.21	5		0.80	17.2		> 10.0												2.30	37.9	0.93	923	
SDC-1 Cert	3.00	2.60	2.60		1.00	17.9		64.0												2.72	34.0	1.02	883	
SCO-1 Meas	2	0.36	< 2		2.03	11.1		> 10.0												2.54	52.5	1.57	431	
SCO-1 Cert	1.84	0.370	0.370		1.87	10.5		68.0												2.30	45.0	1.64	410	
GXR-6 Meas	1	0.14	7		0.25	12.6		> 10.0		3.37			2.3		36.3			< 0.1		1.92	49.2	0.65	1100	
GXR-6 Cert	1.40	0.290	0.290		0.180	13.8		96.0		4.20			4.30		35.0			0.260		1.87	32.0	0.609	1010	
CCU-1C Meas																								
CCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 14P Meas																								
OREAS 14P Cert																								
DNC-1a Meas						56.2		> 10.0													5.7			
DNC-1a Cert						57.0		270													5.20			
OREAS 13b (4-Acid) Meas						75.9		> 10.0																
OREAS 13b (4-Acid) Cert						75		8650																
CDN-GS-7B Meas																								
CDN-GS-7B Cert																								
DMMAS 112 Meas							47		87			3.44												2.21
DMMAS 112 Cert							43		80			3.34												2.05
CDN-GS-3H Meas																								
CDN-GS-3H Cert																								
797010 Orig																								
797010 Dup																								
Method Blank Method Blank																								
Method Blank Method Blank	< 1	< 0.02	< 2		< 0.01	< 0.1		< 1		< 0.05			< 0.1		< 0.1	< 0.1		< 0.1		< 0.01	< 0.5	< 0.01	39	
Method Blank Method Blank				< 0.5			< 1		< 2		< 1	< 0.01		< 1			< 1		< 5					< 0.01
Method Blank Method Blank																								
Method Blank Method Blank	< 1		< 2		< 0.01															< 0.01		< 0.01	< 1	
Method Blank Method Blank		< 0.02				< 0.1		< 1		< 0.05			< 0.1		< 0.1	< 0.1		< 0.1			< 0.5			

Quality Control																								
Analyte Symbol	Nb	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Tl	Th	Th	Tl	U	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.01	0.1	0.2	0.05	0.1	0.5	2	1	0.1	1
Analysis Method	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-ICP	INAA	TD-MS	TD-MS
GXR-1 Meas	0.7	0.059	2.7					16.2		36	283	< 0.1		10.1		2.8		0.34	28.6		90		29.6	21
GXR-1 Cert	0.800	0.0650	14.0					16.6		54.0	275	0.175		13.0		2.44		0.390	34.9		80.0		32.0	38.0
GXR-4 Meas	9.1	0.133	104					6.5		7	228	0.5		1.0		18.0		3.06	5.2		92		14.3	50
GXR-4 Cert	10.0	0.120	160					5.60		5.60	221	0.790		0.970		22.5		3.20	6.20		87.0		14.0	186
KC-1A Meas																								
KC-1A Cert																								
CZN-3 Meas																								
CZN-3 Cert																								
PTM-1a Meas																								
PTM-1a Cert																					100		24.5	58
SDC-1 Meas		0.056								3	128				0.59						102		40.0	290
SDC-1 Cert		0.0690								3.00	183				0.606						135		18.9	107
SCO-1 Meas		0.082								3	153				0.36						131		26.0	160
SCO-1 Cert		0.0900								3.70	174				0.380						183		11.4	100
GXR-6 Meas	4.8	0.034	64.2					0.7		1	42.3	0.3		< 0.1		3.5		1.69	1.1		186		14.0	110
GXR-6 Cert	7.50	0.0350	90.0					0.940		1.70	35.0	0.485		0.0180		5.30		2.20	1.54					
CCU-1C Meas																								
CCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 14P Meas																								
OREAS 14P Cert																					139		14.7	36
DNC-1a Meas											133										148		18.0	38.0
DNC-1a Cert											144													
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
CDN-GS-7B Meas																								
CDN-GS-7B Cert																				19.7				
DMMAS 112 Meas							7.6													17.84				
DMMAS 112 Cert							7.17																	
CDN-GS-3H Meas																								
CDN-GS-3H Cert																								
797010 Orig																								
797010 Dup																								
Method Blank Method Blank	< 0.1	< 0.001	< 0.2		< 0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1	< 0.01	< 0.1		< 0.05	< 0.1		< 2		< 0.1	< 1
Method Blank Method Blank				< 15		< 0.1	< 0.1		< 3				< 0.5				< 0.2			< 0.5		< 1		
Method Blank Method Blank															< 0.01						< 2			
Method Blank Method Blank		< 0.001																						
Method Blank Method Blank	< 0.1		< 0.2		< 0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1		< 0.1		< 0.05	< 0.1				< 0.1	< 1

Quality Control																							
Analyte Symbol	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Eu	Gd	Dy	Tb	Tb	Ho	Er	Tm	Yb	Yb	Lu	Lu	Mass	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g/tonne
Detection Limit	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.1	0.05		0.03
Analysis Method	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	INAA	FA-GRA
GXR-1 Meas	6.9		13.5			7.7		2.7		0.57		3.8	4.5	0.7				0.4	2.0		0.3			
GXR-1 Cert	7.50		17.0			18.0		2.70		0.690		4.20	4.30	0.830				0.430	1.90		0.280			
GXR-4 Meas	56.2		102			39.6		6.3		1.43		4.6	2.7	0.5				0.2	1.0		0.1			
GXR-4 Cert	64.5		102			46.0		6.60		1.63		5.25	2.60	0.380				0.210	1.60		0.170			
KC-1A Meas																								
KC-1A Cert																								
CZN-3 Meas																								
CZN-3 Cert																								
PTM-1a Meas																								
PTM-1a Cert																								
SDC-1 Meas																								
SDC-1 Cert																								
SCO-1 Meas																								
SCO-1 Cert																		0.2	1.4		0.2			
GXR-6 Meas	10.5		28.4			10.3		2.1		0.53		2.0	2.0	0.3				0.0320	2.40		0.330			
GXR-6 Cert	13.9		36.0			13.0		2.67		0.760		2.97	2.80	0.415										
CCU-1C Meas																								
CCU-1C Cert																								
PTC-1a Meas																								
PTC-1a Cert																								
OREAS 14P Meas																			1.7					
OREAS 14P Cert																			2.00					
DNC-1a Meas	3.1					3.9				0.47														
DNC-1a Cert	3.60					5.20				0.590														
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								6.25
CDN-GS-7B Meas																								6.37
CDN-GS-7B Cert									2.5															
DMMAS 112 Meas		17.5		24					2.34															
DMMAS 112 Cert		15.92		26.56																				
CDN-GS-3H Meas																								
CDN-GS-3H Cert																								
797010 Orig																								
797010 Dup																								
Method Blank Method Blank																								
Method Blank Method Blank	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05		< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1			
Method Blank Method Blank		< 0.5		< 3			< 5		< 0.1		< 0.2				< 0.5					< 0.2		< 0.05	30.0	
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05		< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1			

Quality Control

Analyte Symbol	Ag	Cu
Unit Symbol	ppm	%
Detection Limit	3	0.001
Analysis Method	ICP-OES	ICP-OES
GXR-1 Meas		
GXR-1 Cert		
GXR-4 Meas		
GXR-4 Cert		
KC-1A Meas	1670	0.636
KC-1A Cert	1670	0.629
CZN-3 Meas	42	0.685
CZN-3 Cert	45	0.685
PTM-1a Meas	126	24.6
PTM-1a Cert	135	24.96
SDC-1 Meas		
SDC-1 Cert		
SCO-1 Meas		
SCO-1 Cert		
GXR-6 Meas		
GXR-6 Cert		
CCU-1C Meas		25.6
CCU-1C Cert		25.6
PTC-1a Meas	54	13.5
PTC-1a Cert	56.0	13.51
OREAS 14P Meas		0.989
OREAS 14P Cert		0.997
DNC-1a Meas		
DNC-1a Cert		
OREAS 13b (4-Acid) Meas	< 3	0.236
OREAS 13b (4-Acid) Cert	0.86	0.230
CDN-GS-7B Meas		
CDN-GS-7B Cert		
DMMAS 112 Meas		
DMMAS 112 Cert		
CDN-GS-3H Meas		
CDN-GS-3H Cert		
797010 Orig		
797010 Dup		
Method Blank Method Blank		
Method Blank Method Blank		
Method Blank Method Blank		
Method Blank Method Blank	< 3	< 0.001
Method Blank Method Blank		
Method Blank Method Blank		

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted: 17-Aug-11
Invoice No.: A11-9158
Invoice Date: 03-Oct-11
Your Reference:

Red Lake Resources
P.O. Box 1059
Red Lake ON P0V 2M0
Canada

ATTN: Larry Herbert

CERTIFICATE OF ANALYSIS

13 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A11-9158**

Notes:
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

CERTIFIED BY

Emmanuel Eseme , Ph.D.
Quality Control

SCC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report: A11-9158

Analyte Symbol	Au	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Fe	Hf	Hf	Ga
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.01	0.1	1	0.1
Analysis Method	FA-AA	INAA	MULT INAA/TD-ICP/TD-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	TD-ICP	MULT TD-ICP/TD-ICP-MS	MULT INAA/TD-ICP/TD-MS	MULT INAA/TD-ICP/TD-MS	TD-ICP	TD-ICP	INAA	MULT INAA/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	TD-ICP	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	INAA	TD-MS	INAA	TD-MS
797102	< 5	< 2	0.08	21.6	< 0.1	12	11.0	1.1	18.7	0.14	4.91	1.9	682	1.3	< 0.1	< 0.5	1.34	1.0	1	0.70	0.97	3.3	2	19.2
797103	< 5	< 2	0.06	27.9	< 0.1	2	6.1	0.9	13.6	0.17	3.08	1.5	436	0.9	< 0.1	< 0.5	0.75	0.7	7	0.41	3.88	2.0	2	15.1
797104	30	34	0.52	169	< 0.1	< 1	< 0.5	63.8	10.3	18.1	0.19	0.9	14	< 0.1	0.3	< 0.5	0.03	15.4	8	0.13	16.8	0.3	< 1	1.2
797105	32	33	0.67	342	0.2	< 1	1.2	107	35.8	> 20.0	1.38	< 0.5	25	0.2	0.9	< 0.5	0.31	101	6	0.53	24.9	0.8	< 1	5.6
797106	602	663	20.3	> 10000	16.6	4	20.4	152	428	2.58	3.39	23.5	97	0.5	1.3	< 0.5	2.31	67.1	85	3.52	5.97	0.8	1	7.6
797107	400	408	47.3	> 10000	14.0	6	44.4	262	326	3.59	1.50	36.1	28	0.2	5.4	< 0.5	13.0	89.1	80	0.48	4.89	0.4	< 1	6.0
797108	795	725	342	> 10000	120	< 1	94.4	495	2720	> 20.0	0.27	37.8	30	< 0.1	7.8	< 0.5	0.11	288	10	0.39	20.7	< 0.1	< 1	1.3
797109	9	< 2	2.15	1180	0.4	< 1	2.5	215	61.0	4.94	4.86	24.1	22	0.3	0.2	< 0.5	5.62	99.0	234	0.14	13.2	0.6	< 1	14.8
797110	188	233	3.66	5630	2.3	< 1	20.7	159	117	0.66	5.15	9.7	297	0.8	0.5	< 0.5	3.29	53.9	98	5.90	4.81	1.3	2	9.9
797111	1070	1090	116	> 10000	22.7	3	64.7	383	505	5.69	0.18	78.1	13	< 0.1	6.7	1.0	10.8	226	25	0.30	6.27	< 0.1	< 1	1.0
797112	< 5	< 2	1.43	121	0.2	< 1	7.8	165	167	0.02	4.28	3.3	682	2.4	0.1	< 0.5	4.66	33.0	540	17.6	7.12	3.5	2	18.7
797113	139	157	4.37	3120	1.9	< 1	27.2	137	172	0.29	5.17	28.2	133	0.7	1.2	< 0.5	8.49	53.9	264	2.11	9.09	0.6	1	21.2
797114	< 5	< 2	0.24	29.5	< 0.1	2	4.7	1.6	19.6	0.05	4.90	1.6	517	1.7	< 0.1	< 0.5	0.78	0.7	6	0.46	0.81	3.2	2	18.1

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Na	Nb	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tl	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Detection Limit	0.1	1	0.1	5	0.01	0.5	0.01	1	0.01	0.1	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Analysis Method	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA	TD-MS	TD-ICP	MULT INAA/TD-ICP-MS	TD-MS	INAA	INAA	MULT INAA/TD-ICP-MS	TD-MS	TD-MS	MULT INAA/TD-ICP-MS	TD-MS	TD-ICP	MULT INAA/TD-ICP-MS	TD-MS	MULT INAA/TD-ICP-MS
797102	0.3	< 1	< 0.1	< 5	2.00	8.3	0.18	394	3.12	10.5	0.008	45.5	0.002	1.0	2.2	0.9	1	200	0.6	< 0.1	0.07	9.8	0.20	2.7
797103	0.2	< 1	< 0.1	< 5	0.73	4.6	0.31	3160	1.85	9.0	0.006	25.9	0.002	0.8	3.1	0.7	1	144	0.6	< 0.1	0.05	6.5	0.10	1.9
797104	0.2	< 1	< 0.1	< 5	0.05	1.2	0.23	533	< 0.01	0.5	0.001	3.5	0.010	0.2	0.4	6.1	< 1	1.7	< 0.1	0.2	0.01	0.8	0.08	0.1
797105	0.2	< 1	< 0.1	< 5	0.17	5.0	1.82	1460	0.02	0.9	0.010	12.0	0.018	0.3	2.8	6.0	< 1	1.6	0.1	0.5	0.04	3.0	0.28	0.7
797106	0.2	< 1	< 0.1	< 5	0.55	5.9	0.78	347	2.01	2.1	0.064	31.1	0.002	1.3	3.8	34.1	< 1	165	< 0.1	3.5	0.29	1.5	0.34	0.2
797107	0.5	< 1	0.2	< 5	0.08	3.8	0.33	2030	0.42	1.2	0.027	4.1	< 0.001	4.2	7.9	38.5	< 1	123	< 0.1	9.2	0.19	0.6	0.33	0.1
797108	1.5	7	0.8	< 5	0.06	0.8	0.13	74	0.09	0.2	0.042	4.8	< 0.001	2.0	0.4	279	1	10.3	< 0.1	35.3	0.05	0.1	0.46	< 0.1
797109	0.2	< 1	< 0.1	< 5	0.04	15.3	3.11	1420	1.23	1.6	0.024	0.3	0.004	0.9	37.2	5.0	< 1	155	0.1	0.7	0.35	1.1	< 0.05	0.3
797110	0.2	< 1	< 0.1	< 5	0.95	9.7	1.25	415	2.97	3.7	0.104	52.6	< 0.001	1.0	6.4	7.1	< 1	249	0.1	0.8	0.49	2.2	0.50	0.3
797111	0.4	< 1	0.3	< 5	0.04	3.9	0.16	1610	0.05	0.1	0.026	2.1	< 0.001	10.6	1.3	74.8	< 1	45.5	< 0.1	7.7	0.01	0.1	1.18	< 0.1
797112	0.7	< 1	< 0.1	< 5	3.89	85.4	4.83	1720	0.73	0.7	0.136	407	0.002	1.3	25.3	1.5	< 1	375	< 0.1	0.2	0.37	4.2	2.61	1.5
797113	0.6	< 1	< 0.1	< 5	0.31	11.1	2.16	1360	2.19	< 0.1	0.059	19.6	< 0.001	4.9	24.1	5.1	< 1	335	< 0.1	0.2	0.28	1.4	0.19	0.4
797114	0.3	< 1	< 0.1	< 5	0.99	10.1	0.12	408	3.75	6.3	0.007	39.9	< 0.001	0.9	2.2	0.6	1	202	0.1	< 0.1	0.07	9.8	0.15	3.1

Analyte Symbol	V	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Eu	Gd	Dy	Tb	Tb	Ho	Er	Tm	Yb	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-ICP	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA
797102	2	< 1	18.1	98	42.2	40.8	93.1	99	11.2	40.6	36	7.2	7.2	1.29	1.4	5.4	3.9	0.7	< 0.5	0.7	2.0	0.3	1.9	2.0
797103	22	< 1	13.4	66	24.4	22.8	53.9	58	6.6	23.6	25	4.1	3.8	0.74	0.9	2.9	2.4	0.4	< 0.5	0.5	1.3	0.2	1.3	1.4
797104	7	< 1	1.2	20	0.8	1.0	1.5	< 3	0.2	0.6	< 5	0.1	0.1	< 0.05	< 0.2	0.1	0.2	< 0.1	< 0.5	< 0.1	0.1	< 0.1	0.1	0.2
797105	22	< 1	2.2	32	2.3	2.2	5.0	3	0.6	2.2	< 5	0.5	0.4	0.11	< 0.2	0.4	0.4	< 0.1	< 0.5	< 0.1	0.2	< 0.1	0.2	0.3
797106	56	< 1	3.2	35	6.8	7.0	14.7	20	1.7	6.2	7	1.1	1.3	0.26	0.3	0.9	0.7	0.1	< 0.5	0.1	0.4	< 0.1	0.3	0.6
797107	58	< 1	6.7	12	4.9	4.0	10.7	8	1.5	6.1	< 5	1.3	1.2	0.42	0.3	1.2	1.1	0.2	< 0.5	0.2	0.7	0.1	1.0	1.0
797108	9	< 1	0.2	1	0.6	0.8	1.1	< 3	0.1	0.4	< 5	< 0.1	< 0.1	< 0.05	1.0	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
797109	204	< 1	13.2	24	6.9	6.3	15.6	15	2.0	8.0	< 5	1.8	2.0	0.57	0.7	1.9	2.3	0.3	< 0.5	0.5	1.5	0.2	1.3	1.5
797110	81	< 1	6.0	59	10.2	10.9	22.5	28	2.7	9.9	11	1.8	2.2	0.42	0.6	1.5	1.3	0.2	< 0.5	0.3	0.7	< 0.1	0.5	0.6
797111	8	< 1	1.9	2	1.5	1.4	2.7	< 3	0.3	1.4	< 5	0.2	0.3	0.06	< 0.2	0.2	0.2	< 0.1	< 0.5	< 0.1	0.3	< 0.1	0.6	0.8
797112	150	< 1	23.0	177	40.8	36.8	92.9	96	12.5	50.7	41	10.2	10.3	2.56	2.9	7.4	4.5	0.9	0.9	0.8	1.9	0.3	1.6	1.9
797113	119	< 1	19.8	22	15.6	13.1	36.7	36	4.7	19.3	18	4.0	3.8	1.22	1.3	3.7	3.5	0.6	< 0.5	0.7	1.9	0.3	1.4	1.6
797114	2	< 1	16.0	96	34.3	38.1	85.1	90	9.5	34.6	35	6.1	6.4	1.14	1.3	4.6	3.3	0.6	0.7	0.6	1.7	0.3	1.7	2.1

Analyte Symbol	Lu	Lu	Mass
Unit Symbol	ppm	ppm	g
Detection Limit	0.1	0.05	
Analysis Method	TD-MS	INAA	INAA
797102	0.3	0.30	30.4
797103	0.2	0.22	29.0
797104	< 0.1	< 0.05	31.5
797105	< 0.1	< 0.05	38.5
797106	< 0.1	< 0.05	27.6
797107	0.2	0.18	31.6
797108	< 0.1	< 0.05	36.7
797109	0.2	0.28	31.6
797110	< 0.1	0.07	29.0
797111	0.1	0.17	29.0
797112	0.2	0.30	26.1
797113	0.2	0.25	30.5
797114	0.2	0.31	29.6

Quality Control

Analyte Symbol	Au	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Analysis Method	FA-AA	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
GXR-1 Meas			34.2	32.4		1070	1250	2.5	3.4	19	690	780	43.6	49		804	776		0.25	1.85		700		1.1
GXR-1 Cert			31.0	31.0		1110	1110	3.30	3.30	18.0	730	730	41.0	41.0		760	760		0.257	3.52		750		1.22
GXR-4 Meas				3.4			6550		0.4	320		52		53			88		1.77	4.63				
GXR-4 Cert				4.00			6520		0.860	310		52.0		42.0			73.0		1.77	7.20				
SDC-1 Meas			0.13	< 0.3		40.3	32	< 0.1	0.4	2	23.6	19	42.1	40		120	99		0.06	5.76		658		4.4
SDC-1 Cert			0.0410	0.0410		30.0	30.0	0.0800	0.0800	0.250	25.0	25.0	38.0	38.0		103	103		0.0650	8.34		630		3.00
SCO-1 Meas			0.10	< 0.3		34.9	36	0.1	0.4	< 1	35.0	30	27.9	31		104	100			5.11		567		2.2
SCO-1 Cert			0.134	0.134		28.7	28.7	0.140	0.140	1.37	31.0	31.0	27.0	27.0		103	103			7.24		570		1.84
GXR-6 Meas			0.22	0.5		74.3	83	< 0.1	0.3	2	99.1	96	25.1	31		123	134		0.02	9.19		1080		1.2
GXR-6 Cert			1.30	1.30		66.0	66.0	1.00	1.00	2.40	101	101	27.0	27.0		118	118		0.0160	17.7		1300		1.40
DNC-1a Meas						102	109						282	269		62.0	54					103		
DNC-1a Cert						100	100						247	247		70.0	70.0					118		
OREAS 13b (4-Acid) Meas			0.68	1.1		2370	2140			8			2290	2140		161	121		1.36					
OREAS 13b (4-Acid) Cert			0.86	0.86		2300.000	2300.000			9.0			2247	2247		133	133		1.20					
CDN-GS-1F Meas	1280																							
CDN-GS-1F Cert	1160.00																							
CDN-GS-1F Meas	1280																							
CDN-GS-1F Cert	1160.00																							
CDN-GS-1F Meas	1280																							
CDN-GS-1F Cert	1160.00																							
CDN-GS-P2 Meas	226																							
CDN-GS-P2 Cert	214.00																							
CDN-GS-P2 Meas	215																							
CDN-GS-P2 Cert	214.00																							
CDN-GS-P2 Meas	225																							
CDN-GS-P2 Cert	214.00																							
DMMAS 114 Meas		2220																			1580		1320	
DMMAS 114 Cert		2199																			1624		1561	
797104 Orig	33																							
797104 Dup	27																							
797114 Orig	< 5		0.36	0.4		29.5	39	< 0.1	< 0.3	2	4.2	< 3	1.6	3		19.0	26		0.05	4.85		542		1.6
797114 Dup	< 5		0.12	< 0.3		29.6	38	< 0.1	< 0.3	3	5.1	< 3	1.6	3		20.1	24		0.05	4.95		575		1.7
Method Blank Method Blank				< 0.3			< 1		< 0.3	< 1		< 3		< 1			< 1		< 0.01	< 0.01				
Method Blank Method Blank			< 0.05	< 0.3		< 0.2	2	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1		< 0.5	< 1		< 0.01	< 0.01		< 1		< 0.1
Method Blank Method Blank	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank	< 5																							
Method Blank Method Blank		< 2			< 5										< 20			< 50			< 0.5		< 50	

Quality Control

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg	Mn	Na
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%
Detection Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.01	0.1	1	0.1	0.1	1	0.1	5	0.01	0.5	0.01	1	0.01
Analysis Method	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA
GXR-1 Meas	1	1470	1470		0.97	8.3		> 10.0		2.65			0.4		9.3			0.8		0.04	10.8	0.24	932	
GXR-1 Cert	1.22	1380	1380		0.960	6.20		12.0		3.00			0.960		13.8			0.770		0.0500	8.20	0.217	852	
GXR-4 Meas	2		13		1.10															3.76		1.73	149	
GXR-4 Cert	1.90		19.0		1.01															4.01		1.66	155	
SDC-1 Meas	3	0.27	< 2		1.13	20.4		> 10.0												2.79	55.5	1.02	871	
SDC-1 Cert	3.00	2.60	2.60		1.00	17.9		64.0												2.72	34.0	1.02	883	
SCO-1 Meas	2	0.42	< 2		2.04	11.7		> 10.0												1.81	53.6	1.63	385	
SCO-1 Cert	1.84	0.370	0.370		1.87	10.5		68.0												2.30	45.0	1.64	410	
GXR-6 Meas	1	0.16	< 2		0.18	14.0		> 10.0		3.56			1.7		31.7			< 0.1		1.48	41.8	0.61	1070	
GXR-6 Cert	1.40	0.290	0.290		0.180	13.8		96.0		4.20			4.30		35.0			0.260		1.87	32.0	0.609	1010	
DNC-1a Meas						59.1		> 10.0													6.6			
DNC-1a Cert						57.0		270													5.20			
OREAS 13b (4-Acid) Meas						78.3		> 10.0																
OREAS 13b (4-Acid) Cert						75		8650																
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
DMMAS 114 Meas							38		85			3.32												1.72
DMMAS 114 Cert							42		84			3.31												1.78
797104 Orig																								
797104 Dup																								
797114 Orig	2	0.04	< 2		0.78	0.7		4		0.46			3.0		15.2	0.2		< 0.1		0.99	10.8	0.12	405	
797114 Dup	2	0.04	< 2		0.78	0.7		9		0.46			3.4		21.1	0.3		< 0.1		0.99	9.4	0.12	411	
Method Blank Method Blank	< 1		< 2		< 0.01															< 0.01		< 0.01	11	
Method Blank Method Blank	< 1	< 0.02	< 2		< 0.01	< 0.1		< 1		< 0.05			< 0.1		< 0.1	< 0.1		< 0.1		< 0.01	< 0.5	< 0.01	3	
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank				< 0.5			< 1		< 2		< 1	< 0.01		< 1			< 1		< 5					< 0.01

Quality Control

Analyte Symbol	Nb	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Ti	Th	Th	Tl	U	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.01	0.1	0.2	0.05	0.1	0.5	2	1	0.1	1
Analysis Method	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-ICP	INAA	TD-MS	TD-MS
GXR-1 Meas	0.2	0.054	3.0					16.0		27	310	< 0.1				3.0		0.39	33.2		90		33.2	21
GXR-1 Cert	0.800	0.0650	14.0					16.6		54.0	275	0.175				2.44		0.390	34.9		80.0		32.0	38.0
GXR-4 Meas		0.113																			91			
GXR-4 Cert		0.120																			87.0			
SDC-1 Meas		0.051								< 1	205				0.57						96		41.6	29
SDC-1 Cert		0.0690								3.00	183				0.606						102		40.0	290
SCO-1 Meas		0.072								1	160				0.33						130		21.2	77
SCO-1 Cert		0.0900								3.70	174				0.380						131		26.0	160
GXR-6 Meas	< 0.1	0.031	86.1					1.1		< 1	33.5	< 0.1		< 0.1		5.3		1.92	1.4		145		12.9	69
GXR-6 Cert	7.50	0.0350	90.0					0.940		1.70	35.0	0.485		0.0180		5.30		2.20	1.54		186		14.0	110
DNC-1a Meas											139										144		17.3	37
DNC-1a Cert											144										148		18.0	38.0
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-1F Meas																								
CDN-GS-1F Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
CDN-GS-P2 Meas																								
CDN-GS-P2 Cert																								
DMMAS 114 Meas						12.0	6.4													16.6				
DMMAS 114 Cert						11.2	6.5													17.4				
797104 Orig																								
797104 Dup																								
797114 Orig	6.3	0.007	41.0		< 0.001			0.7		1	202	0.1		< 0.1	0.07	8.3		0.14	3.0		2		15.6	91
797114 Dup	6.2	0.007	38.7		< 0.001			0.5		1	202	0.2		< 0.1	0.07	9.4		0.16	3.3		2		16.3	100
Method Blank Method Blank		< 0.001													< 0.01						< 2			
Method Blank Method Blank	< 0.1	< 0.001	< 0.2		< 0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1	< 0.01	< 0.1		< 0.05	< 0.1		< 2		< 0.1	< 1
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank																								
Method Blank Method Blank				< 15		< 0.1	< 0.1		< 3				< 0.5				< 0.2			< 0.5		< 1		

Quality Control

Analyte Symbol	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Eu	Gd	Dy	Tb	Tb	Ho	Er	Tm	Yb	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.1	0.05	
Analysis Method	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	INAA
GXR-1 Meas	7.5		14.8			8.4		2.8		0.60		4.1	4.8	0.8				0.4	1.9		0.3		
GXR-1 Cert	7.50		17.0			18.0		2.70		0.690		4.20	4.30	0.830				0.430	1.90		0.280		
GXR-4 Meas																							
GXR-4 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
SCO-1 Meas																							
SCO-1 Cert																							
GXR-6 Meas	11.4		31.1			11.0		2.3		0.59		2.3	2.2	0.4				0.2	1.4		0.2		
GXR-6 Cert	13.9		36.0			13.0		2.67		0.760		2.97	2.80	0.415				0.0320	2.40		0.330		
DNC-1a Meas	3.7					4.7				0.57									1.7				
DNC-1a Cert	3.60					5.20				0.590									2.00				
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
CDN-GS-1F Meas																							
CDN-GS-1F Cert																							
CDN-GS-1F Meas																							
CDN-GS-1F Cert																							
CDN-GS-1F Meas																							
CDN-GS-1F Cert																							
CDN-GS-P2 Meas																							
CDN-GS-P2 Cert																							
CDN-GS-P2 Meas																							
CDN-GS-P2 Cert																							
CDN-GS-P2 Meas																							
CDN-GS-P2 Cert																							
DMMAS 114 Meas		14.1		28					2.2														
DMMAS 114 Cert		15.1		23.7					2.4														
797104 Orig																							
797104 Dup																							
797114 Orig	33.0		81.9		9.0	32.8		5.9		1.08		4.4	3.3	0.6		0.6	1.6	0.2	1.5		0.2		
797114 Dup	35.5		88.3		9.9	36.4		6.4		1.19		4.7	3.4	0.6		0.6	1.8	0.3	1.8		0.3		
Method Blank Method Blank																							
Method Blank Method Blank	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05		< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1		
Method Blank Method Blank																							
Method Blank Method Blank																							
Method Blank Method Blank																							
Method Blank Method Blank																							
Method Blank Method Blank																							
Method Blank Method Blank		< 0.5		< 3			< 5		< 0.1		< 0.2				< 0.5					< 0.2		< 0.05	30.0

Quality Analysis ... **Actlabs** *Innovative Technologies*

Date Submitted: 26-Sep-11
Invoice No.: A11-11021
Invoice Date: 09-Nov-11
Your Reference:

Larry Herbert
P.O. Box 1059
Balmertown ON P0V 1C0
Canada

ATTN: Larry Herbert

CERTIFICATE OF ANALYSIS

12 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2 Au - Fire Assay AA
Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A11-11021**

Notes:
If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3
Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

CERTIFIED BY

Emmanuel Eseme , Ph.D.
Quality Control

ISO/IEC 17025
SCC Accredited
LAB 266
LAB 266
Accrédité CCN

ACTIVATION LABORATORIES LTD.

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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Activation Laboratories Ltd. Report:

Analyte Symbol	Au	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Fe	Hf	Hf	Ga
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.01	0.1	1	0.1
Analysis Method	FA-AA	INAA	MULT INAA/TD-ICP/TD-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	TD-ICP	MULT TD-ICP/TD-ICP-MS	MULT INAA/TD-ICP/TD-MS	MULT INAA/TD-ICP/TD-MS	TD-ICP	TD-ICP	INAA	MULT INAA/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	TD-ICP	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	MULT INAA/TD-ICP-MS	INAA	TD-MS	INAA	TD-MS
797151	< 5	9	0.28	45.0	< 0.1	< 1	8.6	85.7	58.8	0.16	5.06	< 0.5	477	1.1	0.2	< 0.5	2.54	22.1	116	3.74	3.85	2.6	5	15.8
797152	< 5	< 2	0.11	37.1	< 0.1	< 1	4.7	106	64.0	0.06	4.07	< 0.5	66	0.7	< 0.1	< 0.5	9.73	38.3	335	1.14	7.05	1.2	3	11.5
797153	< 5	< 2	< 0.05	49.9	< 0.1	< 1	8.1	60.7	66.3	0.17	4.96	3.2	1190	1.1	0.2	< 0.5	3.07	17.9	88	4.83	3.83	2.6	5	14.9
56660	< 5	< 2	< 0.05	8.3	< 0.1	< 1	6.8	10.4	58.0	0.06	5.03	5.4	393	0.9	0.3	1.4	2.23	7.4	4	4.11	2.07	3.0	4	16.0
56661	6	9	< 0.05	62.5	< 0.1	< 1	9.6	112	82.2	0.05	5.67	< 0.5	408	0.8	0.1	< 0.5	2.77	40.0	134	4.41	4.13	1.9	3	16.9
56662	44	101	0.06	61.5	0.2	< 1	2.5	39.3	98.2	0.27	0.31	9.3	22	< 0.1	0.1	1.1	18.4	24.6	< 1	0.74	9.98	0.1	< 1	1.3
56663	< 5	19	< 0.05	83.9	0.2	< 1	2.4	31.1	40.9	0.06	2.18	1.9	249	0.3	< 0.1	3.1	1.87	15.3	65	1.76	2.30	0.6	2	5.8
56664	16	< 2	< 0.05	4.0	< 0.1	< 1	0.6	2.6	3.6	< 0.01	0.21	1.2	5	< 0.1	< 0.1	4.3	0.08	0.6	7	0.47	0.43	< 0.1	< 1	0.4
56665	< 5	< 2	< 0.05	6.7	< 0.1	< 1	0.8	3.1	3.5	< 0.01	0.42	2.1	16	0.1	< 0.1	1.9	0.13	1.4	30	0.49	0.49	< 0.1	< 1	0.8
56666	< 5	< 2	< 0.05	4.5	< 0.1	< 1	< 0.5	1.8	3.6	< 0.01	0.06	3.0	5	< 0.1	< 0.1	1.1	0.04	0.5	26	0.40	0.35	0.2	< 1	0.2
56667	20	26	< 0.05	26.4	0.1	< 1	2.8	107	109	0.10	2.90	2.4	217	0.3	0.1	1.4	9.55	31.5	70	1.52	9.29	1.3	2	8.4
56668	< 5	< 2	< 0.05	7.3	< 0.1	< 1	5.5	30.4	56.9	0.02	4.23	< 0.5	347	1.1	< 0.1	2.1	1.36	13.6	44	2.81	2.61	3.3	5	16.3

Activation Laboratories Ltd. Report:

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Na	Nb	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Detection Limit	0.1	1	0.1	5	0.01	0.5	0.01	1	0.01	0.1	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Analysis Method	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA	TD-MS	TD-ICP	MULT INAA/TD-ICP-MS	TD-MS	INAA	INAA	MULT INAA/TD-ICP-MS	TD-MS	TD-MS	MULT INAA/TD-ICP-MS	TD-MS	TD-ICP	MULT INAA/TD-ICP-MS	TD-MS	MULT INAA/TD-ICP-MS
797151	0.2	< 1	< 0.1	< 5	1.01	14.4	1.14	512	4.65	1.9	0.065	25.3	< 0.001	2.0	12.6	0.4	< 1	301	0.1	< 0.1	0.42	6.4	0.16	1.2
797152	0.1	< 1	< 0.1	< 5	0.21	11.7	1.91	1340	3.46	0.3	0.087	5.5	< 0.001	0.9	28.2	< 0.1	< 1	337	< 0.1	< 0.1	0.36	1.6	< 0.05	0.4
797153	0.1	< 1	< 0.1	< 5	1.45	19.1	1.21	579	3.79	3.0	0.066	36.4	0.001	1.3	10.5	0.4	< 1	293	0.2	< 0.1	0.44	6.5	0.19	1.2
56660	0.1	< 1	< 0.1	< 5	1.76	21.0	0.61	257	3.82	3.6	0.050	50.0	< 0.001	1.1	4.3	< 0.1	< 1	155	0.2	< 0.1	0.27	8.2	0.20	2.1
56661	0.3	< 1	< 0.1	< 5	3.22	28.1	1.01	623	2.18	0.7	0.058	69.4	0.001	1.3	21.9	< 0.1	< 1	194	< 0.1	< 0.1	0.33	1.6	0.35	0.5
56662	< 0.1	< 1	< 0.1	< 5	0.05	4.1	4.81	3420	0.04	0.3	0.011	2.1	< 0.001	0.3	2.7	0.3	< 1	243	< 0.1	0.3	0.04	0.3	< 0.05	< 0.1
56663	0.1	< 1	< 0.1	< 5	0.89	8.6	0.66	1020	0.45	0.7	0.042	26.0	< 0.001	0.9	10.9	< 0.1	< 1	87.1	< 0.1	< 0.1	0.27	0.8	0.08	0.3
56664	0.2	< 1	< 0.1	< 5	0.04	2.9	0.03	139	0.14	< 0.1	< 0.001	0.8	0.001	< 0.1	0.3	< 0.1	< 1	20.4	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
56665	< 0.1	< 1	< 0.1	< 5	0.10	3.7	0.05	393	0.24	< 0.1	0.013	2.0	< 0.001	0.2	1.1	< 0.1	< 1	26.3	< 0.1	< 0.1	0.02	0.2	< 0.05	< 0.1
56666	< 0.1	< 1	< 0.1	< 5	0.02	< 0.5	0.01	87	0.04	0.1	0.002	0.3	< 0.001	0.2	0.3	< 0.1	< 1	4.4	< 0.1	< 0.1	0.01	< 0.1	< 0.05	< 0.1
56667	0.3	< 1	< 0.1	< 5	0.88	15.6	3.36	3090	0.38	1.1	0.027	22.4	< 0.001	< 0.1	18.3	< 0.1	< 1	130	< 0.1	< 0.1	0.31	1.0	0.07	0.3
56668	0.4	< 1	< 0.1	< 5	2.39	23.6	0.57	568	3.82	5.1	0.052	39.1	< 0.001	2.0	8.0	0.3	< 1	114	0.5	< 0.1	0.36	2.0	0.27	1.1

Activation Laboratories Ltd. Report:

Analyte Symbol	V	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Eu	Gd	Dy	Tb	Tb	Ho	Er	Tm	Yb	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2
Analysis Method	TD-ICP	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA
797151	84	< 1	10.8	94	24.3	32.5	49.9	84	5.8	20.8	26	3.7	4.8	0.96	1.6	3.0	2.3	0.4	< 0.5	0.4	1.1	0.2	1.0	1.7
797152	108	< 1	13.7	46	18.2	25.6	43.5	67	5.6	21.8	31	3.9	5.2	1.15	1.6	3.3	2.7	0.5	< 0.5	0.5	1.5	0.2	1.4	2.3
797153	83	< 1	10.0	100	22.4	26.9	48.6	66	5.6	19.4	20	3.2	3.7	0.85	1.2	2.6	2.1	0.3	0.8	0.4	1.1	0.2	0.9	1.3
56660	37	< 1	5.6	108	17.8	24.5	35.8	56	3.9	13.6	16	2.2	3.1	0.61	1.1	1.8	1.1	0.2	< 0.5	0.2	0.5	< 0.1	0.5	0.9
56661	113	6	10.2	72	9.0	12.5	20.1	34	2.4	9.5	12	2.0	2.7	0.61	0.9	1.9	2.0	0.3	< 0.5	0.4	1.3	0.2	1.3	2.1
56662	55	3	7.5	7	7.4	8.7	14.9	22	1.9	7.7	8	1.5	1.9	0.56	0.7	1.6	1.2	0.2	< 0.5	0.2	0.6	< 0.1	0.4	0.7
56663	100	< 1	10.4	28	8.2	8.3	15.2	16	2.3	9.1	8	2.0	2.1	0.62	0.8	2.2	2.1	0.3	< 0.5	0.4	1.1	0.1	0.9	1.3
56664	< 2	< 1	0.3	2	0.2	< 0.5	0.8	< 3	< 0.1	0.2	< 5	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
56665	6	< 1	1.1	5	1.1	1.4	4.7	6	0.3	1.2	< 5	0.2	0.3	0.06	< 0.2	0.2	0.2	< 0.1	< 0.5	< 0.1	0.1	< 0.1	0.1	< 0.2
56666	< 2	< 1	0.3	9	0.4	0.6	1.7	< 3	0.1	0.4	< 5	< 0.1	0.2	< 0.05	< 0.2	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2
56667	130	< 1	15.3	55	15.6	17.1	16.7	24	3.4	13.2	13	2.6	3.1	0.82	1.0	2.9	2.7	0.4	< 0.5	0.5	1.5	0.2	1.4	2.0
56668	67	< 1	4.2	114	5.4	27.4	21.2	61	1.4	5.0	19	1.0	3.5	0.27	1.1	1.0	0.8	0.1	< 0.5	0.2	0.5	< 0.1	0.4	1.3

Analyte Symbol	Lu	Lu	Mass
Unit Symbol	ppm	ppm	g
Detection Limit	0.1	0.05	
Analysis Method	TD-MS	INAA	INAA
797151	0.1	0.22	29.0
797152	0.2	0.48	29.3
797153	0.1	0.20	31.7
56660	< 0.1	0.16	30.9
56661	0.2	0.37	27.0
56662	< 0.1	0.12	31.9
56663	0.1	0.28	35.2
56664	< 0.1	< 0.05	33.3
56665	< 0.1	0.06	34.8
56666	< 0.1	< 0.05	30.4
56667	0.2	0.35	30.8
56668	< 0.1	0.22	28.5

Quality Control

Analyte Symbol	Au	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Detection Limit	5	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Analysis Method	FA-AA	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
GXR-1 Meas			29.3	27.8		1070	1080	2.2	3.5	12	708	674	36.8	42		735	701		0.22	3.42		1240		1.0
GXR-1 Cert			31.0	31.0		1110	1110	3.30	3.30	18.0	730	730	41.0	41.0		760	760		0.257	3.52		750		1.22
GXR-4 Meas			2.71	3.4		5520	6760	0.2	0.4	328	57.8	43	42.0	45		75.8	74		1.83	4.43		168		1.9
GXR-4 Cert			4.00	4.00		6520	6520	0.860	0.860	310	52.0	52.0	42.0	42.0		73.0	73.0		1.77	7.20		1640		1.90
SDC-1 Meas			< 0.05	< 0.3		34.4	33	< 0.1	0.4	< 1	27.5	21	38.3	41		112	106		0.08	5.22		646		2.8
SDC-1 Cert			0.0410	0.0410		30.00	30.00	0.0800	0.0800	0.250	25.00	25.00	38.0	38.0		103.00	103.00		0.0650	8.34		630		3.00
SCO-1 Meas			< 0.05	0.4		29.2	29	< 0.1	0.3	< 1	35.9	26	28.1	32		106	100		0.07	4.51		560		1.6
SCO-1 Cert			0.134	0.134		29	29	0.140	0.140	1.4	31.0	31.0	27	27		100	100		0.0630	7.24		570		1.80
GXR-6 Meas				< 0.3			50		< 0.3	5		68		20			96		< 0.01	3.82				
GXR-6 Cert				1.30			66.0		1.00	2.40		101		27.0			118		0.0160	17.7				
DNC-1a Meas						97.7	99						271	265		68.1	58					98		
DNC-1a Cert						100	100						247	247		70.0	70.0					118		
OREAS 13b (4-Acid) Meas			0.75	0.9		2330	2380			7			2270	2300		145	128		1.15					
OREAS 13b (4-Acid) Cert			0.86	0.86		2300.000	2300.000			9.0			2247	2247		133	133		1.20					
OxJ80 Meas	2430																							
OxJ80 Cert	2331.000																				1790		1500	
DMMAS 114 Meas		2300																			1624		1561	
DMMAS 114 Cert		2199																						
56662 Orig	44	101	0.06	< 0.3	< 5	66.6	61	0.2	0.7	< 1	2.5	4	39.3	32	< 20	98.2	75	100	0.27	0.31	9.3	22	< 50	< 0.1
56662 Split	57	72	< 0.05	< 0.3	< 5	27.4	25	0.2	0.6	< 1	2.2	4	30.9	30	< 20	89.4	67	90	0.25	0.28	8.0	18	110	< 0.1
56664 Orig	16	< 2	< 0.05	< 0.3	< 5	4.0	4	< 0.1	< 0.3	< 1	0.6	< 3	2.6	5	< 20	3.6	3	< 50	< 0.01	0.21	1.2	5	< 50	< 0.1
56664 Split	< 5	< 2	< 0.05	< 0.3	< 5	4.1	4	< 0.1	< 0.3	< 1	0.6	< 3	2.9	4	< 20	2.5	3	< 50	< 0.01	0.17	1.0	4	< 50	< 0.1
56665 Orig			< 0.05	< 0.3		7.2	7	< 0.1	< 0.3	< 1	0.9	< 3	3.0	5		3.8	5		< 0.01	0.43		16		0.1
56665 Dup			< 0.05	< 0.3		6.1	6	< 0.1	< 0.3	< 1	0.8	< 3	3.3	5		3.2	3		< 0.01	0.40		16		0.1
56666 Orig	< 5																							
56666 Dup	< 5																							
Method Blank Method Blank			< 0.05			< 0.2		< 0.1			< 0.5		< 0.5			< 0.5						< 1		< 0.1
Method Blank Method Blank		< 2			< 5										< 20			< 50			< 0.5		< 50	

Quality Control

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg	Mn	Na
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	%	ppm	%
Detection Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.01	0.1	1	0.1	0.1	1	0.1	5	0.01	0.5	0.01	1	0.01
Analysis Method	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	INAA
GXR-1 Meas	1	1130	1180		0.97	7.4		> 10.0		2.98			0.7		10.7			0.7		0.07	11.4	0.36	875	
GXR-1 Cert	1.22	1380	1380		0.960	8.20		12.0		3.00			0.960		13.8			0.770		0.0500	8.20	0.217	852	
GXR-4 Meas	2		8		1.14	14.9		> 10.0		2.92			1.3		16.1			0.2		4.58	10.9	1.80	166	
GXR-4 Cert	1.90		19.0		1.01	14.6		64.0		2.80			6.30		20.0			0.270		4.01	11.1	1.66	155	
SDC-1 Meas	3	0.27	< 2		1.20	19.2		> 10.0		4.21			0.4		18.5					3.43	33.8	1.11	959	
SDC-1 Cert	3.00	2.60	2.60		1.00	18.0		64.00		4.00			8.30		21.00					2.72	34.00	1.02	880.00	
SCO-1 Meas	2	0.38	< 2		2.06	11.3		> 10.0		7.41					13.2					3.30	40.0	1.66	427	
SCO-1 Cert	1.80	0.37	0.37		1.87	11.00		68.0		7.80					15					2.30	45	1.64	410	
GXR-6 Meas	< 1		< 2		0.13															1.74		0.33	850	
GXR-6 Cert	1.40		0.290		0.180															1.87		0.609	1010	
DNC-1a Meas						57.7		> 10.0													4.1			
DNC-1a Cert						57.0		270													5.20			
OREAS 13b (4-Acid) Meas						78.9		> 10.0																
OREAS 13b (4-Acid) Cert						75		8650																
OxJ80 Meas																								1.97
OxJ80 Cert																								1.78
DMMAS 114 Meas							41		98			3.47												0.04
DMMAS 114 Cert							42		84			3.31												0.04
56662 Orig	< 1	0.11	< 2	1.1	18.4	28.0	25	< 1	< 2	0.74	< 1	9.98	0.1	< 1	1.3	< 0.1	< 1	< 0.1	< 5	0.05	4.1	4.81	3420	0.14
56662 Split	< 1	0.10	< 2	1.3	16.9	22.6	25	5	< 2	0.67	< 1	9.69	0.1	< 1	1.3	< 0.1	< 1	< 0.1	< 5	0.05	3.6	4.40	3090	0.12
56664 Orig	< 1	0.03	< 2	4.3	0.08	0.6	< 1	7	27	0.47	< 1	0.43	< 0.1	< 1	0.4	0.2	< 1	< 0.1	< 5	0.04	2.9	0.03	139	
56664 Split	< 1	< 0.02	< 2	4.3	0.09	0.6	< 1	5	26	0.48	< 1	0.39	< 0.1	< 1	0.3	< 0.1	< 1	< 0.1	< 5	0.03	2.7	0.03	137	
56665 Orig	< 1	< 0.02	< 2		0.13	1.4		> 10.0		0.51			< 0.1		0.9	< 0.1		< 0.1		0.10	3.7	0.05	408	
56665 Dup	< 1	< 0.02	< 2		0.12	1.4		> 10.0		0.47			< 0.1		0.7	< 0.1		< 0.1		0.09	3.7	0.05	379	
56666 Orig																								
56666 Dup																								
Method Blank Method Blank		< 0.02				< 0.1		< 1		< 0.05			< 0.1		< 0.1	< 0.1		< 0.1			< 0.5			
Method Blank Method Blank				< 0.5			< 1		< 2		< 1	< 0.01		< 1			< 1		< 5					0.05

Quality Control

Analyte Symbol	Nb	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Ti	Th	Th	Tl	U	U	V	W	Y	Zr
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.1	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.01	0.1	0.2	0.05	0.1	0.5	2	1	0.1	1
Analysis Method	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-ICP	INAA	TD-MS	TD-MS
GXR-1 Meas	0.8	0.056	2.9					15.2		23	258	< 0.1		8.2		2.9		0.34	29.3		82		24.7	33
GXR-1 Cert	0.800	0.0650	14.0					16.6		54.0	275	0.175		13.0		2.44		0.390	34.9		80.0		32.0	38.0
GXR-4 Meas	8.1	0.137	131					6.5		6	206	0.6		0.8		16.1		2.68	5.6		93		13.3	44
GXR-4 Cert	10.0	0.120	160					5.60		5.60	221	0.790		0.970		22.5		3.20	6.20		87.0		14.0	186
SDC-1 Meas	0.2	0.056	127							< 1	173	< 0.1			0.10	10.3		0.52	3.7		35		32.3	19
SDC-1 Cert	21.00	0.0690	127.00							3.00	180.00	1.20			0.606	12.00		0.70	3.10		102.00		40.0	290.00
SCO-1 Meas	0.6	0.081	112							2	157				0.37	7.5					134		18.8	44
SCO-1 Cert	11	0.0900	110.0							3.7	170				0.380	9.70					130		26	160
GXR-6 Meas		0.018																			147			
GXR-6 Cert		0.0350																			186			
DNC-1a Meas											130										148		15.3	34
DNC-1a Cert											144										148		18.0	38.0
OREAS 13b (4-Acid) Meas																								
OREAS 13b (4-Acid) Cert																								
OxJ80 Meas																								
OxJ80 Cert																								
DMMAS 114 Meas						5.0	7.3													18.8				
DMMAS 114 Cert						11.2	6.5													17.4				
56662 Orig	0.3	0.011	2.1	< 15	< 0.001	0.3	2.7	0.3	< 3	< 1	243	< 0.1	< 0.5	0.3	0.04	0.3	< 0.2	< 0.05	< 0.1	< 0.5	55	3	7.5	7
56662 Split	0.2	0.010	1.8	< 15	< 0.001	0.3	2.6	< 0.1	< 3	< 1	216	< 0.1	< 0.5	< 0.1	0.04	0.2	0.4	< 0.05	< 0.1	< 0.5	50	< 1	6.6	6
56664 Orig	< 0.1	< 0.001	0.8	< 15	0.001	< 0.1	0.3	< 0.1	< 3	< 1	20.4	< 0.1	< 0.5	< 0.1	< 0.01	< 0.1	< 0.2	< 0.05	< 0.1	< 0.5	< 2	< 1	0.3	2
56664 Split	< 0.1	< 0.001	0.6	< 15	0.001	< 0.1	0.3	< 0.1	< 3	< 1	17.7	< 0.1	< 0.5	< 0.1	< 0.01	< 0.1	< 0.2	< 0.05	< 0.1	< 0.5	3	< 1	0.2	< 1
56665 Orig	0.1	0.013	2.0		< 0.001			< 0.1		< 1	26.8	< 0.1		< 0.1	0.02	0.1		< 0.05	< 0.1		6		1.2	5
56665 Dup	< 0.1	0.013	2.0		< 0.001			< 0.1		< 1	25.8	< 0.1		< 0.1	0.02	0.2		< 0.05	< 0.1		6		1.1	5
56666 Orig																								
56666 Dup																								
Method Blank Method Blank	< 0.1		< 0.2		< 0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1		< 0.1		< 0.05	< 0.1				< 0.1	< 1
Method Blank Method Blank				< 15		< 0.1	< 0.1		< 3				< 0.5				< 0.2			< 0.5		< 1		

Quality Control

Analyte Symbol	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Eu	Gd	Dy	Tb	Tb	Ho	Er	Tm	Yb	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Detection Limit	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.2	0.1	0.1	0.1	0.5	0.1	0.1	0.1	0.1	0.2	0.1	0.05	
Analysis Method	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	INAA
GXR-1 Meas	7.1		13.8			7.5		2.5		0.55		3.7	4.4	0.7				0.3	1.8		0.2		
GXR-1 Cert	7.50		17.0			18.0		2.70		0.690		4.20	4.30	0.830				0.430	1.90		0.280		
GXR-4 Meas	55.3		105			38.5		6.0		1.39		4.5	2.8	0.5				0.2	1.0		0.1		
GXR-4 Cert	64.5		102			45.0		6.60		1.63		5.25	2.60	0.360				0.210	1.60		0.170		
SDC-1 Meas	40.9		88.1			38.7		7.4		1.50		6.8	6.4	1.1		1.3	3.7	0.5	3.1				
SDC-1 Cert	42.00		93.00			40.00		8.20		1.70		7.00	6.70	1.20		1.50	4.10	0.65	4.00				
SCO-1 Meas	27.6		54.3		6.5	23.8																	
SCO-1 Cert	30.0		62.00		6.6	26.0																	
GXR-6 Meas																							
GXR-6 Cert																							
DNC-1a Meas	3.4					4.6				0.55									1.8				
DNC-1a Cert	3.60					5.20				0.590									2.00				
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
OxJ80 Meas																							
OxJ80 Cert																							
DMMAS 114 Meas		18.8		33					2.5														
DMMAS 114 Cert		15.1		23.7					2.4														
56662 Orig	7.4	8.7	14.9	22	1.9	7.7	8	1.5	1.9	0.56	0.7	1.6	1.2	0.2	< 0.5	0.2	0.6	< 0.1	0.4	0.7	< 0.1	0.12	31.9
56662 Split	6.0	8.3	12.6	22	1.7	6.9	9	1.4	1.8	0.50	0.8	1.3	1.1	0.2	0.5	0.2	0.6	< 0.1	0.4	0.7	< 0.1	0.12	34.1
56664 Orig	0.2	< 0.5	0.8	< 3	< 0.1	0.2	< 5	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.05	33.3
56664 Split	0.2	< 0.5	0.7	< 3	< 0.1	0.2	< 5	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.1	< 0.1	< 0.5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.05	29.5
56665 Orig	1.1		4.7		0.3	1.2		0.3		0.06		0.2	0.2	< 0.1		< 0.1	0.1	< 0.1	0.1		< 0.1		
56665 Dup	1.1		4.7		0.3	1.2		0.2		0.06		0.2	0.2	< 0.1		< 0.1	0.1	< 0.1	0.1		< 0.1		
56666 Orig																							
56666 Dup																							
Method Blank Method Blank	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05		< 0.1	< 0.1	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1		< 0.1		
Method Blank Method Blank		< 0.5		< 3			< 5		< 0.1		< 0.2				< 0.5					< 0.2		< 0.05	30.0

SGS

Certificate of Analysis

Work Order: RL1103943

Date: Nov 23, 2011

To: ACCOUNTS PAYABLE
COD SGS MINERALS
C/O P.O. Box 439
Whiffen Head Road
ARNOLD COVE
NF A0B 1A0

P.O. No.	:	LARRY HERBERT-DIXIE/CARBZONE#2
Project No.	:	-
No. Of Samples	:	9
Date Submitted	:	Nov 15, 2011
Report Comprises	:	Pages 1 to 2 (Inclusive of Cover Sheet)

Certified By . _____

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

Element	Au	Au	Au	WtKg
Method	FAA313	FAA313	FAA313	WGH79
Det.Lim.	5	0.01	0.001	0.01
Units	ppb	g/t	oz/t	kg
797251	85	0.09	0.002	1.70
797252	55	0.05	0.002	0.90
797253	25	0.03	<0.001	1.10
797254	40	0.04	0.001	0.50
797255	30	0.03	<0.001	0.70
797256	20	0.02	<0.001	0.60
797257	25	0.02	<0.001	2.00
797258	20	0.02	<0.001	1.40
797259	25	0.02	<0.001	0.70
*Dup 797251	<5	<0.01	<0.001	--