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Geological Survey Branch

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VICTORIA, BC
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FILE NO. ____
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ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT [type of survey(s)]: Geochemical & Geophysical
TOTAL COST: $13,875.29

AUTHOR(S): Andris Kikauka
SIGNATURE(S): A. Kikauka

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): ____
YEAR OF WORK: 2010

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S): 4820757

PROPERTY NAME: Fort - Elden

CLAIM NAME(S) (on which work was done): Specularite (602859), Specularite 2 (602877), Specularite 5 (691823), Recce 1 (606221)

COMMODITIES SOUGHT: Cu - Ag - Au - Mo - Pb - Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093K 093

MINING DIVISION: Omineca
NTS: ____

LATITUDE: 54 ° 37 ' 14 "
LONGITUDE: 125 ° 34 ' 48 " (at centre of work)

OWNER(S)
1) Andris Kikauka
2) ____

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OPERATOR(S) [who paid for the work]
1) Torch River Res Ltd
2) ____

MAILING ADDRESS
Bankers Hall West Tower Suite 1000
888 3rd St SW, Calgary AB T2P 5C5

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Eocene Monzonite, diorite, granodiorite, cut andesite pyroxenite hb gabbro (Cache Ck Grp Mississippian to Triassic) Chalcopyrite, pyo.py., molybdenite, sphalerite associated with silica biotite & K-spar alteration and pervasive qtz-carb veining. Disseminated vein and breccia mineralization related to Cu-Ag-Mo-Au porphyry.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 25760

(OVER)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic	9.6 Km	602859, 602877, 691823	3,792.09
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil	192 30 ICP and Au geochemistry	602859, 602877, 691823	6,890.15
Silt			
Rock	20 30 ICP and Au geochemistry	602859, 602877, 691823	3,193.05
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST	13,875.29

NTS 093K/12 TRIM 093K 063
LAT. 54 37' 14" N
LONG. 125 34' 48 W

GEOCHEMICAL & GEOPHYSICAL REPORT
on the
FORT-ELDEN Cu-Zn-Ag-Au-Mo PROJECT
SPECULARITE LAKE, FORT ST JAMES, B.C.

OMINECA MINING DIVISION

FOR

TORCH RIVER RESOURCES LIMITED,
Bankers Hall West Tower, Suite 1000, 888-3rd Street SW
Calgary, Alberta T2P 5C5

BY

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January 5, 2011

Amended April 15, 2011

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1.0 SUMMARY

The Fort-Elden property is comprised of 12 mineral tenures that total 1,611.5 hectares in area. The mineral claims are located 100 km west of Fort St James, BC. The property features copper-silver-molybdenum-lead-zinc-gold bearing sulphide minerals which include chalcopyrite, pyrrhotite, pyrite, molybdenite, sphalerite, galena and covelite. Associated alteration minerals include K-feldspar, sericite, kaolinite, biotite, silica, magnetite, hematite, chlorite, muscovite, jarosite, ankerite, epidote, garnet, sphene, apatite, and trace amounts of lucoxene and zircon. Mineral deposit types present on the Fort-Elden property are classified as porphyry and epigenetic characterized by disseminated, vein and breccia hydrothermal systems. The Elden Breccia features abundant secondary K-spar alteration, secondary green biotite, and hydrothermal silica. In March 2010, Torch R Res carried out geochemical soil and rock chip sampling, and geophysical magnetometer fieldwork carried out on the Elden Breccia Geochemical highlights (based on Pioneer Laboratories Inc, April. 2010 geochemical analysis certificate 2102609) of the Elden grid include:

1- >1,000 ppm Cu in soil in a 350 X 70 m area in the center of the grid (Breccia Zone)

2- Two 200 X 100 m areas (500-2,200 ppm Cu in soil), located 150 m NE and 150 m SW of the Breccia Zone.

3- Anomalous Ag and Au geochemical values correlate with the Cu in soil anomalies, Mo is sharply anomalous in the Breccia Zone.

4- Rock chip sample ELD10AR-7, angular sub-crop from the center of the Breccia Zone consisted of chloritic schist with quartz-carbonate-sericite-ankerite alteration, and limonite, pyrite and magnetite mineralization and contains 0.11% Cu, 1 ppm Ag, 39 ppb Au, and 26 ppm Mo

Follow-up fieldwork by Torch R Res in May, 2010 (and the subject of assessment work filed as SOW event number 4820757) consisted of 9.6 km grid surveying, geochemical rock and soil sampling, and magnetometer geophysics focusing on extensions of the Elden breccia showing in a 1 X 2 km area. A total of 20 rock chip samples were taken. Highlights from rock chip and soil sample geochemical analysis are listed as follows:

rock sample no	width	minerals	description
ELD-10-AR-54	38 cm	pyrite-chalcopyrite	roadcut
ELD-10-AR-55	60 cm	pyrite-chalcopyrite	roadcut
ELD-10-AR-57	subcrop	pyrite-chalcopyrite	on L 5700 N, stn 3436 E near a break in slope
ELD-10-AR-58	subcrop	pyrite-chalcopyrite	roadcut
ELD-10-AR-64	subcrop	pyrite-chalcopyrite	near L 5800 N, stn 3700 E
ELD-10-AR-65	subcrop	pyrite-chalcopyrite	near L 5700 N, stn 3750 E

rock sample no	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppb Au
ELD-10-AR-54	3911	233	286	16.1	1
ELD-10-AR-55	1925	119	219	6.3	1
ELD-10-AR-57	1175	116	138	6	16
ELD-10-AR-58	1000	133	168	4	2
ELD-10-AR-64	1411	34	102	2.5	3
ELD-10-AR-65	1445	25	75	1.6	9

Soil sample geochemical highlights (Elden Grid, May, 2010)

soil sample line northing	soil sample stn. easting	ppm Cu	ppm Ag	ppm Zn	ppm Mo
4500 N	4750 E	109	0.6	325	30
4500 N	4800 E	230	0.6	87	20
4600 N	4450 E	84	1.2	146	60
4600 N	4600 E	222	0.7	307	7
4700 N	4400 E	35	2.7	404	4
4800 N	4400 E	27	3.1	406	3
4800 N	4450 E	147	2.1	459	10
4900 N	4300 E	536	2.0	763	3
4900 N	4350 E	118	2.7	165	1
*4900 N	5300 E	35	1.1	911	2
*5100 N	5400 E	464	0.7	1372	4
5200 N	3700 E	417	1.3	123	4
5300 N	3350 E	397	0.6	103	4
5400 N	3550 E	576	1.2	75	6
5500 N	3400 E	427	1.7	139	2
5500 N	3450 E	782	1.8	179	3
5500 N	3650 E	239	0.5	78	3
5800 N	3400 E	432	0.7	194	4
6100 N	3650 E	335	0.5	117	4
6100 N	3700 E	419	0.8	123	6
6200 N	3650 E	235	0.4	108	7
6300 N	3500 E	356	0.1	54	10

*Recce grid soil samples (Recce grid located 1 km ESE of Elden grid)
Source: Pioneer Laboratories Inc, geochemical analysis certificate 2102647 (June, 2010)

A total of 192 soils were collected in areas of magnetic, IP chargeability geophysical anomalies. Soil sampling in May, 2010 identified numerous extensions of the copper-silver-zinc-molybdenum in soil geochemical anomalies. The southernmost geochemical soil anomalies contain elevated molybdenum. The Recce grid (north zone) is located 1 km east of the Elden grid. The Recce mineral zones occur in metamorphic terrain along a ridge crest and have a strike length in excess of one kilometer. The Recce grid (north zone) has elevated Zn-Cu-Ag located near the crest of a ridge. These grid locations will be mapped and sampled to investigate causes of anomalous Cu-Ag-Zn-Mo in soil samples.

Geochemical (soil and rock chip sampling) and geophysical (magnetometer grid) fieldwork carried out in spring 2010 focused on the Elden breccia/porphyry copper target located in the northwest portion of the claim group. Geochemical highlights (based on Pioneer Laboratories Inc, geochemical analysis certificate 2102609, and 2102647) of the Elden grid include:

1- >1,000 ppm Cu in soil in a 350 X 70 m area in the center of the grid (Breccia Zone)
2- Two 200 X 100 m areas (500-2,200 ppm Cu in soil), located 150 m NE and 150 m SW of the Breccia Zone.
3- Anomalous Ag and Au in soil geochemical values correlate with the Cu in soil anomalies, Mo is sharply anomalous in the Breccia Zone.
4- The following table lists highlights from a total of 29 rock chip samples taken in 2010:

Sample Number	Easting UTM	Northing UTM	Grid Easting	Grid Northing	Width (m)	Cu %	Ag gm/tonne	Au ppb
AR-7	333562	6055754	3562	5754	sub-crop	0.11	1.0	39
AR-54	333358	6055700	3358	5700	0.38	0.39	16.1	1
AR-55	333370	6055710	3370	5710	0.60	0.19	6.3	1
AR-57	333436	6055708	3436	5708	sub-crop	0.12	6.0	16
AR-58	333490	6055847	3490	5847	sub-crop	0.10	4.0	2
AR-64	333718	6055780	3718	5780	sub-crop	0.14	2.5	3
AR-65	333735	6055730	3735	5730	sub-crop	0.14	1.6	9

Note- AR- 7 taken March, 2010, all other samples May, 2010
Rock chip sample geochemical analysis results indicate significant copper (silver, gold) occurs in the Breccia Zone (and west extension, i.e. samples AR-54, 55).

Geophysical surveys on the Elden grid were performed with a GEM GSM 19T proton magnetometer over a 1700 X 600 meter area. Most of the high readings (>58,000 nT), are related to underlying ultramafic rocks (magnetite enriched) that occur adjacent to the creek gully in the east portion of the grid. Peridotite, gabbro and ultramafic rocks high in magnetite respond as >1,000 nT positive anomalies. The Breccia Zone responds as a total field low as outlined by the magnetometer survey. The total field low near the Breccia Zone is presumed to be caused by extensive hydrothermal alteration. There is 1,000 to 3,000 nT strength positive total field magnetic anomalies that occur in the southeast portion of the grid. Some of these magnetic anomalies correlate with Cu-Ag-Zn-Mo in soil anomalies and will be the focus of follow-up rock sampling and geological mapping.

2.0 INTRODUCTION

Geophysical and geochemical fieldwork was carried out on mineral tenure ID # 602859, 602877, 691823, & 606221 (Omineca Mining Division) between May 25- June, 1, 2010 by Andris Kikauka, Xio Apted and Ryan Kikauka for Torch River Resources Ltd. Fieldwork included geochemical analysis (192 soil, 20 rock samples, 30 ICP & Au geochemistry, see Fig 4A-E, 5A-E, 8 for soil results, and see Fig 6 & 7 for rock chip results), as well as total field magnetometer (GEM model GSM-19T) with readings taken at 12.5 m spacing, along a total of 9.6 km of east-west oriented grid lines surveyed on 2 separate mineral zones (Elden grid=8.85 km, Recce grid =0.75 km, 760 readings total, see Appendix C, Fig 9 & 10)

The purpose of the program was to evaluate the nature, extent and exploration potential of the Fort-Elden Project, with a focus on the Cu-Ag-Au-Mo bearing hydrothermal breccia known as the Elden (Fort) showing and the surrounding area. The Elden breccia is partly exposed along a recently constructed logging road. The mineralized breccia consists of angular to subrounded, multilithic, variably sized clasts of biotite schist, peridotite and felsic intrusive with a biotite-chlorite-quartz-calcite matrix and blebs and stringers of chalcopyrite and pyrite with trace galena, sphalerite and molybdenite. The mineralized breccia is situated near the structural junction of a regional NNW trending tectono-stratigraphic terrane suture and a major, younger, NE trending normal or dip-slip fault. The breccia is proximal to a series of small, potassically altered, commonly magnetite bearing, dioritic to monzonitic (latitic) dykes and is thought to represent high-level hydrothermal explosive activity related to the emplacement of a porphyry Cu-Ag Au-Mo system. The Fort Project lies about 50 km southeast of the Bell and Granisle porphyry deposits on the south side of the Skeena Arch, along what appears to be a continuation of similar lithologies, structures, and mineralization of the Babine Lake porphyry belt or may be an eastward extension of the newly defined Skeena porphyry belt (MacIntyre et al, 1998).

3.0 LOCATION, ACCESS AND PHYSIOGRAPHY

The Fort Property lies approximately 100 kilometers west-northwest of Fort St. James, B.C., in the Omineca Mining Division, NTS 93K/11,12, latitude 54"38'N, longitude 125"35'W. The property is accessed by the all weather Cunningham Lake Forest Service access road, locally labeled the 900 road. This road is accessed immediately south of Fort St. James via Sowchea Road, off Highway 27. At approximately the 102 kilometer mark on the 900 road, the 300 road branches to the west. At a point approximately 1.6 km along the 300 road, a spur road leads west to the showings area (Fig 1).

Elevations on the property range from 800 to 1380 meters (2625-4525 ft.), defining long northwesterly trending ridges and valleys. The property lies along the eastern side of a regional drainage divide with drainages to the west flowing to Babine Lake and drainages on the property mainly draining to Cunningham Lake to the east or Trembleur Lake to the northeast. Glaciation is believed to have been southeast directed, following the regional topographic trend, but striae at the Elden showings indicate locally east directed glaciation. Moderate outcrop exposures occur along ridges and in road cuts, but elsewhere, extensive .glacial till cover allows little bedrock exposure. The property is generally heavily covered by pine forests, with enclaves of balsam fir. The bush is generally thick and extensive areas of heavy devils club occur. Moose are the dominant mammal in the area, along with black bears. Logging provides the only economic land use in the area, at present. Road access to the area was only established in the late 1980's to provide access for logging.

4.0 LAND STATUS AND OWNERSHIP

The Specularite, Specularite 2-5, Owl 1-6, and Recce 1 were acquired by Andris Kikauka (FMC 114051) in April-December, 2009. In accordance with a 2010 Property Option Agreement, Torch River Resources Ltd. has acquired 100% interest in the 12 mineral tenures by completing the following:

1) carrying out a schedule of $250,000 of eligible mineral expenditures on the claims.

2) $10,000 cash payment for cost of fieldwork/fees on mineral tenures 691583, 606216, 606224, 606221, 602851.

3) 2,000,000 shares of Torch River Resources Ltd. payment subject to regulatory approval and a share payment schedule

All 12 mineral tenures are registered to FMC 114051. The Fort-Elden Project claim area totals 1,611.4513 hectares (3,980.3 acres).

Claim Name	Tenure No	Owner	Tenure Type	Issue Date	Good To Date	Area (hectares)
Specularite	602859	114051	Mineral	2009/apr/18	2013/apr/18	280.89
Specularite 2	602877	114051	Mineral	2009/apr/18	2013/apr/18	168.59
Specularite 3	602866	114051	Mineral	2009/apr/18	2013/apr/18	37.46
Owl 1	606216	114051	Mineral	2009/jun/17	2013/jun/17	18.73
Recce 1	606221	114051	Mineral	2009/jun/17	2013/jun/17	112.41
Owl 2	606223	114051	Mineral	2009/jun/17	2013/jun/17	18.73
Owl 3	606224	114051	Mineral	2009/jun/17	2013/jun/17	18.73
Owl 4	691583	114051	Mineral	2009/dec/31	2013/dec/31	56.19
Owl 5	691584	114051	Mineral	2009/dec/31	2013/dec/31	374.78
Owl 6	691603	114051	Mineral	2009/dec/31	2013/dec/31	375.09
Specularite 4	691604	114051	Mineral	2009/dec/31	2013/dec/31	37.47
Specularite 5	691823	114051	Mineral	2009/dec/31	2013/dec/31	112.39

5.0 EXPLORATION HISTORY

Prior to the discovery of mineralization during the construction of the Specularite Lake spur road, no recorded exploration has been known. While constructing logging access road, Elden Nyberg noted a long zone of gossan development with one 200 meter zone of outcrop carrying significant copper mineralization. Mr. Nyberg consulted Richard Haslinger, who immediately began staking the showings on behalf of him and Mr. Nyberg, in late October, 1997. Mr. Haslinger proceeded to undertake preliminary exploration in the form of soil sampling and rock sampling, the results of which indicated an area of elevated mineral values of copper, silver, gold with lesser molybdenum, silver and lead-zinc over an area of approximately 400 by 700 meters. Within the expanded property boundaries, previous exploration was concentrated on the east and west sides of Butterfield Lake and an area a few kilometers to the northeast of Butterfield Lake. These areas are a minimum of some five kilometers to the southeast of the Elden showings.

In 1970-71 Royal Canadian Ventures Ltd. followed up a 1969 release of a government airborne magnetic survey and carried out extensive grid based magnetic, VLF-EM and soil geochemical surveys from the west side of Butterfield Lake to the height of land to the west. This work outlined several widespread copper anomalies and some associated EM anomalies predominantly lying along and to the west of the large mafic intrusion that occupies the lake valley and continues northwesterly to the Elden grid. Vollo (1971) describes the geology as a package of meta-volcanic rocks intruded by gabbroic dykes, with a monzonite intrusion outcropping at the west end of the grid at the ridge top. Prospecting and mapping by RCV failed to locate any significant mineralization. Spence (1983) reports that RCV drilled two holes in 1971, intercepting disseminated chalcopyrite in pyroxene porphyry and coarse gabbroic pyroxenite.

In 1982, Riocanex Inc. staked claims eastward from the old RCV property, covering Butterfield Lake to the ridge top east of Butterfield Lake. This work followed up on regional geochemical sampling programs, including lake bottom sampling. Rio outlined a series of anomalous copper areas on the east side of Butterfield Lake and noted minor chalcopyrite mineralization with calcite to the east of their grid. Outcrop in the grid area was stated as very limited. Spence (1983) attributed the broad distribution of anomalous copper values outlined in the RCV and Rio programs to be largely the result of high background copper associated with the peridotite intrusion lying along the Butterfield Lake valley. The anomaly to the east of this body is speculated to have possibly sourced to the east, though limited follow-up prospecting by
Rio did not locate any source.

In 1987, geologist Eric Shaede staked claims on the west side of Butterfield Lake to cover geochemical anomalies outlined in an overlap area of the RCV and Rio grids. Shaede undertook a small sampling program and outlined a long linear Cu, Ag, Pb, Zn, As anomaly that he believed coincided with an EM conductor outlined by RCV. No outcrop confirmation of the anomaly was found and limited outcrop in the area displayed only minor chalcopyrite mineralization in rocks displaying weak alteration character. No further work on this target is reported.

In 1990-91, following the first incursion of logging roads into the area, the geologist/prospector team of W. and A.A.D. Halleran of Fort St. James staked the Owl claims along the 900 road at the 97 km point. The discovery of Cu-Zn-Ag bearing massive sulphide boulders in the glacial till prompted the staking. The Halleran's undertook geologic mapping, prospecting, rock sampling, minor trenching and a ground magnetic survey. The rocks underlying the property were found to be andesitic to rhyolitic volcanics and mineralization was noted as narrow to isolated zones of chalcopyrite with accessory silver and gold, associated with quartz-calcite alteration. In 1992, Cominco Ltd. optioned the Owl property and added new claims. A reconnaissance scale grid was established with 500 m spaced lines and soil geochemistry and magnetic and IP surveys were completed. Cominco noted the same style of copper-silver-gold occurrences but was unable to find any continuity with them. Weak to moderate chargeability anomalies were located with the IP survey but were attributed to being sourced by magnetite, or possibly pyrrhotite. The survey covered an area from the southern end of Butterfield Lake, northward to north of the 97 km showing on the 900 road, past the small lake referred to in this report as Owl Lake. The soil sampling confirmed the presence of the Riocanex Cu soil anomaly east of Butterfield Lake, but IP surveying and mapping failed to discover an upslope source. Weak copper mineralization in the vicinity of a monzonite stock east of Butterfield Lake was discovered.

Mincord Exploration Consultants Ltd. spent six weeks during the months of May and June 1998, conducting extensive line cutting, detailed and reconnaissance level geologic mapping, rock and soil sampling and Scott Geophysics Ltd. completed 27.3 line kilometers of IP and ground magnetometer surveys on the Fort Property for Ascot Resources Ltd. and Eastfield Resources Ltd (Garratt, 1998, A.R. 25.760). An additional week in July was spent following up reconnaissance lithochemical anomalies. The results of this program indicate the potential for a large porphyry-style hydrothermal system to exist on the Fort Property. Defining this target are two, plus 12.5 mV, chargeability anomalies flanking either side of a resistivity high that show coincident copper/silver/molybdenum soil geochemical anomalies. The anomalies measure approximately 300 m by 900m and 300 m by 600 m (open), respectively, and the Elden breccia occupies a portion of one of the anomalies. The 1998 Fort program was successful in defining the nature and extent of the newly discovered Elden hydrothermal breccia and in delineating a large area, with a coherent chargeability high, and anomalous copper concentrations in soil and felsic dyking. Detailed channel and panel sampling of road cut exposures through the north end of the Eldon breccia indicate continuous (0.1%) copper mineralization over a 44 meter zone. The Eldon hydrothermal breccia is probably related to a porphyry Cu-Ag-Au-Mo type igneous system which may underlie the grid area and is reflected by the diorite to monzonite/latite dykes found throughout the grid. Within the broad 10 mV chargeability anomaly, the two stronger anomalous chargeability zones appear to flank a resistivity high that is largely coincident with a magnetic high. The location of the hydrothermal breccia in the northwestern anomaly, combined with the geometry of the geophysical patterns, might suggest that an intrusive related porphyry system underlies the grid area, centered about the resistivity high. The prolific felsic dykes observed at surface may be reflecting larger intrusive bodies at depth, as is possibly indicated by the magnetic patterns.

In 1998, Mincord recommended that additional exploration be conducted on the property, commencing with the construction of a drill road into the interior of the grid area to expose and provide access to the central portions of the Eldon breccia, the eastern flank geochemical anomalies and the heart of the chargeability anomalies. Additional channel sampling of new exposures should help in delineating drill sites and depending on results, a minimum of 2 to 3 holes should be drilled to test the Eldon breccia at depth and possible porphyry-style sulfide mineralization associated with the chargeability high and soil geochemical anomalies. An additional 2 to 3 holes should be completed on the southeastern IP/soil geochemical anomaly, with at least one hole directed toward the central resistivity high (Garratt, 1998)

In March, 2010 Torch River Resources Ltd carried out soil & rock chip geochemistry and magnetometer geophysics on the Elden, Recce and Owl grids
Magnetometer and soil grid data is summarized as follows:
1) Elden grid=1.8 km, 41 soil.
2) Owl grid=0.75 km, 17 soil.
3) Recce grid =0.4 km, 12 soil.
4) Magnetometer data obtained for all 3 grids= 236 readings total at 12.5 m spacing

A NNW trending ridge axis located about 500 m east of the Br 300 logging road contains good exposures of metasediment, recrystallized cataclastic rock and gneiss.. In 1998, a total of four rock samples were collected in this area (P-FT98R16,17,18,& 19). All contained anomalous copper, including P-FT98-RI7 which returned 687 ppm copper and 32 ppm molybdenum (Garratt, 1998). These rocks included siliceous recrystallized cataclastic rock mineralized with blebs of pyrrhotite, pyrite and chalcopyrite. In 1998, a soil grid (5 lines x 7 samples @ 50m spacing) was put over this area, centered on sample P-PT98-R17. The soils identify a copper-molybdenum anomaly roughly following the ridge crest, with values up to 371 ppm copper.

Additional fieldwork carried out on the Recce grid (located 2.75 km SE of Elden grid) outlined very little anomalous response in geochemical data except for a single sample located on the ridge top (L 3900 N, 5700 E) which has anomalous Cu-Ag-Mo in soil. Rocks seen in the area of this anomalous soil sample are mostly gneiss (metamorphosed and altered sediments and volcanic rocks) which have been intruded by granodiorite that is exposed at the eastern edge of the grid. A rock chip sample (REC-10-AR-1) had limonite and clay altered minerals present and returned low base and precious metal values (Fig 14). The magnetometer data from the Recce grid indicates strong 1,000-3,000 nT increases located in the SE portion of the grid area and appear to closely flank to the west of the location of the Cu-Ag-Mo in soil geochemical anomaly on the ridge top, L 3900 N, 5700 E (Fig 18). The magnetic reading of 60,860.43 nT (L 3800 N, 5737.5 E) is a sharp positive anomaly located on a change in slope. The presence of increased magnetite (and/or pyrrhotite) is the likely cause of anomalous positive magnetometer readings. It is probable that magnetite (plus or minus pyrrhotite) occurs as secondary infillings and is of a hydrothermal origin. Rocks underlying positive magnetometer anomalies have an increased possibility for Cu-Ag-Au-Mo bearing sulphide minerals to occur. Magnetometer anomalies warrant follow-up mapping and prospecting.

March, 2010 fieldwork on the Elden grid area is centered over the north end of a prominent NW to NNW trending ridge, which is dominated by a 400-800 m by 25 km surface area mapped as Late Triassic Butterfield Lake Intrusive Complex ultramafic rocks. Outcrop exposures in the area are moderate to poor, but subcrop can often be found in areas of greater relief below 0.2 - 0.6 m of moss and till. The till is variably distributed around the ridge and varies from 25.0 m on flats and gentle slopes to nonexistent on cliff faces.

Ultramafic rocks identified in March, 2010 fieldwork consists of medium to coarsely crystalline, dark greenish-gray to medium grayish-green pyroxenite and peridotite with gabbro. The ultramafic is pervasively, but variably altered to chlorite-calcite-serpentine-magnetite and the intensity of alteration increases adjacent to dykes, structures and mineralization. The pyroxenite-peridotite contains abundant xenoliths of chlorite schist and greeenstone, especially near the contacts. The eastern contact is not exposed in the deep till area above the Br 300 logging road, but the ground magnetic survey indicates a strong gradient contrast which may define the contact.

A total of 41 soil samples were taken from the Elden grid. Soil sample results indicate an area in the central and southwest portion of the grid contain anomalous copper (6 out of 41 have > 1,000 ppm Cu in soil), anomalous silver (4 out of 41 have > 4 ppm Ag in soil), anomalous gold (3 out of 41 have > 46 ppb Au in soil), anomalous molybdenum (3 out of 41 have > 60 ppm Mo in soil), anomalous lead (3 out of 41 have > 400 ppm Pb in soil), and anomalous zinc (2 out of 41 have > 400 ppm Zn in soil). Copper-silver and to a lesser extent gold geochemical values in soil correlate well. The molybdenum values in soil are highest in the west portion of the grid which is underlain by intrusive rock. And the lead-zinc values in soil are highest in the center of the grid which roughly correlates with the central Cu-Ag anomaly.

A total of 9 rock chip samples were taken on the Elden grid in March, 2010. Results of this rock chip sampling are listed as follows:

sample no	width	easting	northing	elevation	alteration	minerals
ELD10AR-1	angular sub-crop	333761	6056027	940 m	cal, qtz, ser	py, cpy, sph
ELD10AR-2	angular snb-crop	333782	6056021	938 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-3	angular sub-crop	333902	6056022	943 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-4	angular sub-crop	333673	6055915	942 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-5	angular sub-crop	333609	6055900	932 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-6	angular sub-crop	333606	6055691	1019 m	cal, qtz, ser, ank	lim, py,
ELD10AR-7	angular sub-crop	333562	6055754	974 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-8	angular sub-crop	333416	6055628	981 m	cal, qtz, ser, ank	lim, py, mag
ELD10AR-9	angular sub-crop	333763	6055598	1043 m	cal, qtz, ser, ank	lim, py, mag

sample no	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	Mo ppm	Mn ppm	Fe %
ELD10AR-1	10	5	36	0.24	15	125	664	1.26
ELD10AR-2	288	23	72	0.35	5	36	1721	4.13
ELD10AR-3	22	44	103	0.48	7	4	1026	3
ELD10AR-4	360	13	34	0.24	2	4	360	6.86
ELD10AR-5	40	59	61	0.36	13	1	40	2.39
ELD10AR-6	58	25	91	0.96	3	9	58	1.35
ELD10AR-7	1067	39	194	0.96	39	26	1067	7.93
ELD10AR-8	132	17	136	0.24	14	3	132	5.47
ELD10AR-9	180	10	74	0.36	6	1	180	5.25

The area where sample ELD-10-AR-7 was taken (5800 N, 3600 E), coincides with high Cu-Ag-Mo-Zn values in soil. The area where sample ELD-10-AR-2 was taken (6000 N, 3800 E), coincides with high Cu-Ag-Au-Mo values in soil. The area where sample ELD-10-AR-4 was taken (5900 N, 3700 E), does not coincide with high values in soil, but anomalous Cu-Ag-Au-Mo values occur in soils adjacent to this location.

Torch River Resources Ltd, March, 2010 magnetometer survey indicates a magnetic high underlies the central portion of the Elden grid, flanked by 3 poorly defined magnetic low zones in the NE, SW, and SE portions of the grid. The magnetic lows suggest the presence of NNW trending fault zones. The central magnetic high, and other satellite positive anomalies (in the order of 500-2,500 nT local increase), are believed to be due to mafic/ultramafic intrusions or dyke equivalents (which contain disseminated magnetite), but may also be reflecting magnetite bearing latite to monzonitic or diorite intrusions that are expressed at surface as dykes.

6.0 GENERAL GEOLOGY

The regional geological setting is of a complex terrane boundary area. The Stikine Terrane, comprised of Lower Permian Asitka Group rocks which grade into the Upper Triassic Takla Group volcanics is found on the west side of the claim area, and the Permo-Triassic Sitlika Assemblage is found on the east. The Stikine Assemblage is comprised of a matic volcanic unit, which is flanked (and underlain?) by a western elastic unit in fault contact with the Stikine Terrane to the west and by an eastern elastic unit which rests stratigraphically above the volcanic unit and is in fault contact with the Cache Creek Group to the east. These rocks record a Permo-Triassic bimodal island arc volcanic episode and subsequent elastic sedimentation adjacent to the Cache Creek Terrane. Sitlika rocks are similar to, both in age and geochemistry, and may be coextensive with Kutcho Formation rocks to the north. For further details and references refer to:

Schiarizza, Paul (1998): The Sitlika Assemblage in the Talka Lake Area: Stratigraphy, External Structural relationships and Regional Correlation, BC Geological Survey Branch, in New *Geological Constraints on Mesozoic to Tertiary Metallogenesis and on Mineral Exploration in Central British Columbia: Nechako NATMAP Project,* GAC Short course, March 27,1998.

A summary of lithologies mapped in Fort-Elden Project mineral tenures are as follows:

FORT-ELDEN LITHOLOGY LEGEND (SOURCE: BCGS)

EEva- Eocene-Oligocene Nechako Plateau Grp-Endako Fm
clastic sedimentary rocks

EGo- Eocene
Granodiorite

LTrJTpT- Late Triassic-Early Jurassic Topley Suite, Tochcha Lake Stock
diorite

UTrJSs- Late Triassic-Early Jurassic Sitlike Assemblage
clastic sedimentary rocks

LTrBum- Late Triassic Butterfield Lake Intrusive Complex
ultramafic rocks

LTrBgb- Late Triassic Butterfield Lake Intrusive Complex
gabbro, diorite

uTrTv- Late Triassic Takla Grp
volcanic rocks

PTrCSvb-Early Permian-Late Triassic Cache Creek Complex (Asitka Grp)
Basalt

DTrT Late Devonian to Late Triassic Taltapin metamorphic rocks
lower amphibolite-kyanite grade metamorphism

The Lower Permian Asitka Group to Upper Triassic Takla Group rocks of the Stikine Terrane host the main showing on the property and are covered in large part by the Elden grid west of the Br 300 logging road. These rocks, which are intensely and pervasively chlorite, biotite, epidote altered pyroxenite and gabbro, disappear under a cover of glacial till to the north and west near Specularite Lake. South of the Elden grid,the character of the rocks becomes slightly more felsic with gabbro dominating over pyroxenite. This large mafic-ultramatic body may be coeval with, and a magma source for the Takla volcanics found farther to the west. Regional greenschist facies metamorphism is apparent in these rocks.

The Permo-Triassic Sitlika Assemblage forms the eastern part of the claim group, of which the Sitlika volcanic unit makes up most of the area roughly east of the Br 900 logging road. The volcanic unit in this area is largely composed of matic crystal lithic tuff which is pervasively chlorite/sericite/epidote altered. Felsic volcanics comprise most of the lithic fragments in the mafic tuff. Regional metamorphism of the Sitlika volcanic unit is green schist and it has been imprinted with a penetrative foliation of between 330' and 340" The Sitlika Assemblage can be traced for about 5 km north of the Elden Grid where it disappears beneath a cover of Miocene Endako Basalt. A thick wedge of metamorphic rocks is found between the Asitka/Takla rocks west of the Br 300 road and the Sitlika Assemblage rocks east of the' BR 900 road. Out crop in this area is poor, except along the top of a north-south ridge immedhately east of the Br 300 road, and along the Br 900 road. The Stikine Terrane boundary lies in this area as is evidenced by the mylonite, gneiss and cataclastic rocks found; however, the actual contact between the Asitka Group rocks and the Western Clastic Unit of the Sitlika Group is, tenetative at best. Metamorphic grade in this area appears to be higher than the green schist metamorphic grade off to the east and west. Mylonite, gneiss and associated potassic feldspar flooding are pervasive and intense in the Br 900 road area, suggesting that the contact lies closer to it than to the Br 300 road. Late feldspar-porphyry intrusions, dykes and sills, found through out the area, may be part of the Eocene Babine Intrusive suite. They are in general, fresh-looking, non-foliated and of latite/monzonite composition. Contact metamorphic effects are noted around some of the intrusions, such as biotite homfelsing of the Sitlika mafic tuffs. Garnet-epidote alteration of thin metasediment (limy?) lenses is also common, especially in the vicinity of the'mylonite-gneiss area along the Br 900 road and near feldspar-porphyry dykes northeast of the Br 200 road. Although, large-scale structural features, such as the Stikine terrane boundary are inferred, their actual location remains speculative. A late, northeasterly, fault is believed to truncate the north end of the main pyroxenite body, although the sense of movement of this fault remains unknown.

7.0 2010 FIELDWORK

7.1 METHODS AND PROCEDURES

Geophysical and geochemical fieldwork was carried out on mineral tenure ID # 602859, 602877, 691823, & 606221 (Omineca Mining Division) between May 25- June, 1, 2010 by Andris Kikauka, Xio Apted and Ryan Kikauka for Torch River Resources Ltd. Fieldwork included geochemical analysis (192 soil samples, 20 rock chip samples, shipped to Pioneer Labs, Richmond, BC for 30 ICP & Au geochemistry, see Fig 4A-E, 5A-E, 8 for soil results, and see Fig 6 & 7 for rock chip results), as well as total field magnetometer (GEM model GSM-19T) with readings taken at 12.5 m spacing, along a total of 9.6 km of east-west oriented grid lines surveyed on 2 separate mineral zones (Elden grid=8.85 km, Recce grid =0.75 km, 760 readings total, see Appendix C, Fig 9 & 10). Total field magnetometer readings (using GEM model GSM-19T), were taken along 9.6 km (total) of east-west oriented grid lines (Fig 3A, & 6). The grid area was surveyed using a Garmin GPSMAP 60Cx, and marked with flagging at soil sample stations.

Soil sample geochemical highlights (Elden Grid, May, 2010)

soil sample line northing	soil sample stn. easting	ppm Cu	ppm Ag	ppm Zn	ppm Mo
4500 N	4750 E	109	0.6	325	30
4500 N	4800 E	230	0.6	87	20
4600 N	4450 E	84	1.2	146	60
4600 N	4600 E	222	0.7	307	7
4700 N	4400 E	35	2.7	404	4
4800 N	4400 E	27	3.1	406	3
4800 N	4450 E	147	2.1	459	10
4900 N	4300 E	536	2.0	763	3
4900 N	4350 E	118	2.7	165	1
*4900 N	5300 E	35	1.1	911	2
*5100 N	5400 E	464	0.7	1372	4
5200 N	3700 E	417	1.3	123	4
5300 N	3350 E	397	0.6	103	4
5400 N	3550 E	576	1.2	75	6
5500 N	3400 E	427	1.7	139	2
5500 N	3450 E	782	1.8	179	3
5500 N	3650 E	239	0.5	78	3
5800 N	3400 E	432	0.7	194	4
6100 N	3650 E	335	0.5	117	4
6100 N	3700 E	419	0.8	123	6
6200 N	3650 E	235	0.4	108	7
6300 N	3500 E	356	0.1	54	10

*Recce grid soil samples (Recce grid located 1 km ESE of Elden grid)
Source: Pioneer Laboratories Inc, geochemical analysis certificate 2102647 (June, 2010)

A total of 192 soils were collected in areas of magnetic, IP chargeability geophysical anomalies. Soil sampling in May, 2010 identified numerous extensions of the copper-silver-zinc-molybdenum in soil geochemical anomalies. The southernmost geochemical soil anomalies contain elevated molybdenum. The Recce grid (north zone) is located 1 km east of the Elden grid. The Recce mineral zones occur in metamorphic terrain along a ridge crest and have a strike length in excess of one kilometer. The Recce grid (north zone) has elevated Zn-Cu-Ag located near the crest of a ridge. These grid locations will be mapped and sampled to investigate causes of anomalous Cu-Ag-Zn-Mo in soil samples.

Geophysical surveys on the Elden grid were performed with a GEM GSM 19T proton magnetometer over a 1700 X 600 meter area. Most of the high readings (>58,000 nT), are related to underlying ultramafic rocks (magnetite enriched) that occur adjacent to the creek gully in the east portion of the grid (Fig 9). Peridotite, gabbro and ultramafic rocks high in magnetite respond as >1,000 nT positive anomalies. The Breccia Zone responds as a total field low as outlined by the magnetometer survey. The total field low near the Breccia Zone is presumed to be caused by extensive hydrothermal alteration. There is 1,000 to 3,000 nT strength positive total field magnetic anomalies that occur in the southeast portion of the grid. Some of these magnetic anomalies correlate with Cu-Ag-Zn-Mo in soil anomalies and will be the focus of follow-up rock sampling and geological mapping. A strong positive magnetometer anomaly (>60,000 nT), is located at UTM NAD 83 co-ordinates 6055100 N and 334,975 E (grid L 5100 N, 4975 E). This magnetometer high is coincident with a relatively well defined 330 azimuth trending fault gully (possible fault structure?) and a minor topographic high point (knob caused by silicification?), located approximately 100 m east of the magnetometer anomaly (Fig 9). The magnetometer >60,000 nT anomaly is open to the east. The isolated magnetometer >60,000 nT anomaly is coincident with anomalous Cu (169 ppm) in soil (Fig 5A).

8.0 DISCUSSION OF RESULTS

Torch River Resources Ltd, March, 2010 fieldwork examined the area east of Br 300 (Elden Grid), a ridge of chlorite schist (altered andesite tuff?) which has been intruded by granodiorite is exposed at the eastern edge of the ridge at 6,055,100 N , 333,800 E (elev 1,160 m). The western contact is transitional from pyroxenite-peridotite into chlorite-biotite schist (Asitka Group) with abundant diorite to latite/monzonite dykes defining a probable structural intrusive contact. The Elden hydothennal breccia is situated at the western edge of the contact where it has cut into a thick section of thinly foliated, chlorite-biotite-quartz schists and ultramafics. The breccia zone is roughly circular with approximate dimensions of 350 x 400 meters. The contact margins are irregular and poorly exposed with quartz-calcite-sulfide veining extending beyond the main breccia body and cutting the ultramafics and chlorite-biotite schist. Portions of the breccia exposed in the road cut appear to have filled pre-existing 340 trending structures, possibly related to the ultramafic contact. Most of the breccia consists of a chaotic mix of clast to matrix supported, angular to subrounded, pebble to boulder sized, clasts of schist and subordinate peridotite with a chlorite-biotite-quartz-calcite-sulfide matrix. Some, clasts appear to be foliated diorite to monzonite, but the breccia does not appear to cut the non-foliated, diorite to latite/monzonite dykes which form much of the eastern margin of the breccia. The dykes are typically tine to medium crystalline, equigranular to moderately porphyritic with K-spar and biotite phenocrysts and 1-2% disseminated magnetite. The dykes rarely show silicification or veining, but usually have undergone some degree of pervasive potassic alteration. Petrographically, many of the dykes exhibit subvolcanic textures and have been classified as latites and are very similar to Eocene dykes found in the Babine intrusive suite.

The western chlorite-biotite schist is best exposed along the west portion of the grid where it typically displays steeply easterly dipping foliation. The schist is usually magnetite bearing and commonly contains foliation parallel, sugary quartz-calcite veinlets. The schist is covered by glacial till to the west. Two main structural fabrics are evident within the grid area. The dominant fabric is 330-350/55-85 E and reflects the orientation of the regional structural sutures and is reflected in the foliation of the schists and northerly trending draws on the north end of the ridge. Outcrops within the drainages are often sheared and veined with local sphalerite, galena, chalcopyrite and the eastem contact of the Eldon breccia follows a parallel drainage. The second structural orientation is northeast and follows the trace of tbe Eldon breccia discovery road. Outcrop within the breccia zone exhibits late, 040/70NW trending slickensides which last movement indicates a normal displacement and are probably the result of Tertiary extensional tectonics.

Torch River Resources Ltd, March 2010 fieldwork identified mineralization within the Elden breccia occurring in silicified structures within the ultramafics and in 335-355 trending, steep-moderate east dipping quartz-calcite-sulfide shears. The Elden hydrothermal breccia hosts pervasive, low grade chalcopyrite-pyrite mineralization. The chalcopyrite occurs as blebs (1.0 mm - 1.0 cm) and as discontinuous stringers within the matrix and clasts. The Elden breccia zone occupies the northwest portion of the Elden 300 X 900 m and 300 X 600 m IP chargability anomalies. IP chargability and resistivity anomalies correlate roughly with magnetometer (total field) anomalies, and positive anomalies are more numerous for the magnetometer survey (i.e. there are at least 8 positive anomalies defined by magnetometer survey, versus IP which shows one main resistivity high and 5 very poorly defined weak resistivity positive and negative anomalies on the fringe of the main one, but this may be a function of filtering of data on the IP chargeability and resistivity data combined with increased resolution of magnetometer reading gradients).

Data from Torch River Resoucres Ltd 2010 soil and magnetometer surveys suggests that NNW and NW trending, steeply dipping to the east zones of Cu-Ag bearing sulphide mineralization are likely to occur where significant Cu-Ag soil anomalies occur in the west-central (UTM easting 333,200E to 333,700E) and south-east (UTM easting 333,900E to 334,750E) portions of the Elden grida area (Fig 4A-E, 5A-E). The Elden grid west-central Cu-Ag soil anomaly covers the Elden Breccia Zone and roughly N-S trending and NE trending as it approaches the swampy flats north of UTM 6056000 N (at 1020 m elevation (Fig 4A, 4C). The flat area north of UTM 6056000 N is swampy. L 6100 N, 6200 N and 6300 N covered this swampy area. A coincident mag high at UTM 6056100 N and 334450-334500E (grid co-ordinates 6100 N, stn 4450 E to 4500 E), and Cu-Ag-Au geochemical anomaly in soil is an important exploration target (recommended only in dry season). The Elden grid south-east Cu-Ag in soil anomaly appears to be NW trending and has a possible lower (1000-1050 m elev) and upper (1050-1100 m elev) zones, based on distribution of anomalous soil samples (Fig 5A, 5C).

The Elden breccia zone contains chalcopyrite, often found at the edges of euhedral pyrite crystals and locally has been found to contain minor inclusions of sphalerite. The felty biotite-chlorite matrix often contains large (1.0 - 3.0 cm), euhedral quartz crystals which indicate elevated temperatures and confining pressures typical of a porphyry-type hydrothermal system. Late stage coarse-grained calcite veining also contains chalcopyrite and minor molybdenite, sphalerite and galena. Magnetite is found disseminated throughout the breccia, often replacing early pyrite and indicating that it may be a late hydrothermal alteration product, Magnetite is common within the schists and ultramatics throughout most of the grid area and may be defining the alteration halo of a large buried zone is defined by NNW trending Cu-Ag-Au-Mo soil anomaly and strong (1,000-3,000 nT) positive magnetometer anomalies that correlate with the central portion of the Elden grid Cu-Ag-Au-Mo soil anomaly.

Additional fieldwork carried out on Owl grid (located 5 km ESE of Elden grid) failed to outline anomalous Cu-Ag-Au-Mo geochemical and magnetometer responses. The main follow-up on target identified by Cominco Ltd in 1992, was an IP and soil geochemical survey line (known as the 'northeast anomaly'), and is located immediately north of Owl Lake (Neill, 1992, A.R. 22,610). The March, 2010 soil and magnetometer survey is centered 500 m north of Owl Lake. Further detailed soil and magnetometer surveying is recommended south of the March, 2010 grid to cover the bedrock located immediately north of Owl Lake.

Additional fieldwork carried out on Recce grid (located 1-2 km SE of Elden grid) outlined in March, 2010, a single sample located on the ridge top (L 3900 N, 5700 E) which has anomalous Cu-Ag-Mo in soil. The magnetometer data indicates strong 1,000-3,000 nT increases located in the SE portion of the grid area and appear to closely flank the location of the Cu-Ag-Mo in soil geochemical anomaly on the ridge top (L 3900 N, 5700 E). The grid extension in May, 2010 is located 1 km north of the Marc, 2010 grid (Fig 10). The north grid outlined a well defined NW rending 1,000-1,500 nT positive anomaly in the east portion of the grid. The positive magnetometer anomaly coincides with anomalous copper (117-464 ppm Cu), and zinc (1372 ppm Zn) at the north edge of the grid.

9.0 CONCLUSIONS AND RECOMMENDATIONS

The 2010 Fort program was successful in defining the nature and extent of the Elden hydrothermal breccia and in delineating magnetometer positive anomalies associated with magnetite bearing ultramafic rocks and/or magnetite/pyrrhotite bearing felsic dyking. The Eldon hydrothermal breccia is probably related to a porphyry Cu-Ag-Au-Mo type igneous system that may underlie portions of the grid area and is reflected by the diorite to monzonite/latite dyke/sill complex found throughout the grid. The results of fieldwork on the Elden grid support the existence of a large porphyry-style hydrothermal system on the Fort Property. Defining this target are two, plus 12.5 mV, chargeability anomalies flanking either side of a resistivity high that show coincident copper-silver-gold-molybdenum soil geochemical anomalies. Geophysical and geochemical anomalies measure approximately 300 m by 900m and 300 m by 600 m (open), respectively, and the Elden breccia occupies a portion of one of the anomalies (Garratt, 98, A.R. 25,760).

The location of the hydrothermal breccia in the northwestern anomaly, combined with the geometry of the geophysical patterns, suggests that the prolific felsic dyking observed at surface may be reflecting larger intrusive bodies at depth, as is possibly indicated by the magnetic patterns. It is recommended that additional exploration be conducted on the property, commencing with the construction of a road into the breccia zone in the area of 5600 N 3550 E, 5700 N 3750 E, 5800 N 3700 E, 5900 N 3600 E to 3650 E, and 6000 N 3800 E. This road would act as an access to drill sites and also expose bedrock for surface rock chip-channel sampling. Additional channel sampling of new exposures should help in delineating drill sites and depending on results, a minimum of 2 to 3 holes should be drilled to test the Eldon breccia at depth and possible porphyry-style sulfide mineralization associated with the 1998 chargeability high. An additional 2 to 3 holes should be completed on the southeastern IP/magnetometer/soil geochemical anomaly, with at least one hole directed toward the central resistivity high.

10.0 REFERENCES

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Vollo N.B., 1971, Geological, Geophysical and Geochemical Report on 93 K/12 BL Group for Royal Canadian Ventures Ltd, AR 2,319.

STATEMENT OF QUALIFICATIONS:

I, Andris Kikauka, of 4901 East Sooke Rd., Sooke B.C. V9Z 1B6 am a self employed professional geoscientist. I hereby certify that:

1. I am a graduate of Brock University, St. Catharines, Ont., with an Honours Bachelor of Science Degree in Geological Sciences, 1980.
2. I am a Fellow in good standing with the Geological Association of Canada.
3. I am registered in the Province of British Columbia as a Professional Geoscientist.
4. I have practiced my profession for twenty years in precious and base metal exploration in the Cordillera of Western Canada, U.S.A., Mexico, Central America, and South America, as well as for three years in uranium exploration in the Canadian Shield.
5. The information, opinions, and recommendations in this report are based on fieldwork carried out in my presence on the subject properties on May 25-June 1, 2010, during which time a technical evaluation consisting of systematic geophysical surveying and geochemical sampling was carried out by the writer as well as reports on mineralization and related physical properties.
6. I consent to the use of this report for Torch River Resources Ltd or any of its subsidiaries, to fulfill the requirements of Technical Report for the purpose of filing a Statement of Work with respect to Ministry of Energy and Mines, Mineral Titles assessment work requirements.
7. I have a direct interest in Torch River Resources Ltd (as a shareholder), and recommendations in this report are not intended to be used for public financing purposes.

Andris Kikauka, P. Geo.,

PROFESSIONAL
PROVINCE OF
A. A. KIKAUKA
BRITISH COLUMBIA
GEOSCIENTIST

January 5, 2011

ITEMIZED COST STATEMENT

Geophysical, geochemical costs from fieldwork carried out on mineral tenure ID number:
691823 (Specularite 5),
602877 (Specularite 2),
602859 (Specularite), &
606221 (Recce 1)
situated in the Omineca Mining Division, date of work between May 25-June 1, 2010:

FIELD CREW:

Andris Kikauka (geologist) 8 days	3,000.00
Xio Apted (geotechnician) 8 days	1,600.00
Ryan Kikauka (geotechnician) 8 days	1,600.00

FIELD COSTS:

Mob/demob	771.18
Geochemical analysis, 192 soil samples, 30 ICP & Au	480.00
Geochemical analysis, 20 rock samples, 30 ICP & Au	3,823.11
Equipment rental (GEM model GSM-19T)	385.00
Motel	393.00
Meals	372.00
Vehicle rentals	751.00
Report	700.00
Total costs=	$ 13,875.29

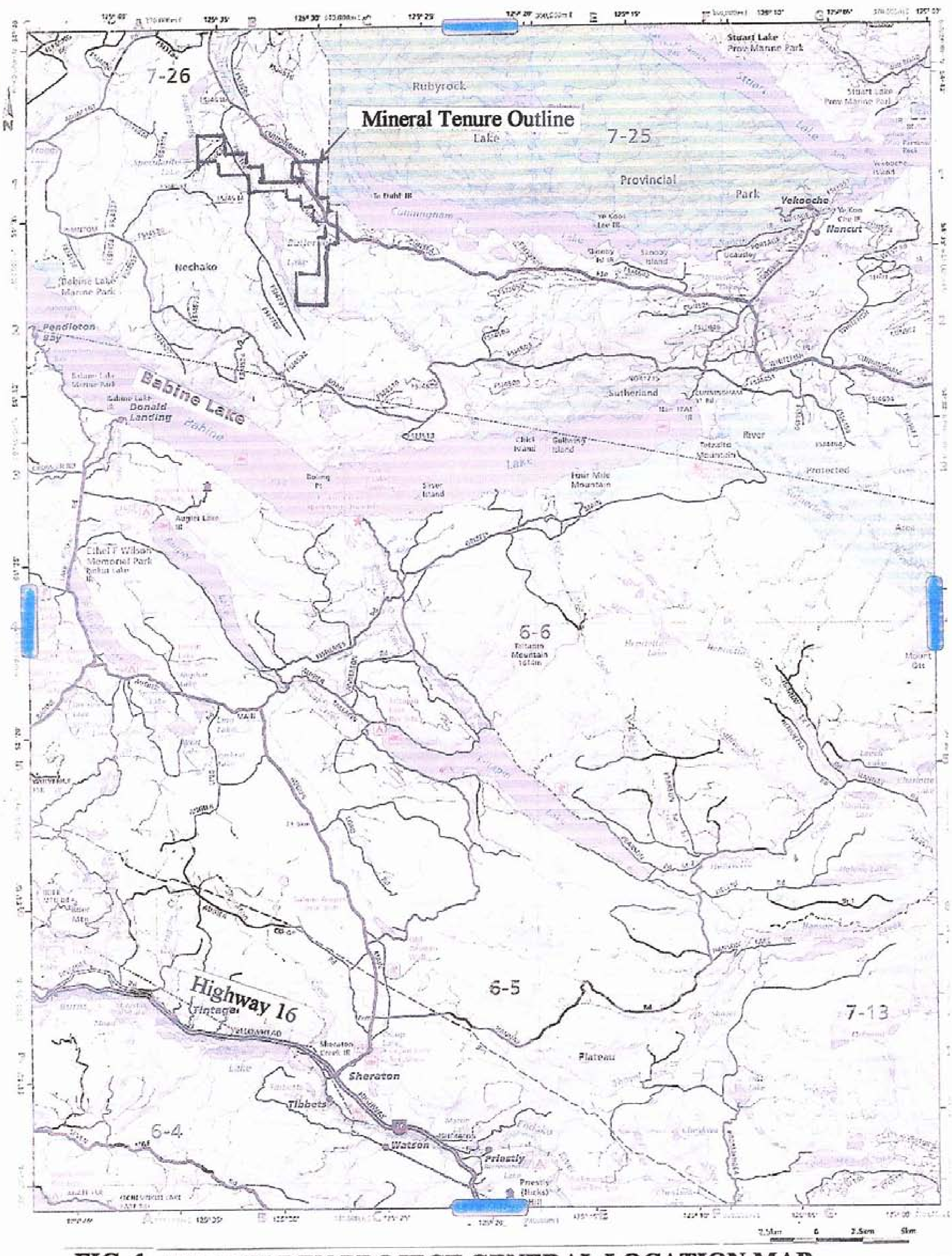

FIG. 1 FORT-ELDEN PROJECT GENERAL LOCATION MAP

1 cm equivalent to 2.5 km

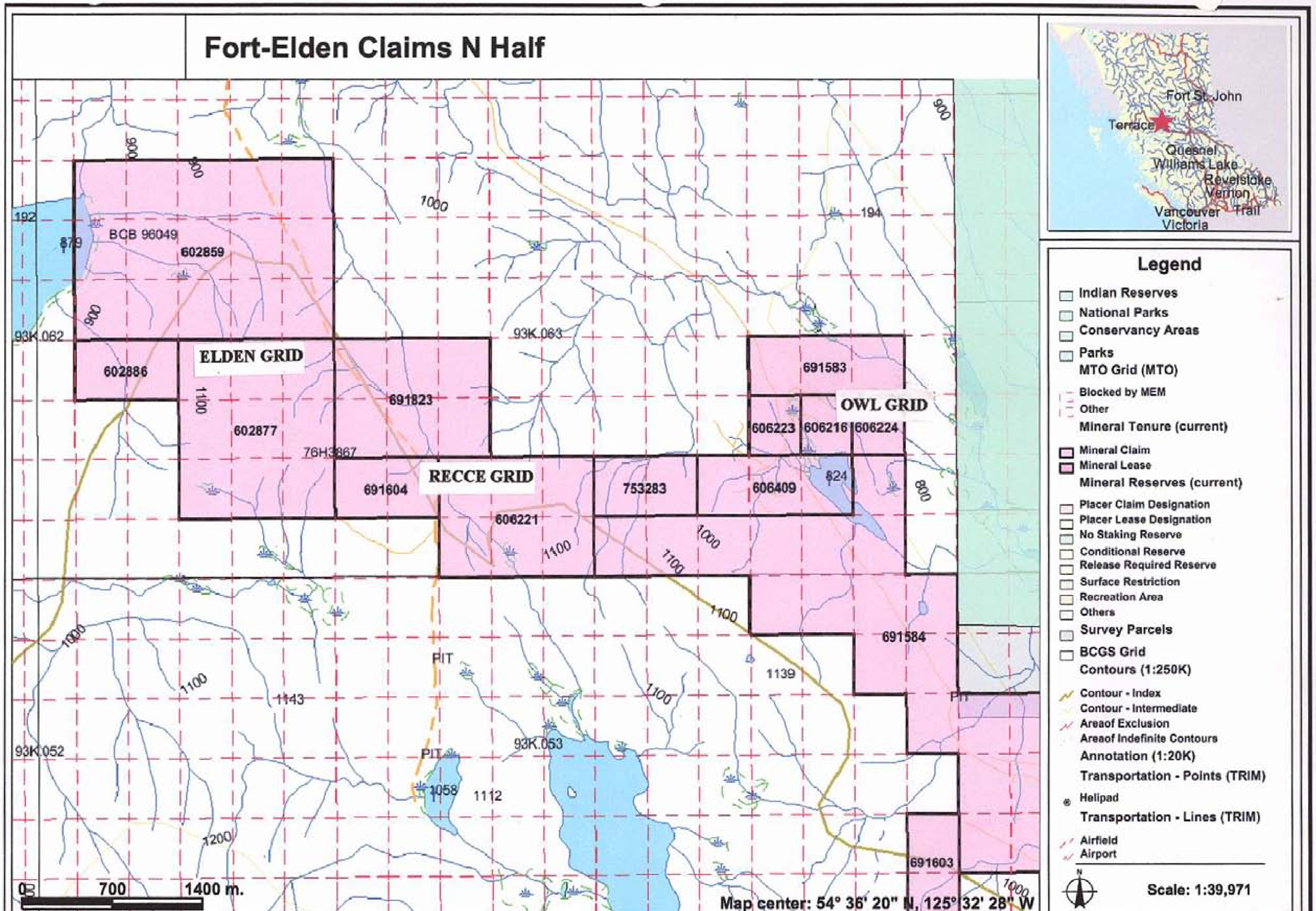

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FIG 2A FORT-ELDEN MTO MINERAL TENURE LOCATIONS (N HALF)
BCGS 093.K.063, OMINECA MINING DIVISION

Fort-Elden Claims S half

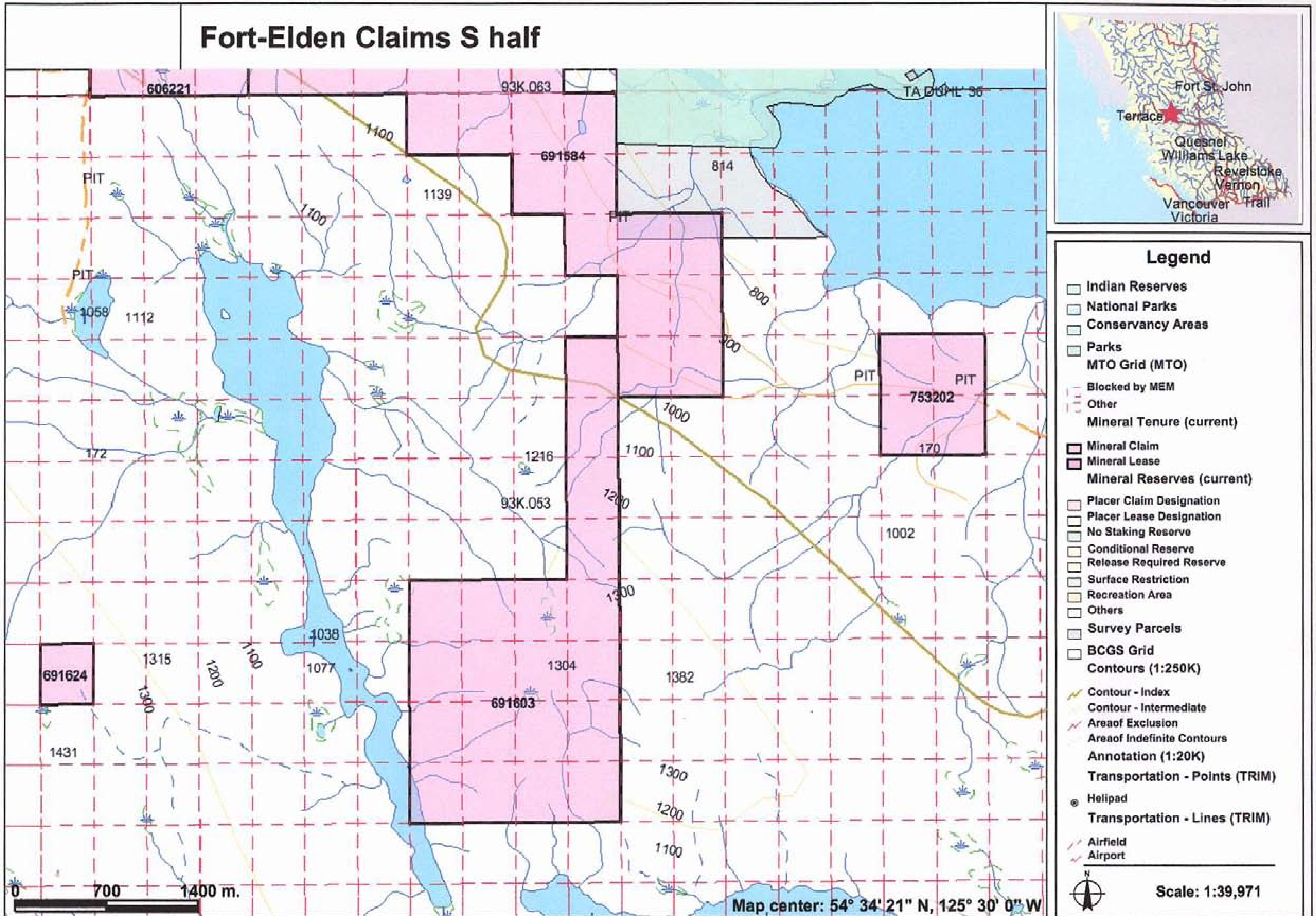

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FIG 2B FORT-ELDEN MTO MINERAL TENURE LOCATIONS (S HALF)
BCGS 093.K.063, OMINECA MINING DIVISION

FIG 3A # Elden-Recce-Owl Grid General Geology

FORT-ELDEN LITHOLOGY LEGEND (SOURCE: BCGS)

EEva- Eocene-Oligocene Nechako Plateau Grp-Endako Fm clastic sedimentary rocks

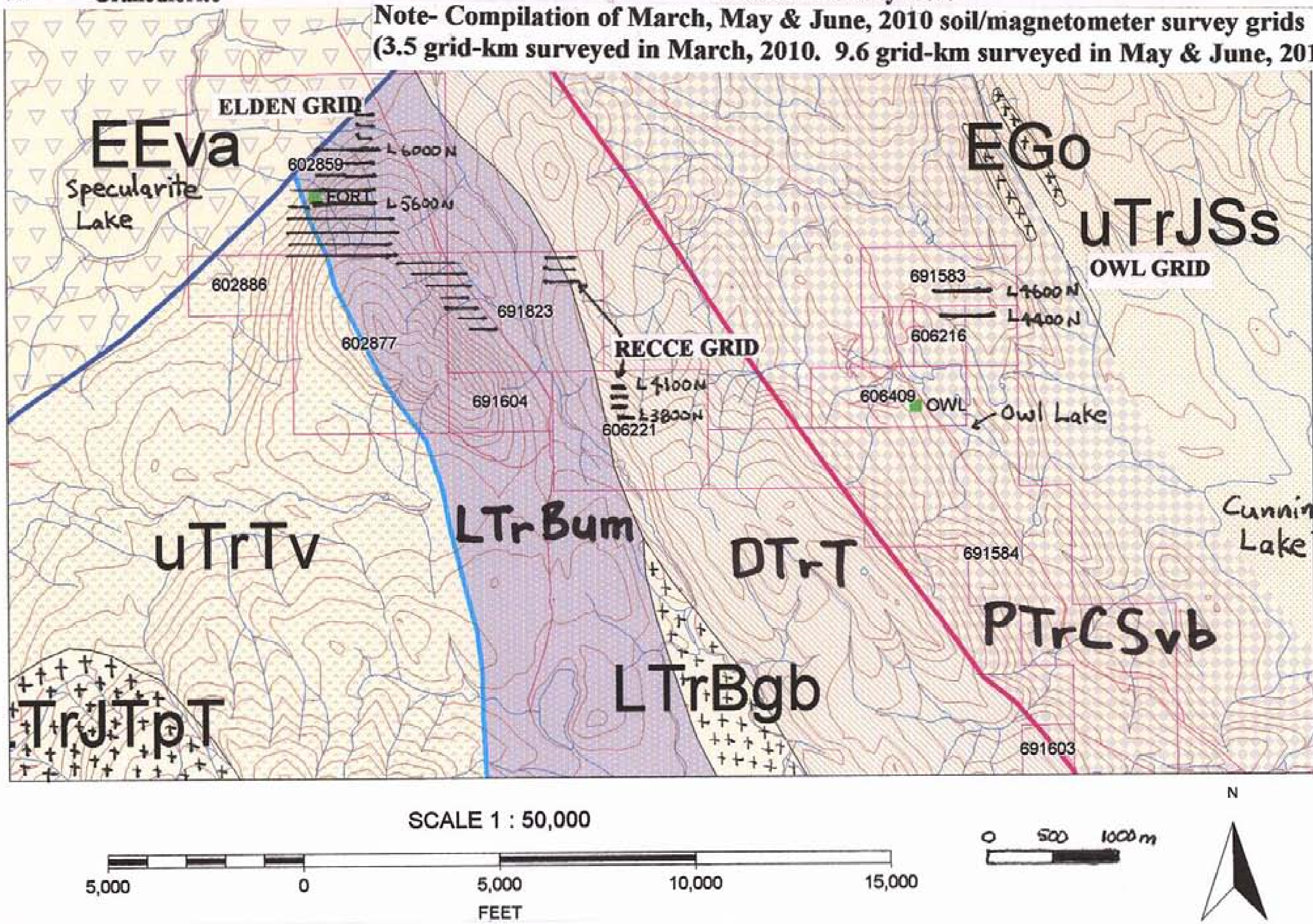
EGo- +++ Eocene Granodiorite

DTrT Late Devonian to Late Triassic Taltapin metamorphic rocks lower amphibolite-kyanite grade metamorphism

LTrJTpT- +++ Late Triassic-Early Jurassic Topley Suite, Tochcha Lake Stock diorite

UTrJSs- Late Triassic-Early Jurassic Sitlike Assemblage clastic sedimentary rocks

Note- Compilation of March, May & June, 2010 soil/magnetometer survey grids (3.5 grid-km surveyed in March, 2010. 9.6 grid-km surveyed in May & June, 2010)



LTrBum- Late Triassic Butterfield Lake Intrusive Complex ultramafic rocks

LTrBgb- +++ Late Triassic Butterfield Lake Intrusive Complex gabbro, diorite

uTrTv- Late Triassic Takla Grp volcanic rocks

PTrCSvb-Early Permian-Late Triassic Cache Creek Complex basalt

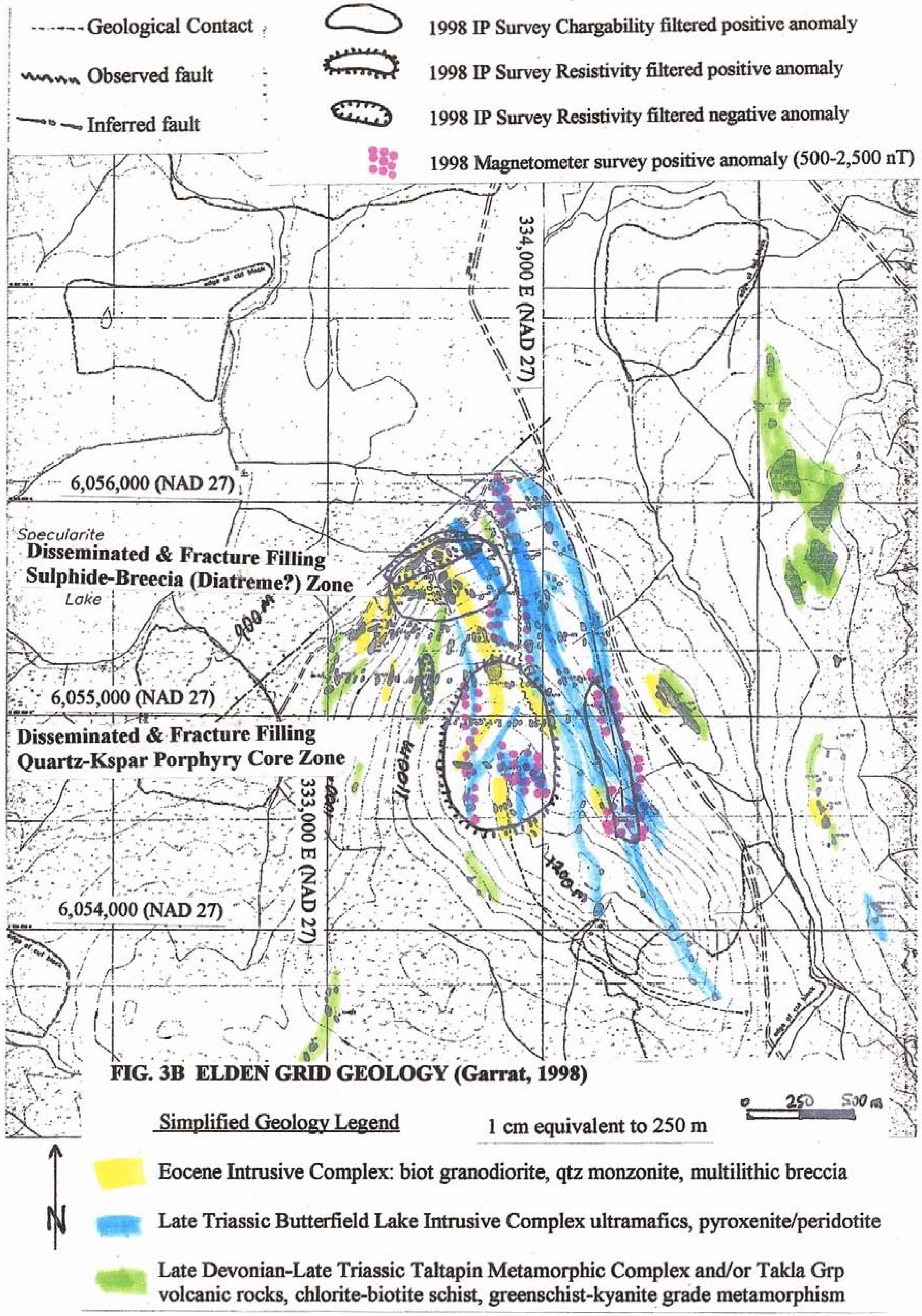
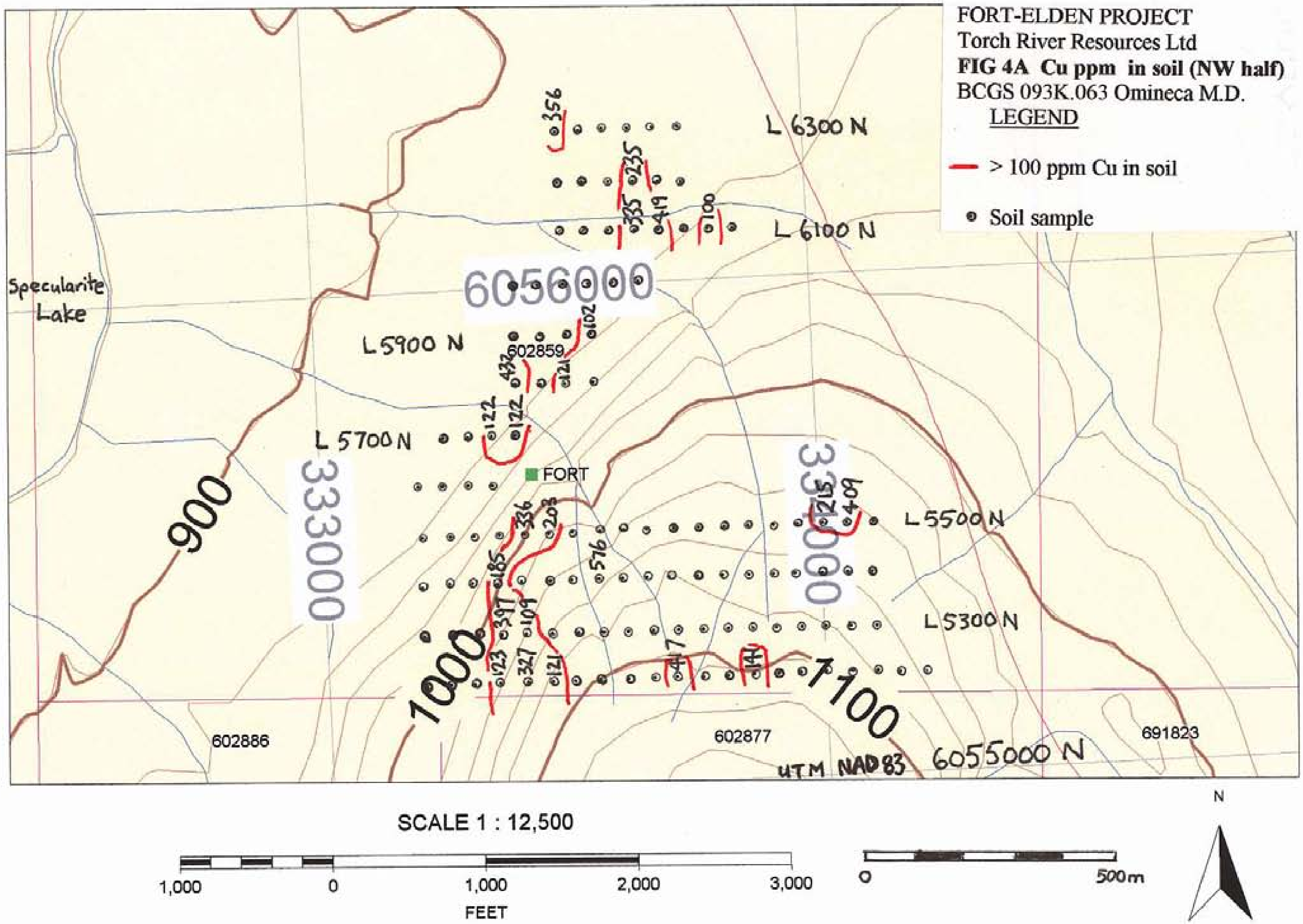
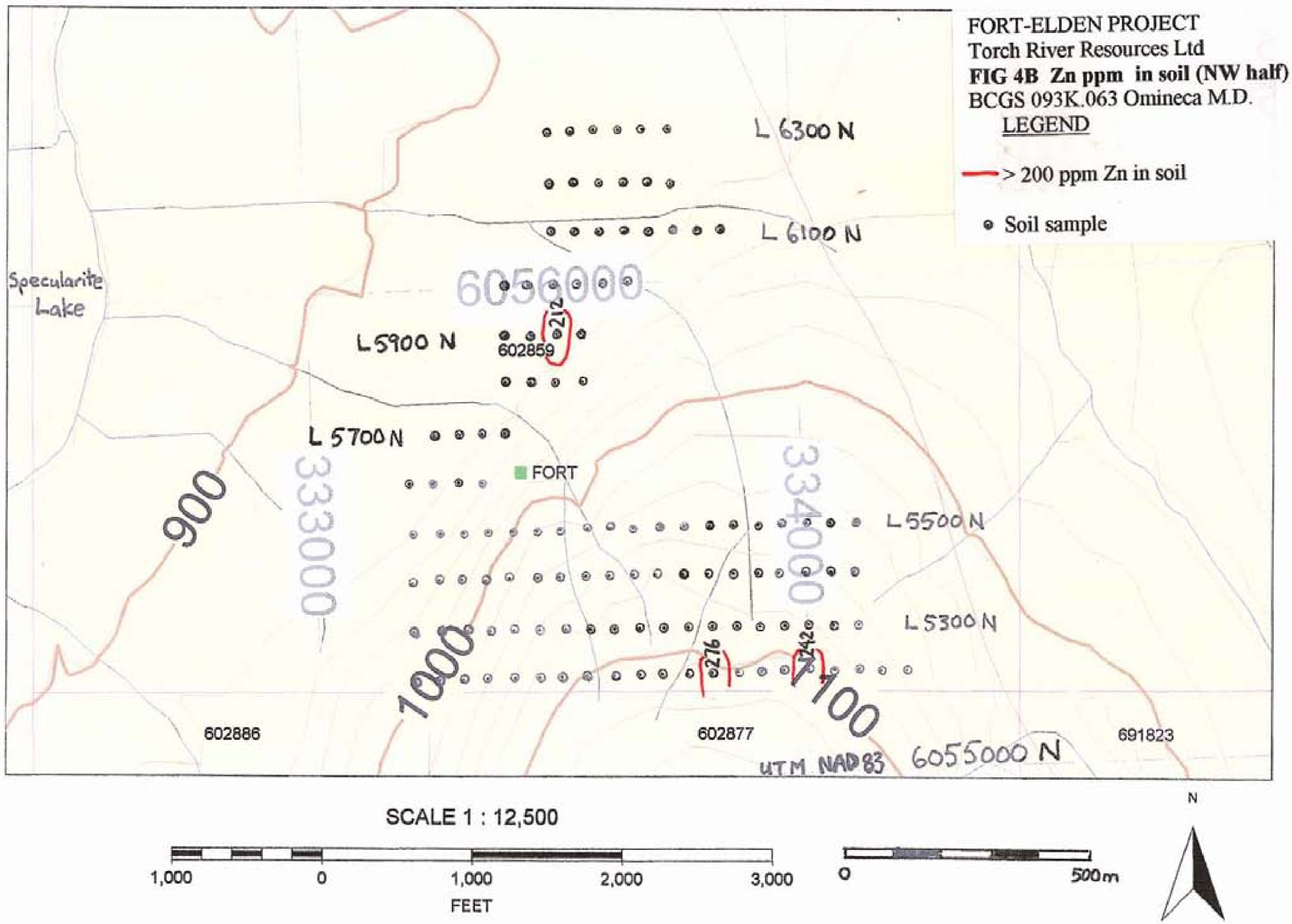


FIG. 3B ELDEN GRID GEOLOGY (Garrat, 1998)

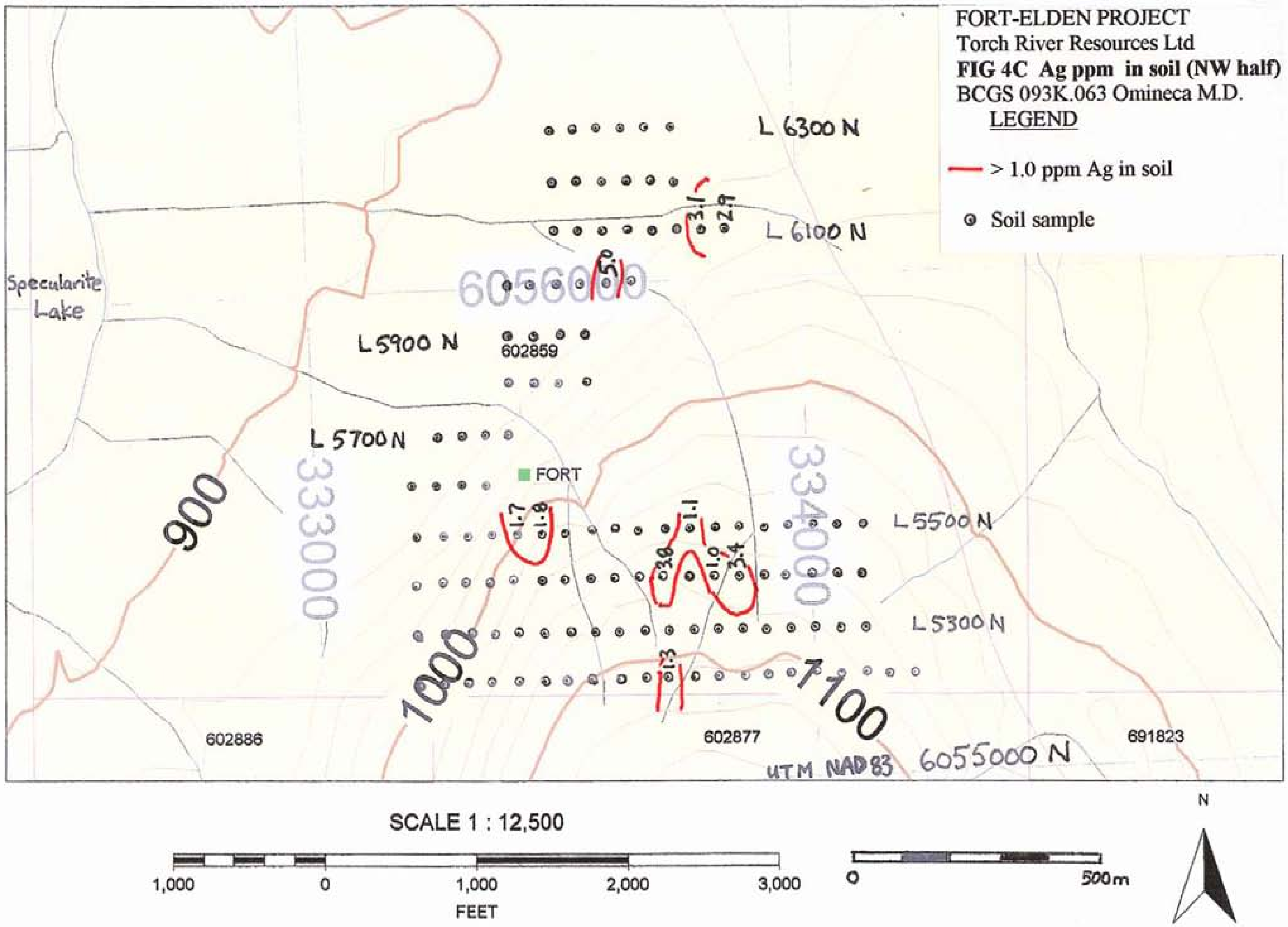
Fort-Elden, May 2010 soil sample locations (NW half)



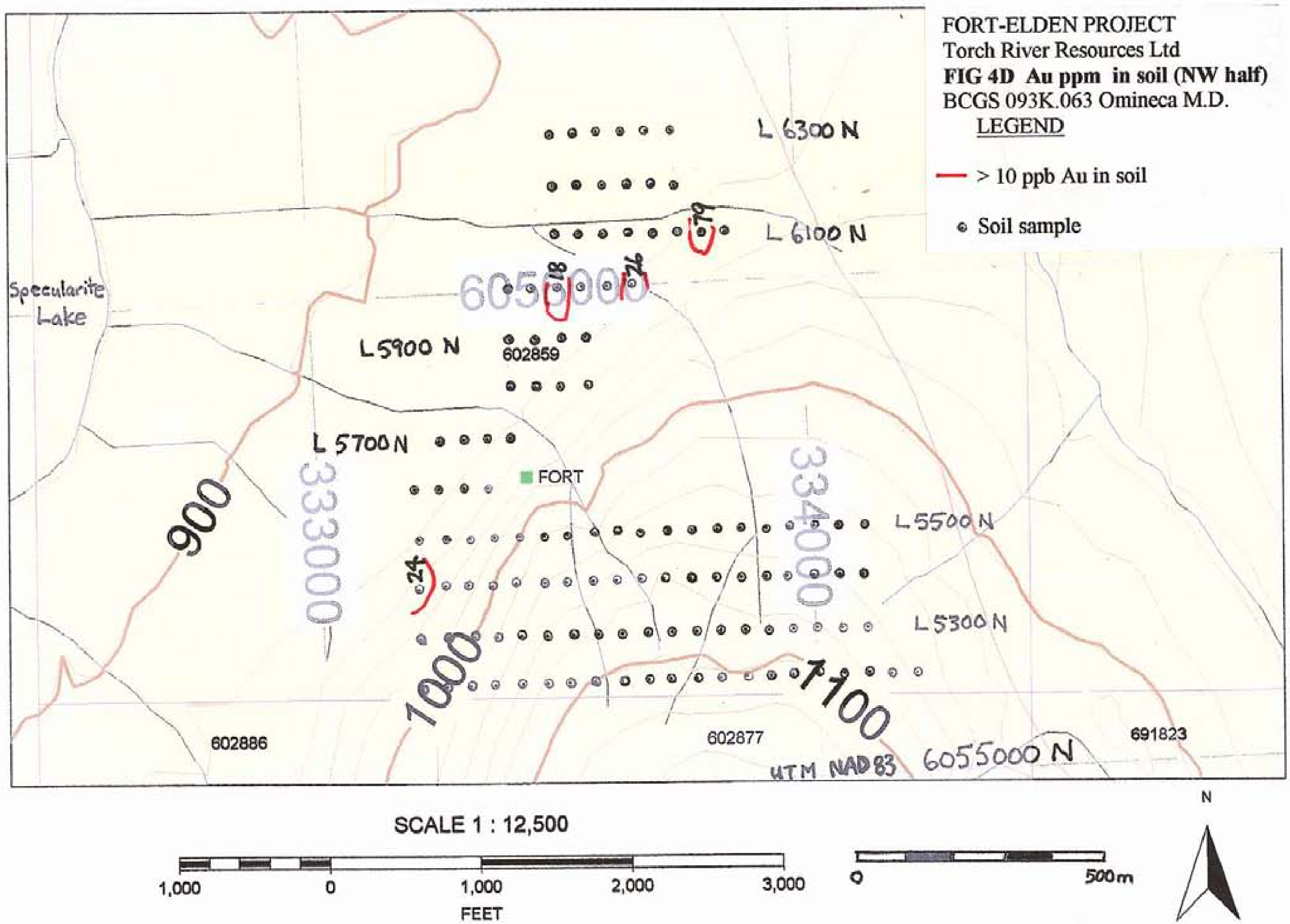
Fort-Elden, May 2010 soil sample locations (NW half)



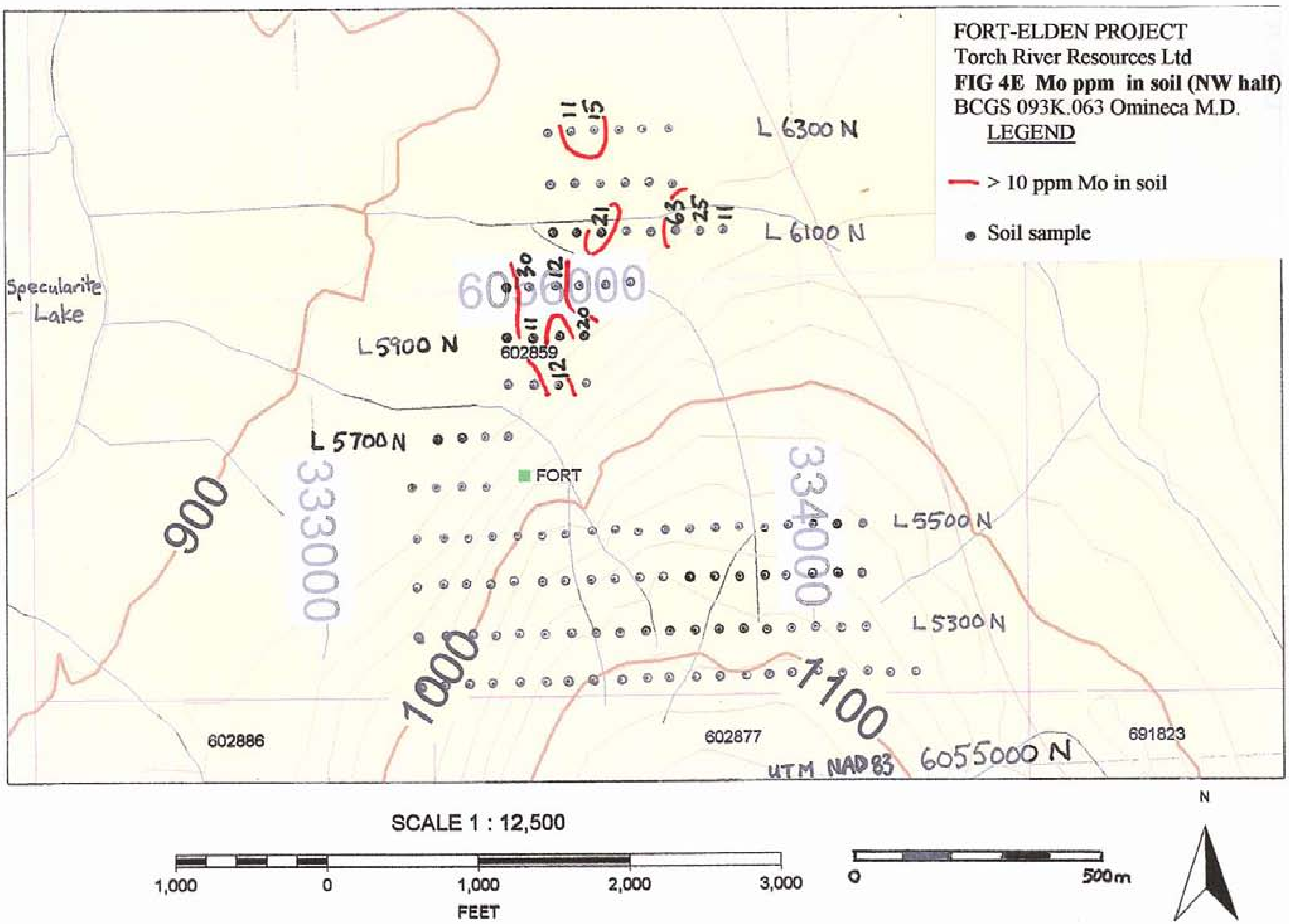
Fort-Elden, May 2010 soil sample locations (NW half)



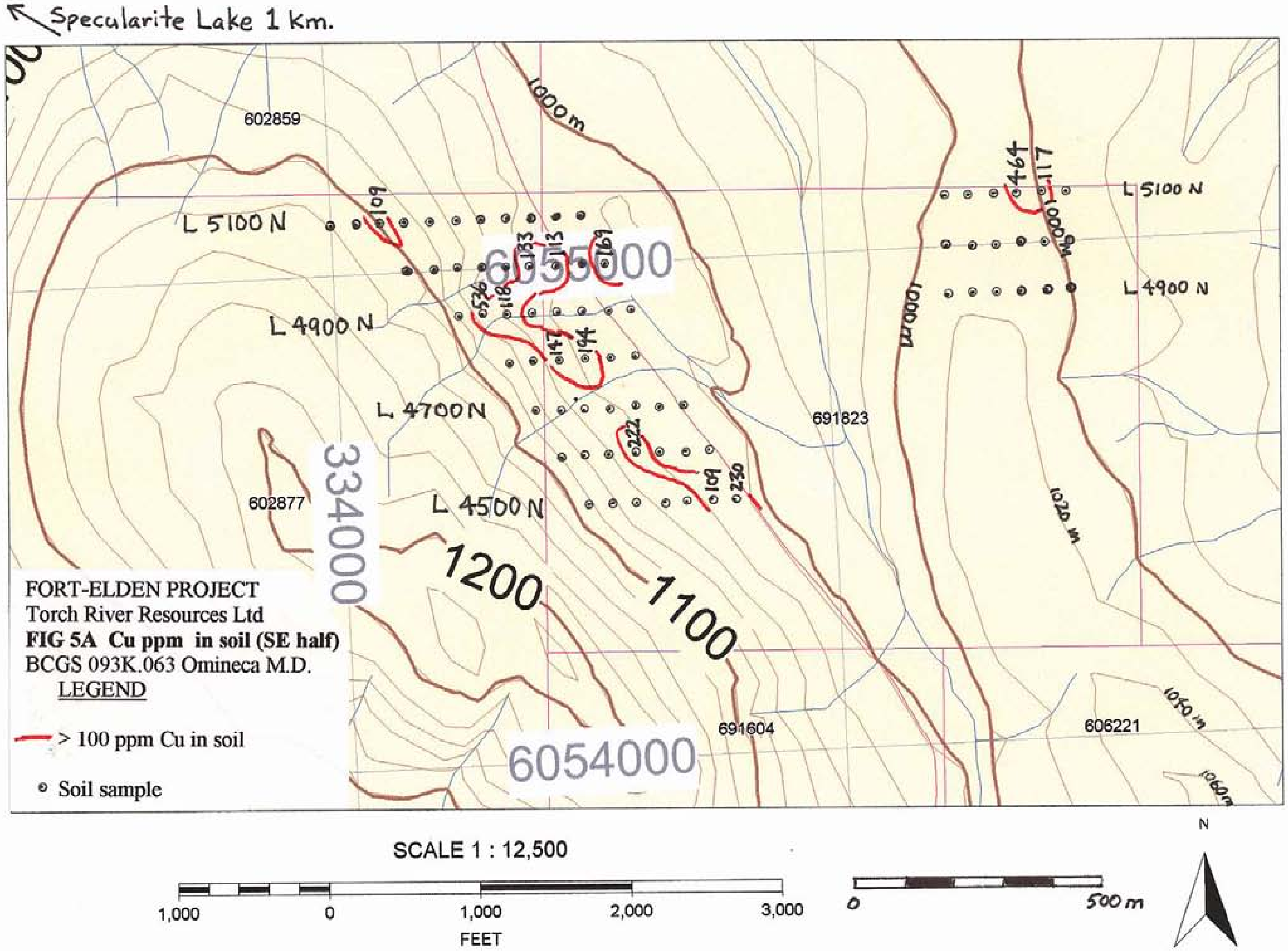
Fort-Elden, May 2010 soil sample locations (NW half)



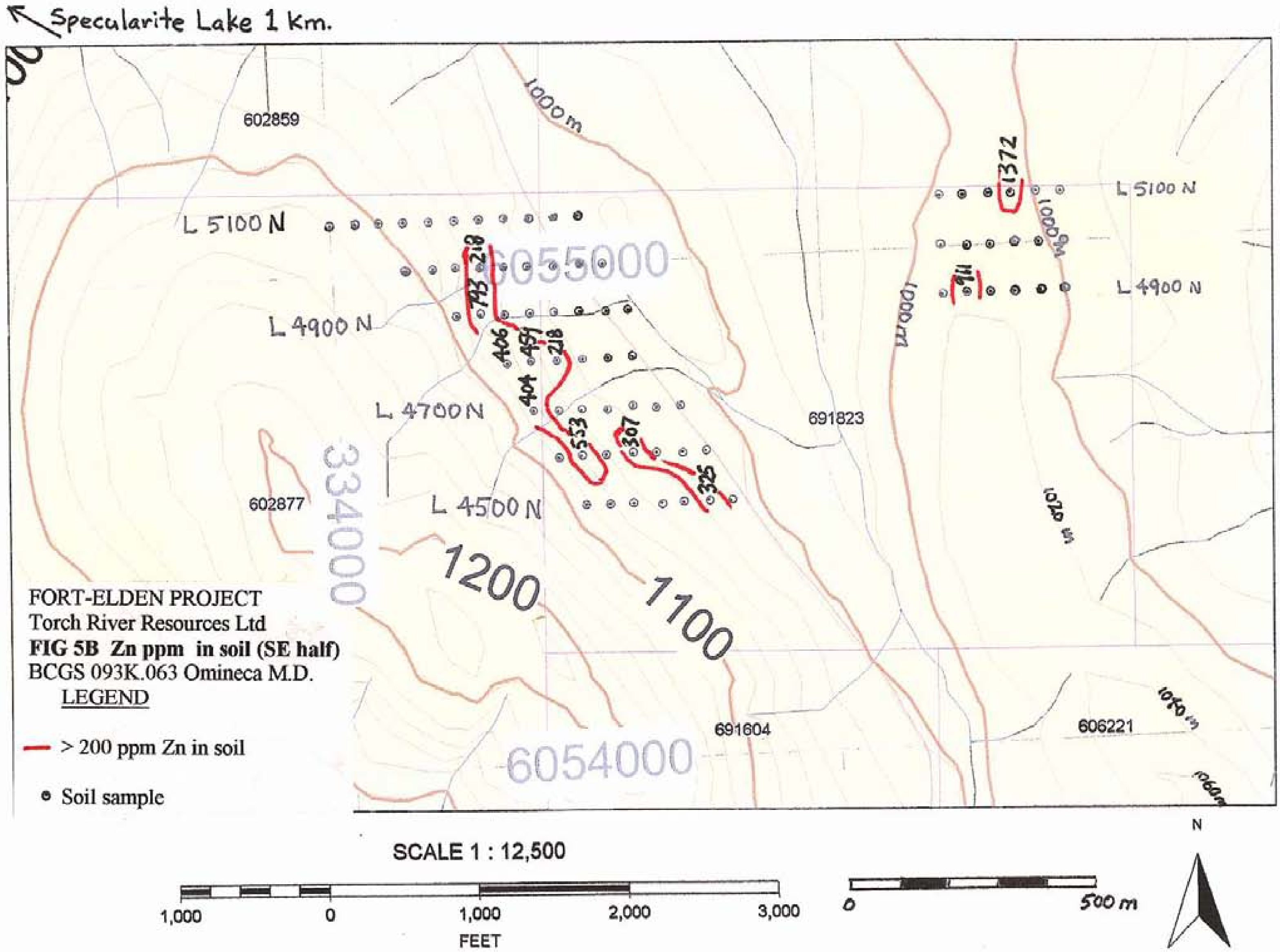
Fort-Elden, May 2010 soil sample locations (NW half)



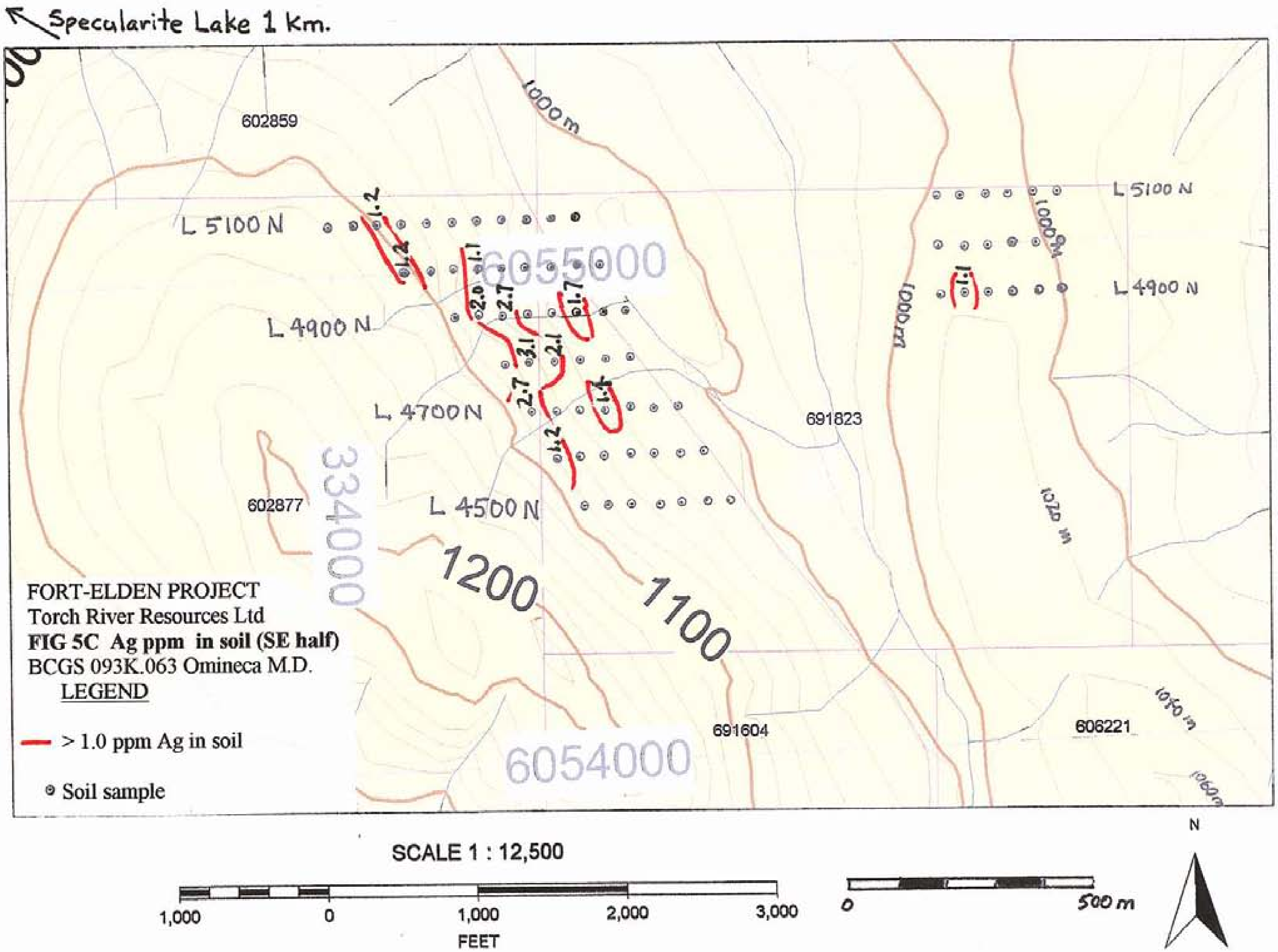
Fort-Elden, May 2010 soil sample locations (SE half)



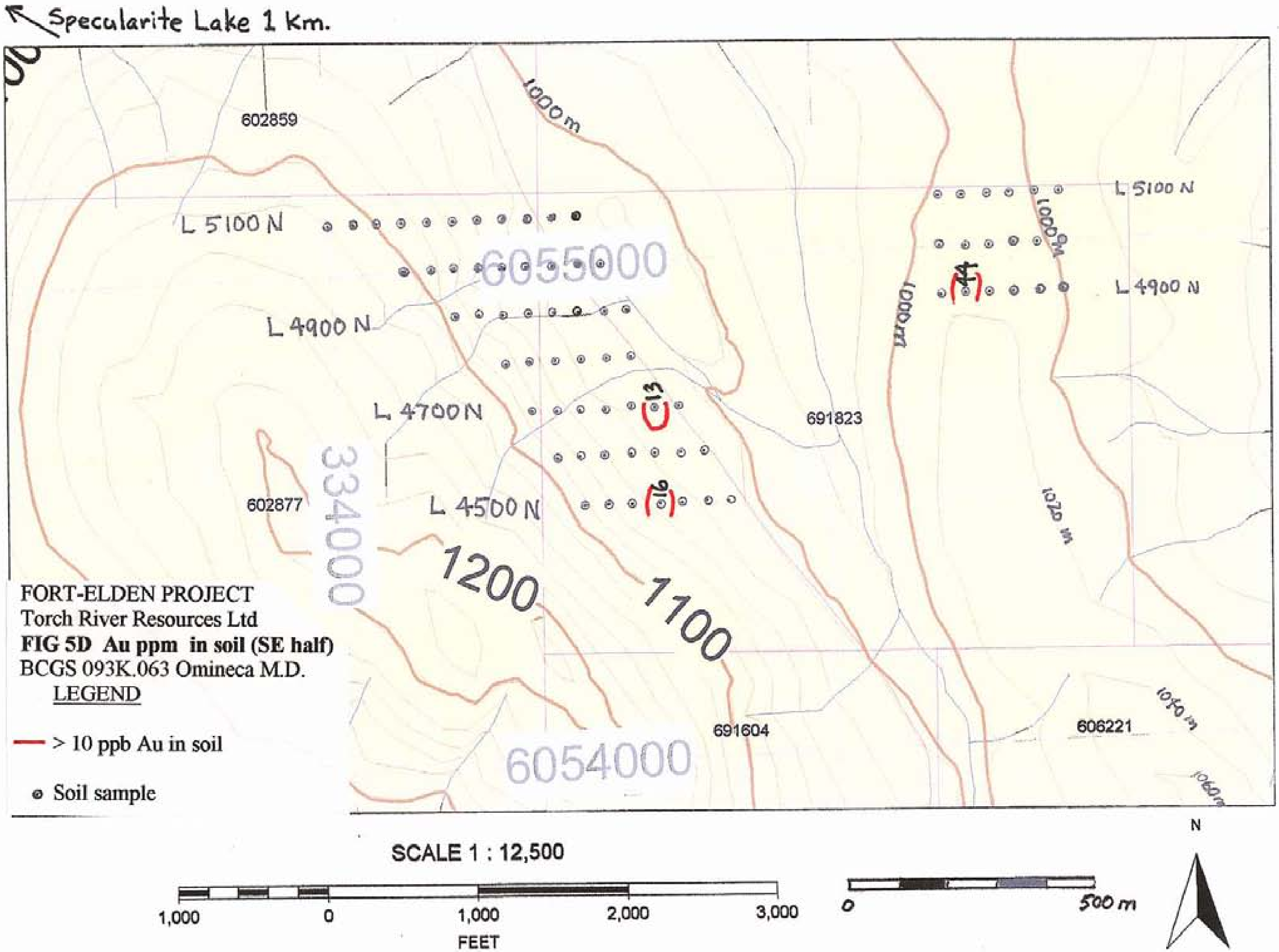
Fort-Elden, May 2010 soil sample locations (SE half)



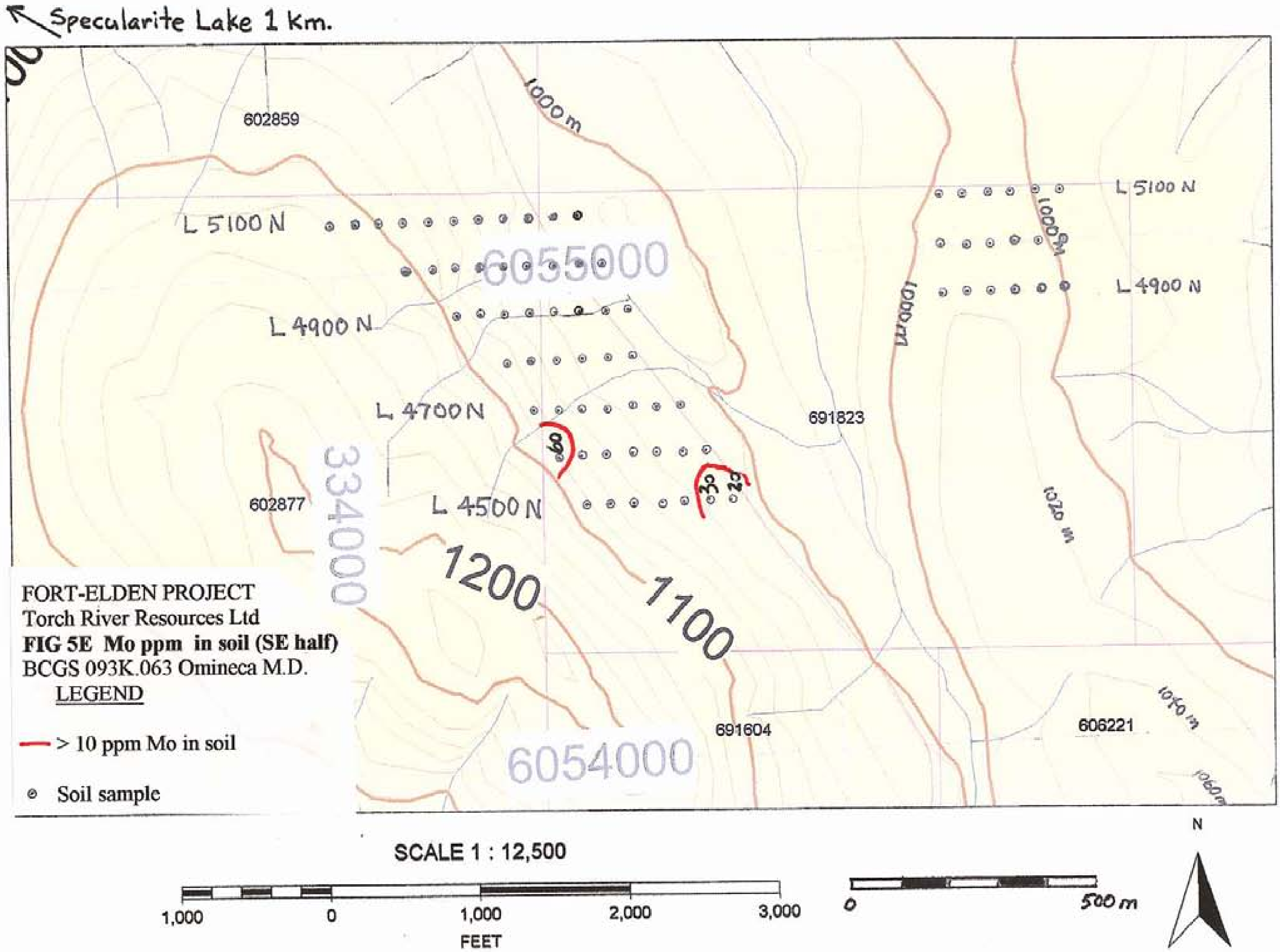
Fort-Elden, May 2010 soil sample locations (SE half)



Fort-Elden, May 2010 soil sample locations (SE half)



Fort-Elden, May 2010 soil sample locations (SE half)



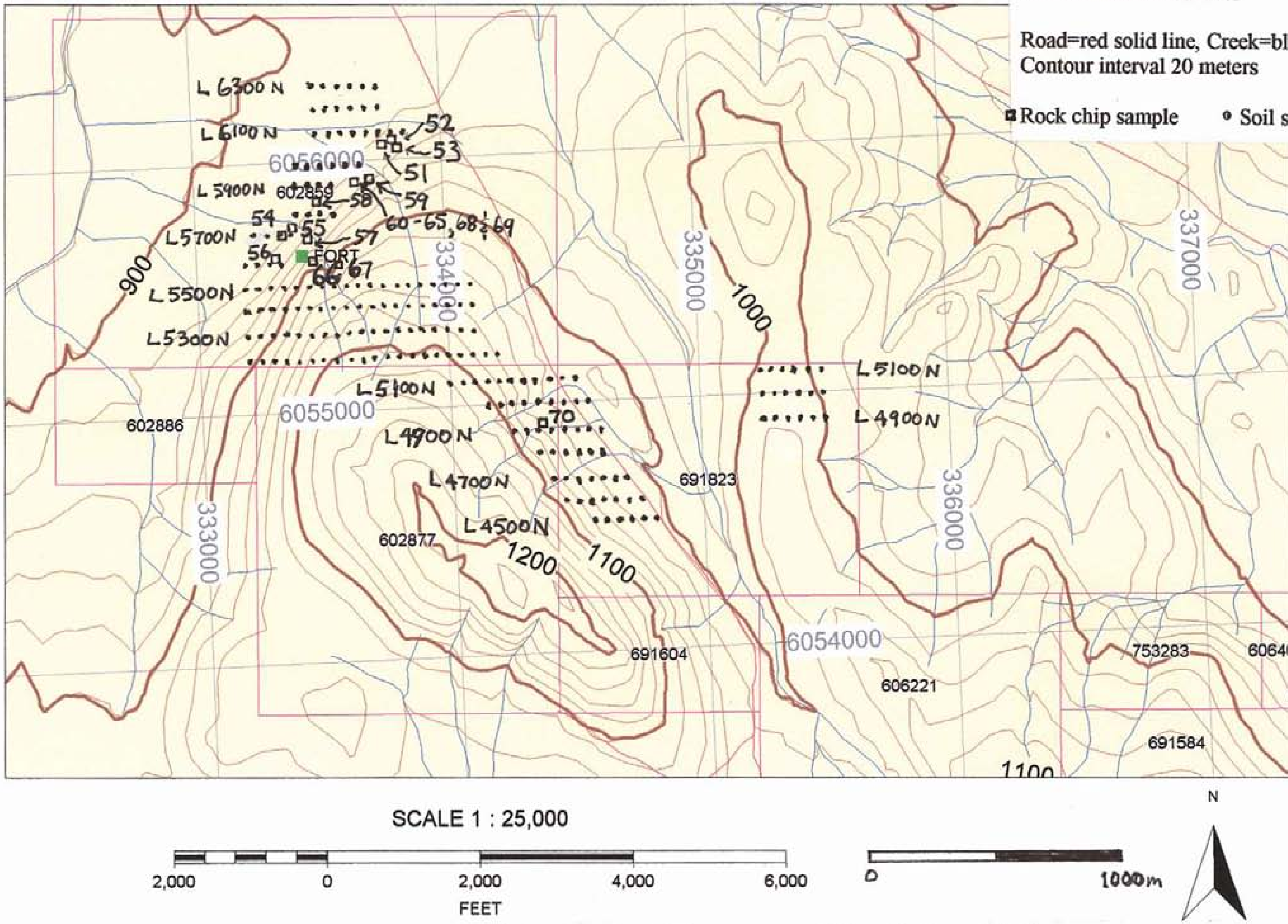
Fort-Elden May, 2010 soil, rock chip sample locations

FIG 6 FORT-ELDEN ROCK CHIP, SOIL SAMPLE LOCATIONS
BCGS 093.K.063, OMINECA MINING DIVISION

UTM NAD 83 Datum, Zone 10
MTO tenure number (6 digit) & claim outline in red lines

Road=red solid line, Creek=blue solid line
Contour interval 20 meters

Rock chip sample • Soil sample

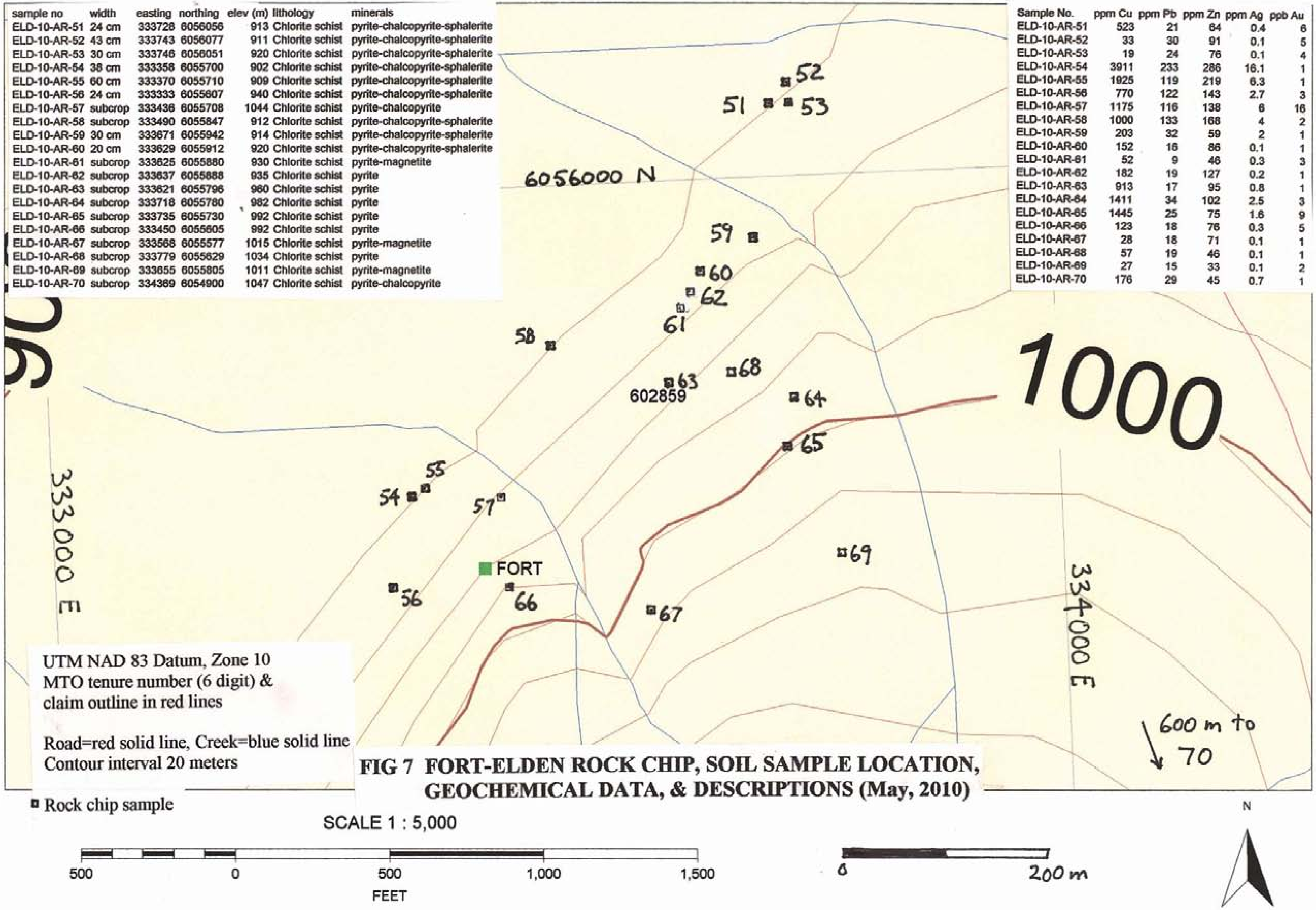


Note- 9.6 grid-km surveyed May & June, 2010
All grid lines oriented E-W, soil samples at 50 m spacing
For detailed geochemical analysis results, see Fig 4A-E, 5A-E, 7, 8

Fort-Elden rock chip sample locations

sample no	width	easting	northing	elev (m)	lithology	minerals
ELD-10-AR-51	24 cm	333728	6056056	913	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-52	43 cm	333743	6056077	911	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-53	30 cm	333746	6056051	920	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-54	38 cm	333358	6055700	902	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-55	60 cm	333370	6055710	909	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-56	24 cm	333333	6055607	940	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-57	subcrop	333436	6055708	1044	Chlorite schist	pyrite-chalcopyrite
ELD-10-AR-58	subcrop	333490	6055847	912	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-59	30 cm	333671	6055942	914	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-60	20 cm	333629	6055912	920	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-61	subcrop	333625	6055880	930	Chlorite schist	pyrite-magnetite
ELD-10-AR-62	subcrop	333637	6055888	935	Chlorite schist	pyrite
ELD-10-AR-63	subcrop	333621	6055796	960	Chlorite schist	pyrite
ELD-10-AR-64	subcrop	333718	6055780	982	Chlorite schist	pyrite
ELD-10-AR-65	subcrop	333735	6055730	992	Chlorite schist	pyrite
ELD-10-AR-66	subcrop	333450	6055605	992	Chlorite schist	pyrite
ELD-10-AR-67	subcrop	333568	6055577	1015	Chlorite schist	pyrite-magnetite
ELD-10-AR-68	subcrop	333779	6055629	1034	Chlorite schist	pyrite
ELD-10-AR-69	subcrop	333655	6055805	1011	Chlorite schist	pyrite-magnetite
ELD-10-AR-70	subcrop	334389	6054900	1047	Chlorite schist	pyrite-chalcopyrite

Sample No.	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppb Au
ELD-10-AR-51	523	21	64	0.4	6
ELD-10-AR-52	33	30	91	0.1	5
ELD-10-AR-53	19	24	76	0.1	4
ELD-10-AR-54	3911	233	286	16.1	1
ELD-10-AR-55	1925	119	219	6.3	1
ELD-10-AR-56	770	122	143	2.7	3
ELD-10-AR-57	1175	116	138	6	16
ELD-10-AR-58	1000	133	168	4	2
ELD-10-AR-59	203	32	59	2	1
ELD-10-AR-60	152	16	86	0.1	1
ELD-10-AR-61	52	9	46	0.3	3
ELD-10-AR-62	182	19	127	0.2	1
ELD-10-AR-63	913	17	95	0.8	1
ELD-10-AR-64	1411	34	102	2.5	3
ELD-10-AR-65	1445	25	75	1.6	9
ELD-10-AR-66	123	18	76	0.3	5
ELD-10-AR-67	28	18	71	0.1	1
ELD-10-AR-68	57	19	46	0.1	1
ELD-10-AR-69	27	15	33	0.1	2
ELD-10-AR-70	176	29	45	0.7	1

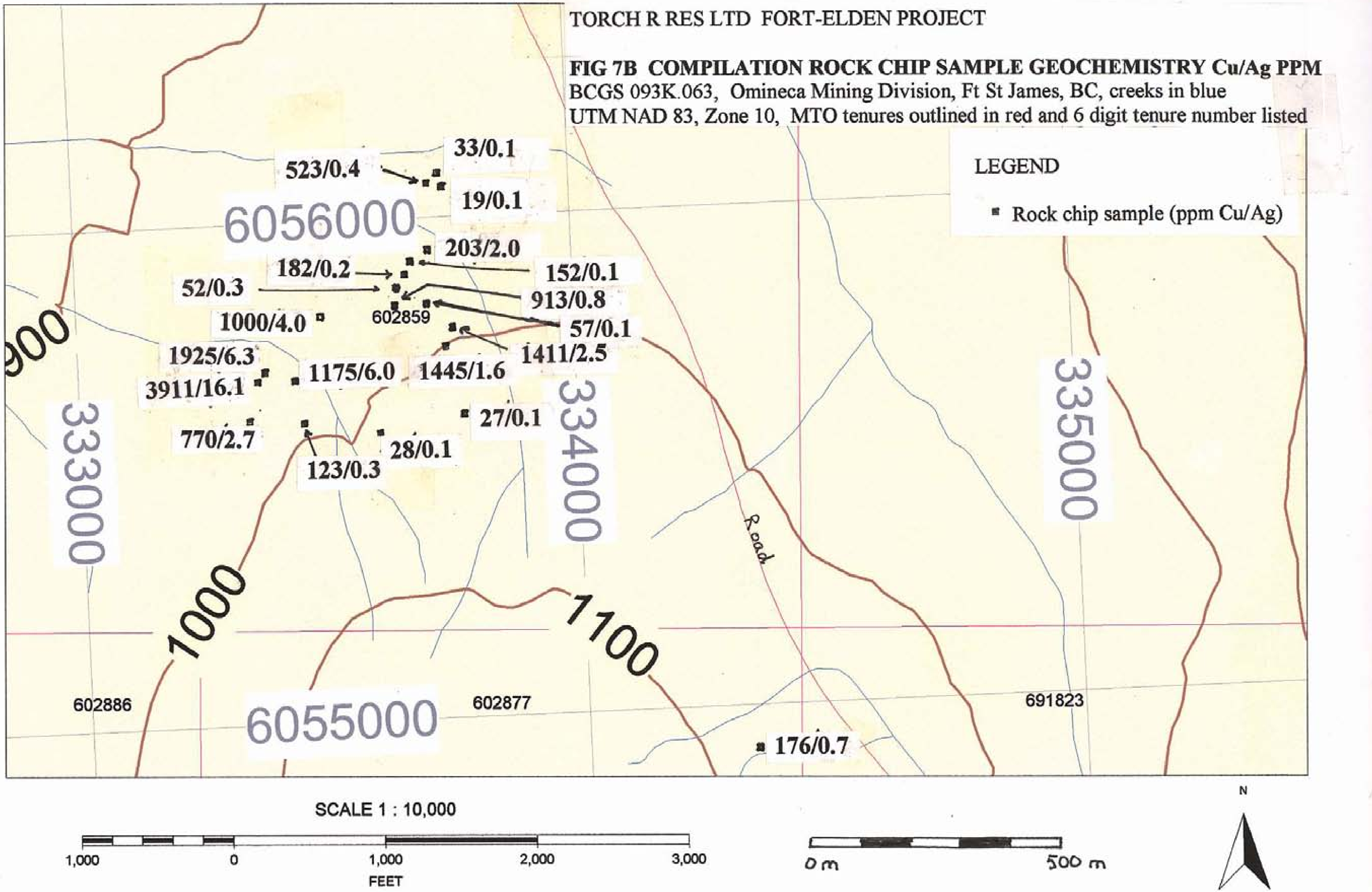


UTM NAD 83 Datum, Zone 10
MTO tenure number (6 digit) & claim outline in red lines

Road=red solid line, Creek=blue solid line
Contour interval 20 meters

▪ Rock chip sample

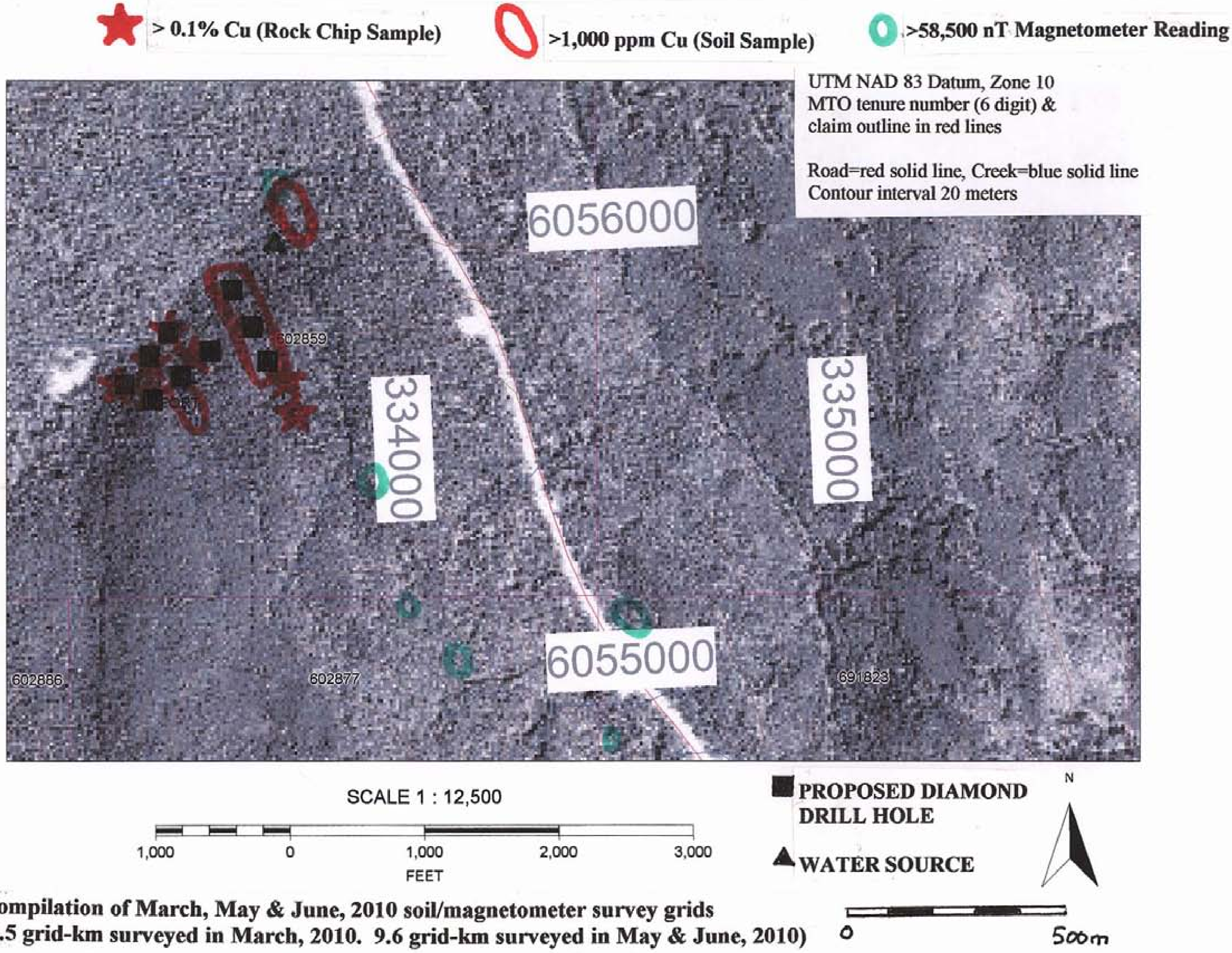
FIG 7 FORT-ELDEN ROCK CHIP, SOIL SAMPLE LOCATION, GEOCHEMICAL DATA, & DESCRIPTIONS (May, 2010)



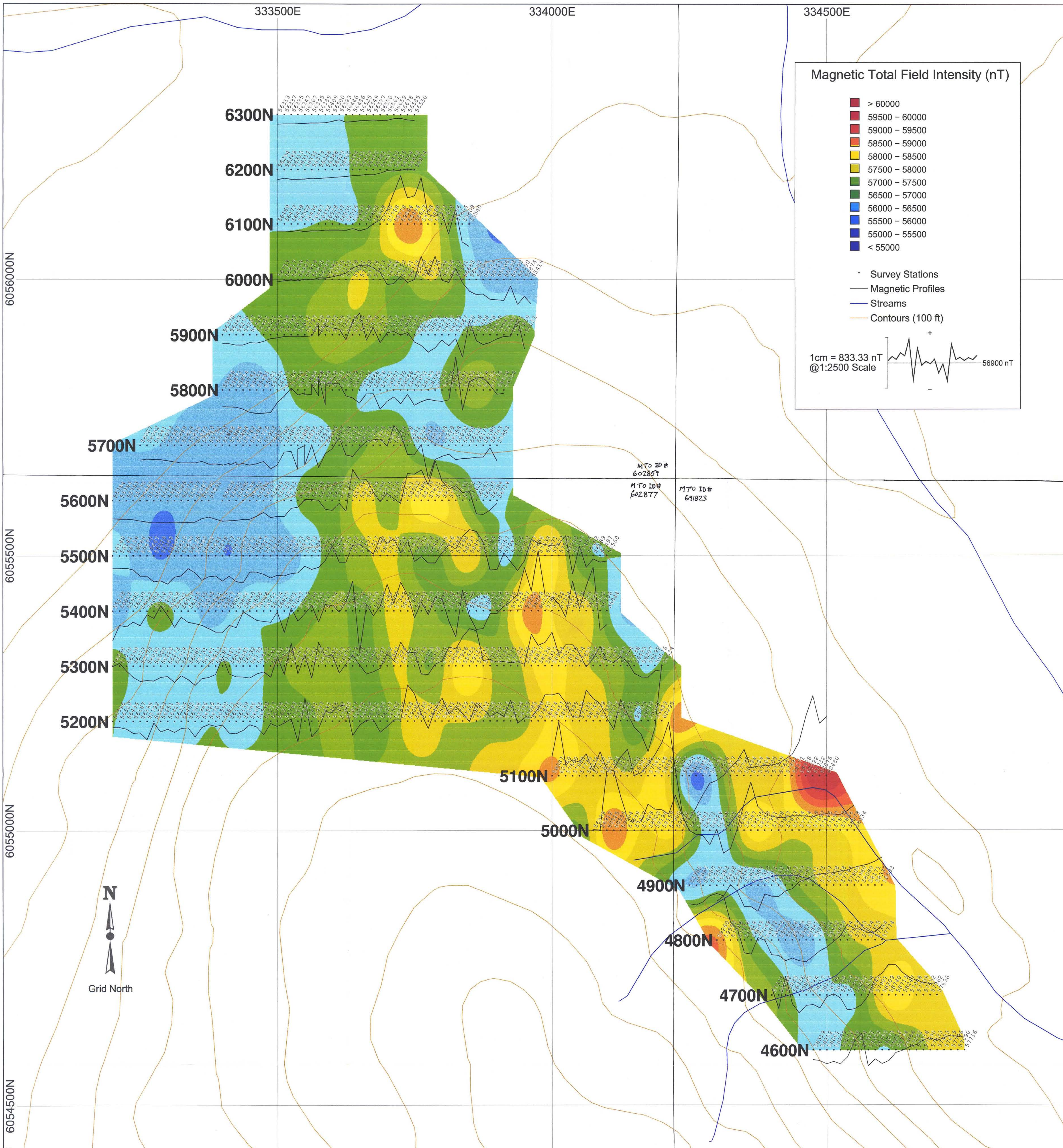
TORCH R RES LTD FORT-ELDEN PROJECT
FIG 7B COMPILATION ROCK CHIP SAMPLE GEOCHEMISTRY Cu/Ag PPM
BCGS 093K.063, Omineca Mining Division, Ft St James, BC, creeks in blue
UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed
LEGEND
Rock chip sample (ppm Cu/Ag)
33/0.1
523/0.4
19/0.1
6056000
203/2.0
182/0.2
152/0.1
52/0.3
913/0.8
1000/4.0
602859
57/0.1
1411/2.5
1925/6.3
1175/6.0
1445/1.6
3911/16.1
27/0.1
770/2.7
28/0.1
123/0.3
333000
334000
335000
Road
1000
1100
602886
602877
691823
6055000
176/0.7
SCALE 1 : 10,000
1,000
0
1,000
2,000
3,000
FEET
0 m
500 m
N

Fort-Elden

FIG 8 FORT-ELDEN COMPILATION OF ANOMALOUS COPPER, MAGNETOMETER READINGS, & DRILL TARGETS



Compilation of March, May & June, 2010 soil/magnetometer survey grids (3.5 grid-km surveyed in March, 2010. 9.6 grid-km surveyed in May & June, 2010)



Project Information:
Survey by: Andris Kikauka
Processing by: S.J.V. Consultants Ltd.
Survey Date: March, May & June 2010

Instrumentation:
GEM GSM-19 Magnetometer

Mapping Information:
Datum: NAD 83
Projection: UTM Zone 10
Mapping Date: June 2010

GROUND MAGNETIC SURVEY

Magnetic Total Field Intensity (nT)

0 100 200 300 400 500
meters

Torch River Resources Ltd.

Fort Project

FIG 9 Elden Grid: All Data

Fort St. James, BC

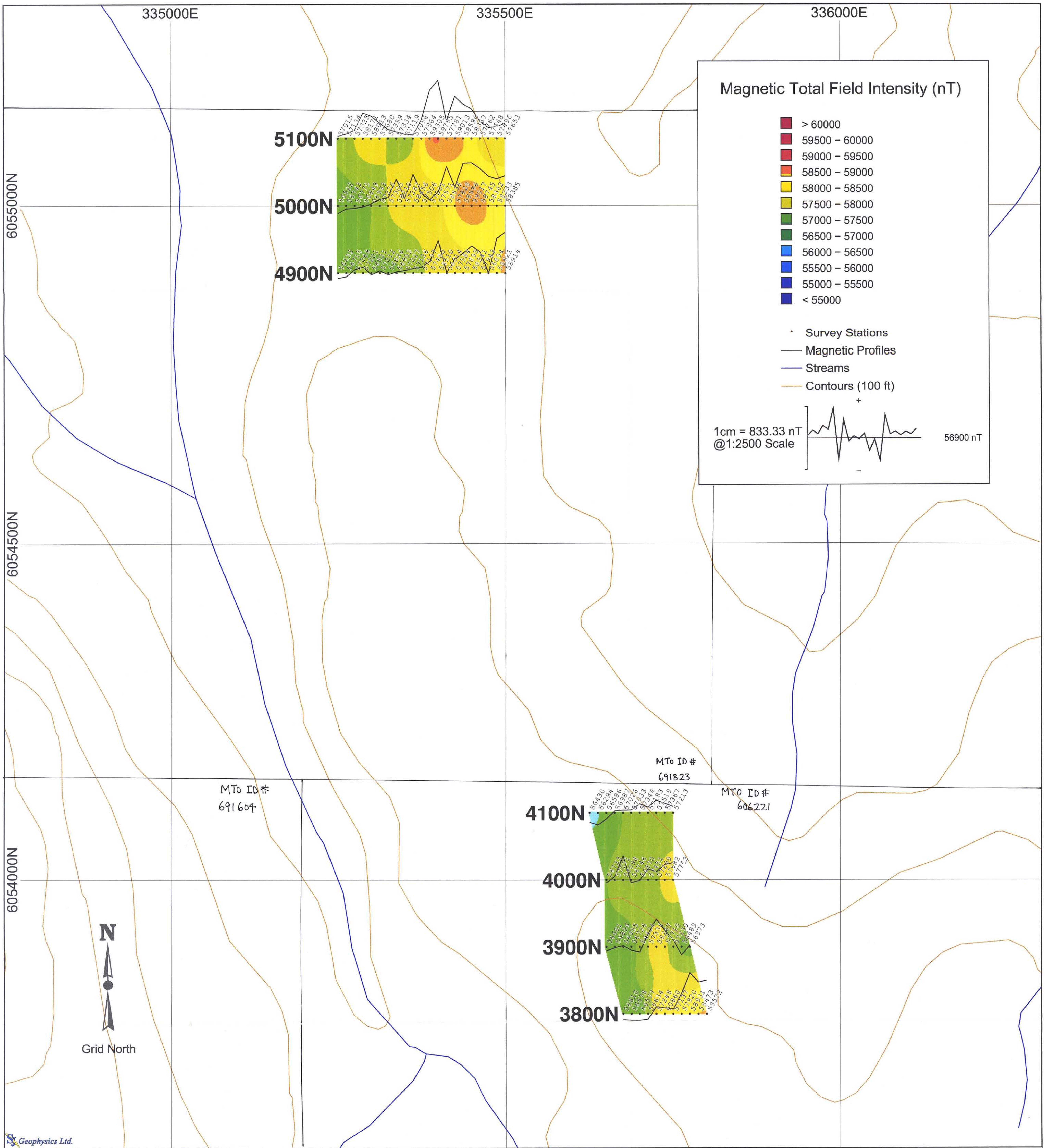
Magnetic Intensity Profile Map

BCGS 093K.063 Omineca M.D.

Mineral tenures 602859, 602877, 691823

Compilation of March, May & June, 2010 magnetometer survey grids (3.5 grid-km surveyed in March, 2010. 9.6 grid-km surveyed in May & June, 2010)

Mapping By : S.J.V. Consultants Ltd. 11966-95A Avenue, Delta, British Columbia, V4C 3W2 (604)582-1100 www.sjgeophysics.com



Project Information:
Survey by: Andris Kikauka
Processing by: S.J.V. Consultants Ltd.
Survey Date: March & May 2010

Instrumentation:
GEM GSM-19 Magnetometer

Mapping Information:
Datum: NAD 83
Projection: UTM Zone 10
Mapping Date: June 2010

GROUND MAGNETIC SURVEY

Magnetic Total Field Intensity (nT)

0 100 200 300 400 500
meters

Torch River Resources Ltd.

Fort Project

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

FIG 10 Recce Grid

31,904

Fort St. James, BC

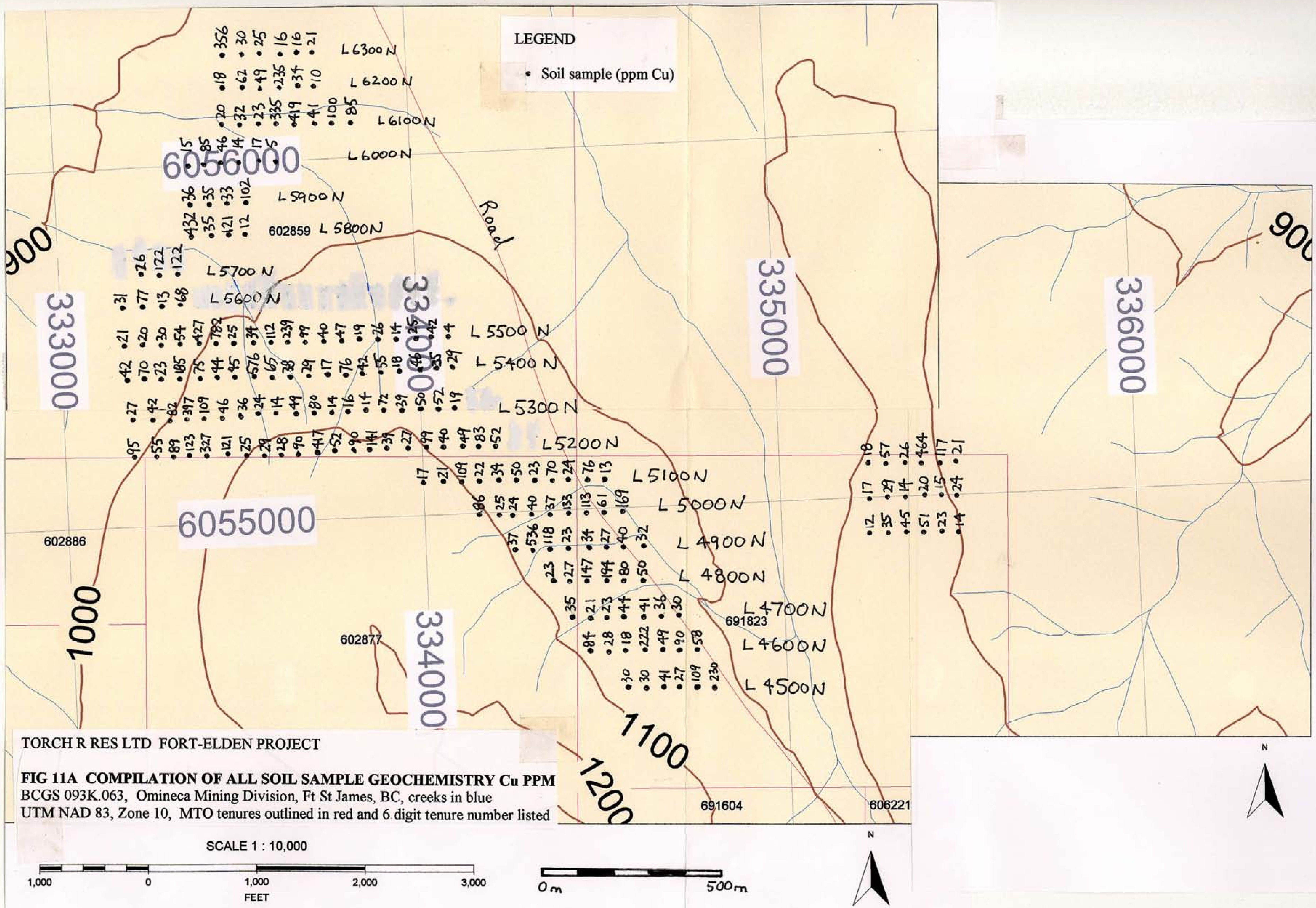
Magnetic Intensity Profile Map

BCGS 093K.063 Omineca M.D.

Mineral tenures 606221, 691823

Compilation of March, May & June, 2010 magnetometer survey grids
(3.5 grid-km surveyed in March, 2010. 9.6 grid-km surveyed in May & June, 2010)

Mapping By : S.J.V. Consultants Ltd. 11966-95A Avenue, Delta, British Columbia, V4C 3W2 (604)582-1100 www.sjgeophysics.com



TORCH R RES LTD FORT-ELDEN PROJECT

FIG 11A COMPILATION OF ALL SOIL SAMPLE GEOCHEMISTRY Cu PPM

BCGS 093K.063, Omineca Mining Division, Ft St James, BC, creeks in blue

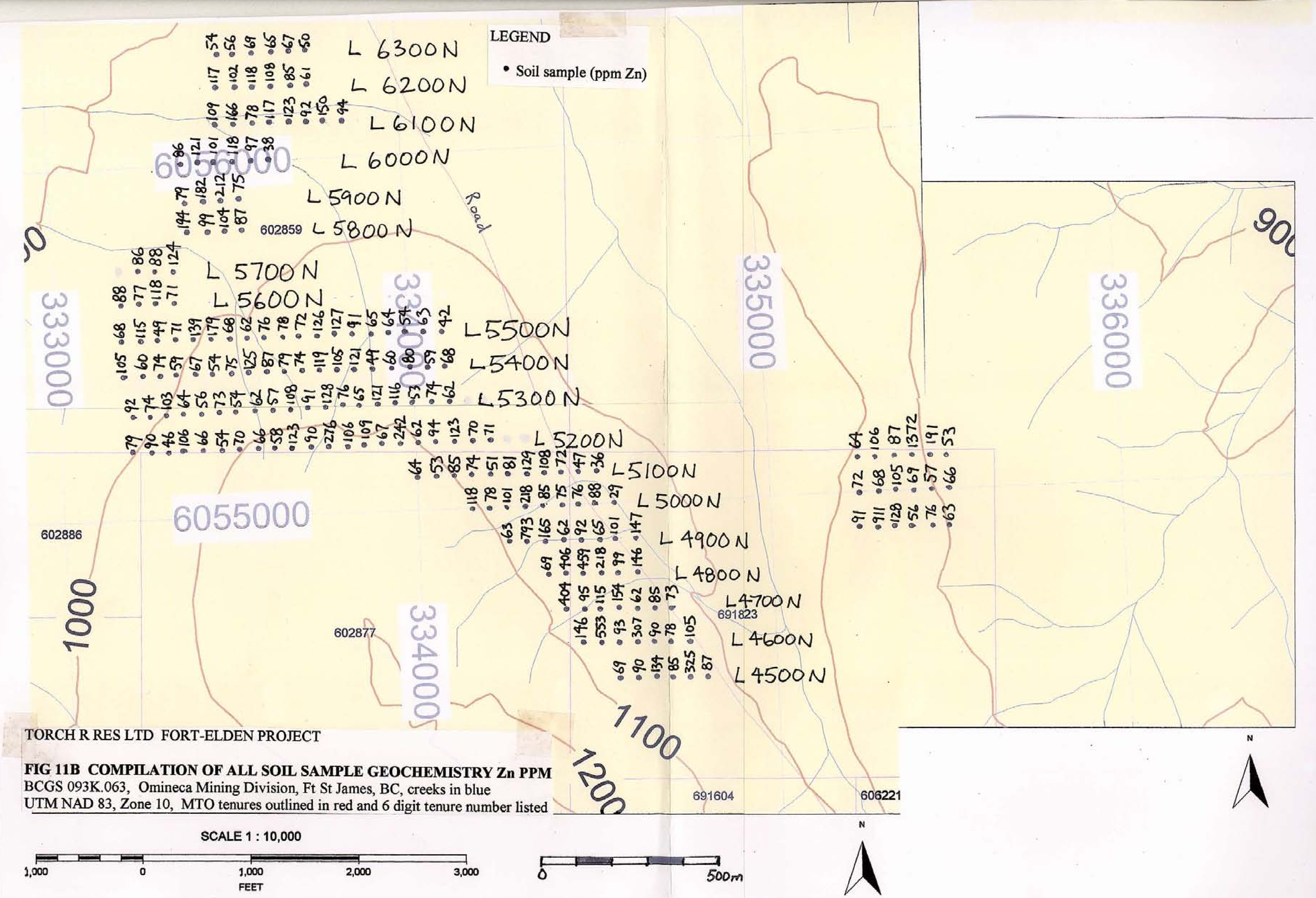
UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed

SCALE 1 : 10,000

1,000 0 1,000 2,000 3,000

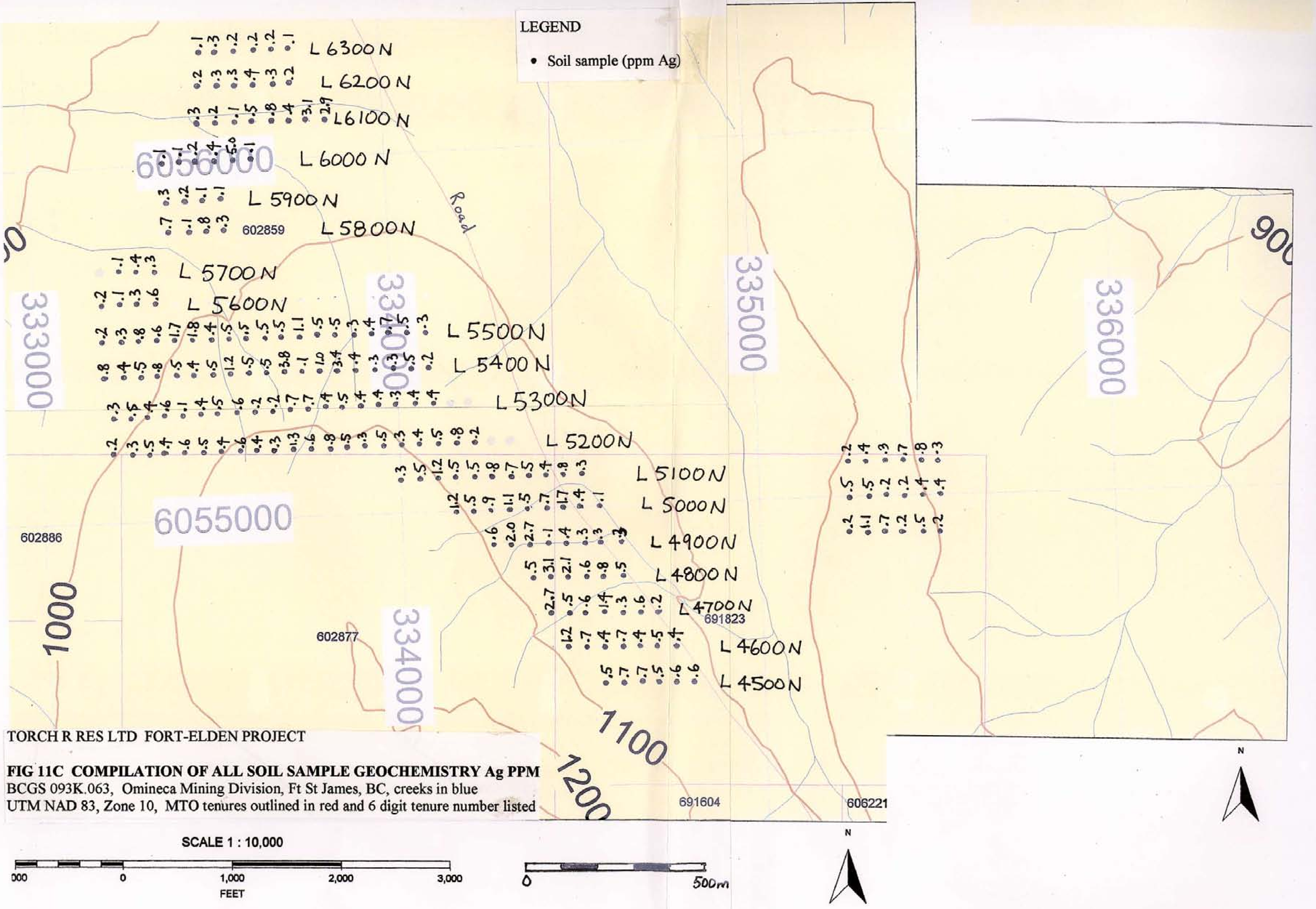
FEET

0 m 500 m



TORCH R RES LTD FORT-ELDEN PROJECT

FIG 11B COMPILATION OF ALL SOIL SAMPLE GEOCHEMISTRY Zn PPM
BCGS 093K.063, Omineca Mining Division, Ft St James, BC, creeks in blue
UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed

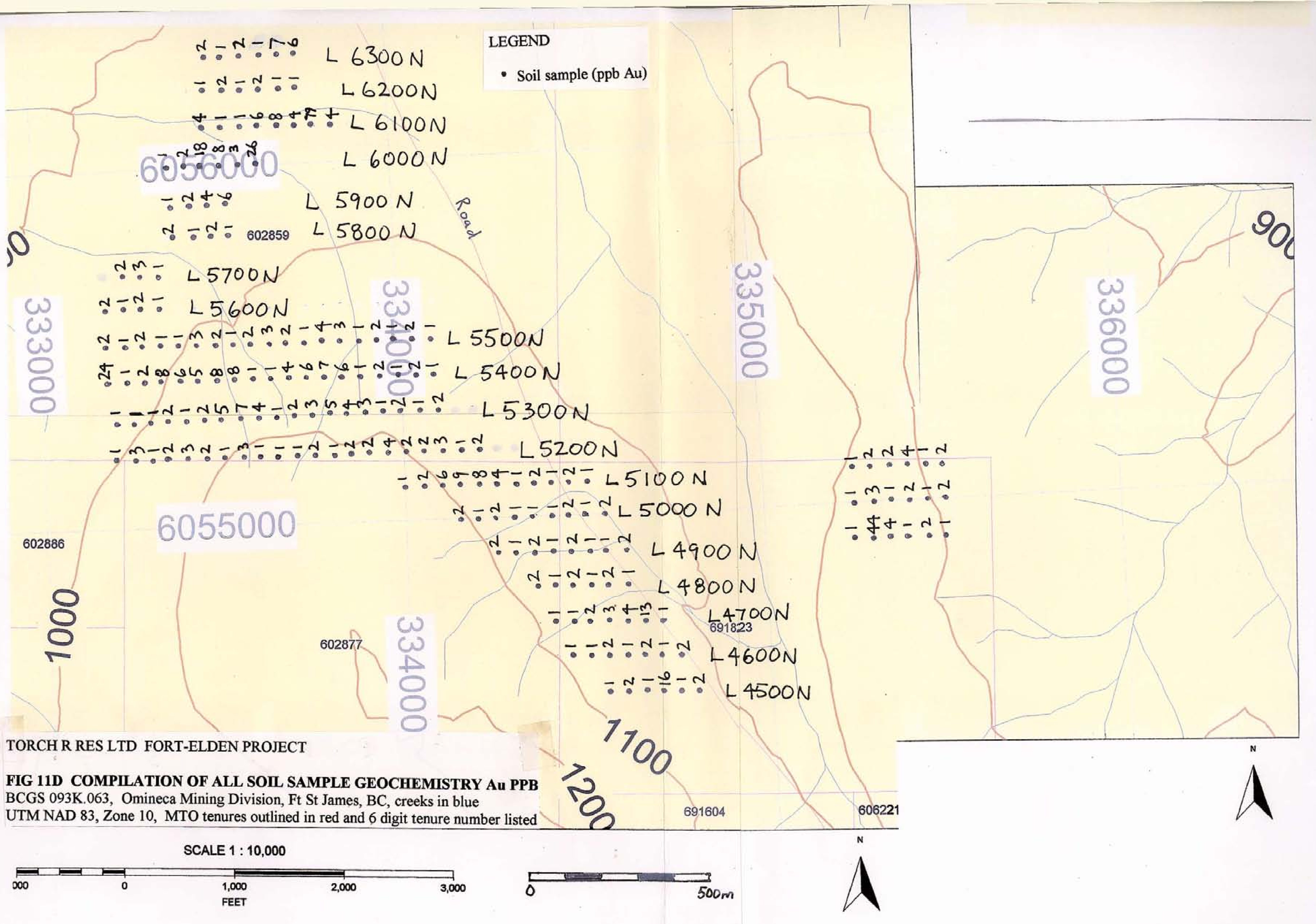


TORCH R RES LTD FORT-ELDEN PROJECT

FIG 11C COMPILATION OF ALL SOIL SAMPLE GEOCHEMISTRY Ag PPM

BCGS 093K.063, Omineca Mining Division, Ft St James, BC, creeks in blue

UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed

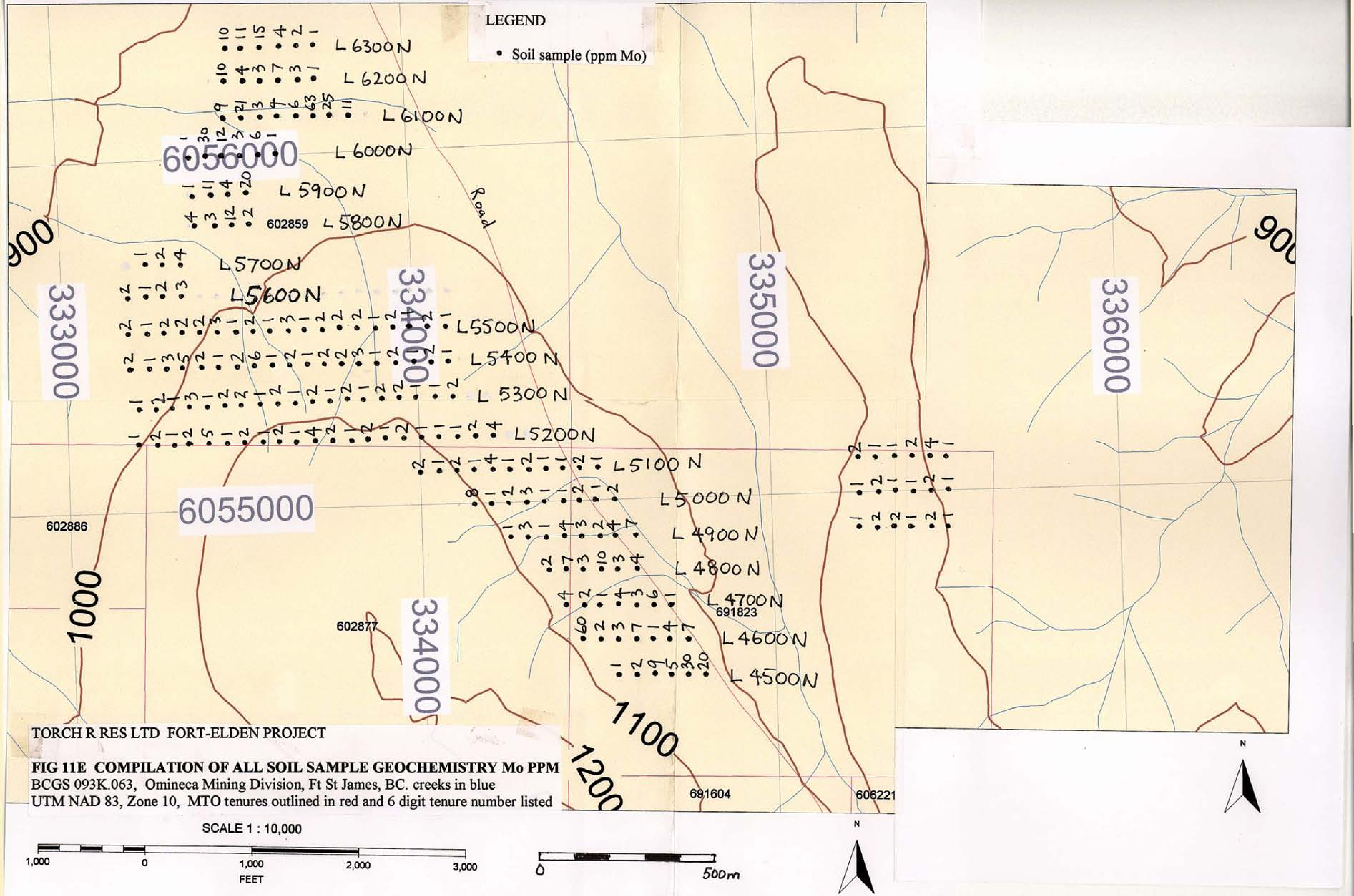


TORCH R RES LTD FORT-ELDEN PROJECT

FIG 11D COMPILATION OF ALL SOIL SAMPLE GEOCHEMISTRY Au PPB

BCGS 093K.063, Omineca Mining Division, Ft St James, BC, creeks in blue

UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed


LEGEND
• Soil sample (ppm Mo)
L 6300N
L 6200N
L 6100N
L 6000N
L 5900N
L 5800N
L 5700N
L 5600N
L 5500N
L 5400N
L 5300N
L 5200N
L 5100N
L 5000N
L 4900N
L 4800N
L 4700N
L 4600N
L 4500N
Road
6056000
6055000
333000
334000
335000
336000
900
1000
1100
1200
602859
602886
602877
691823
691604
606221
TORCH R RES LTD FORT-ELDEN PROJECT
FIG 11E COMPILATION OF ALL SOIL SAMPLE GEOCHEMISTRY Mo PPM
BCGS 093K.063, Omineca Mining Division, Ft St James, BC. creeks in blue
UTM NAD 83, Zone 10, MTO tenures outlined in red and 6 digit tenure number listed
SCALE 1 : 10,000
1,000
0
1,000
2,000
3,000
FEET
0
500m
N

PIONEER LABORATORIES INC. #103-2691 VISCOUNT WAY RICHMOND, BC CANADA V6V 2R5 TELEPHONE (604) 231-8165

Appendix A
6 pages total

GEOCHEMICAL ANALYSIS CERTIFICATE

TORCH RIVER RESOURCES LTD.
Project: Fort-Elden
Sample Type: Soils/Rocks

Multi-element ICP Analysis - 0.500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with water. This leach is partial for B, Ba, Cr, Fe, Mg, Mn, Na, P, S, Sn, Ti and limited for Na, K and Al. *Au Analysis- 20 gram sample is digested with aqua regia, MIBK extracted, and is finished by AA or graphite furnace AA.

Analyst R.S[signature]
Report No. 2102647
Date: June 18, 2010

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
SAMPLE	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
L4500N-4550E	.5	1.45	10	<5	118	<10	.25	<1	17	76	30	3.30	.12	.82	403	1	.05	29	.17	17	.01	<2	<2	19	6	.06	<5	74	69	1
L4500N-4600E	.7	1.33	<5	<5	161	<10	.30	2	14	49	30	3.10	.09	.60	534	2	.05	25	.22	20	.01	<2	<2	29	<5	.03	<5	60	90	2
L4500N-4650E	.7	1.12	12	<5	236	<10	.22	4	15	46	41	3.[illegible]6	.08	.39	876	9	.05	20	.23	22	.01	<2	<2	22	<5	.03	6	63	134	1
L4500N-4700E	.5	1.49	7	<5	98	<10	.29	<1	15	58	27	3.17	.10	.63	410	5	.05	26	.13	24	.01	<2	<2	21	<5	.04	<5	67	85	16
L4500N-4750E	.6	1.27	<5	<5	227	<10	.71	3	18	46	109	2.71	.06	.40	4466	30	.04	33	.25	22	.03	<2	<2	26	<5	.03	<5	51	325	1
L4500N-4800E	.6	1.38	37	<5	163	<10	1.04	1	18	52	230	3.07	.10	.58	1037	20	.05	43	.17	23	.04	<2	<2	33	<5	.02	<5	56	87	2
L4600N-4450E	1.2	2.39	12	<5	110	<10	.53	1	45	143	84	7.67	.44	2.48	708	60	.04	60	.42	115	.05	<2	<2	21	<5	.13	<5	210	146	1
L4600N-4500E	.7	1.55	22	<5	62	<10	.34	3	18	124	28	3.16	.10	1.22	336	2	.05	37	.19	22	.01	<2	<2	18	<5	.06	<5	72	553	1
L4600N-4550E	.4	1.28	15	<5	166	<10	.32	2	12	41	18	3.01	.10	.46	501	3	.05	19	.23	15	.01	2	<2	29	<5	.03	<5	56	93	2
L4600N-4600E	.7	1.35	33	<5	130	<10	.83	9	16	48	222	3.12	.11	.65	875	7	.05	60	.22	32	.04	<2	<2	35	<5	.02	<5	55	307	1
L4600N-4650E	.4	1.77	8	<5	295	<10	.55	<1	15	46	49	3.52	.10	.62	1060	1	.05	26	.31	25	.02	<2	<2	39	7	.02	<5	67	90	2
L4600N-4700E	.5	1.29	10	<5	139	<10	.90	<1	9	38	90	2.59	.07	.44	478	4	.05	20	.21	14	.05	<2	<2	33	<5	.03	<5	50	78	1
L4600N-4750E	.4	1.39	16	<5	148	<10	.55	1	15	61	58	3.32	.09	.68	751	7	.05	27	.19	23	.02	<2	<2	29	<5	.03	<5	63	105	2
L4700N-4400E	2.7	4.95	20	<5	222	19	.69	2	40	164	35	7.89	1.89	5.62	883	4	.04	152	.48	256	.09	<2	<2	28	<5	.17	<5	284	404	1
L4700N-4450E	.5	1.58	<5	<5	208	<10	.58	1	20	112	21	3.69	.23	1.02	673	2	.05	32	.31	18	.03	<2	<2	31	6	.06	<5	96	95	1
L4700N-4600E	.8	1.28	11	<5	242	<10	.40	2	21	56	23	3.20	.13	.60	1239	1	.05	23	.43	22	.02	<2	<2	31	<5	.04	<5	76	115	2
L4700N-4550E	1.4	1.53	20	<5	125	<10	.95	6	17	185	44	2.81	.08	.91	638	4	.04	35	.24	23	.03	<2	<2	32	7	.05	<5	66	154	3
L4700N-4600E	.3	1.35	<5	<5	175	<10	.75	<1	11	44	41	2.95	.06	.48	577	3	.05	21	.31	21	.03	<2	<2	37	<5	.03	8	58	62	4
L4700N-4650E	.6	1.50	<5	<5	184	<10	.74	<1	15	88	36	3.24	.12	.77	1005	6	.05	26	.21	24	.03	<2	<2	35	8	.03	8	76	85	13
L4700N-4700E	.2	1.73	21	<5	155	<10	.85	<1	19	148	30	3.13	.15	1.27	767	1	.06	48	.35	16	.01	<2	<2	56	<5	.04	<5	65	73	1
L4800N-4350E	.5	1.67	21	<5	136	<10	.25	<1	14	78	23	3.47	.08	.77	345	2	.05	26	.23	21	.02	<2	<2	26	<5	.05	<5	86	69	2
L4800N-4400E	3.1	.98	<5	<5	124	<10	.48	11	20	50	27	4.27	.11	.55	713	7	.04	18	.22	232	.05	<2	<2	22	<5	.08	<5	120	406	1
L4800N-4450E	2.1	1.77	<5	<5	113	<10	.41	5	69	114	147	4.94	.19	1.14	679	3	.04	50	.17	144	.09	<2	<2	22	<5	.10	<5	130	459	2
L4800N-4500E	.6	1.44	15	<5	160	<10	1.23	20	16	49	194	3.24	.10	.64	669	10	.05	30	.27	53	.04	<2	<2	46	<5	.03	<5	73	218	1
L4800N-4500E	.8	1.39	<5	<5	221	<10	.76	2	16	50	80	2.98	.07	.56	898	3	.04	24	.11	47	.03	<2	<2	39	<5	.03	<5	63	99	2
L4800N-4500E	.5	1.63	21	<5	262	<10	.71	<1	16	40	50	3.29	.10	.65	1238	4	.05	26	.25	28	.02	<2	<2	40	<5	.03	<5	67	146	1
L4900N-4250E	.6	1.88	11	<5	86	<10	.39	<1	18	154	37	3.20	.10	1.06	297	1	.04	45	.17	26	.01	<2	<2	21	<5	.05	6	81	63	2
L4900N-4500E	2.0	1.71	35	<5	228	<10	1.42	11	27	58	536	4.71	.14	1.00	1650	3	.05	62	.44	86	.07	<2	<2	58	<5	.02	<5	98	793	1
L4900N-4350E	2.7	1.60	12	<5	188	<10	.93	2	18	59	118	3.59	.12	.92	977	1	.04	28	.28	177	.05	<2	<2	47	<5	.03	<5	97	165	2
L4900N-4400E	.1	1.28	26	<5	134	<10	.69	<1	11	31	23	2.61	.06	.39	491	4	.04	17	.20	18	.03	<2	<2	42	<5	.03	<5	56	62	1
L4900N-4450E	.4	1.42	19	<5	182	<10	.66	<1	14	42	34	2.90	.09	.57	991	3	.05	21	.26	16	.02	5	<2	49	<5	.02	<5	59	92	2
L4900N-4500E	.3	1.27	11	<5	157	<10	.49	<1	13	35	27	2.80	.09	.53	749	2	.04	22	.23	18	.01	<2	<2	40	<5	.03	5	58	65	1
L4900N-4550E	.3	1.61	14	<5	248	<10	.67	1	16	42	40	3.52	.12	.68	802	4	.05	29	.33	22	.01	<2	<2	56	<5	.03	12	72	101	1
L4900N-4600E	.3	1.36	<5	<5	149	<10	.87	2	15	42	32	2.94	.10	.58	784	7	.05	25	.26	21	.02	<2	<2	49	<5	.02	<5	58	147	2
L4900N-5250E	.2	1.11	13	<5	144	<10	.27	<1	9	24	12	1.83	.05	.52	531	1	.04	18	.23	12	.01	<2	<2	30	<5	.03	<5	43	91	1

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
L4900N-5300E	1.1	1.44	<5	<5	84	<10	.22	3	9	48	35	2.45	.07	.60	307	2	.02	15	.28	52	.02	<2	<2	13	<5	.02	13	65	911	44
L4900N-5350E	.7	1.68	<5	<5	287	<10	.92	1	14	32	45	3.49	.08	.54	1145	2	.05	28	.27	28	.05	<2	<2	66	<5	.01	<5	56	128	4
L4900N-5400E	.2	1.34	22	<5	145	<10	.29	<1	8	26	51	2.77	.04	.42	345	1	.04	19	.20	17	.01	<2	<2	31	<5	.01	<5	52	56	1
L4900N-5450E	.5	1.43	<5	<5	134	<10	.11	<1	12	22	23	2.49	.03	.26	909	2	.04	14	.24	18	.02	<2	<2	13	<5	.01	<5	43	76	2
L4900N-5500E	.2	.91	<5	<5	182	<10	.35	<1	9	23	14	2.17	.07	.28	644	1	.04	14	.14	12	.01	<2	<2	35	<5	.01	<5	42	63	1
L5000N-4150E	1.2	1.50	33	<5	187	<10	.38	<1	32	35	86	7.22	.20	.61	1090	8	.04	28	.28	36	.09	<2	<2	25	<5	.03	<5	162	118	2
L5000N-4200E	.5	1.50	6	<5	127	<10	.36	<1	15	38	25	3.58	.09	.56	593	1	.04	25	.23	19	.01	<2	<2	26	<5	.02	<5	70	78	1
L5000N-4250E	.9	1.19	11	<5	120	<10	.21	1	16	41	24	3.15	.09	.50	419	2	.04	20	.19	67	.01	<2	<2	16	<5	.03	<5	72	101	2
L5000N-4300E	1.1	1.21	12	<5	199	<10	.25	6	28	52	40	3.39	.15	.57	1810	3	.05	23	.33	60	.02	<2	<2	20	<5	.04	<5	80	218	1
L5000N-4350E	.5	1.34	16	<5	211	<10	.61	1	19	80	37	3.20	.20	.86	972	1	.05	33	.39	21	.02	<2	<2	41	<5	.02	10	69	85	1
L5000N-4400E	.7	1.65	14	<5	284	<10	1.26	2	16	50	133	3.38	.07	.64	641	1	.05	29	.27	22	.06	<2	<2	58	<5	.01	<5	73	75	1
L5000N-4450E	1.7	1.32	12	<5	134	<10	.68	3	10	41	113	2.78	.06	.33	230	2	.04	20	.15	19	.06	<2	<2	43	<5	.02	<5	63	76	2
L5000N-4500E	.4	1.51	24	<5	233	<10	.80	1	20	52	61	3.16	.12	.75	938	1	.05	26	.31	21	.04	<2	<2	46	<5	.02	<5	73	88	1
L5000N-4550E	.1	.28	8	8	186	<10	5.31	1	2	7	169	.36	.08	.30	166	2	.04	9	.20	3	.20	<2	<2	175	<5	.01	<5	14	29	2
L5000N-5250E	.5	1.20	12	<5	156	<10	.33	<1	11	25	17	2.44	.05	.39	572	1	.04	17	.30	14	.01	<2	<2	34	<5	.02	<5	52	72	1
L5000N-5300E	.5	1.58	<5	<5	187	<10	.25	<1	13	28	29	2.58	.05	.46	461	2	.04	18	.19	20	.01	<2	<2	31	<5	.01	<5	54	68	3
L5000N-5350E	.2	1.58	23	<5	276	<10	.30	<1	13	25	14	2.55	.06	.33	962	1	.04	18	.26	16	.02	<2	<2	28	<5	.01	<5	50	105	1
L5000N-5400E	.2	1.19	<5	<5	133	<10	.09	<1	13	19	20	2.08	.03	.28	321	1	.04	10	.15	14	.01	<2	<2	14	<5	.01	<5	46	69	2
L5000N-5450E	.4	1.06	<5	<5	120	<10	.31	<1	20	37	15	2.55	.08	.33	987	2	.04	17	.13	11	.02	<2	<2	22	<5	.02	<5	57	57	1
L5000N-5500E	.4	1.39	25	<5	156	<10	.31	<1	16	38	24	2.88	.09	.49	921	1	.04	20	.28	21	.01	<2	<2	32	<5	.02	6	57	66	2
L5100N-4000E	.3	1.30	28	<5	131	<10	.13	<1	14	50	17	2.71	.03	.46	342	2	.04	16	.28	17	.01	<2	<2	17	<5	.02	<5	65	64	1
L5100N-4050E	.5	1.21	14	<5	158	<10	.41	<1	10	35	21	1.96	.04	.37	342	1	.04	13	.15	16	.01	<2	<2	23	<5	.01	<5	53	53	2
L5100N-4100E	1.2	4.24	7	<5	550	<10	1.03	1	19	52	109	4.11	.13	.57	1868	2	.05	43	.32	33	.05	<2	<2	61	<5	.01	<5	78	85	6
L5100N-4150E	.5	1.42	39	<5	139	<10	.24	<1	24	61	22	2.90	.16	.72	650	1	.04	26	.22	19	.02	<2	<2	20	6	.04	<5	84	74	9
L5100N-4200E	.5	1.49	23	<5	97	<10	.63	<1	22	60	34	4.05	.06	.82	428	4	.04	27	.18	17	.01	<2	<2	26	<5	.04	<5	121	51	8
L5100N-4250E	.8	1.61	19	<5	178	<10	.50	<1	30	58	50	4.58	.29	.95	871	1	.04	32	.20	20	.02	<2	<2	18	<5	.05	<5	172	81	4
L5100N-4300E	.7	1.49	25	<5	162	<10	.34	2	18	72	23	2.73	.10	.66	549	2	.04	27	.47	19	.01	<2	<2	30	<5	.03	6	66	129	1
L5100N-4350E	.5	1.84	<5	<5	335	<10	.87	<1	19	60	70	3.00	.13	.61	1444	1	.04	29	.29	21	.02	<2	<2	46	<5	.01	<5	66	108	2
L5100N-4400E	.4	1.38	<5	<5	181	<10	.39	<1	16	44	24	2.68	.08	.67	427	1	.05	21	.23	21	.01	<2	<2	31	<5	.03	<5	72	72	1
L5100N-4450E	.8	.84	<5	<5	370	<10	4.39	2	7	18	76	1.24	.07	.35	801	2	.05	16	.26	10	.17	<2	<2	191	<5	.01	<5	29	47	2
L5100N-4500E	.3	2.16	<5	<5	140	<10	.73	<1	38	361	13	2.67	.41	3.19	461	1	.04	105	.18	18	.01	<2	<2	41	<5	.04	<5	64	36	1
L5100N-5250E	.2	1.22	<5	<5	160	<10	.55	<1	11	25	18	2.27	.05	.41	549	2	.04	17	.12	15	.02	<2	<2	59	<5	.02	<5	48	64	1
L5100N-5300E	.4	2.76	18	<5	427	<10	1.11	<1	17	36	57	3.70	.11	.50	1341	1	.04	31	.24	24	.03	2	<2	62	<5	.01	13	69	106	2
L5100N-5350E	.3	1.58	6	<5	184	<10	.41	<1	16	31	26	2.60	.07	.41	482	1	.04	18	.29	17	.01	<2	<2	26	<5	.01	<5	69	87	4
L5100N-5400E	.7	3.08	45	<5	80	<10	.81	2	32	26	464	4.07	.04	1.41	564	2	.05	13	.15	30	.05	<2	<2	22	<5	.04	<5	62	1372	1
L5100N-5450E	.8	3.12	22	<5	43	<10	.29	<1	32	103	117	5.13	.09	1.66	431	4	.04	63	.44	23	.02	<2	<2	18	<5	.11	<5	143	191	2
L5100N-5500E	.3	.95	19	<5	109	<10	.20	<1	10	23	21	2.90	.06	.32	342	1	.03	13	.13	10	.01	<2	<2	18	<5	.02	<5	45	53	1
L5200N-3200E	.2	3.28	24	<5	330	<10	.98	<1	36	326	95	4.42	1.16	3.26	1114	1	.04	96	.64	37	.01	<2	<2	91	<5	.10	<5	154	79	1
L5200N-8250E	.3	1.66	33	<5	302	<10	.43	<1	16	70	55	2.78	.13	.70	1399	2	.05	31	.24	17	.01	<2	<2	46	<5	.02	10	63	90	3
L5200N-3300E	.5	2.09	28	<5	169	<10	.57	<1	21	234	89	3.22	.10	1.42	983	1	.04	47	.26	22	.01	<2	<2	56	<5	.04	<5	119	46	1

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
L5200N-3350E	.4	2.27	19	<5	181	<10	.75	<1	31	96	123	4.01	.13	1.02	1613	2	.04	34	.44	48	.04	4	<2	41	<5	.02	<5	124	106	2
L5200N-3400E	.6	2.03	13	<5	270	<10	.85	<1	51	61	327	4.97	.09	.71	2653	5	.05	30	.45	24	.06	<2	<2	66	<5	.02	8	108	70	3
L5200N-3450E	.5	1.84	11	<5	172	<10	.50	<1	17	44	121	3.57	.10	.70	1091	1	.05	27	.20	24	.01	<2	<2	37	<5	.02	<5	79	66	2
L5200N-3500E	.4	2.40	39	<5	202	<10	.62	<1	79	61	25	6.45	.50	1.61	829	2	.04	31	.59	25	.31	<2	<2	38	<5	.12	<5	300	54	1
L5200N-3550E	.6	1.75	<5	<5	150	<10	.34	<1	26	37	29	3.37	.13	.63	723	1	.05	22	.30	22	.03	<2	<2	28	<5	.03	<5	94	70	3
L5200N-3600E	.4	1.67	<5	<5	144	<10	.36	<1	24	36	28	3.38	.11	.62	724	2	.05	21	.26	21	.02	<2	<2	30	<5	.03	6	95	66	1
L5200N-3650E	.3	2.47	9	<5	109	<10	.64	<1	22	99	90	3.53	.22	1.59	398	1	.05	41	.70	18	.01	<2	<2	28	<5	.09	8	142	58	1
L5200N-3700E	1.3	1.21	22	<5	317	<10	1.58	<1	35	30	417	5.59	.17	.48	2026	4	.04	28	.88	28	.11	<2	<2	74	<5	.01	22	90	123	1
L5200N-3750E	.8	2.09	9	<5	259	<10	.90	<1	19	53	52	3.61	.16	1.02	1719	2	.05	28	.26	23	.02	<2	<2	47	<5	.03	<5	111	90	2
L5200N-3800E	.8	3.16	5	<5	172	<10	.51	2	40	166	90	5.71	.32	2.26	2473	1	.04	58	.34	54	.03	<2	<2	26	<5	.13	<5	277	276	1
L5200N-3850E	.5	1.74	<5	<5	305	<10	5.01	1	28	44	141	5.01	.19	1.18	1568	2	.05	35	.37	28	.08	<2	<2	149	<5	.03	<5	132	106	2
L5200N-3900E	.8	1.72	16	<5	145	<10	.43	<1	18	50	39	3.68	.15	.91	730	1	.05	19	.45	18	.01	3	<2	25	<5	.08	8	129	109	2
L5200N-3950E	.5	1.50	13	<5	145	<10	.36	<1	15	45	27	2.76	.05	.58	541	2	.05	21	.23	22	.02	<2	<2	31	<5	.03	<5	74	67	4
L5200N-4000E	.8	2.06	21	<5	272	<10	1.01	1	20	58	99	3.42	.12	.84	840	1	.05	29	.47	133	.05	<2	<2	58	<5	.02	12	90	242	2
L5200N-4050E	.4	1.52	<5	<5	128	<10	.30	<1	16	39	40	2.84	.08	.63	414	1	.05	21	.18	22	.01	<2	<2	29	<5	.02	<5	77	62	2
L5200N-4100E	.5	3.36	46	<5	227	<10	.99	<1	38	89	49	5.45	.53	2.78	1081	1	.04	49	.42	26	.03	<2	<2	42	<5	.06	10	282	94	3
L5200N-4150E	.8	2.24	17	<5	188	<10	.62	<1	24	77	83	4.29	.14	1.02	1083	2	.05	41	.31	39	.02	2	<2	29	<5	.03	<5	142	123	1
L5200N-4200E	.2	1.56	10	<5	145	<10	.44	<1	21	45	52	3.08	.13	.78	789	4	.05	24	.29	25	.02	<2	<2	31	<5	.04	6	89	71	2
L5300N-3260E	.3	1.28	8	<5	247	<10	.37	<1	16	72	27	2.45	.03	.45	1677	1	.05	21	.63	19	.02	<2	<2	38	<5	.02	10	56	92	1
L5300N-3250E	.5	1.74	11	<5	250	<10	.44	<1	17	72	42	2.83	.10	.67	1171	2	.05	28	.33	21	.02	<2	<2	64	<5	.02	11	56	74	1
L5300N-3300E	.4	2.20	22	<5	304	<10	.55	<1	24	130	82	3.79	.10	1.20	2348	1	.05	38	.77	23	.02	<2	<2	54	<5	.02	15	78	103	1
L5300N-3350E	.6	2.87	26	<5	205	<10	.54	<1	69	143	397	6.69	.28	2.24	2123	3	.04	52	.66	28	.11	3	<2	34	11	.05	22	104	64	2
L5300N-3400E	.1	1.68	<5	<5	167	<10	.61	<1	14	34	109	2.86	.09	.47	909	1	.05	19	.13	20	.01	<2	<2	52	<5	.02	<5	51	56	1
L5300N-3450E	.4	2.42	16	<5	187	<10	.57	<1	27	44	46	4.23	.07	1.68	608	2	.06	50	.56	22	.01	<2	<2	45	<5	.14	<5	113	73	2
L5300N-3500E	.5	1.32	<5	<5	132	<10	.20	<1	17	28	36	2.79	.08	.38	641	2	.05	15	.14	11	.01	<2	<2	22	<5	.02	<5	63	54	5
L5300N-3550E	.6	1.90	22	<5	130	<10	.29	<1	39	56	24	4.86	.17	1.20	453	1	.05	28	.22	22	.10	<2	<2	23	<5	.06	6	140	62	7
L5300N-3600E	.2	1.09	16	<5	131	<10	.20	<1	18	38	14	2.92	.07	.47	1067	2	.05	14	.16	18	.01	<2	<2	19	<5	.05	<5	66	57	4
L5300N-3650E	.7	3.30	28	<5	187	<10	.75	<1	36	398	49	5.37	.13	2.04	490	1	.05	121	.25	28	.02	<2	<2	62	<5	.11	<5	166	108	1
L5300N-3700E	.7	1.94	27	<5	248	<10	.65	<1	31	46	80	3.80	.15	.65	670	2	.05	26	.21	26	.03	<2	<2	47	<5	.02	<5	96	91	2
L5300N-3750E	.4	1.02	<5	<5	231	<10	.25	1	15	42	14	3.11	.10	.42	951	1	.05	16	.40	41	.01	<2	<2	13	<5	.03	<5	82	128	3
L5300N-3800E	.5	1.20	<5	<5	107	<10	.22	<1	13	54	16	2.89	.07	.53	267	2	.05	19	.23	19	.02	<2	<2	19	<5	.03	<5	84	76	5
L5300N-3850E	.4	.91	<5	<5	73	<10	.21	<1	13	48	14	3.33	.04	.47	235	1	.05	20	.27	17	.01	<2	<2	12	<5	.05	10	101	65	4
L5300N-3900E	.4	2.21	23	<5	161	<10	1.06	2	25	95	72	3.85	.13	1.39	1043	2	.05	28	.30	35	.04	<2	<2	99	<5	.06	<5	111	121	3
L5300N-3950E	.4	1.84	29	<5	75	<10	.14	<1	24	70	39	3.34	.05	.93	328	2	.04	27	.13	17	.01	<2	<2	13	<5	.07	<5	97	116	1
L5300N-4000E	.3	2.33	<5	<5	188	<10	.56	<1	25	80	50	3.78	.11	1.06	859	1	.05	31	.26	27	.03	<2	<2	44	<5	.03	13	108	53	2
L5300N-4050E	.4	1.58	<5	<5	150	<10	.44	<1	22	49	52	3.85	.10	.80	623	2	.05	22	.58	21	.05	<2	<2	25	<5	.04	13	125	74	1
L5300N-4100E	.3	1.38	<5	<5	90	<10	.31	<1	14	40	19	2.70	.07	.51	492	1	.05	19	.13	18	.01	2	<2	29	<5	.03	<5	60	62	2
L5400N-3200E	.8	1.96	<5	<5	323	<10	.63	<1	15	34	42	3.13	.14	.46	1035	2	.05	23	.23	25	.02	<2	<2	103	<5	.01	<5	54	105	24
L5400N-3250E	.4	2.15	18	<5	360	<10	.80	<1	20	137	70	3.26	.19	1.07	1262	1	.05	39	.28	19	.02	2	<2	99	<5	.03	<5	73	60	1
L5400N-3300E	.5	1.86	13	<5	184	<10	.23	<1	19	132	23	3.28	.08	1.02	541	3	.05	29	.31	20	.01	<2	<2	22	<5	.05	<5	82	74	2

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
L5400N-3350E	.8	2.53	53	<5	149	<10	.44	<1	83	35	185	7.18	.22	1.52	1523	5	.05	16	.42	33	.13	4	<2	29	<5	.09	10	239	59	8
L5400N-3400E	.5	2.66	14	<5	102	<10	.41	<1	36	98	75	4.40	.15	1.76	725	2	.05	28	.20	34	.07	<2	<2	34	<5	.06	<5	152	67	6
L5400N-3450E	.4	2.14	9	<5	166	<10	.55	<1	29	67	44	3.38	.19	1.15	913	1	.05	25	.32	29	.07	<2	<2	37	<5	.04	11	114	54	5
L5400N-3500E	.5	2.84	25	<5	138	<10	.47	<1	49	44	45	5.36	.36	1.93	753	2	.04	24	.72	25	.07	<2	<2	22	<5	.10	8	244	55	8
L5400N-3550E	1.2	2.21	<5	<5	257	<10	.27	<1	121	102	576	7.90	.38	1.25	587	6	.05	38	.63	62	.14	<2	<2	37	<5	.12	<5	207	75	8
L5400N-3600E	.5	3.41	<5	<5	201	<10	.79	<1	40	19	65	5.89	.23	2.14	1039	1	.04	30	.92	48	.02	<2	<2	48	<5	.12	19	226	125	1
L5400N-3650E	.5	2.22	<5	<5	108	<10	.22	<1	24	40	38	4.02	.06	.63	480	2	.05	18	.37	17	.01	<2	<2	20	<5	.04	15	120	87	1
L5400N-3700E	3.8	1.69	17	<5	107	<10	.42	<1	21	34	29	3.99	.12	.73	386	1	.04	17	.25	26	.02	<2	<2	22	<5	.05	<5	130	79	4
L5400N-3750E	.1	1.30	<5	<5	109	<10	.16	<1	13	42	17	2.95	.06	.49	267	2	.05	18	.36	18	.01	<2	<2	13	<5	.05	<5	67	74	6
L5400N-3800E	1.0	2.92	18	<5	179	<10	.63	<1	42	89	76	5.50	.36	2.06	433	2	.05	37	.62	30	.04	<2	<2	22	<5	.11	13	245	119	7
L5400N-3850E	3.4	1.66	25	<5	138	<10	.21	<1	21	79	42	3.18	.07	.78	423	3	.05	25	.28	32	.02	<2	<2	21	<5	.04	9	89	105	4
L5400N-3900E	.4	1.69	<5	<5	232	<10	1.02	1	20	40	55	2.76	.09	.64	1813	1	.05	22	.35	26	.04	<2	<2	110	<5	.01	5	52	121	7
L5400N-3950E	.3	1.82	15	<5	68	<10	.35	<1	18	187	18	2.51	.06	1.14	266	2	.05	43	.38	22	.01	3	<2	14	<5	.04	<5	75	49	6
L5400N-4000E	.3	2.12	6	<5	114	<10	.34	<1	25	95	46	3.12	.06	1.10	564	1	.04	34	.49	23	.01	<2	<2	19	<5	.04	19	95	60	1
L5400N-4050E	.5	3.01	41	<5	130	<10	.37	<1	40	275	35	5.04	.18	2.29	440	2	.04	76	.38	28	.01	<2	<2	21	<5	.13	15	195	80	2
L5400N-4100E	.2	3.04	39	<5	105	<10	.65	<1	30	271	29	3.88	.10	2.48	391	1	.04	79	.65	22	.01	<2	<2	24	<5	.15	8	131	59	1
L5500N-3200E	.2	1.57	29	<5	239	<10	.61	<1	15	30	21	2.66	.12	.50	648	2	.05	19	.11	18	.02	<2	<2	105	<5	.02	<5	50	68	2
L5500N-3250E	.3	1.74	9	<5	254	<10	.32	<1	16	62	20	2.76	.14	.66	802	1	.05	30	.65	19	.01	<2	<2	46	<5	.03	25	53	115	1
L5500N-3300E	.8	1.69	13	<5	164	<10	.18	2	17	79	30	2.77	.07	.48	848	2	.05	22	.21	23	.01	<2	<2	23	<5	.03	9	63	49	2
L5500N-3350E	.6	1.51	8	<5	131	<10	.37	<1	16	35	54	2.75	.09	.49	646	2	.01	19	.17	23	.01	<2	<2	35	<5	.02	<5	57	71	1
L5500N-3400E	1.7	4.13	88	<5	178	<10	.55	<1	173	336	427	7.76	1.55	2.77	1262	2	.05	107	.59	109	.06	<2	<2	37	<5	.20	17	260	139	1
L5500N-3450E	1.8	3.10	<5	<5	127	<10	.40	<1	170	203	782	7.93	.36	1.86	1741	3	.04	79	.62	168	.16	<2	<2	23	<5	.08	15	213	179	3
L5500N-3500E	.4	1.33	<5	<5	132	<10	.27	<1	13	43	25	2.29	.06	.49	361	1	.05	19	.26	23	.01	<2	<2	25	<5	.02	5	49	68	2
L5500N-3550E	.5	1.58	11	<5	139	<10	.23	<1	17	30	34	2.68	.18	.70	722	2	.05	19	.40	22	.01	<2	<2	24	<5	.04	8	61	62	1
L5500N-3600E	.5	1.72	<5	<5	125	<10	.20	<1	29	67	112	3.21	.08	.94	711	1	.05	31	.11	24	.01	<2	<2	24	<5	.06	<5	110	76	2
L5500N-3650E	.5	2.78	30	<5	127	<10	.52	<1	70	89	239	3.96	.24	2.13	663	3	.05	45	.26	27	.03	<2	<2	32	<5	.10	<5	158	78	3
L5500N-3700E	.5	1.81	30	<5	101	<10	.50	<1	22	36	99	4.16	.09	.95	522	1	.05	26	.33	23	.02	<2	<2	26	<5	.05	<5	117	72	2
L5500N-3750E	1.1	1.52	<5	<5	221	<10	.40	<1	20	33	40	3.32	.09	.63	1838	2	.05	23	.27	22	.01	<2	<2	30	<5	.02	<5	78	126	1
L5500N-3800E	.5	1.48	<5	<5	281	<10	.50	<1	26	37	47	3.76	.13	.61	1780	2	.05	26	.45	25	.05	5	<2	39	<5	.01	16	86	127	4
L5500N-3850E	.5	.88	<5	<5	181	<10	.22	<1	19	29	19	2.57	.09	.32	1359	2	.05	12	.29	20	.03	<2	<2	20	<5	.03	7	66	91	3
L5500N-3900E	.3	1.53	11	<5	124	<10	.44	<1	16	79	26	2.98	.08	.89	309	1	.05	31	.49	17	.02	3	<2	33	<5	.04	19	82	65	1
L5500N-3950E	.4	1.35	15	<5	90	<10	.33	<1	23	62	14	4.53	.11	1.13	359	2	.05	28	.33	20	.02	<2	<2	15	<5	.09	<5	153	64	2
L5500N-4000E	.7	1.68	<5	<5	76	<10	.58	<1	23	215	25	2.59	.08	1.52	321	1	.04	64	.62	19	.02	<2	<2	28	<5	.08	5	70	54	1
L5500N-4050E	.5	2.23	<5	<5	85	<10	.91	<1	31	409	42	3.95	.27	2.58	523	2	.04	65	.54	29	.03	<2	<2	35	<5	.12	9	147	63	2
L5500N-4100E	.3	.60	<5	<5	22	<10	.28	<1	10	85	4	.79	.04	.77	114	1	.04	25	.12	7	.01	<2	<2	9	<5	.05	<5	19	42	1
L5600N-3200E	.2	1.32	13	<5	202	<10	.59	<1	13	37	31	2.85	.12	.56	703	2	.05	21	.17	20	.01	<2	<2	76	<5	.02	5	56	88	2
L5600N-3250E	.1	.96	<5	<5	149	<10	4.00	<1	11	21	77	2.33	.08	.45	844	1	.05	19	.34	14	.04	<2	<2	165	<5	.02	10	46	77	1
L5600N-3300E	.3	1.08	<5	<5	116	<10	.16	<1	10	21	13	2.37	.07	.36	353	2	.05	14	.24	13	.01	<2	<2	20	<5	.03	<5	46	118	2
L5600N-3350E	.8	1.73	<5	<5	140	<10	.31	2	34	59	68	4.07	.17	.63	973	3	.06	28	.23	20	.02	<2	<2	36	<5	.05	<5	94	71	1
L5700N-3250E	.1	1.23	<5	<5	131	<10	.72	<1	13	25	21	2.94	.10	.52	815	1	.05	18	.19	20	.03	<2	<2	58	<5	.02	<5	56	86	2

ELEMENT	Ag	Al	As	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sn	Sr	Te	Ti	Tl	V	Zn	Au*
SAMPLE	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb
L5700N-3300E	.4	1.41	12	<5	126	<10	.67	<1	15	28	26	3.16	.14	.57	942	2	.05	25	.22	21	.02	<2	<2	61	<5	.02	<5	58	88	3
L5700N-3350E	.3	1.83	73	<5	223	<10	.69	<1	33	53	122	4.07	.16	.88	1068	4	.06	42	.30	36	.01	3	<2	57	<5	.02	<5	77	124	1
L5700N-3400E	.7	2.28	24	<5	160	<10	.61	<1	67	61	122	6.08	.50	1.23	847	3	.05	35	.62	67	.04	<2	<2	41	<5	.06	<5	159	117	2
L5800N-3400E	.7	1.95	18	<5	204	<10	.65	2	57	56	432	4.18	.20	.96	1530	4	.05	51	.39	38	.02	5	<2	66	<5	.04	<5	101	194	1
L5800N-3450E	.1	1.44	10	<5	262	<10	1.50	<1	17	29	35	3.21	.12	.61	1031	3	.06	27	.27	21	.02	<2	<2	73	<5	.02	9	60	99	2
L5800N-3500E	.8	1.34	21	<5	144	<10	.30	<1	28	26	121	3.04	.31	.52	450	12	.05	17	.30	20	.04	2	<2	30	<5	.05	22	78	104	1
L5800N-3550E	.3	.90	<5	<5	161	<10	.18	<1	9	22	12	2.08	.10	.26	720	2	.05	11	.26	19	.01	<2	<2	21	<5	.02	<5	45	87	2
L5900N-3400E	.3	1.13	7	<5	122	<10	.77	<1	9	22	36	2.48	.08	.40	500	1	.05	16	.18	12	.03	<2	<2	62	<5	.01	<5	46	79	1
L5900N-3450E	.2	1.37	<5	<5	143	<10	.97	<1	15	21	35	2.70	.11	.42	978	11	.05	18	.23	20	.04	<2	<2	74	<5	.01	<5	46	182	2
L5900N-3500E	.1	1.37	<5	<5	108	<10	.80	<1	9	22	33	1.89	.11	.50	264	4	.05	14	.29	19	.08	<2	<2	59	<5	.02	<5	40	212	4
L5900N-3550E	.1	1.32	<5	<5	126	<10	.54	<1	14	29	102	3.10	.13	.44	922	20	.06	22	.08	20	.02	<2	<2	58	<5	.04	<5	65	75	6
L6000N-3400E	.1	1.20	<5	<5	149	<10	.59	<1	11	23	15	2.72	.07	.40	538	1	.06	16	.18	13	.02	2	<2	56	<5	.05	<5	56	86	1
L6000N-3450E	.1	1.53	<5	<5	162	<10	.97	<1	15	24	85	2.59	.13	.53	611	30	.05	19	.33	18	.06	<2	<2	100	<5	.02	<5	49	121	2
L6000N-3500E	.2	1.29	<5	<5	137	<10	1.02	<1	10	23	46	2.51	.08	.38	649	12	.05	20	.19	17	.04	<2	<2	118	<5	.02	<5	50	101	18
L6000N-3550E	.4	.98	<5	<5	123	<10	.43	2	9	21	14	2.21	.07	.33	378	3	.05	11	.18	19	.01	<2	<2	45	<5	.04	12	50	118	8
L6000N-3600E	5.0	1.22	16	<5	150	<10	.58	<1	13	23	17	2.61	.08	.39	706	6	.05	16	.12	19	.02	2	<2	57	<5	.03	<5	52	97	3
L6000N-3650E	.1	.33	<5	<5	48	<10	.14	<1	3	7	5	.70	.02	.12	258	1	.02	5	.04	5	.01	<2	<2	17	<5	.01	<5	15	38	26
L6100N-3500E	.3	1.49	<5	<5	178	<10	.50	<1	10	24	20	2.84	.12	.44	456	9	.06	19	.12	25	.02	<2	<2	56	<5	.02	<5	52	109	4
L6100N-3550E	.2	1.98	<5	<5	280	<10	.92	<1	18	31	32	3.71	.16	.61	1849	21	.06	26	.29	28	.04	<2	<2	90	<5	.01	14	68	166	1
L6100N-3600E	.1	1.26	<5	<5	150	<10	.66	<1	9	24	23	2.37	.06	.39	517	3	.05	18	.20	17	.04	<2	<2	63	<5	.03	<5	53	78	1
L6100N-3650E	.5	1.64	<5	<5	227	<10	1.89	1	17	72	335	3.08	.13	.78	683	4	.06	40	.48	27	.14	<2	<2	157	<5	.02	5	71	117	6
L6100N-3700E	.8	1.77	14	<5	262	<10	1.41	1	22	77	419	3.59	.11	.75	936	6	.05	42	.52	24	.09	<2	<2	123	<5	.01	17	74	123	8
L6100N-3750E	.4	1.93	<5	<5	268	<10	.47	<1	18	50	41	3.53	.13	.73	770	63	.05	31	.26	28	.01	<2	<2	57	<5	.01	<5	64	92	4
L6100N-3800E	3.1	1.46	21	<5	180	<10	.53	<1	29	50	100	4.70	.14	.84	1406	25	.05	48	.38	87	.03	3	<2	34	<5	.04	<5	100	150	79
L6100N-3850E	2.9	1.59	15	<5	189	<10	.76	<1	16	31	85	3.48	.17	.58	890	11	.05	30	.35	23	.02	<2	<2	52	<5	.01	<5	65	94	4
L6200N-3500E	.2	1.16	6	<5	176	<10	.59	<1	14	25	18	2.76	.07	.46	1591	10	.05	18	.26	37	.02	<2	<2	62	<5	.03	10	55	117	1
L6200N-3550E	.3	1.17	25	<5	179	<10	.71	<1	11	23	62	2.56	.08	.41	609	4	.05	17	.13	39	.03	<2	<2	70	<5	.02	<5	52	102	2
L6200N-3600E	.3	1.38	<5	<5	206	<10	.84	<1	10	26	49	2.04	.08	.46	206	3	.05	20	.41	21	.04	3	<2	76	<5	.02	7	44	118	1
L6200N-3600E	.4	1.29	12	<5	241	<10	1.81	<1	15	26	235	1.95	.10	.38	627	7	.05	26	.47	35	.23	<2	<2	141	<5	.01	9	47	108	2
L6200N-3700E	.3	.82	<5	<5	99	<10	.53	<1	9	18	34	1.99	.05	.33	290	3	.05	12	.21	27	.06	<2	<2	36	<5	.03	9	46	85	1
L6200N-3750E	.2	.95	6	<5	134	<10	.23	<1	5	17	10	1.69	.03	.29	154	1	.04	9	.15	14	.02	<2	<2	31	<5	.01	10	40	61	1
L6300N-3600E	.1	.54	<5	8	212	<10	3.98	1	3	12	356	.69	.04	.29	305	10	.05	13	.27	8	.68	<2	<2	260	<5	.01	<5	20	54	2
L6300N-3550E	.3	.88	<5	<5	135	<10	.52	<1	8	20	30	1.84	.06	.33	374	11	.05	15	.11	19	.03	<2	<2	42	<5	.03	<5	45	56	1
L6300N-3600E	.2	1.31	<5	<5	183	<10	.60	<1	14	29	25	2.80	.10	.46	648	15	.06	19	.24	25	.02	<2	<2	47	<5	.04	<5	62	69	2
L6300N-3650E	.2	1.22	15	<5	149	<10	.36	<1	14	25	16	2.58	.09	.45	827	4	.05	18	.19	19	.01	<2	<2	41	<5	.03	<5	56	65	1
L6300N-3700E	.2	1.32	<5	<5	228	<10	.42	2	11	29	16	2.57	.09	.54	589	2	.06	16	.31	17	.01	<2	<2	53	<5	.03	<5	57	67	7
L6300N-3750E	.1	1.01	11	<5	134	<10	.40	<1	8	21	21	1.88	.07	.40	332	1	.05	14	.20	16	.03	<2	<2	42	<5	.03	7	47	50	6
ELD-10-AR-51	.4	.89	<5	<5	39	<10	7.86	<1	62	62	523	4.70	.19	3.11	892	55	.06	38	.32	21	2.10	<2	<2	179	<5	.06	<5	160	64	6
ELD-10-AR-52	.1	.48	35	<5	59	<10	9.55	<1	25	95	33	3.48	.21	2.67	1606	293	.04	30	.20	30	1.63	<2	<2	200	<5	.01	<5	62	91	5
ELD-10-AR-53	.1	1.16	<5	<5	43	<10	6.38	<1	10	85	19	3.36	.20	2.54	2527	5	.04	44	.35	24	1.10	<2	<2	154	<5	.02	<5	141	76	4

ELEMENT SAMPLE	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P %	Pb ppm	S %	Sb ppm	Sn ppm	Sr ppm	Te ppm	Ti %	Tl ppm	V ppm	Zn ppm	Au* ppb
ELD-10-AR-54	16.1	2.01	80	<5	12	<10	5.01	5	143	46	3911	6.02	.13	2.99	1175	3	.06	61	.89	233	1.64	<2	<2	131	<5	.01	33	150	286	1
ELD-10-AR-55	6.3	2.52	38	<5	58	<10	5.41	3	237	58	1925	7.58	.47	2.96	1571	24	.05	45	1.15	119	4.17	<2	<2	135	<5	.05	8	259	219	1
ELD-10-AR-56	2.7	2.91	28	<5	88	<10	4.86	<1	47	204	770	4.93	.33	3.30	1469	7	.05	68	.86	122	.51	<2	<2	130	<5	.04	37	186	143	3
ELD-10-AR-57	6.0	2.59	72	<5	96	<10	2.19	<1	232	111	1175	7.09	.40	2.64	1017	9	.05	212	.68	116	1.85	<2	<2	43	<5	.04	<5	208	138	16
ELD-10-AR-58	4.0	1.71	85	<5	25	<10	6.73	2	140	85	1000	6.15	.10	2.14	1440	5	.05	62	.82	133	1.65	<2	<2	124	<5	.01	18	169	168	2
ELD-10-AR-59	2.0	.35	20	<5	50	<10	9.08	<1	23	106	203	3.10	.14	1.39	1921	6	.04	33	.14	32	2.36	8	<2	198	<5	.01	<5	62	59	1
ELD-10-AR-60	.1	.51	<5	<5	33	<10	8.92	1	80	21	152	5.63	.47	3.06	1303	4	.04	24	.06	16	2.60	<2	<2	197	<5	.01	<5	98	86	1
ELD-10-AR-61	.3	.81	40	<5	86	<10	1.46	<1	20	90	52	6.07	.33	1.00	445	55	.11	30	.22	9	.06	<2	<2	25	<5	.25	<5	274	46	3
ELD-10-AR-62	.2	.25	54	<5	37	<10	9.72	1	43	26	182	7.89	.19	3.31	2210	4	.04	33	.30	19	1.93	<2	<2	240	<5	.01	<5	129	127	1
ELD-10-AR-63	.8	2.10	<5	<5	260	<10	1.15	<1	19	88	913	4.19	1.65	1.90	581	43	.09	32	.34	17	.84	<2	<2	24	<5	.20	<5	178	95	1
ELD-10-AR-64	2.5	2.09	95	<5	79	<10	4.86	2	69	76	1411	7.98	.93	3.44	1156	61	.05	108	.90	34	4.95	2	<2	161	<5	.09	13	257	102	3
ELD-10-AR-65	1.6	3.09	<5	<5	219	<10	8.56	<1	15	42	1445	5.67	1.82	2.70	582	48	.06	16	.89	25	1.03	<2	<2	74	<5	.17	9	328	75	9
ELD-10-AR-66	.3	1.99	<5	<5	56	<10	5.46	<1	223	88	123	5.88	.09	2.59	1073	4	.05	46	.36	18	4.13	<2	<2	123	<5	.01	<5	136	76	5
ELD-10-AR-67	.1	2.27	<5	<5	201	<10	3.81	<1	30	61	28	4.54	1.23	2.53	898	1	.05	30	.32	18	.19	<2	<2	80	<5	.11	6	269	71	1
ELD-10-AR-68	.1	2.04	<5	<5	297	<10	5.62	<1	51	70	57	6.04	1.73	1.94	712	2	.05	30	.63	19	.51	<2	<2	153	<5	.19	12	303	46	1
ELD-10-AR-69	.1	1.19	<5	<5	134	<10	3.68	<1	21	56	27	4.21	.59	1.52	585	1	.05	26	.37	15	.02	<2	<2	91	<5	.11	<5	203	33	2
ELD-10-AR-70	.7	.51	8	<5	84	<10	.73	<1	27	75	176	6.19	.39	.69	139	2	.05	40	.08	29	2.36	<2	<2	15	<5	.36	<5	169	45	1

Appendix B 3 pages total

sample no	width	easting	northing	elev (m)	lithology	minerals
ELD-10-AR-51	24 cm	333728	6056056	913	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-52	43 cm	333743	6056077	911	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-53	30 cm	333746	6056051	920	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-54	38 cm	333358	6055700	902	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-55	60 cm	333370	6055710	909	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-56	24 cm	333333	6055607	940	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-57	subcrop	333436	6055708	1044	Chlorite schist	pyrite-chalcopyrite
ELD-10-AR-58	subcrop	333490	6055847	912	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-59	30 cm	333671	6055942	914	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-60	20 cm	333629	6055912	920	Chlorite schist	pyrite-chalcopyrite-sphalerite
ELD-10-AR-61	subcrop	333625	6055880	930	Chlorite schist	pyrite-magnetite
ELD-10-AR-62	subcrop	333637	6055888	935	Chlorite schist	pyrite
ELD-10-AR-63	subcrop	333621	6055796	960	Chlorite schist	pyrite
ELD-10-AR-64	subcrop	333710	6055780	982	Chlorite schist	pyrite
ELD-10-AR-65	subcrop	333735	6055730	992	Chlorite schist	pyrite
ELD-10-AR-66	subcrop	333490	6055655	992	Chlorite schist	pyrite
ELD-10-AR-67	subcrop	333568	6055577	1015	Chlorite schist	pyrite-magnetite
ELD-10-AR-68	subcrop	333779	6055629	1034	Chlorite schist	pyrite
ELD-10-AR-69	subcrop	333655	6055805	1011	Chlorite schist	pyrite-magnetite
ELD-10-AR-70	subcrop	334369	6054900	1047	Chlorite schist	pyrite-chalcopyrite

Sample No.	alteration
ELD-10-AR-51	qtz-biotite-K feldspar-sericite-kaolinite-calcite-ankerite-muscovite
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ELD-10-AR-53	qtz-biotite-K feldspar-sericite-kaolinite-calcite-ankerite-muscovite
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ELD-10-AR-70	qtz-biotite-K feldspar-sericite-kaolinite-calcite-ankerite-muscovite

description	Sample No.	ppm Cu	ppm Pb	ppm Zn	ppm Ag	ppb Au
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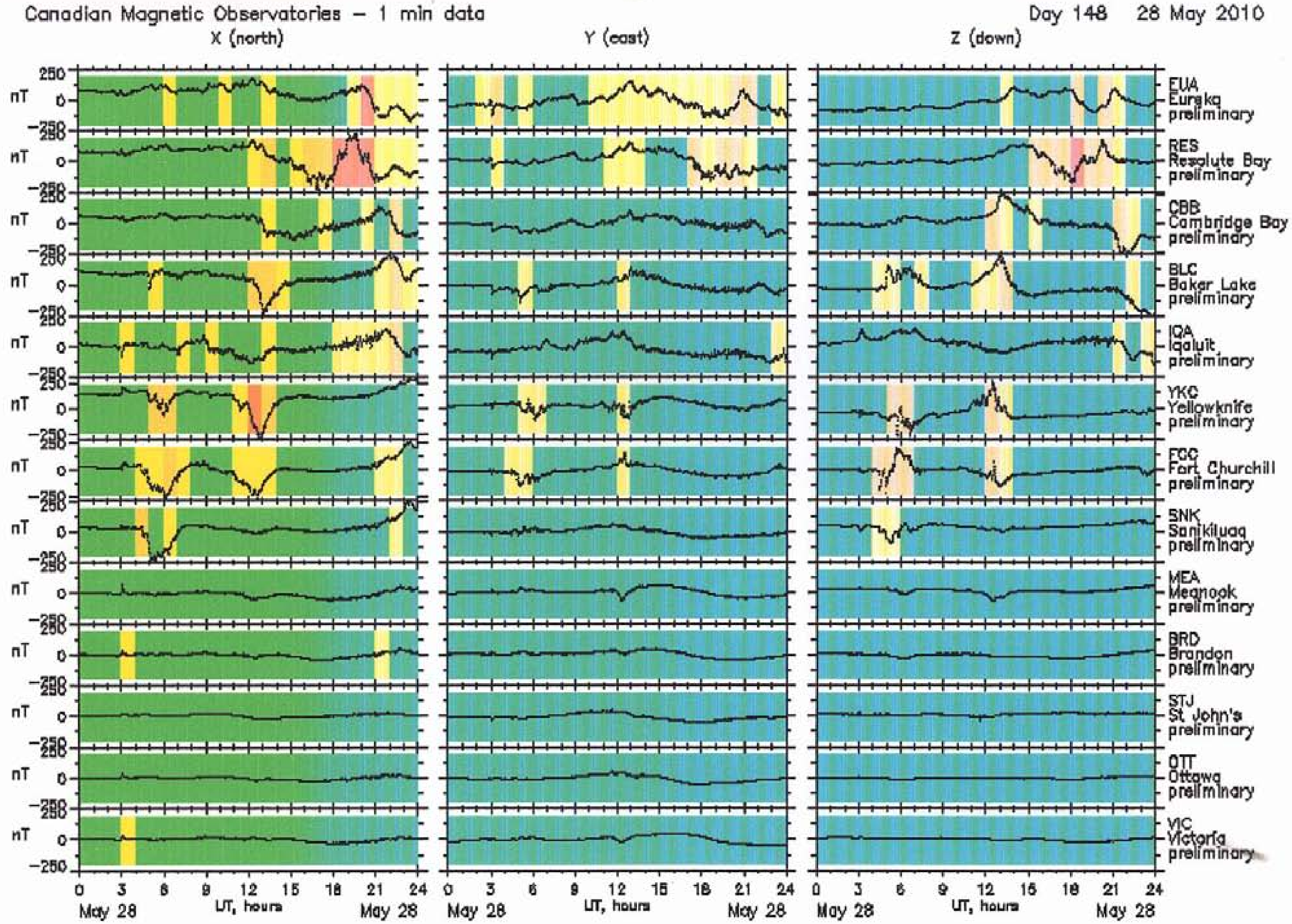
roadcut	ELD-10-AR-52	33	30	91	0.1	5
roadcut	ELD-10-AR-53	19	24	76	0.1	4
roadcut	ELD-10-AR-54	3911	233	286	16.1	1
roadcut	ELD-10-AR-55	1925	119	219	6.3	1
50 m above roadcut,uproot tree stump	ELD-10-AR-56	770	122	143	2.7	3
on L 5700 N, stn 3436 E near slope	ELD-10-AR-57	1175	116	138	6	16
roadcut	ELD-10-AR-58	1000	133	168	4	2
roadcut	ELD-10-AR-59	203	32	59	2	1
roadcut	ELD-10-AR-60	152	16	86	0.1	1
near L 5900 N, stn 3600 E, wk mag	ELD-10-AR-61	52	9	46	0.3	3
near L 5900 N, stn 3650 E	ELD-10-AR-62	182	19	127	0.2	1
near L 5800 N, stn 3600 E	ELD-10-AR-63	913	17	95	0.8	1
near L 5800 N, stn 3750 E	ELD-10-AR-64	1411	34	102	2.5	3
near L 5700 N, stn 3750 E	ELD-10-AR-65	1445	25	75	1.6	9
near L 5600 N, stn 3450 E	ELD-10-AR-66	123	18	76	0.3	5
near L 5600 N, stn 3550 E, wk mag	ELD-10-AR-67	28	18	71	0.1	1
near L 5600 N, stn 3800 E	ELD-10-AR-68	57	19	46	0.1	1
near L 5800 N, stn 3650 E,breccia zone	ELD-10-AR-69	27	15	33	0.1	2
outcrop in clearcut, L 4900 N, 4369 E	ELD-10-AR-70	176	29	45	0.7	1



Magnetometer Survey Data
Appendix C 19 pages total

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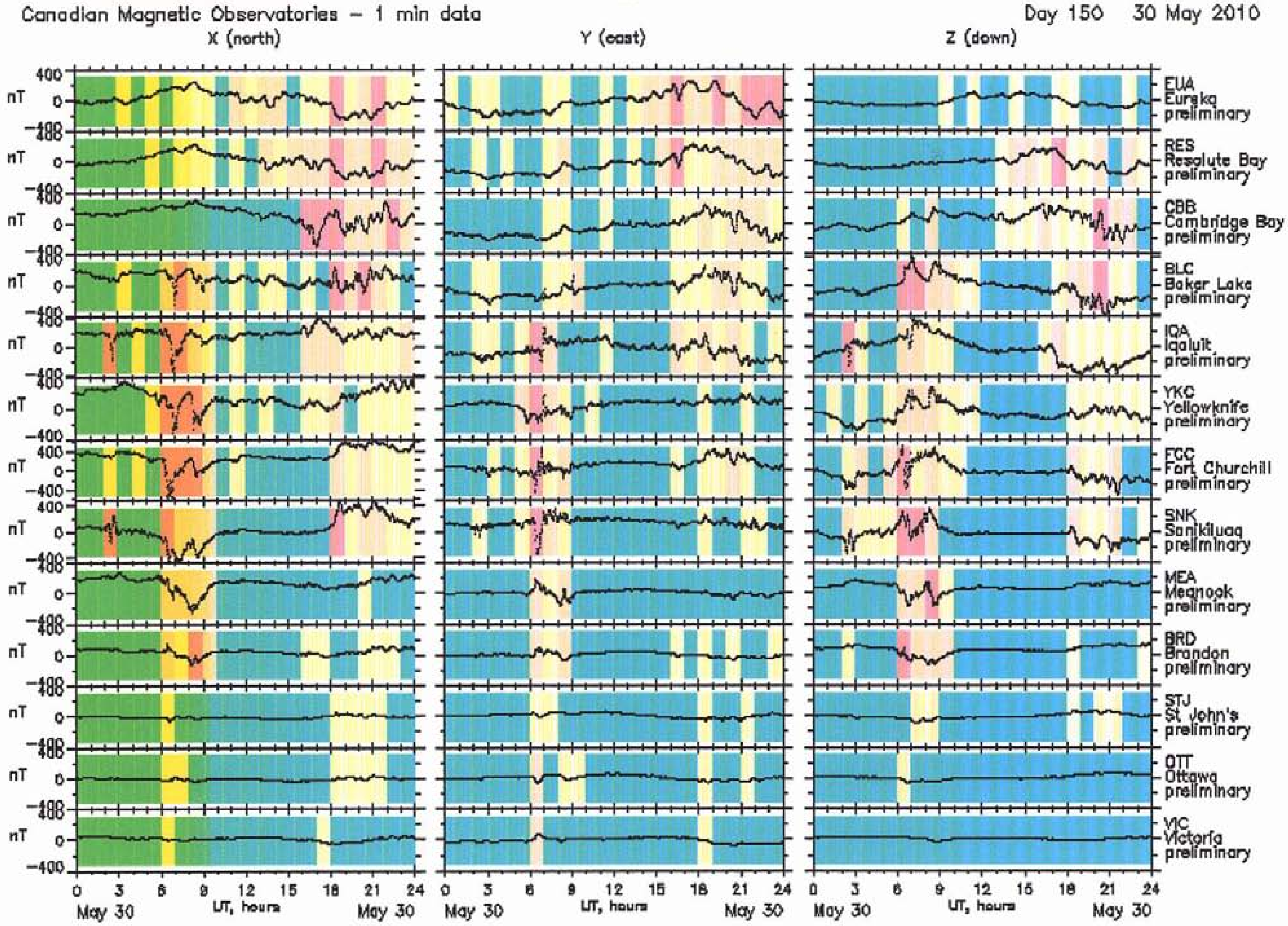

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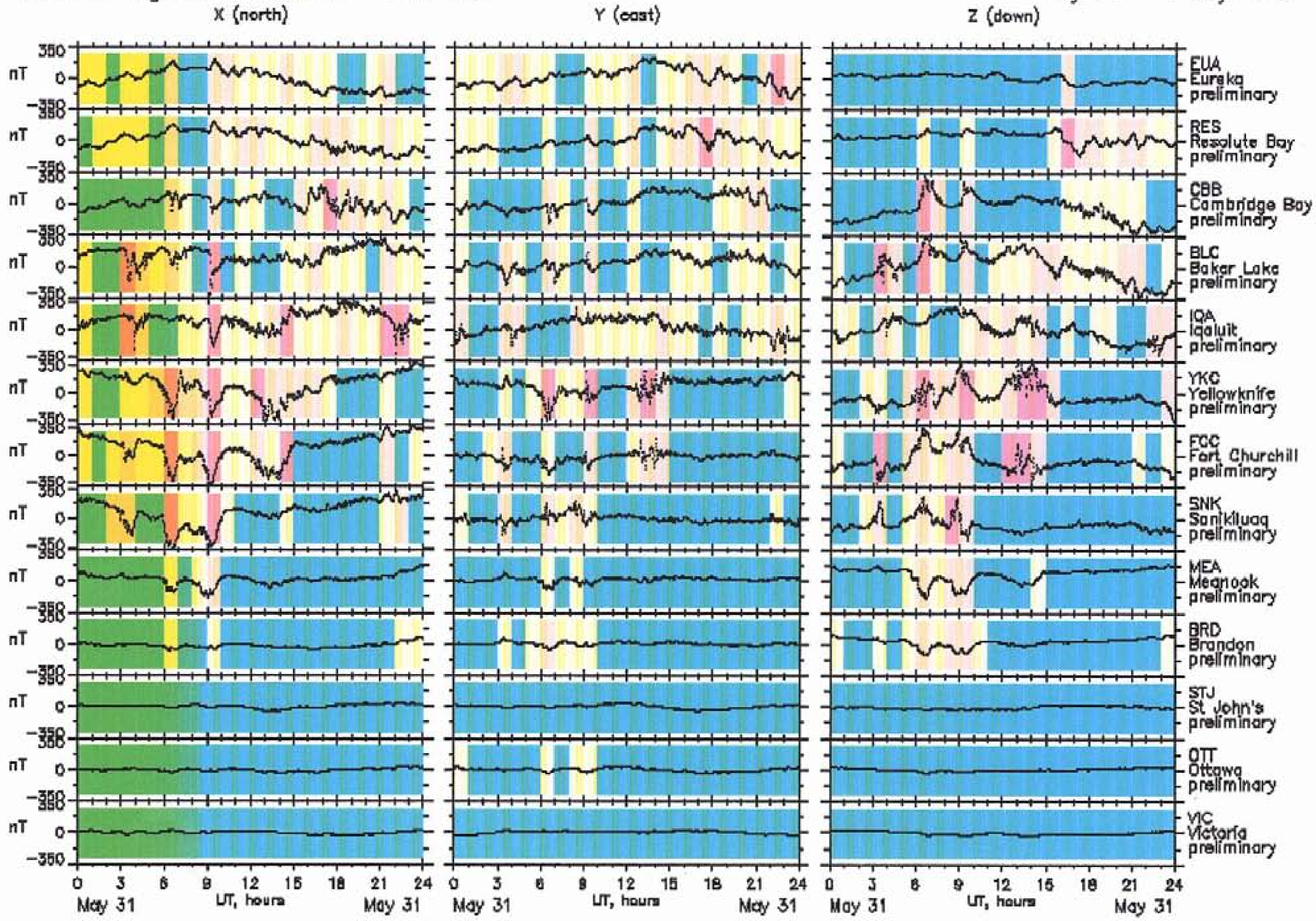

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Date Modified: 2009-09-17

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Important Notices

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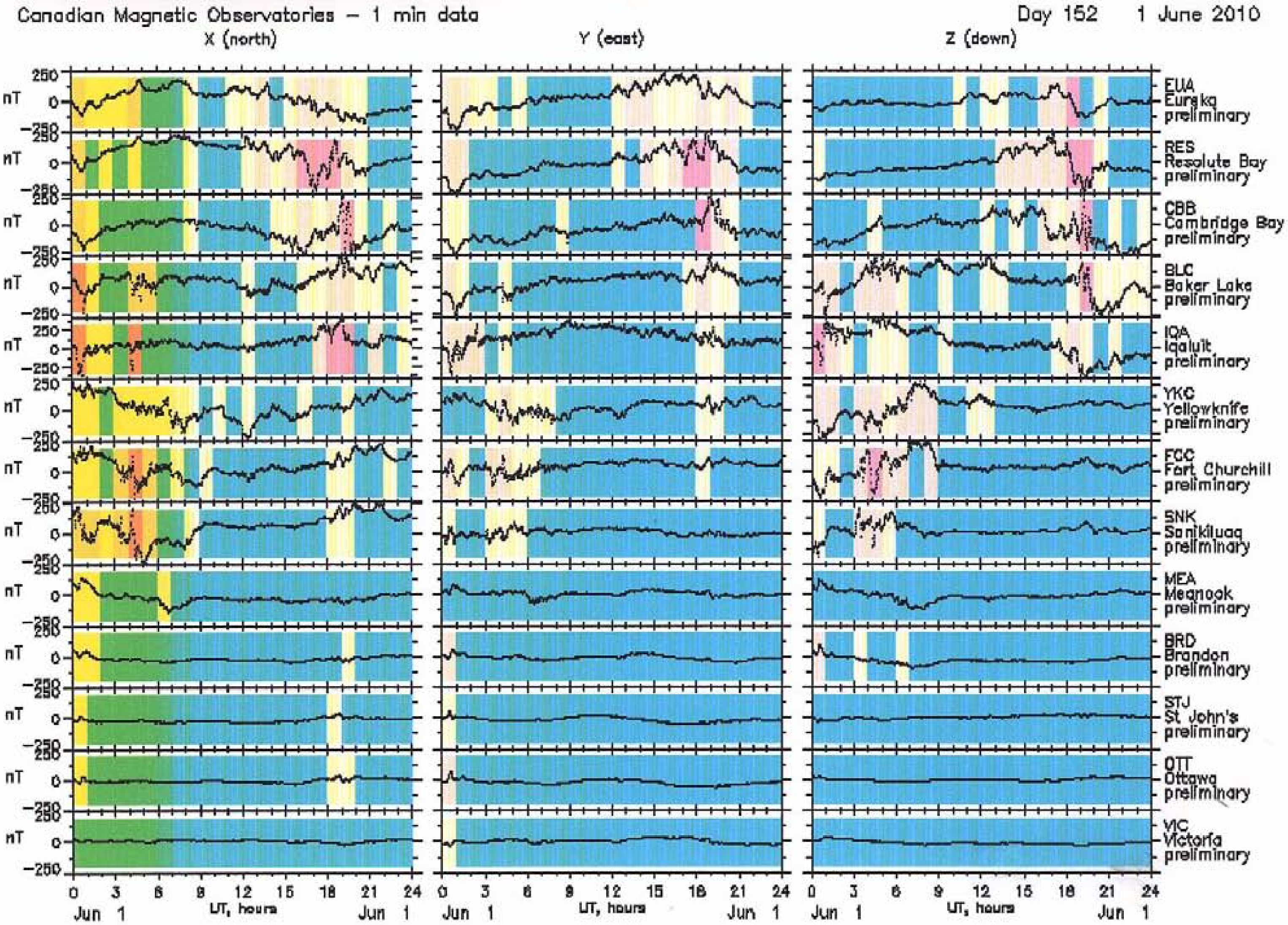

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Important Notices

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