



**BRITISH
COLUMBIA**

**Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch**

**REGIONAL LAKE SEDIMENT
AND WATER GEOCHEMISTRY
OF PART OF THE FORT
FRASER MAP AREA,
BRITISH COLUMBIA
(NTS 93K/9, 10, 15 AND 16)**

By Stephen J. Cook, Wayne Jackaman,
Martin W. McCurdy, Stephen J. Day and
Peter W. Friske

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ABSTRACT

Results of a regional lake sediment and water geochemistry survey conducted in the Fort Fraser map area (NTS 93K) in 1995 highlight several new exploration targets in the northern Interior Plateau of British Columbia. The Pinchi Lake survey (NTS 93K/9, 10, 15, 16) covers an area of perceived high mineral potential in a region where exploration has previously been limited by extensive drift cover, poor exposure and an insufficient geological database.

Lake sediments and waters were collected from 413 sites in the survey area at an average density of one site per 8.7 square kilometres. On the basis of results from

prior orientation studies, samples were collected from every lake and every sub-basin. These were analyzed for 15 elemental determinations by atomic absorption spectroscopy (AAS), and for a further 25 elements by instrumental neutron activation analysis (INAA). Standard Regional Geochemical Survey sampling, analytical and quality control procedures were used. Preliminary discussion of results for mercury, gold, arsenic, antimony, copper, molybdenum, zinc, silver, chromium and nickel indicate that the surveys confirm the locations of currently known prospects and outline new areas for prospective porphyry-style gold-copper and molybdenum deposits.

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INTRODUCTION

Open File 1996-15 presents new analytical data for 37 different elements from a regional lake sediment and water geochemistry survey (Figure 1) conducted by the British Columbia Geological Survey Branch and the Geological Survey of Canada in the Nechako Plateau region during 1995. The Pinchi Lake Survey covers four 1:50000 NTS map areas: 93K/9 (Pinchi Lake), 93K/10 (Stuart Lake), 93K/15 (Inzana Lake) and 93K/16 (Tezzeron Creek). Exploration in this region has been centred primarily on porphyry copper-gold targets such as the Tas (MINFILE 093K 080) and Lynx (MINFILE 093K 083) occurrences and, in the past, on epithermal mercury deposits. A total of 413 sites were sampled over an area of approximately 3584 square kilometres at an average density of 1 site per 8.7 square kilometres (Table 1). Data for gold, precious metal pathfinders, base metals and rare earth elements are provided here. Several new exploration targets are highlighted, and recommendations given for the interpretation and follow-up of geochemical anomalies. Another recent publication, Geological Survey of Canada Open File 3194 (Plouffe, 1995) presents new analytical data for a regional till geochemistry survey of this area.

The subdued topography, poor drainage and abundance of lakes in the northern Interior Plateau make lake sediments an ideal geochemical exploration sample medium. They are an effective tool to delineate regional geochemical patterns and anomalous metal concentrations related to mineral occurrences, and have been used successfully in the region for some 25 years. In the Nechako Plateau, for example, lake sediment geochemistry reflects the presence of a bulk silver prospect near Capoose Lake (Hoffman, 1976; Hoffman and Fletcher, 1981), porphyry molybdenum-copper mineralization near Chutanli Lake (Mehrtens, 1975; Mehrtens *et al.*, 1973), and epithermal precious metal prospects such as the Tsacha (Cook *et al.*, 1995) and Fawn (Hoffman and Smith, 1982) occurrences. Lake sediment geochemistry has also been successful in locating epithermal gold-silver mineralization at the Wolf prospect in the Nechako Plateau (Andrew, 1988) and, further to the north, porphyry molybdenum mineralization at the Mac deposit (Godwin and Cann, 1985; Cope and Spence, 1995). Orientation studies conducted near several epithermal gold and porphyry molybdenum prospects in the Nechako River map area to the south have shown that elevated concentrations of gold, arsenic, molybdenum and other elements occur in adjacent lake sediments (Cook, 1993, 1995, 1996).

The Interior Plateau Project is a multidisciplinary investigation of bedrock geology, glacial history, and till and lake sediment geochemistry of parts of the Nechako and Fraser plateaus in the Northern Interior. Mineral exploration of this area has been limited by extensive drift cover, poor exposure and, locally, a barren Tertiary volcanic cover. As well, the geological database is either nonexistent or obsolete. The project is part of the Canada-British Columbia Mineral Development Agreement (1991-1995), and results are summarized in B.C. Geological Survey Branch Paper 1996-2 "Interior Plateau Geoscience Project: Summary of Geological, Geochemical and Geophysical Studies". Open File 1996-15 is a contribution to the Interior Plateau Project and its successor, the Nechako NATMAP Project.

The Pinchi Lake survey was funded by the GSC and conducted jointly by GSB and GSC staff. This is the second open file release of Interior Plateau Project regional lake sediment survey data. Data for part of the Nechako River map area (NTS 93F) was released in 1994 (Cook and Jackaman, 1994b; Figure 1). Prior to that, the only publicly funded regional lake sediment surveys conducted in B.C. were the 1986 surveys of NTS map areas 93E (Whitesail Lake) and 93L (Smithers) (Johnson *et al.*, 1987a,b). Sample collection, preparation and analytical procedures conform to established standards of the National Geochemical Reconnaissance (NGR) and Regional Geochemical Survey (RGS) programs. Results will be incorporated at a later date into ongoing regional lake sediment surveys of the Fort Fraser map area (NTS 93K) as part of the RGS program. Analytical results and field observations compiled by the RGS program in British Columbia are used in the development of a high-quality geochemical database suitable for mineral exploration, resource assessment, geological mapping and environmental studies.

OPEN FILE FORMAT

Open File 1996-15 is divided into the following sections:

- Introduction, survey methodology and quality control
- Preliminary data interpretation and discussion
- Listings of field variables and analytical data (Appendix A)
- Listings of analytical duplicate data (Appendix B)
- Summary statistics; anomaly ratings (Appendix C)
- Element distribution, geology and sample location maps; multi-element anomaly maps (Appendix D)

Analytical and field data are included as an ASCII file on a 3.5-inch high density diskette. Data for each sample are listed in comma-delimited fields over one data record. Document files detailing format specifications

and survey details are also included. The diskette, together with a 1:100000-scale sample location map, is located in the back pocket.

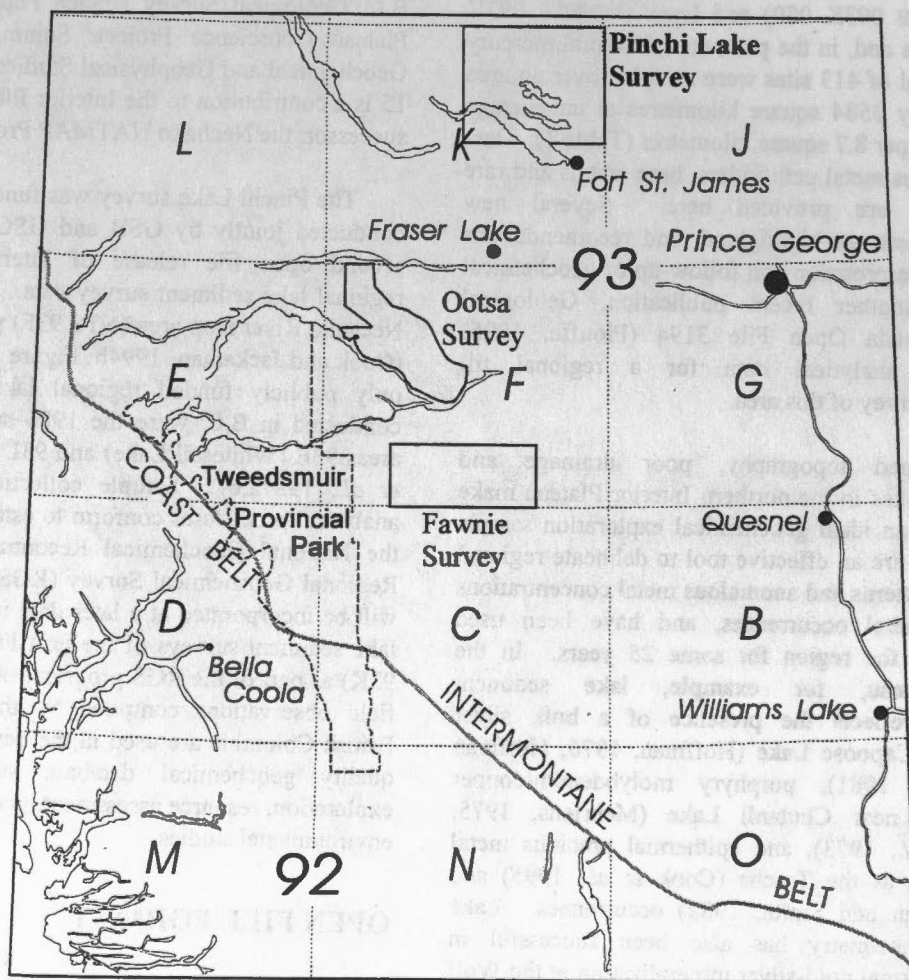


Figure 1. Location of the Pinchi Lake lake sediment survey area in the Fort Fraser map area (NTS 93K) of the Interior Plateau, British Columbia. Areas of prior data release in the Nechako River map area (NTS 93F) are also shown.

DESCRIPTION OF THE SURVEY AREA

LOCATION AND ACCESS

The Pinchi Lake survey area (NTS map areas 93K/9, 10, 15, 16) covers about 3760 square kilometres and is located immediately north of the town of Fort St. James in central British Columbia, approximately 110 kilometres northwest of Prince George. An extensive network of logging roads provide good access into much of the survey area from Fort St. James. The Germansen North road runs northward through the eastern part of the survey area to Germansen Landing and Mackenzie, while the Tachie and Leo Creek roads provide access to the northwestern part of the survey area. The southwest corner of the survey area, on the southwest side of Stuart Lake, is accessed via the Whitefish-Cunningham forestry road.

PHYSIOGRAPHY AND SURFICIAL GEOLOGY

The northeast and southwest portions of the Pinchi Lake survey area lie within the bounds of the Nechako Plateau, but most of the area is within the Nechako Plain and parts of the Fraser Basin (Holland, 1976). This relatively flat-lying area of low relief lies between 2500 to 3000 feet (762 to 914 m) elevation in most areas, well below that of the adjacent Nechako Plateau. Topography is dominated by Chuius Mountain (max. elevation: 1568 m) in the centre of the survey area, and by Mount Pope and Murray Ridge (max. elevations: 1472 m and 1399 m, respectively) in the southeast. Tchentsut Mountain and Pinchi Mountain are also prominent topographic highs. Extensive lowland areas are centred around Grostete Creek, northwest of Tezzeron Lake, and to the southeast and northeast of Pinchi Lake. Active first-order streams are relatively uncommon. Lakes are relatively uniformly distributed throughout the survey area, but there is considerable local variation in their abundance. For example, lakes are particularly numerous in the region between Tezzeron and Trembleur lakes, where they may form kettles, but are almost absent on the north side of Stuart Lake and in the Tezzeron Creek-Tsilcoh River-Hyman Creek-Ocock Creek lowland in the southeast part of the survey area.

The surficial geology and glacial history of the survey area have been documented by Plouffe (1994, 1995), Armstrong and Tipper (1948) and Armstrong (1949). The area is extensively drift-covered, and till and glacial lake sediments are the most widespread

Quaternary deposits; glaciofluvial sediments are not extensive. Plouffe (1994) indicates that most of the area is covered with a till blanket at least 1 m thick. Thicker hummocky till is most commonly found in the eastern part of the survey area; thin till veneers and associated postglacial colluvium are restricted to a few areas of higher relief. Ice flow was dominantly from west to east (Plouffe, 1995), with a significant deflection toward the northeast in the Tezzeron Creek map area (NTS 93K/16). Extensive deposits of glacial lake sediments in the area are erosional remnants of what Armstrong and Tipper (1948) referred to as the Fort St. James basin, one of three short-lived glacial lake basins which formed in the Prince George region upon stagnation and retreat of the Cordilleran ice sheet. Recent mapping (Plouffe, 1994) has shown that the distribution of these light-coloured silts, with minor sand and clay, is less extensive than previously thought. They are confined to a discontinuous northwest-trending corridor extending from the southeastern corner of the survey area to Trembleur Lake. Stuart, Pinchi and Tezzeron lakes are present-day remnants of these lake basins, which lie between about 2200 and 2600 feet (670 and 792 m; Armstrong, 1949) elevation. Maximum thickness of the Fort St. James basin is at least 30 m (Armstrong, 1949), but most glacial lake sediments form a discontinuous veneer of about 1 m (Plouffe, 1994) over the underlying till moraine. Thicker (generally 2-4 m) silt blankets are restricted to the north side of Stuart Lake and to the region between Tezzeron and Trembleur lakes.

BEDROCK GEOLOGY

Bedrock geology of the Fort St. James region was first mapped by Armstrong (1941, 1949), and has been partially re-mapped to modern standards over the intervening half-century. Within the survey area, the Tezzeron Creek map area (NTS 93K/16) was mapped by Nelson *et al.* (1991a,b), while an area southwest of Stuart Lake (parts of NTS 93K/7, 8, 10 and 11) was mapped by Ash and Macdonald (1993a,b). Paterson (1973, 1977) mapped in the Pinchi Lake area. The recent compilation of Bellefontaine *et al.* (1995) is the most comprehensive map of the region (Appendix D-3), and is used as the geological base for this survey.

The survey area straddles the boundary between the Quesnel and Cache Creek Terranes, which are separated by the northwest-southeast trending Pinchi Fault zone. To the northeast of the Pinchi fault zone are Early Mesozoic Takla Group island arc rocks of the Quesnel

Terrane (Nelson *et al.*, 1991a,b). This assemblage of sedimentary, volcanic, pyroclastic and epiclastic rocks has been informally subdivided by Nelson *et al.* (1991a,b) and Nelson and Bellefontaine (1996) in this area into four informal successions: the Slate Creek, Inzana Lake, Witch Lake and Chuchi Lake successions. Of these, the Inzana Lake succession and, to a lesser extent, the underlying Slate Creek succession are most extensive within the survey area. The Inzana Lake succession largely comprises interlayered argillite and epiclastic volcanic units. The Slate Creek (formerly Rainbow Creek) succession comprises interbedded black argillite, greywacke, siltstone and other sedimentary units. Augite porphyry flows and agglomerate typify the Witch Lake succession, exposed in the northeastern part of the survey area. Coeval plutonic rocks, primarily Early Jurassic diorite intrusives such as the Kalder pluton and the Tas intrusive complex, are also exposed in this area. Miocene-Pliocene Chilcotin Group basalt flows occur in low-lying regions in the eastern part of the survey area.

To the southwest of the Pinchi fault zone are Late Paleozoic to Early Mesozoic pelagic sediments, carbonates, metabasalts and ultramafic rocks of the Cache Creek Terrane (Paterson, 1977; Ash and Macdonald, 1993a,b). A belt of glaucophane-lawsonite blueschist-facies metamorphism parallels the fault zone (Paterson, 1977) within the survey area. Pelagic sedimentary rocks are the most common units of this northwest-trending belt of Cache Creek Group oceanic rocks, named the Stuart Lake belt by Armstrong (1949). These are intruded north of Stuart Lake by a Middle Jurassic-Early Cretaceous Francois Intrusion. Felsic intrusive rocks of the Middle Jurassic Shass Mountain Pluton, which separates the Cache Creek and Stikine Terranes, are also exposed in the extreme southwestern corner of the survey area.

MINERAL DEPOSITS

The mineral deposits of the Pinchi Lake survey area and surrounding region include: (i) porphyry copper-gold deposits, (ii) epithermal mercury deposits, (iii) mesothermal gold-antimony-quartz vein deposits, and (iv) podiform chromite showings.

Porphyry copper-gold deposits have been the main focus of exploration in the area since the mid-1980's. They are associated with coeval alkaline intrusions in Late Triassic-Early Jurassic rocks of the Takla arc. The most prominent example in the region is the Mt. Milligan deposit, discovered in 1987, which is located just north of the survey area. Nelson and Bellefontaine (1996) have summarized the geological setting of the alkalic intrusives associated with these deposits. They are typically small,

high-level to subvolcanic, contain densely-crowded, blocky plagioclase phenocrysts, and exhibit associated potassic-propylitic-pyritic alteration haloes. There are seven known porphyry prospects in Takla Group rocks within the survey area, all within the Tezzeron Creek map area (NTS 93K/16). The most significant of these are the Max copper-gold prospect (MINFILE 93K 020), and the Tas gold-copper prospect (MINFILE 93K 080).

Epithermal mercury deposits associated with the Pinchi fault zone are, historically, the most important economic mineralization within the survey area. The Pinchi Lake Mercury mine (MINFILE 93K 049) produced approximately 6.2 million kilograms of mercury during the periods 1940-1944 and 1968-1975 (MINFILE, 1995). Seven epithermal mercury deposits and showings occur along the Pinchi fault zone within the survey area, forming part of what Armstrong (1942a,b) named the Pinchi Lake mercury belt. They are found from the northwest side of Tezzeron Lake to Murray Ridge, near Fort St. James. Most, including the former Pinchi Lake Mercury mine, occur within a relatively small area between Pinchi and Tezzeron lakes. These deposits are hosted within metamorphosed sedimentary, volcanic and ultramafic rocks of the Cache Creek Group, where they typically occur as quartz-carbonate-cinnabar veins, stockworks, breccia zones and disseminations within carbonatized alteration zones (Armstrong, 1942a,b, 1949; Stevenson, 1940). It has been suggested that they, and the Snowbird Au-Sb deposit (MINFILE 93K 036), may represent the near-surface expression of a deeper mesothermal gold system (Nesbitt *et al.*, 1989; Albino, 1990).

There are no mesothermal vein deposits within the bounds of the survey area. However, the Snowbird Au-Sb deposit is located just south of the survey area near the southwest end of Stuart Lake. It is a mesothermal quartz-carbonate-stibnite vein deposit hosted in a shear zone within carbonatized serpentinite of the Cache Creek Group, and was briefly mined for antimony during 1938-1940 (Armstrong, 1949). More recently, a gold inventory of 227,000 tonnes at 6.86 g per tonne has been reported by Madu *et al.*, (1990). No similar gold-quartz vein mineralization is known in Cache Creek Group rocks of the survey area. Ash and Macdonald (1993a) attributed this to the rarity of exposed remnants of crustal and upper mantle ophiolitic rocks in the rest of the pelagic sedimentary sequence, although much of this area is obscured by a blanket of till and glaciolacustrine silt.

Chromite occurs as disseminations, wispy layers and rare lenses in obducted ultramafic rocks of the Cache Creek Group (Whittaker and Watkinson, 1981) at the Murray Ridge showing (MINFILE 93K 012) northeast of Fort St. James.



Photo 1. Regional lake sediment sampling in the Nechako Plateau.



Photo 2. Typical landscape in Pinchi Lake survey area, northwest of Tezzeron Lake (October, 1995).

SURVEY METHODOLOGY

SAMPLE COLLECTION

Helicopter-supported sample collection in the Pinchi Lake survey area was conducted by the authors during the period October 4-9, 1995. A sediment sample and a water sample were systematically collected at each site using a float-equipped Bell 206 helicopter. A total of 438 sediment and water samples were collected from 413 sites (Table 1), at an average site density was approximately 1 per 8.7 square kilometres. Overall helicopter sampling rate averaged 10.4 sites per hour.

Survey	NTS	Area (square km)	Sampling Density	Sites	Samples
Fawnie	93F/2,3	1862.6	7.9	237	251
Ootsa	93F/6,11,12,13,14 (parts thereof)	1650	7.4	224	238
Pinchi Lake	93K/9,10,15,16	3584.2	8.7	413	438
<i>Totals:</i>		7096.8	8.1	874	927

Table 1. Summary of Interior Plateau lake sediment geochemistry surveys conducted under Canada-B.C. Mineral Development Agreement during the period 1993-1995. Sampling density is in sites per square kilometre.

SEDIMENTS

Sediments were sampled using a Hornbrook-type torpedo sampler and samples placed in large (5" x 6") Kraft paper bags. On the basis of results of prior orientation studies (Cook, 1993a,b), regional surveys in central British Columbia incorporate some departures from standard lake sediment sampling strategies used elsewhere in Canada for the National Geochemical Reconnaissance (NGR) program (Friske, 1991), particularly pertaining to overall site density and the number of sites sampled in each lake.

First, every lake in the survey area was sampled, rather than sampling only a selection of lakes at a fixed density (*ie.* one site per 13 km²). Sediment in even small ponds may contain anomalous metal concentrations revealing the presence of nearby mineralization such as that at the Wolf prospect (Cook, 1995). In practice, some small ponds were not sampled due to unfavourable landing conditions. Samples were not collected from the centres of very large and deep lakes (> 10 km²; > 40 m deep) such as Stuart, Tezzeron, Pinchi and Inzana lakes. In the case of Pinchi Lake, however, sediment was obtained from several sites in the lakes' northwest arm near the old Pinchi Lake mercury mine. Organic soils from shallow swamps and bogs were also avoided.

Secondly, centre-lake sediment samples were collected following standard NGR procedure, but sediment from the centres of all major known or inferred sub-basins was also collected to investigate the considerable trace element variations which may exist among sub-basins of the same lake. Consequently, several sites were sampled from some of the larger lakes. Lake bathymetry maps in unpublished reports of the Fisheries Branch, Ministry of Environment, Lands and Parks (Balkwill, 1991) were consulted prior to sampling several of the larger lakes such as Tarnezell, Grassham and Kaychek lakes to aid in site location and to avoid wasting helicopter time over extremely deep basins.

WATERS

Lake water samples were collected at each site in 250-millilitre high-density polyethylene (HDPE) Nalgene bottles using a custom-designed sampling apparatus. Waters were sampled from approximately 15 centimetres below the lake surface to avoid collection of surface scum, and precautions were taken to minimize suspended solids. These waters were collected for determination of the standard RGS analytical suite (pH, uranium, fluoride, sulphate). An additional 250-millilitre lake water sample was also collected at every second site for more extensive multi-element ICP-MS analysis of trace and major elements. This is the first application of ICP-MS hydrogeochemistry to RGS lake sediment surveys in British Columbia. A total of 217 sites were sampled; data will be released at a later date.

FIELD OBSERVATIONS

A variety of field variables and observations pertaining to sample media, site and local terrain were recorded at each site using Geological Survey of Canada lake sediment cards (Garrett, 1974). These included sample depth, colour and composition, as well as the general relief and potential sources of contamination. The absence or presence of suspended solids in water samples was also noted. Lake depth was measured with a depth sounder mounted to one of the helicopter floats.

Site locations were marked on 1:50000 scale NTS topographic maps in the field, transferred to master basemaps, and later digitized at the British Columbia Geological Survey Branch to obtain Universal Transverse Mercator (UTM) site coordinates (NAD27). Variables such as site geology, which reflects the dominant geological unit of the lake catchment, and lake area were coded after sample collection. Site geology was taken from Bellefontaine *et al.* (1995), and manually verified to ensure that lake watersheds corresponded to the coded geological unit. Common lake names used on either NTS topographic maps or the Fort St. James Forest District map were included where applicable. New features incorporated into this release include i) listings of both NAD27 and NAD83 UTM site coordinates, and ii) listings of area and perimeter values within the survey area for each lake, calculated from lake polygons from TRIM 1:250000 digital basemaps using a GIS subroutine.

SAMPLE PREPARATION

SEDIMENTS

Sediment samples were field dried and, when sufficiently dry to transport, shipped to Bondar-Clegg and Company, Ottawa, for final drying (max: 25-30°C) and sample preparation. Preparation was conducted under Geological Survey of Canada supervision. The entire sample, to a maximum of about 250 grams, was pulverized in a ceramic ring mill and screened to minus 80 mesh (< 177 microns). Two analytical splits (20-30 grams each) were taken from the pulverized material for subsequent analysis.

WATERS

All lake water samples were kept cool following collection, and shipped to the Geological Survey of Canada, Ottawa, for insertion of control reference standards and distilled water blanks into the sample suite.

No further preparation procedures were performed on routine raw lake water samples prior to analysis.

Samples collected for the expanded ICP-MS lake water geochemistry survey were filtered to 0.45 microns by the authors using MSI MicronSep filters (47 mm) and a Nalgene filtration apparatus with hand pump. Filtered waters were transferred to 250-millilitre I-Chem Certified high-density polyethylene (HDPE) acid-washed bottles, and acidified to approximately pH=2 with Merck Suprapure nitric acid as per standard methods for analysis of metals (APHA/AWWA/WEF, 1992). Water colour was also recorded at this time. Samples were transported from the field to the Analytical Sciences Laboratory, Victoria, in sealed plastic bags to ensure a high level of cleanliness. Distilled water blanks were inserted into the sample suite prior to analysis. Data will be reported at a later date.

SAMPLE ANALYSIS

Analysis of routine lake sediment and water samples was conducted by contract laboratories in accordance with established National Geochemical Reconnaissance (NGR) analytical methods. Analytical methods are strictly specified and carefully monitored to ensure consistent and reliable results regardless of the region, year or analytical laboratory. Element suites, detection limits and details of analytical procedures may differ slightly, however, from those reported by Cook and Jackaman (1994) for lake sediment surveys of the Nechako River map area. For example, only iron, molybdenum and nickel data for both analytical methods are reported here. No AAS data is available for arsenic or antimony in addition to the INAA data reported in Appendix A. Conversely, selenium AAS data is given in this report, but not in Cook and Jackaman (1994).

SEDIMENTS - AAS

A split of each prepared sediment sample was analyzed by CanTech Laboratories Inc., Calgary, Alberta for 15 elements: zinc, copper, lead, silver, molybdenum, cobalt, mercury, iron, manganese, nickel, fluorine, cadmium, vanadium, bismuth and selenium. Loss on ignition was also determined. Stated analytical detection limits for each element are listed in Table 2. Those concentrations below the stated detection limits are presented in data listings as a value equivalent to the detection limit.

- For the determination of cadmium, cobalt, copper, iron, lead, manganese, nickel, silver and zinc, a 1 gram sample was reacted with 3 millilitres of concentrated

HNO₃ for 30 minutes at 90°C. Concentrated HCl (1 millilitre) was added and the digestion was continued at 90°C for an additional 90 minutes. The sample solution was then diluted to 20 millilitres with metal-free water and mixed. Element concentrations were determined by atomic absorption spectroscopy (AAS) using an air-acetylene flame. Background corrections were made for lead, nickel, cobalt and silver.

- Mercury was determined by the Hatch and Ott procedure with some modifications. A 0.5 gram sample was reacted with 20 millilitres concentrated HNO₃ and 1 millilitre concentrated HCl in a test tube for 10 minutes at room temperature and then for 2 hours in a 90°C hot water bath. After digestion, the sample was cooled and diluted to 100 millilitres with metal-free water. The mercury present was reduced to the elemental state by the addition of 10 millilitres of 10% weight-to-volume SnSO₄ in H₂SO₄. The mercury vapour was then flushed by a stream of air into an absorption cell mounted in the light path of an atomic absorption spectrometer (CV-AAS). Measurements were made at 253.7 nanometres. This method is described by Jonasson *et al.* (1973).

- Molybdenum and vanadium were determined by aqua regia digestion - atomic absorption spectroscopy (AAS) using a nitrous oxide acetylene flame. A 0.5 gram sample was reacted with 1.5 millilitres concentrated HNO₃ at 90°C for 30 minutes. At this point 0.5 millilitres of concentrated HCl was added and the digestion continued for an additional 90 minutes. After cooling, 8 millilitres of 1250 ppm Al solution was added and the sample solution diluted to 10 millilitres before determination by AAS.

- Fluorine was determined by specific ion electrode as described by Ficklin (1970). A 250 milligram sample was sintered with a 1-gram flux consisting of two parts by weight sodium carbonate and 1 part by weight potassium nitrate. The residue was leached with water. The sodium carbonate was neutralized with 10 millilitres 10% weight-by-volume citric acid, and the resulting solution diluted with water to 100 millilitres. Fluoride was then measured with a fluoride ion electrode (ION) and a reference electrode.

- Bismuth and selenium were determined by aqua regia digestion - hydride generation atomic absorption spectroscopy. A 1 gram sample was reacted with 3 millilitres of concentrated HNO₃ for 30 minutes at 90°C. Concentrated HCl (1 millilitre) was added and the digestion was continued at 90°C for an additional 90 minutes. A 1 millilitre aliquot was diluted to 10 millilitres with 1.5M HCl in a clean test tube. The diluted sample solution was added to a sodium borohydride solution and the hydride vapour passed through a heated

quartz tube in the light path of an atomic absorption spectrometer (AAS-H).

- Loss on ignition was determined using a 0.5 gram sample. The sample was weighed into a 30 millilitre beaker, placed in a cold muffle furnace and heated to 500°C over a period of 2 to 3 hours. The sample was maintained at this temperature for 4 hours, then allowed to cool to room temperature before weighing (GRAV).

SEDIMENTS - INAA

A 30 gram split of each sediment sample was analyzed for 25 elements including gold, arsenic, antimony, barium, bromine, cerium, cesium, chromium, cobalt, hafnium, iron, lanthanum, lutetium, molybdenum, nickel, rubidium, samarium, scandium, sodium, tantalum, terbium, thorium, tungsten, uranium and ytterbium by Becquerel Laboratories, Mississauga, Ontario using instrumental neutron activation analysis (INAA). Weighed and encapsulated samples were packaged for irradiation along with internal standards and international reference materials. Samples and standards were irradiated together with neutron flux monitors in a two-megawatt pool-type reactor. After a seven day decay period, samples were measured on a high-resolution germanium detector. Counting time was typically 500 seconds per sample. Results were compiled on a Microvax II computer and converted to concentrations. A complete list of the 25 elements and their stated instrumental detection limits are given in Table 2. Additional data for the nine elements silver, cadmium, europium, iridium, selenium, tin, tellurium, zinc and zirconium were not published because of inadequate detection limits and/or precision. Gold concentrations below the stated detection limits are presented in data listings as a value equivalent to one-half the detection limit. Sample weights are also reported.

WATERS (RGS SUITE)

Routine unfiltered lake waters were analyzed for the standard RGS water analytical suite of pH, uranium, fluoride and sulphate at CanTech Laboratories, Inc., Calgary. Stated detection limits are given in Table 2.

- Hydrogen ion activity (pH) was measured, on a separate sample aliquot, with a Corning pH meter with glass-calomel electrode (GCE).

- Uranium was determined by laser-induced fluorescence (LIF) using a Scintrex UA-3 uranium analyzer. A complexing agent, known commercially as Fluran and composed of sodium pyrophosphate and sodium

monophosphate (Hall, 1979), is added to produce a uranyl pyrophosphate species which fluoresces when exposed to the laser. As organic matter in the sample can cause unpredictable behaviour, a standard addition method is used. A total of 500 microlitres of Fluran solution was added to a 5 millilitre sample and allowed to stand for 24 hours, as the reaction of uranium with the complexing agent may be delayed or sluggish. At the end of this period fluorescence readings were made with the addition of 0.0, 0.2 and 0.4 ppb uranium. For high-concentration samples, the additions were 0.0, 2.0 and 4.0 ppb uranium. All readings are taken against a sample blank.

- Fluoride was determined by ion selective electrode (ION). A 20 millilitre aliquot of the sample was mixed

with 20 millilitres of TISAB II (total ionic strength adjustment buffer) buffer solution. Fluoride was determined with an Orion fluoride electrode in conjunction with a Corning ion meter.

- Sulphate was determined by a turbidimetric method (TURB). A 50 millilitre aliquot was mixed with barium chloride and an isopropyl alcohol-HCl-NaCl reagent, and turbidity of the resulting barium sulphate solution measured with a spectrophotometer at 420 nanometres. Note that lake water sulphate concentrations reported for the Nechako River map area (NTS 93F) by Cook and Jackaman (1994) were determined by either turbidimetry (Fawnie survey) or ion chromatography (Ootsa survey).

TABLE 2. ANALYTICAL METHODS AND STATED DETECTION LIMITS: LAKE SEDIMENTS AND WATERS

Element		Detection Limit	Method	Element		Detection Limit	Method
Bismuth	Bi	0.2 ppm	AAS-H	Gold	Au	2 ppb	INAA
Cadmium	Cd	0.2 ppm	AAS	Antimony	Sb	0.1 ppm	INAA
Cobalt	Co	2 ppm	AAS	Arsenic	As	0.5 ppm	INAA
Copper	Cu	2 ppm	AAS	Barium	Ba	50 ppm	INAA
Fluorine	F	40 ppm	ION	Bromine	Br	0.5 ppm	INAA
Iron	Fe	0.02%	AAS	Cerium	Ce	5 ppm	INAA
Lead	Pb	2 ppm	AAS	Cesium	Cs	0.5 ppm	INAA
Manganese	Mn	5 ppm	AAS	Chromium	Cr	20 ppm	INAA
Mercury	Hg	10 ppb	CV-AAS	Cobalt	Co	5 ppm	INAA
Molybdenum	Mo	2 ppm	AAS	Hafnium	Hf	1 ppm	INAA
Nickel	Ni	2 ppm	AAS	Iron	Fe	0.2%	INAA
Selenium	Se	0.2 ppm	AAS	Lanthanum	La	2 ppm	INAA
Silver	Ag	0.2 ppm	AAS	Lutetium	Lu	0.2 ppm	INAA
Vanadium	V	5 ppm	AAS	Molybdenum	Mo	1 ppm	INAA
Zinc	Zn	2 ppm	AAS	Nickel	Ni	10 ppm	INAA
Loss On Ignition	LOI	0.10%	GRAV	Rubidium	Rb	5 ppm	INAA
				Samarium	Sm	0.1 ppm	INAA
				Scandium	Sc	0.1 ppm	INAA
pH-water	pH	0.1	GCE	Sodium	Na	0.02%	INAA
Sulphate-water	SO ₄	1 ppm	TURB	Tantalum	Ta	0.5 ppm	INAA
Fluoride-water	FW	20 ppb	ION	Terbium	Tb	0.5 ppm	INAA
Uranium-water	UW	0.05 ppb	LIF	Thorium	Th	0.2 ppm	INAA
				Tungsten	W	1 ppm	INAA
				Uranium	U	0.2 ppm	INAA
				Ytterbium	Yb	1 ppm	INAA

AAS atomic absorption spectrometry
 CV-AAS cold vapour-atomic absorption spectrometry
 GCE glass-calomel combination electrode
 GRAV gravimetry
 INAA instrumental neutron activation analysis
 ION ion selective electrode
 LIF laser-induced fluorescence
 IC ion chromatography

QUALITY CONTROL PROCEDURES AND RESULTS

METHODOLOGY

The ability to discriminate real geological and geochemical trends from those resulting from sampling and analytical variation is of considerable importance in the interpretation of geochemical data. Control reference standards and analytical duplicates are routinely inserted into sample suites to monitor and assess accuracy and precision of analytical results. Control reference standards are used to assess analytical accuracy. Sampling and analytical variation can be quantified using estimates of precision within and between sample sites determined by utilizing field and analytical duplicate data. In accordance with standard National Geochemical Reconnaissance (NGR) and Regional Geochemical Survey (RGS) quality control procedures, each block of 20 lake sediment samples contains (Figure 2):

- Seventeen routine samples,
- One field duplicate sample collected adjacent to one of the routine samples,
- One blind duplicate sample split from one of the 17 routine samples prior to analysis,
- One control reference standard containing sediment of known element concentrations.

The locations of blind duplicate and control reference samples are selected prior to sampling, whereas field duplicate sites are chosen randomly during fieldwork. At these sites, two samples are taken by successive drops of the torpedo sampler. These samples are used to monitor combined sampling and analytical precision, and are a measure of within-site variation. Blind, or analytical, duplicate samples are usually taken from the first sample of each field duplicate pair following sample preparation, and reinserted into the suite to monitor analytical precision. In practice, dry lake sediment samples are sometimes too small (as little as 50 grams) for a blind duplicate split. Here, 50 per cent of the blind duplicates are taken from the corresponding field duplicate sample; the remainder are taken from another routine sample within the block. Blind duplicates are not used in the water suite; a distilled water blank is instead inserted to monitor analytical contamination.

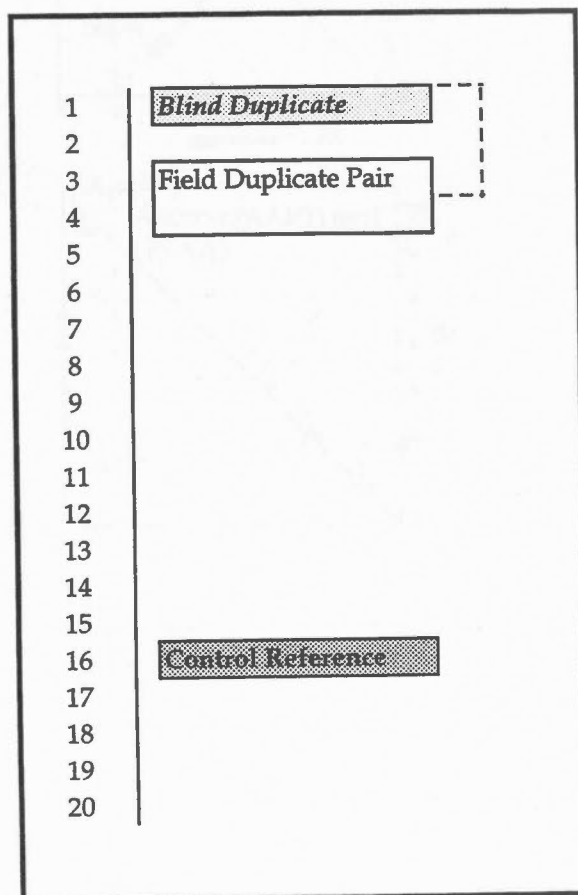


Figure 2. Typical Regional Geochemical Survey sample collection scheme used during the lake sediment survey. The 20-sample collection block incorporates 17 routine samples, a field duplicate sample, a blind duplicate sample and a control reference standard. Blind duplicates are routinely taken from the first sample of each field duplicate pair.

ANALYTICAL PRECISION AND ACCURACY

Variations in element concentrations in lake sediments may be due to regional geological and geochemical variations (different bedrock lithologies and surficial materials, absence or presence of mineralization, limnological variations), within-site variations (combined sampling, preparation and analytical variations), or analytical variation alone. As noted by Fletcher (1981), a high degree of analytical precision is of limited

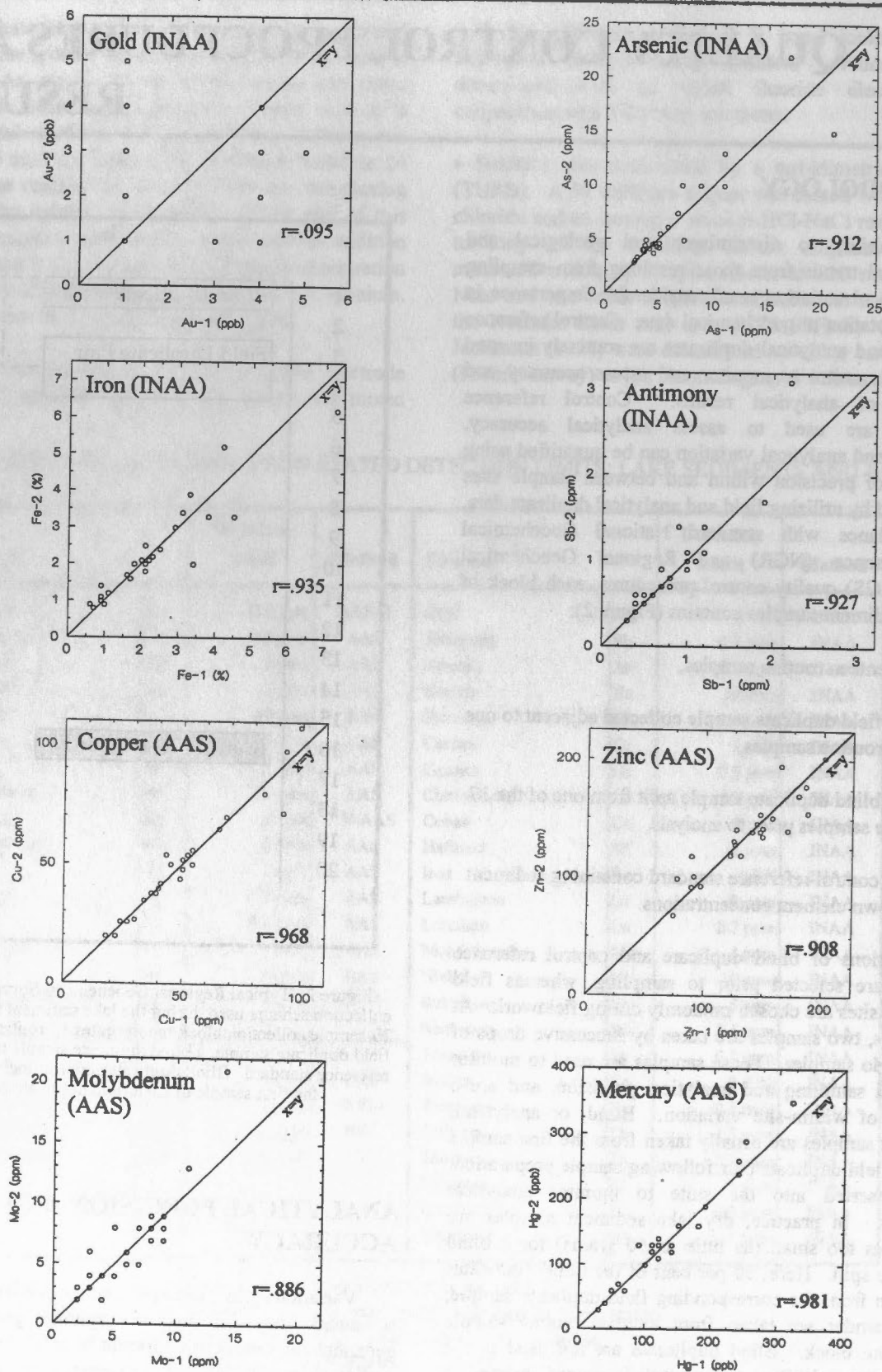


Figure 3. Scatterplots of field duplicate pairs (N=25) for gold, arsenic, iron and antimony (INAA) and for copper, zinc, molybdenum and mercury (AAS).

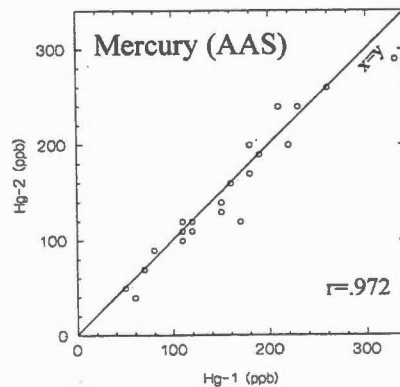
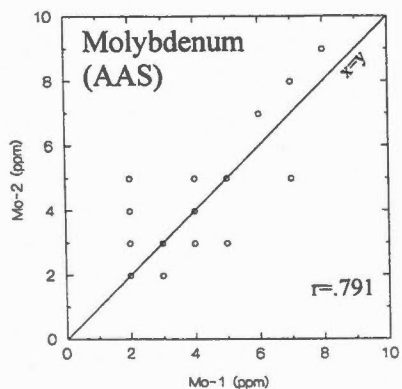
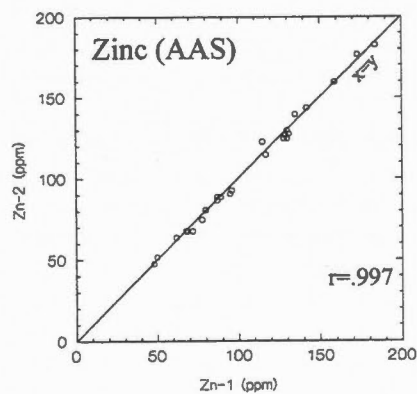
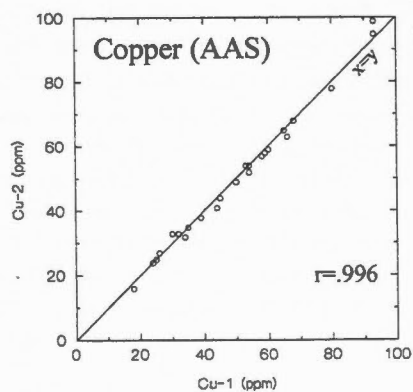
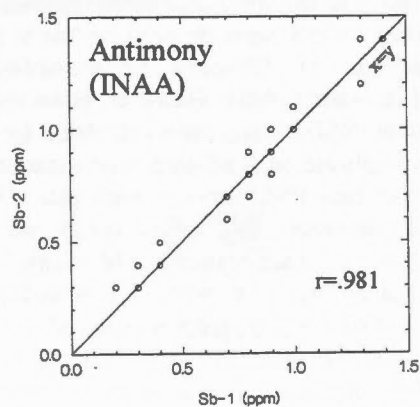
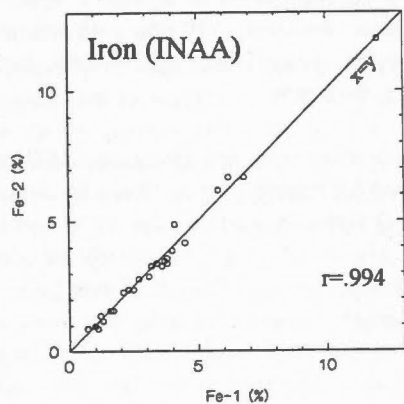
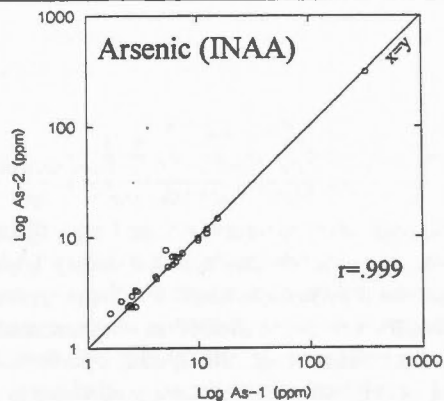
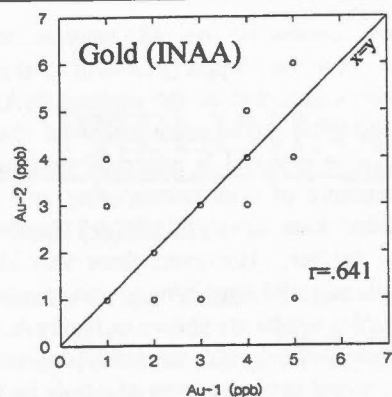


Figure 4. Scatterplots of blind duplicate pairs (N=25) for gold, arsenic, iron and antimony (INAA) and for copper, zinc, molybdenum and mercury (AAS).

importance if the sample collection and preparation error is so great as to be indistinguishable from the regional geochemical variation.

Scatterplots of analytical results for 25 field duplicate pairs (Figure 3) and 25 blind duplicate pairs (Figure 4) are shown for gold, arsenic, antimony and iron (INAA) and for copper, zinc, molybdenum and mercury (AAS). Very good reproducibility, particularly for those elements with concentrations well above detection limits, imparts a high degree of confidence in the quality of both the sampling and analytical procedures. Estimates of analytical precision at different concentration levels are not given for the 25 blind duplicate pairs, as this is fewer than the minimum of 50 pairs recommended by Thompson and Howarth (1978). However, mean relative standard deviation (RSD) values were calculated for both field and blind duplicate pairs of gold determinations by averaging the per cent RSD between each pair. Mean RSD for blind duplicate gold values ($n=25$ pairs) is 20.7%; mean RSD for field duplicate gold values ($n=25$ pairs) is higher at 36.9%. The greater precision attained with analysis of blind duplicate pairs is expected, as it is a measure of subsampling and analytical variability only. Analysis of field duplicate sample pairs, on the other hand, measures field sampling, preparation, subsampling and analytical variability. Field duplicate data for all elements are included within the data listings in Appendix A, and analytical duplicate data are listed in Appendix B.

Three internal lake sediment standards of the Geological Survey of Canada were used as control standards ($n=25$) for the Pinchi Lake survey. Analytical data for the control standards compare favourably with accepted values, indicating a high degree of analytical accuracy. For example, AAS analyses of the three standards returned mean copper concentrations of 17.9 ppm ($n=8$), 25.1 ppm ($n=7$) and 81.4 ppm ($n=10$) copper relative to accepted values of 17.1 ppm, 23.2 ppm and 81.7 ppm, respectively. Regarding analytical precision of control standards results, several examples are given as follows. Seven to ten replicate analyses of each of three standards in the INAA suite returned relative standard deviations (RSD) of 3.3 - 9.4 % for arsenic, 4.6 - 8.2% for iron, and 2.9 - 7.7% for cerium. In the AAS suite, replicate analyses of the same three standards returned RSD values of 3.9 - 6.3% for copper, 4.4 - 5.6% for zinc, and 7.0 - 13.6% for mercury. Seven to ten replicate analyses of each of three GSC internal water standards returned RSD values of 3.5 - 10.9% for uranium, 4.3 - 7.0% for fluoride and 15.5 - 19.7% for sulphate.

Repeat INAA analyses are routinely conducted on samples reporting gold concentrations greater than the 90th percentile (Au-2 in the data listings). Here, repeat

analyses were conducted on 47 samples with gold concentrations of at least 6 ppb (11.4% of total sites). All reanalyses were conducted on the original INAA sample capsule. Reanalysis of separate splits of the original pulverized sample material is generally preferable, as it provides a measure of both subsampling and analytical variability rather than simply analytical variability from one batch to another. However, there was insufficient original sample material remaining in this case to use new splits. Scatterplot results are shown in Figure 5. In all, 45 of 47 reanalyses yielded gold concentrations greater than the stated analytical detection limit of 2 ppb, and 33 of 47 returned gold concentrations of at least 6 ppb. Three of the four samples containing >10 ppb gold returned values >10 ppb upon reanalysis; the fourth returned a concentration of 10 ppb.

A mean relative standard deviation (RSD) of 19.6% was calculated for repeat gold analyses by averaging the per cent RSD between each of the 47 analytical pairs. Not surprisingly, this RSD is substantially identical to that determined for gold using blind duplicate pairs (20.7%), as both are largely measures of analytical precision. This is in spite of some considerable differences between the two data subsets. The repeats are the very highest gold concentrations in the Pinchi survey area, whereas the blind duplicate suite is a random collection of pairs of mostly low gold values (1-5 ppb) at or near the analytical detection limit.

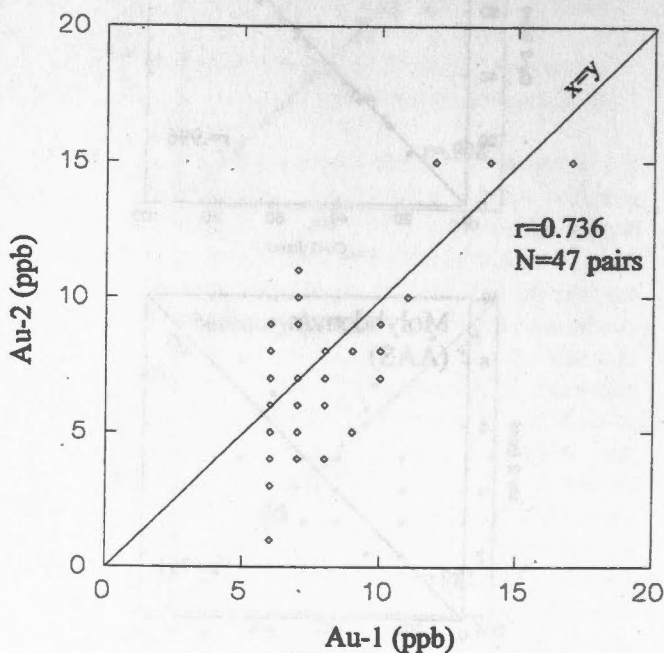


Figure 5. Scatterplot of results for 47 pairs of repeat gold analyses (ppb). Au-1 represents the original gold result; Au-2 represents the value obtained on reanalysis. Both values are reported in the data listings (Appendix A).

PRELIMINARY DATA INTERPRETATION

FIELD VARIABLES

Distribution of lake sediment sites by terrane in the Pinchi Lake survey area is shown in Figure 6. Approximately 55% of the sites are within Quesnellia; most of the remainder are in the Cache Creek Terrane (40%).

The majority of sites in the survey area (65%) are in lakes of pond size or smaller ($e.g. < 0.25 \text{ km}^2$). This is similar to the proportion of pond-sized sites recorded to the south in the Fawnie and Ootsa lake sediment surveys of the Nechako River map area (NTS 93F; Cook and Jackaman, 1994b). Almost 21% of sites are in lakes in the range 0.25 to 1 km^2 , but only 8.5% of sites are in large lakes ($e.g. > 5 \text{ km}^2$). Median lake depth in the Pinchi Lake survey area is 4 metres. Shallow lakes are very common, and more than one-third of all sites are ponds with depths of 2 metres or less (Figure 7). More than three-quarters (78%) of the sites have depths of 10 metres or less. The deepest site recorded was 35 metres, but only 4% of the sites have depths of more than 20 metres. It should be noted that lake depth, measured with a float-mounted depth sounder, is not synonymous with sample depth, which is the distance from the water surface to the sample location within the sediment column. This is because the sampler typically penetrates a few metres into the sediment before coming to a stop. Generally, depth of penetration increases with increasing lake depth; it may be negligible in small ponds, but up to 3 or 4 metres in large, deep lakes.

Approximately 43% of sites were classed as being in areas of low relief, with a further 49% classed as areas of medium relief. Only 8% of lake sediment sites were categorized as being in areas of high relief. Field observations indicate that potential sources of anthropogenic contamination are likely minimal in spite of extensive logging activity in some parts of the survey area. Work or camp sites were recorded on the shores of 14% of sites sampled.

SEDIMENTS

The following data interpretation is of a preliminary nature. Discussions on the distribution and abundance of gold, arsenic, antimony, copper, molybdenum, zinc, silver, mercury, chromium and nickel are intended to

highlight geochemical patterns that may be of interest to mineral explorationists, and are not exhaustive. Only raw data are used. Where applicable, unit designations of Bellefontaine *et al.* (1995) are used to identify geological units. Please refer to the appropriate 1:50000 scale NTS topographic maps or the Fort St. James Forest District map for lake and place names.

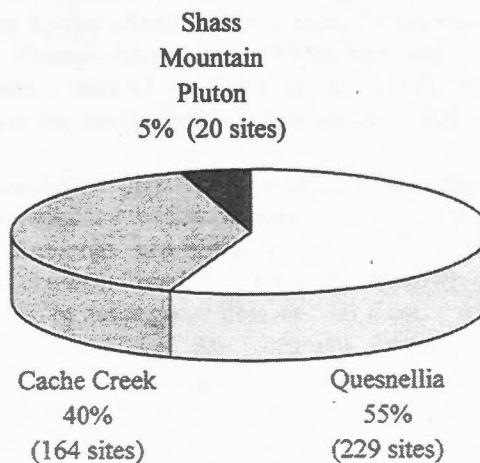


Figure 6. Distribution of lake sediment sample sites by terrane feature within the Pinchi Lake survey area. Sites within Quesnellia include those above Chilcotin Group volcanics (MPCv) and various intrusive units (Ktg, Ejd, TrJm, TrJd). Sites within the Cache Creek terrane include intrusive units (Jkgd) and the Sustut assemblage (KTS).

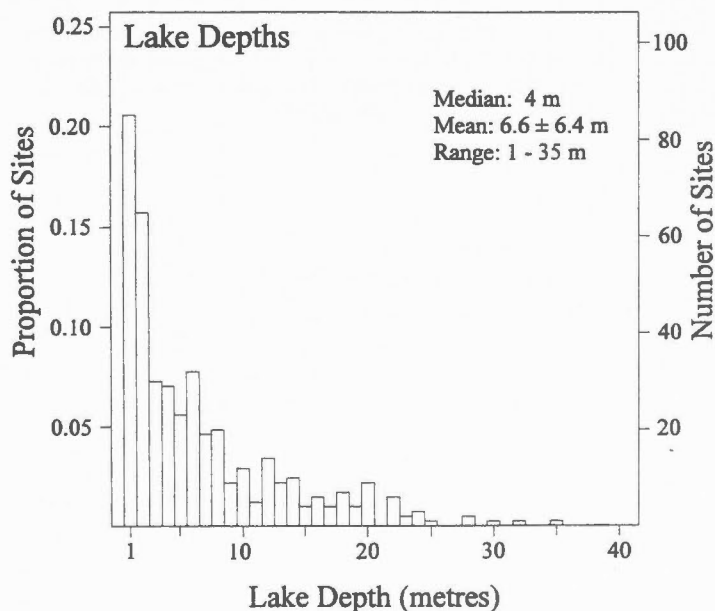


Figure 7. Histogram showing lake depths (413 sites) in the Pinchi Lake survey area.

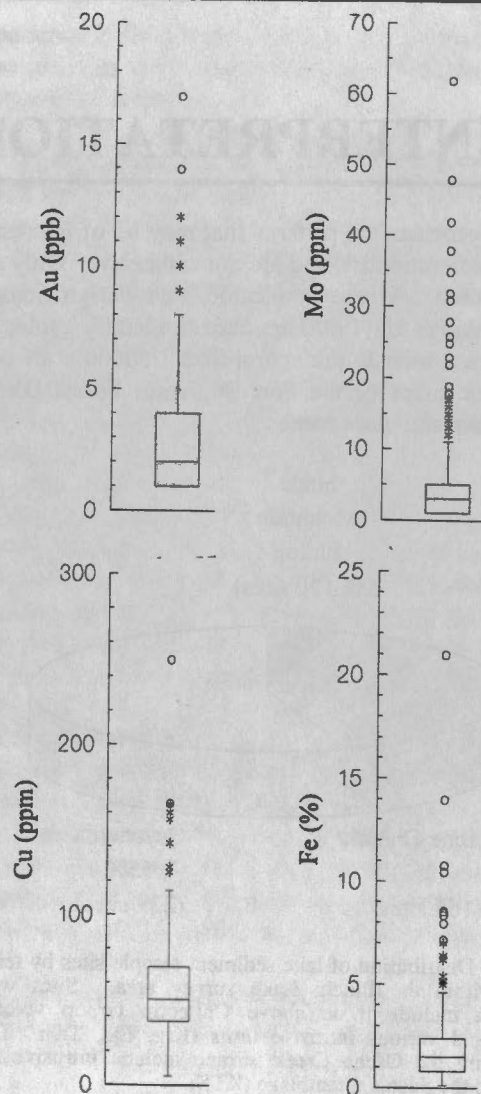


Figure 8. Boxplots showing distribution of gold and molybdenum (INAA), and copper and iron (AAS), in lake sediments of the Pinchi Lake survey area. Fifty per cent of the data lies within the box; the lower and upper bounds of each box define the first quartile and third quartile of data, respectively.

GOLD

Background gold concentration in lake sediments of the Pinchi Lake survey area, as expressed by median values, is 2 ppb. Only eight sites in the survey area contain at least 10 ppb gold. Elevated values (90th percentile: 6 ppb; max: 17 ppb) are associated with several geological units, but are primarily located within Takla Group sedimentary and volcanic assemblages (uTrTt, uTrTv). Median gold values of lake sediments above these two units (4 ppb) are at least twice that of most other units. Zones of elevated gold concentrations occur in three areas:

- A broad east-west trending zone approximately 16 kilometres x 5 kilometres, located northeast of Tezzeron Lake, which is centred on a Late Cretaceous-Early Tertiary rhyodacite/dacite intrusive and the adjacent Hat Lake copper (MINFILE 93K084) and Dem arsenic-antimony-gold (MINFILE 93K077) prospects. The zone of elevated gold concentrations extends from Dem Lake in the west to Chuzkeepah Lake in the east, and is mostly within the bounds of the Tezzeron Creek map area. Here, five sites contain 8-10 ppb gold, all of which are reproducible within a few ppb upon reanalysis. Two of the sites are immediately adjacent to, and downice of, the Hat Lake prospect. A third site is a few kilometres downice of the Dem prospect and associated potassic alteration. The remaining two sites are located relatively far, about 10-15 km, downice of the two prospects and may indicate the presence of new areas of mineralization. Several additional lake sediment sites contain lesser, but nevertheless elevated, gold concentrations.

- Three sites with elevated gold concentrations >95th percentile occur in the northeast part of the survey area near the margins of two Early Jurassic diorite bodies: the Kalder Pluton, and a smaller intrusive several kilometres to the south which is associated with the Tas (MINFILE 93K080) and Freegold (MINFILE 93K091) gold-copper prospects. Significantly, the two greatest sediment gold values in the survey area (14 and 17 ppb) occur in the north part of the zone on either side of the Kalder Pluton.

Two of the three sites with elevated gold concentrations occur on the southern margin of the poorly-exposed Kalder Pluton. One aforementioned site (1053) located just over 1 kilometre downslope of the intrusive contact contains 17 ppb gold in sediment, the highest gold concentration in the survey area. Sample reanalysis yielded a similar concentration of 15 ppb. A second site (1124), between the two plutons, contains 8 ppb gold and is both downice and downdrainage of the Tas prospect. It is also located approximately 1 km south of the intrusive contact of the Kalder Pluton. The third site with elevated gold concentrations in this zone occurs within Kalder Lake along the northern margin of the Kalder Pluton. This site (1119) contains 14 ppb gold, the second-highest gold concentration in the survey area; reanalysis returned a similar concentration of 15 ppb. Drainage into the lake basin where the sample was obtained is predominantly from the northeast, where two other sites with moderately elevated gold concentrations occur near the northern border of the survey area.

- An east-west trending zone approximately 8 km x 3 km south of Inzana Lake. The westernmost site (1274) contains the third-highest gold concentration (12 ppb) in the survey area; the easternmost site (1216; 8 ppb) is in the centre of Hatdudatehl Lake. Nelson *et al.* (1991b)

report gold concentrations of 49 ppb and 99 ppb in small quartz carbonate veins in rocks exposed near Dolphin Lake, several kilometres to the southeast, which strike into the anomalous zone.

In addition to the above, several sites with elevated gold concentrations >95th percentile occur as isolated highs throughout the survey area, particularly within Quesnellia. For example, a single site (1192) containing 11 ppb gold occurs in the eastern end of Inzana Lake, perhaps reflecting pyrite-bearing quartz veinlets and silicified argillite (121 ppb gold) exposed nearby on the north shore of the lake (K.A. Bellefontaine, pers. comm., 1996). Nearly all such sites are located above rocks of the Quesnel Terrane, but one site (1311) containing 9 ppb gold occurs above Cache Creek Group rocks northeast of Trembleur Lake. As discussed in the section on quality control, results of reanalyses of those sediments with the highest gold concentrations confirms the reproducibility and validity of the initial analyses.

ARSENIC AND ANTIMONY

Median arsenic and antimony concentrations in the Pinchi Lake survey area are 5.9 ppm and 0.8 ppm, respectively. Maximum concentrations are 316 ppm for arsenic and 8.4 ppm for antimony. Note that all determinations are by INAA; no AAS data for arsenic and antimony is reported here.

Highest median arsenic concentrations (11.0 ppm) occur in lake sediments draining Cache Creek Group blueschists (PTrCCb), which are associated with deep-seated faults; background levels here are about twice that of the regional median. However, the highest individual sediment arsenic concentrations occur in lakes above Cache Creek Group pelagic sediments (PTrCCs). Those concentrations >95th percentile occur in two distinct areas:

- A roughly east-west trending zone of extremely high sediment arsenic concentrations in lakes immediately west of the northern end of Tezzeron Lake. This approximately 10 kilometre x 4 kilometre zone comprises 13 sites with arsenic >95th percentile, including the single greatest arsenic concentration in the Pinchi survey area (site 1343; 316 ppm). Several lakes contain more than 50 ppm arsenic. This zone occurs within a narrow glaciolacustrine plain which occupies the valley between Tezzeron Lake and Trembleur Lake. The plain is characterized by a generally 2-4 metre thick blanket of glacial lake sediments and numerous lakes and small kettle holes (Plouffe, 1994).

- A slightly smaller zone of elevated arsenic concentrations, up to 30 ppm, located near the east end of Trembleur Lake. This area is within the same glaciolacustrine plain as the first zone above.

Among other single lakes with elevated arsenic concentrations, the most notable is a site (1017; 103 ppm) near the eastern border of the survey area within a region presently mapped as Chilcotin Group basalts.

Highest median antimony concentrations (1.3 ppm) occur in Cache Creek Group volcano-sedimentary units (PTrCCvs). Elevated concentrations >95th percentile (2.4 ppm) occur in lakes over several units, but are most common in the aforementioned unit (PTrCCvs), Cache Creek Group blueschists (PTrCCb), and various sedimentary units of the Takla Group (uTrTt, muTrTs). There are two zones of elevated antimony values:

- Sediments in parts of Pinchi Lake, which contains the highest antimony concentrations in the Pinchi survey area. Antimony concentrations of eight of the nine samples obtained from Pinchi Lake fall within the upper 5 percentiles of the regional data set. Of these, the highest concentrations (3.5 - 8.4 ppm) are found in centre sediments of the northwest arm, immediately off the former Pinchi Lake mercury mine and known mercury prospects along the lakeshore. Unlike the distribution of mercury in this area, anomalous antimony concentrations are confined to Pinchi Lake itself and are not present in the small ponds on the north side of the lake.
- In areas underlain by Takla Group rocks along the Dem Lake fault, which parallels the Pinchi fault zone. Here, three small zones to the north and northeast of Tezzeron Lake comprise clusters of elevated antimony concentrations up to 4.3 ppm. These zones are roughly coincident with areas of anomalous gold in lake sediments near the Hat Lake prospect in the Dem Lake area, and near Hatdudatehl Lake.

Arsenic and antimony distributions in the Pinchi Lake survey area are not coincident. The arsenic distribution is similar to that of molybdenum, whereas the antimony distribution is, in places, closely related to that of gold above Takla Group rocks. Sites with elevated antimony concentrations also appear to be related to the location of the Dem Lake fault.

COPPER

The median copper concentration (AAS) in the Pinchi survey area is 50 ppm (maximum: 250 ppm), somewhat higher than that reported in prior surveys of the Nechako River area (NTS 93F) to the south (Cook and

Jackaman, 1994) and of the Whitesail and Smithers areas (NTS 93E, L) to the west (Johnson *et al.*, 1987a,b). Elevated copper values > 95th percentile (99 ppm) are most commonly associated with lakes draining Takla Group sedimentary rocks (uTrTt), and Early and Middle Jurassic plutonic units (EJd, MJt). There are three distinct zones of elevated copper concentrations in the Pinchi survey area, none associated with any known mineral deposits and each spatially associated with plutonic rocks of varying ages:

- A zone of three widely-spaced anomalous copper values within and near the margin of the Middle Jurassic Shass Mountain Pluton (MJt). The highest lake sediment copper concentration (site 1454; 250 ppm) occurs in a small pond in this area south of Whitefish Lake.
- Four closely-spaced sites within and along the western margin of the Middle Jurassic to Early Cretaceous Francois Intrusion located in the western part of the survey area. Lake sediment copper concentrations above this intrusive body, which forms a topographic high in the area between Stuart and Trembleur lakes, are in the range 105 - 110 ppm.
- A large region (approximately 15 x 10 kilometres) of elevated copper concentrations above Takla Group rocks in the eastern Inzana Lake area. The highest copper concentrations (125 - 166 ppm) occur here at three closely-spaced sites near the intrusive contact of the Kalder Pluton with the Inzana Lake succession (Nelson *et al.*, 1991b). Six additional sites containing up to 160 ppm copper, many with coincident selenium anomalies, are present north and south of Inzana Lake. Nelson *et al.* (1991b) report 105 ppb gold and 126 ppm copper from a stream sediment site in the northern part of this zone.

Among other sites with elevated copper concentrations are a lake (site 1127) immediately downice of the Tas and Freegold gold-copper prospects, and a second lake (site 1322) downice of the Dem prospect. Both sites are adjacent to small plutonic bodies.

MOLYBDENUM

The median molybdenum concentration in Pinchi Lake survey area sediments is 4 ppm by AAS and 3 ppm by INAA. Maximum concentrations are 65 ppm and 62 ppm, respectively, far in excess of background levels. Distribution patterns for molybdenum determined by the two methods are very similar; INAA concentrations are used in the following discussion.

Elevated molybdenum concentrations >95th percentile (AAS: 16 ppm; INAA: 15 ppm) are associated with several units of both the Takla and Cache Creek

Group, but with the possible exception of one site downice of the Dem prospect, there is no spatial association with any presently known mineralization. In particular, highly anomalous molybdenum values are associated with both Upper Triassic and Middle to Upper Triassic Takla Group sedimentary assemblages (uTrTt, muTrTs), and with pelagic sedimentary rocks of the Cache Creek Group (PTrCCs). The most notable zone of elevated molybdenum concentrations is a tightly-spaced cluster of nine sites containing up to 38 ppm molybdenum located above Cache Creek Group rocks several kilometres west of Tezzeron Lake. This zone is coincident with, although slightly smaller than, the prominent zone of elevated arsenic within lake sediments situated above glaciolacustrine silt, sand and clay between Tezzeron and Trembleur lakes. Elsewhere in the survey area, almost no other sites with molybdenum >95th percentile occur above Cache Creek Group rocks. Above Takla Group rocks, however, several sites with elevated molybdenum occur in a scattered fashion and form no discernable trends. Several sites are located in the Inzana Lake region and, perhaps significantly, three others straddle the Dem Lake fault in the southeastern part of the map area. The single highest molybdenum concentration (62 ppm) occurs as a single site (1017) in an area mapped as underlain by Chilcotin Group volcanics. Elevated arsenic also occurs at this site.

ZINC

The median zinc concentration (AAS) in the Pinchi survey area is 131 ppm (maximum: 2600 ppm), slightly higher than that reported in prior surveys of the Nechako River area (NTS 93F) to the south (Cook and Jackaman, 1994) and of the Whitesail and Smithers areas (NTS 93E, L) to the west (Johnson *et al.*, 1987a,b).

Elevated zinc values >95th percentile (265 ppm) are associated with several units of both the Cache Creek and Takla Groups. The highest zinc concentration (2600 ppm) occurs in a pond above Takla Group sedimentary rocks (uTrTt) west of Hatdudatehl Lake, and two ponds east of Tezzeron Lake near the Dem Lake fault form a small zone containing 310 - 435 ppm zinc. However, the vast majority of elevated zinc values occur above Cache Creek Group pelagic sedimentary rocks (median: 149 ppm) and blueschist rocks (median: 153 ppm) where they are present as two distinct zones:

- The southeastern part of the narrow glaciolacustrine plain between Tezzeron and Trembleur lakes, where seven sites containing at least 266 ppm zinc, and numerous sites with lesser zinc, form a zone which is roughly peripheral to an extensive molybdenum-arsenic

anomaly. Sediments here (max: 595 ppm zinc) may also contain elevated silver concentrations.

- The northwestern part of the same glaciolacustrine plain, where seven sites containing up to 480 ppm zinc form a zone which is roughly peripheral to a large arsenic anomaly at the east end of Trembleur Lake. Coincident elevated silver values are less common here than in the first zone above, and no elevated molybdenum values are present.

SILVER

The background silver concentration in the survey area, as expressed by the median, is 0.3 ppm. Median silver concentrations are in the range 0.2 - 0.4 ppm for most underlying geological units, but the highest median concentration (0.5 ppm) is for sediments of those lakes draining Early Jurassic diorite intrusives (EJd).

There are numerous sites in the survey area with elevated silver concentrations well in excess of background values. For example, twenty-one sites report silver concentrations in the range 0.8 - 2.0 ppm, considerably more than in parts of the Nechako River map area to the south (Cook and Jackaman, 1994) where elevated silver concentrations in lake sediments led to the staking of the Wolf prospect (Dawson, 1988) in the early 1980's. There are no large zones of contiguous anomalous sites, but several small clusters of elevated silver values >95th percentile (0.7 ppm) are present, particularly above Takla Group sedimentary and volcanic units in the Tezzeron Creek (93K/16) map area. Of these, the most notable is the Kalder Lake area, where elevated silver concentrations of 1.0 - 1.2 ppm occur at five sites north of, and within, the Early Jurassic Kalder Pluton. Elevated silver values also occur at four additional sites near the southwest and northeast margins of the smaller Early Jurassic intrusion immediately south of the Kalder Pluton. One of these sites (1127) is 3-4 kilometres downice of the Tas and Freegold gold-copper prospects; it contains the highest silver concentration (2.0 ppm) in the Pinchi survey area. Yet another anomalous lake sediment site in the Tezzeron Creek map area is located downice of the Hat Lake prospect.

Elevated silver concentrations up to 1.3 ppm are also associated with sedimentary and blueschist units of the Cache Creek Group (PTRCCs, PTRCCb). Several such sites occur in lake sediments within the glaciolacustrine plain between Tezzeron and Trembleur lakes. Interestingly, the three sites nearest the large molybdenum-arsenic anomaly in this area, just west of Tezzeron Lake, are marginal rather than coincident with that anomalous zone.

MERCURY

Median mercury concentration of Pinchi survey area lake sediments is 130 ppb, greater than those median values reported in the Nechako area (80-110 ppb) by Cook and Jackaman (1994). Maximum mercury concentrations here are also considerably greater, reaching values as high as 4150 ppb. The following discussion is based on raw data only and does not consider the role of organic scavenging in controlling lake sediment mercury concentrations.

Elevated mercury concentrations are associated with several geological units. The highest individual concentrations, including the maximum value, occur in lake sediments draining Cache Creek Group blueschists (PTRCCb); this unit also has the highest mean concentration at 590.6 ppb mercury (18 sites; median: 120 ppb). However, this is largely due to the presence of a few extremely high mercury concentrations at several sites in Pinchi Lake. Overall, the highest median mercury concentrations occur in lakes draining Takla Group sedimentary rocks (uTrTv; median: 210 ppb) and volcanic rocks (uTrTt; median: 170 ppb), and Early Jurassic diorite intrusives (EJd; median: 160 ppb). Elevated mercury concentrations >95th percentile (330 ppb; 21 sites) occur in four main areas: 1) in and around Pinchi Lake, in the vicinity of the Pinchi mercury belt; 2) the 93K/09,16 border area, 3) the Inzana Lake area, and 4) the area west of Inzana Lake.

- The five highest mercury values in the survey area are located within the Cache Creek Group in the northwest arm of Pinchi Lake, offshore of the former Pinchi Lake mercury mine (MINFILE 93K049) and several nearby mercury prospects. The single greatest value (4150 ppb) is located immediately offshore of the former minesite. Additional mercury concentrations of 1900 ppb and 2400 ppb occur in the centre of the lake immediately to the northwest; the latter is directly offshore of the Cin prospect (MINFILE 93K047). Somewhat lower concentrations of 600 ppb and 810 ppb mercury occur in embayments at the far northwest end of the lake. Two additional sites in this area with elevated mercury concentrations (360 ppb and 410 ppb) are located within the Cache Creek Group in the area between Pinchi and Tezzeron Lakes. Source of the mercury here is unknown, as the two lakes are located north of the presently-known mercury prospects near the shore of Pinchi Lake.

- Three closely-spaced lakes with sediment mercury concentrations in the range 380-410 ppb occur along the border between the Pinchi Lake (93K/09) and Tezzeron Creek (93K/16) map areas. This area is underlain by Takla Group volcanics.

- Numerous sites with elevated mercury concentrations are located immediately to the south, east and, to a lesser extent, north of Inzana Lake. These lakes are mostly underlain by Takla Group volcanics; a few occur within the Kalder Pluton. Those sites at the eastern end of Inzana Lake generally coincide with a zone of elevated mercury in till reported by Plouffe (1995a,b). There does not seem to be any close spatial relationship between most of these sites and the known porphyry copper-gold prospects in the area, although one site (1127; 410 ppb) with coincident copper and silver anomalies is downice of both the Tas and Freegold prospects. The source of the elevated mercury in sediments on the south side of Inzana Lake is unknown; there is no known mineralization here, and Plouffe (1995a,b) provide no data for this area. Their roughly linear trend suggests an unknown fault structure.

- A single site with 600 ppb mercury (Chu Lake) situated above Takla Group volcanics in the northwest corner of the survey area between Inzana and Kazchek lakes may be related to an extensive zone of elevated mercury in till just north of the Fort Fraser map area which was reported by Plouffe (1995a). This zone is located immediately north, and parallel to, the survey area boundary. The presence of two other sites with high mercury concentrations (290 and 320 ppb) to the north of Inzana Lake support this interpretation.

CHROMIUM AND NICKEL

Median chromium concentration (INAA) in lake sediments of the survey area is 57 ppm (max: 780 ppm). Median nickel concentrations are 34 ppm by INAA and 35 ppm by AAS; maximum values are 490 and 650 ppm, respectively. The following discussion of the nickel distribution in the survey area is based on the AAS data, but distribution patterns for the two analytical methods are essentially the same. Note that no AAS chromium data is available here.

Nickel and chromium distribution patterns are very similar. Lakes underlying Cache Creek Group volcano-sedimentary units (PTrCCvs) contain the highest median concentrations of chromium (120 ppm) and nickel (66 ppm) relative to other geological units listed in Appendix C. These values are approximately twice that of regional background concentrations. Highest individual chromium values are associated with this unit and with Cache Creek Group ultramafic rocks (PTrCCu). Mean chromium and nickel concentrations for the nine sites underlain by the ultramafic unit are 231 ppm and 230 ppm, respectively. No summary statistics are given for this unit in Appendix C as it contains less than 10 sample sites. In general, elevated concentrations of chromium

(95th percentile: 150 ppm; max: 780 ppm) and nickel (95th percentile: 98 ppm; max: 650 ppm) are localized in two areas where slices of Cache Creek Group ultramafic rocks parallel the Pinchi fault zone:

- the Murray Ridge area southeast of Pinchi Lake, where five sites containing up to 780 ppm chromium, and six sites containing up to 575 ppm nickel, occur on and at the base of a prominent ridge of ultramafic rocks. The highest chromium (780 ppm) and nickel (575 ppm) concentrations here occur at two small ponds (sites 1434 and 1435) on the southeast flank of the ridge. The Murray Ridge chromium showing (MINFILE 93K012) is located on the south side of the ridge near the summit.

- the Pinchi Mountain area, where five sites containing up to 350 ppm chromium and eight sites containing up to 650 ppm nickel occur in the vicinity of an ultramafic unit located between Pinchi and Tezzeron lakes. Several of the sites with the highest chromium and nickel values are tightly clustered on the northwest side of Pinchi Mountain.

Among other sites in the survey area with elevated chromium concentrations are two sites in embayments on the northeastern side of Pinchi Lake which appear to be unrelated to either the two main zones of chromium concentrations, or the mapped distribution of ultramafic rocks. The geological map of the Pinchi Lake area of Paterson (1973) reveals no exposed ultramafic rocks in the watersheds of the two bays, although some basic rocks are indicated. The bays are downice of ultramafic units exposed along the Pinchi fault zone, however, which may account for the chromium content of the sediments. Elevated nickel concentrations also occur in the Tarnzell and Camsell lakes areas in the western part of the survey area.

WATERS

WATER pH

The pH of raw surface lake waters in the Pinchi Lake survey area are in the range 5.6 - 8.5. Most lake waters are slightly alkaline; median pH is 7.8, and only a small proportion of sites (18 of 413; 4.4%) exhibit a pH < 7.0.

Carbonate units of the Cache Creek Group are the likely source of the slightly alkaline lake waters. Median pH of lakes underlain by these units (PTrCCl) is 8.0 (max: 8.5). Elevated pH values are also present in areas underlain by lowermost Takla Group (muTrTs) sedimentary rocks (median: 7.9; max: 8.5), and by several other units.

Acidic pH values are most common in areas underlain by pelagic sediments and blueschists of the Cache Creek Group (PTrCCs, PTrCCb), particularly between Tezzeron and Trembleur lakes. Four of the five lowest pH values < 6.5 occur here, three of which (sites 1169-1171) are just west of Tezzeron Lake. Slightly acidic pH values < 7.0 are also present above Takla Group sedimentary rocks (uTrTt) east of Tezzeron Lake.

SULPHATE

Median sulphate concentration in lake waters is 3 ppm, similar to the median values of 0.6 - 4 ppm sulphate reported for the Nechako River area to the south (Cook and Jackaman, 1994). Maximum sulphate concentration in the Pinchi Lake survey area is 55 ppm. Thirteen sites have sulphate concentrations > 10 ppm (95th percentile), well in excess of background values.

Elevated sulphate concentrations occur in areas underlain by Takla Group sediments (uTrTt) in the eastern part of the survey area, and in the Pinchi fault area between Pinchi and Tezzeron lakes. However, lakes with elevated sulphate are most common above pelagic sedimentary units of the Cache Creek Group (PTrCCs) to the southwest of Stuart Lake. Lake waters at numerous sites in this area near the contact with the Shass Mountain pluton contain at least 8 ppm sulphate (>90th percentile). Two of the three highest sulphate concentrations in the Pinchi Lake survey area (site 1472: 27 ppm; site 1488: 55 ppm) occur here just upslope of Stuart Lake.

SUMMARY AND RECOMMENDATIONS

Results of the Pinchi Lake survey reveal several geochemical patterns and trends, particularly in regard to exploration potential for porphyry molybdenum, porphyry copper-gold and other precious metal deposits. The data also provide useful information on regional geochemical trends in the area, as well as new information on the environmental geochemistry of Pinchi Lake.

PORPHYRY MOLYBDENUM TARGETS

The extensive molybdenum-arsenic-zinc \pm silver anomaly above Cache Creek Group rocks to the west of Tezzeron Lake should be prospected for its porphyry molybdenum potential. Here, coincident anomalous zones of molybdenum, arsenic, and fluoride (in water) in lakes within a glaciolacustrine plain occur within a larger, peripheral zone of elevated sediment zinc \pm silver

concentrations. A second, slightly smaller and more fluorine-rich zone immediately east of Trembleur Lake is similar, but lacks molybdenum.

There may be some similarity with the Mac porphyry molybdenum deposit some 30 kilometres to the west, approximately mid-way between the anomalous zone and the former Bell and Granisle copper-gold mines on Babine Lake. The Mac deposit was discovered while following up three molybdenum-copper-silver lake sediment geochemical anomalies. Data given by Cope and Spence (1995) indicate that the two lakes nearest the mineralized zones contain 16-24 ppm molybdenum and 89-105 ppm copper, and that these zones are associated with elevated fluorine in rocks. Molybdenum mineralization occurs along quartz stockwork veins associated with a granite stock of the Francois Lake suite intruding intermediate to basic volcanoclastic rocks of the Cache Creek Group (Cope and Spence, 1995; Godwin and Cann, 1985). Other granodiorite and ultramafic intrusive rocks are also present.

The molybdenum-arsenic-fluoride anomaly in the Pinchi Lake survey area is also underlain by Cache Creek Group rocks, in this case pelagic sediments (Bellefontaine *et al.*, 1995) such as argillite, chert and siltstone. No detailed mapping has been conducted in the area, and no intrusive rocks are presently known near the anomalous zone. However, Armstrong (1941) mapped a Mesozoic granite intrusive within the glaciolacustrine plain on the north side of the Kuzkwa River near Grand Rapids, several kilometres to the northwest. Molybdenum concentrations in lake sediments reported here are similar to, and slightly greater than, those adjacent to the Mac deposit. Elevated copper concentrations are not present here, but elevated silver values occur in some lakes.

The presence of a generally 2 - 4 metre thick blanket of glaciolacustrine silt (Plouffe, 1994) around the modern lakes and ponds might be expected to impede, rather than expedite, the hydromorphic transport of metals into lake basins in this relatively flat-lying area. However, the abundance of kettle lakes, which are typically deep, in this area suggests that many of the modern lake basins themselves likely intersect underlying till or are situated on buried bedrock masked beneath the Late Pleistocene glaciolacustrine plain. Elevated metal concentrations here presumably reflect the presence of elevated metals in bedrock, or dispersed within oxidized till, which have been subsequently transported hydromorphically into lake basins. Determination of the anomaly source must take into account both ice flow direction and the local hydrologic regime. Plouffe (1994) interpreted the glacial direction to be approximately east-southeast in the areas immediately north and south of the glaciolacustrine plain,

indicating that a possible bedrock source may exist beneath, or upice to the west-northwest, of the anomaly.

PORPHYRY COPPER-GOLD AND OTHER PRECIOUS METAL TARGETS

Known porphyry mineralization is reflected by lake sediment geochemistry in the Quesnel Terrane. For example, an isolated copper-gold-mercury-silver anomaly in the Pinchi Lake survey area reflects the locations of the Tas and Freegold porphyry prospects, and a copper-arsenic-antimony anomaly in another lake reflects the location of the Dem prospect. In general, elevated gold concentrations in lake sediments of the survey area are largely confined to Takla Group rocks, and many lakes with elevated multi-element precious and base metal concentrations (>95th percentile) occur within this region.

Zones of elevated polymetallic precious and base metal concentrations in lake sediments occur in three main areas, providing new exploration data for porphyry gold-copper targets (e.g. Mt. Milligan) and other precious metal deposits. First, many sites with elevated mercury-copper \pm gold \pm antimony values occur within a broad zone around the eastern part of Inzana Lake. Elevated copper concentrations are quite common throughout this area, but elevated gold and antimony concentrations are largely restricted to the south side of Inzana Lake, in the Hatdudatehl Lake area. Secondly, elevated gold-mercury-silver \pm copper concentrations occur in sediments of three closely-spaced lakes (Destlay to Chuzkeepah lakes) on the border between the Pinchi Lake (93K/9) and Tezzeron Creek (93K/16) map areas. Third, several small clusters of elevated silver \pm gold \pm mercury concentrations occur in the northeast corner of the survey area in and around the Kalder Pluton and a related intrusive. The Tas and Freegold prospects are within this broad zone, which extends from Kalder Lake to the south side of a smaller Early Jurassic pluton to the south. There is some overlap between this and the first zone above.

REGIONAL GEOCHEMICAL TRENDS

The distribution of elevated chromium and nickel concentrations in lake sediments outlines the regional distribution of obducted ultramafic rocks of the Cache Creek Group within the survey area.

PINCHI LAKE: MERCURY AND RELATED ELEMENTS

Pinchi Lake has long been of environmental interest because of the presence of elevated mercury levels in

tissues of fish (Peterson *et al.*, 1970; Reid and Morley, 1975) netted offshore of the Pinchi Lake mercury mine. Pinchi Lake sediments obtained here contain elevated concentrations (>95th percentile of the entire survey area data set) of several elements, most notably mercury and antimony. Nine sites on the lake were sampled. However, sampling was confined to four sites opposite the Pinchi Lake mercury mine in the shallower northwest arm, and to five sites in various embayments; three sites in the eastern end of the lake, and two more in the far western end. The deep profundal basin in the main part of the lake was not sampled.

Sample depths within the lake are in the range 6-17 metres; the four sites opposite the old minesite were sampled at fairly uniform depths of 12-15 metres. Pinchi Lake lies within the glaciolacustrine plain mapped by Plouffe (1994). Sediments sampled here are generally grey to grey-brown in colour and composed of a mixture of fine-grained clay and organic matter (see Appendix A), with correspondingly low LOI values in the range 5.4 - 18.3%. Clay-rich sediments are only rarely sampled during the course of regional lake sediment surveys in the Interior Plateau, which target the organic-rich gyttja of much smaller lakes and ponds. They are usually only obtained from isolated embayments on large lakes which are otherwise not sampled.

Pinchi Lake sediments contain elevated concentrations (> 95th percentile) of mercury, antimony, cobalt, barium, cesium, hafnium, rubidium, scandium and thorium at all or most of the nine sites. In addition, elevated concentrations of several other elements including ytterbium, tantalum, lead, fluorine and chromium are present in at least two of the sites. High, and generally highest, concentrations of mercury, antimony and most other elements are found immediately offshore of the old minesite and nearby prospects, but they are not restricted to only this part of the lake. In the case of cobalt, for example, concentrations of this metal (27 ppm; INAA) within the deep bay at the far eastern part of the lake (site 1239; 17 metres) are equal to that present off the old minesite (site 1154). Higher chromium and arsenic concentrations are also present in the bay, the drainage basin of which is underlain by different, primarily volcano-sedimentary and to a lesser extent ultramafic, units of the Cache Creek Group. Differences in sediment geochemistry here may reflect the varying element contributions of different rock units. Similarly, slightly higher concentrations of barium and cesium are present at the far western end of the lake than occur off the old minesite, although the two groups of sites are a shorter distance (approximately 4 kilometres) apart.

GOLD AND OTHER ELEMENTS IN LAKE SEDIMENTS OF THE NECHAKO PLATEAU

Lake sediments typically consist of organic gels, organic sediments and inorganic sediments (Jonasson, 1976). Organic gels, or gyttja, are mixtures of particulate organic matter, inorganic precipitates and mineral matter (Wetzel, 1983), and are mature green-grey to black homogenous sediments characteristic of deep-water basins. Organic sediments are immature mixtures of organic gels, organic debris and mineral matter occurring in shallow water and near drainage inflows (Jonasson, 1976). Inorganic sediments, by contrast, are clastic-rich mixtures of mineral particles with little organic matter. Of the three varieties of lake sediments, organic gels are the most suitable geochemical exploration medium because of their higher capacity for adsorbing metals and their greater homogeneity; deep-water basins where they accumulate have been favoured as ideal sites for regional geochemical sampling (Friske, 1991).

Lake sediments have proved to be an ideal geochemical exploration medium in the Nechako Plateau, where poor drainage has limited the use of stream sediment geochemistry. Earle (1993) has demonstrated the usefulness of lake sediment geochemistry in the area, and many regional surveys have been conducted, including those of various mineral exploration companies, Spilsbury and Fletcher (1974), Hoffman and Fletcher (1976) and Gintautas (1984). As a prelude to the implementation of regional lake sediment surveys in the northern Interior, a series of orientation surveys were conducted in the Nechako Plateau (Cook, 1993) to determine the most effective sampling, analytical and interpretive techniques. Results indicate that lake sediment geochemistry reflects the presence of nearby epithermal gold occurrences. In the Nechako River (NTS 93F) map area, located immediately south of the Pinchi Lake survey area, elevated gold concentrations occur in sediments of three lakes adjacent to three epithermal precious metal occurrences: the Wolf (MINFILE 93F045), Clisbako (MINFILE 93C016) and Holy Cross (MINFILE 93F029) prospects. The following discussion is taken largely from Cook (1995, 1997), which provide a more detailed account of the distribution of gold and related elements in sediments of these lakes.

GOLD CONTENT OF LAKE SEDIMENTS

Orientation studies conducted near the Wolf, Clisbako and Holy Cross epithermal precious metal occurrences indicate that elevated concentrations of gold

(max: 56 ppb, 16 ppb and 9 ppb, respectively), arsenic and other elements occur in adjacent lake sediments. Median concentrations of gold and other elements in regional lake sediment surveys provide a useful estimate of regional background levels with which to compare these figures. For example, median gold and arsenic concentrations reported here for sediments of the Pinchi Lake survey area are 2 ppb and 5.9 ppm, respectively. Similarly, the median gold and arsenic concentrations in lake sediments in the Fawnie and Ootsa survey areas (461 sites) are 1 ppb and 2.1-2.7 ppm, respectively (Cook and Jackaman, 1994). Farther to the west, median gold and arsenic concentrations of RGS lake sediments (445 sites) from nearby NTS map areas 93E (Whitesail Lake) and 93L (Smithers) (Johnson *et al.*, 1987a,b) are 1 ppb and 4 ppm, respectively. These regional median values are far less than those reported for sediments adjacent to epithermal mineralization by Cook (1995), illustrating the very low concentrations of gold typically present in lake sediments. In the Whitesail and Smithers areas, only 22 of 421 sites contain more than 10 ppb gold. Element concentrations adjacent to epithermal gold occurrences are greater than regional background even when underlying bedrock variations are considered. For example, mean gold (1.8 - 2.6 ppb) and arsenic (4 - 5.1 ppm) concentrations in lake sediments over prospective rhyolite, tuff and volcanic breccia lithologies reported by Earle (1993) are still considerably less than those reported from near the Wolf, Clisbako and Holy Cross prospects.

DISTRIBUTION AND SOURCE OF GOLD IN LAKE SEDIMENTS

Centre-lake sediments may, but do not necessarily, contain the highest gold concentrations, and elevated gold values may be present in lake margin sediments and adjacent to stream inflows. The gold distribution in the small Wolf Pond basin is very uniform, and the small size of the watershed makes the source area relatively easy to discern. The Clisbako Lake and Bentzi Lake watersheds are considerably larger, but nevertheless the locations of alteration and mineralized zones are revealed by gold distribution patterns in the sediment (Cook, 1995). For example, gold distribution patterns at stream inflows of Clisbako Lake reflect the locations of alteration zones to the south and northwest of the lake. Available evidence suggests a hydromorphic, rather than clastic, origin for the high gold concentrations in sediments of these three

lakes. Evidence includes the close association of gold with organic matter, the similarity of gold concentrations in field duplicate samples, the uniformity of gold concentrations at similar sediment depths, and the apparent absence of significant clastic input into the lake basins, particularly at Wolf Pond. Schmitt *et al.* (1993) have summarized studies relating to the mobility of gold in surface waters. Gold may form the hydroxide complex $\text{AuOH}(\text{H}_2\text{O})^0$ in neutral sulphur-poor lake waters, as well as gold-humic complexes in suspended matter, permitting a limited degree of down-drainage hydromorphic dispersion. Hydromorphic gold dispersion distances of 200 to 300 metres were suggested by Fox *et al.* (1987) for lakes in the Canadian Shield, but results of Cook (1995, 1997) suggest considerably greater distances are likely. Perhaps the most interesting finding is the close association between gold and organic matter, whether in deep-water gyttja (Bentzi Lake) or shallow near-shore organic sediments (Clisbako Lake).

The association of gold and organic matter in lake sediments from Shield regions is well known. Several studies in Saskatchewan and Ontario (Schmitt *et al.*, 1993; Fox *et al.*, 1987; Coker *et al.*, 1982) have reported the presence of elevated gold concentrations in organic-rich sediments. Near-shore organic sediments may scavenge gold before it disperses to deeper parts of the lake. Both Coker *et al.* (1982) and Fox *et al.* (1987) noted that organic-rich sediments with highest gold concentrations may be near-shore sediments as well as those of the profundal basin. There is little relation between elevated gold concentrations and those of iron or manganese in either Clisbako or Bentzi Lake, suggesting scavenging by iron or manganese oxides to be relatively unimportant. Considerably higher iron concentrations are associated with anomalous concentrations of gold and other elements at eutrophic Wolf Pond, however.

FACTORS CONTROLLING THE ABUNDANCE AND DISTRIBUTION OF RELATED ELEMENTS

Lake sediment composition is influenced by a combination of factors including bedrock and surficial geology, climate, soils, vegetation, mineral occurrences and limnological considerations. In the case of lakes adjacent to epithermal precious metal occurrences, the presence or absence of multi-element geochemical signatures may be related to the level of the hydrothermal system exposed to the weathering cycle. Elevated concentrations of gold, silver, arsenic, zinc, molybdenum and antimony occur in sediments draining the Wolf prospect, but lake sediments at the Clisbako and Holy Cross occurrences contain elevated concentrations of only

gold, arsenic and antimony. Base metal distributions increase with depth in epithermal systems, while near-surface arsenic and antimony may indicate potential precious metal deposits at lower levels (Panteleyev, 1986). Consequently, elevated levels of gold, arsenic and antimony alone in sediments, such as at Clisbako, may reflect the geochemistry of near-surface systems; a wider variety of precious and base metals may indicate a deeper position within the system. For purpose of comparison, molybdenum concentrations up to 23 ppm obtained from the centre basin of Wolf Pond are equivalent to the highest molybdenum concentrations present in sediment of Tatin Lake, adjacent to the Ken porphyry molybdenum-copper occurrence (MINFILE 093K 002) about 6 kilometres north of Endako (Cook, 1997).

Limnological variations in lakes may affect the accumulation of trace elements in lake sediments. The temperature and oxygen content of lake waters in northern temperate regions may stratify during the warm summer months, overturning with seasonal changes in the spring and fall. Of such thermally-stratified, or dimictic, lakes, eutrophic lakes are those small nutrient-rich lakes with high organic production and almost complete oxygen depletion with increasing depth. Conversely, oligotrophic lakes are deep, large, nutrient-poor lakes with low organic production and a much more constant oxygen content with depth. Polymictic or unstratified lakes are relatively shallow and are not thermally stratified. Earle (1993) and Hoffman and Fletcher (1981) have shown that there are distinct geochemical differences between the sediments of eutrophic and oligotrophic lakes, particularly with respect to the abundance of organic matter and of iron and manganese oxides. High organic matter content is characteristic of eutrophic lakes, while manganese and iron oxide precipitates are products of the oxygen-rich conditions of oligotrophic lakes.

Limnological classification, or trophic status, may consequently have a significant influence on interpretation of lake sediment geochemistry. Considerable variations may exist even among separate sub-basins and channels of the same lake. For example, molybdenum distributions vary between sub-basins in sediments of Tatin Lake, a large (4-5 km long) lake containing three distinct sub-basins (Cook, 1997). Molybdenum concentrations in centre-basin sediments vary from 7 ppm in the centre of the lake, to 12 ppm and 23 ppm in western and eastern sub-basins, respectively. These variations may be controlled, in part, by limnological differences between the sub-basins and, in part, by the location of stream and ground water input.

LAKE SEDIMENT GEOCHEMISTRY SUCSESSES: THE TSACHA EPITHERMAL GOLD PROSPECT

The discovery of the Tsacha epithermal gold prospect (MINFILE 093F 055), located immediately north of the Blackwater River in the Fawnie Creek map area (NTS 93F/3), is an example of the success of regional lake sediment geochemistry surveys in stimulating mineral exploration and development in the northern Interior Plateau. First reported as the Tommy prospect by Diakow *et al.* (1994) and subsequently staked by Teck Corporation, the discovery resulted from a British Columbia Geological Survey Branch regional bedrock mapping, lake sediment geochemistry and till geochemistry investigation conducted in the Fawnie Creek and adjacent Tsacha Lake map areas during the 1993 field season. A bedrock mapping party discovered an auriferous epithermal quartz vein system cropping out on hummocky, moss-covered knobs in the Tommy Lakes area of the Naglico Hills, and the subsequent release of lithogeochemical data (Diakow *et al.*, 1994) at the Cordilleran Roundup conference in Vancouver in January 1994 resulted in the initial staking of the prospect. Regional lake sediment and till geochemistry surveys had been undertaken concurrently during the summer, and the subsequent (June 1994) release of this data, showing elevated gold values in lake sediment and till (Cook and Jackaman, 1994; Levson *et al.*, 1994), resulted in further claim staking.

The location of the Tsacha prospect is clearly outlined by four small lakes, containing elevated sediment gold values of 4 to 256 ppb (Figure 9), which roughly encircle the mineralized zone. In comparison, background sediment gold concentrations in the region are 1 ppb. Reanalysis of sediment with the three highest gold concentrations (256 ppb, 44 ppb and 8 ppb) returned gold values of 970 ppb, 26 ppb and 7 ppb, respectively, confirming the validity of the initial gold anomalies. Sediment in a lake adjacent to the Wolf Prospect, the other significant epithermal showing in the area, is distinguished by a multi-element gold-arsenic-silver-zinc-molybdenum-mercury geochemical signature (Cook, 1997), but sediment in the four Tsacha-area lakes exhibit few geochemical similarities other than elevated gold and, to a lesser extent, copper concentrations. Elevated arsenic, zinc and lead concentrations occur in one lake (site 1215), and elevated mercury in another, but the area lacks an overall multi-element signature of what are commonly termed pathfinder elements.

The regional bedrock and surficial geology of the area has been mapped by Diakow *et al.* (1994, 1995) and Levson and Giles (1994). The lakes and their watersheds

are floored by Early to Middle Jurassic rhyolitic rocks of the Hazelton Group. Naglico formation volcanic sandstone, siltstone and conglomerate and rhyolitic lithic and ash flow tuffs are exposed along the northern margin of felsic - intermediate Tertiary sills and dykes. Surficial geology in this part of the Naglico Hills is primarily exposed bedrock and till veneer in upland areas, with glaciofluvial outwash plains occupying low-lying valley bottoms between the lakes. Geology and development of the Tsacha prospect was summarized by Lane and Schroeter (1997), and the following is from their account. A program of soil geochemistry, prospecting, sampling and trenching was conducted by Teck in 1994, followed by diamond drilling in 1995 and 1996. The main (Tommy) vein is north trending, vertically dipping, and is composed primarily of quartz, calcite and chalcedony. It is up to 8 metres wide and has a strike length exceeding 600 metres. Massive vein mineralization may be flanked by quartz stringer, stockwork or breccia zones, but contains less than 1% metallic minerals including chalcopryrite, pyrite, stephanite, argentite, galena, native gold (\pm electrum), specularite and magnetite. Surface sampling across the vein has returned assays of up to 61.9 grams/tonne gold and 292.5 grams/tonne silver (Pautler, 1995).

The Tsacha prospect is only one example of the successful application of regional lake sediment geochemical surveys, both public and private, to mineral exploration in the northern Interior Plateau. As part of a comparative study of regional lake sediment and till geochemistry results from a single 1:50 000 scale map area, the Fawnie Creek map area, Cook *et al.* (1995) provide a broader account of the usefulness of lake sediment geochemical surveys in this region. Here, five of seven known mineral prospects were outlined by regional lake sediment geochemistry data of Cook and Jackaman (1994), using elevated combinations of seven elements (Au, As, Sb, Zn, Cu, Pb and/or Mo >95th percentile). The five prospects are the Wolf, Fawn (Gran), Buck, Paw and Tsacha occurrences. Only the relatively minor Malaput and Fawn-5 prospects, neither of which is located near a lake, were undetected by the regional lake sediment survey.

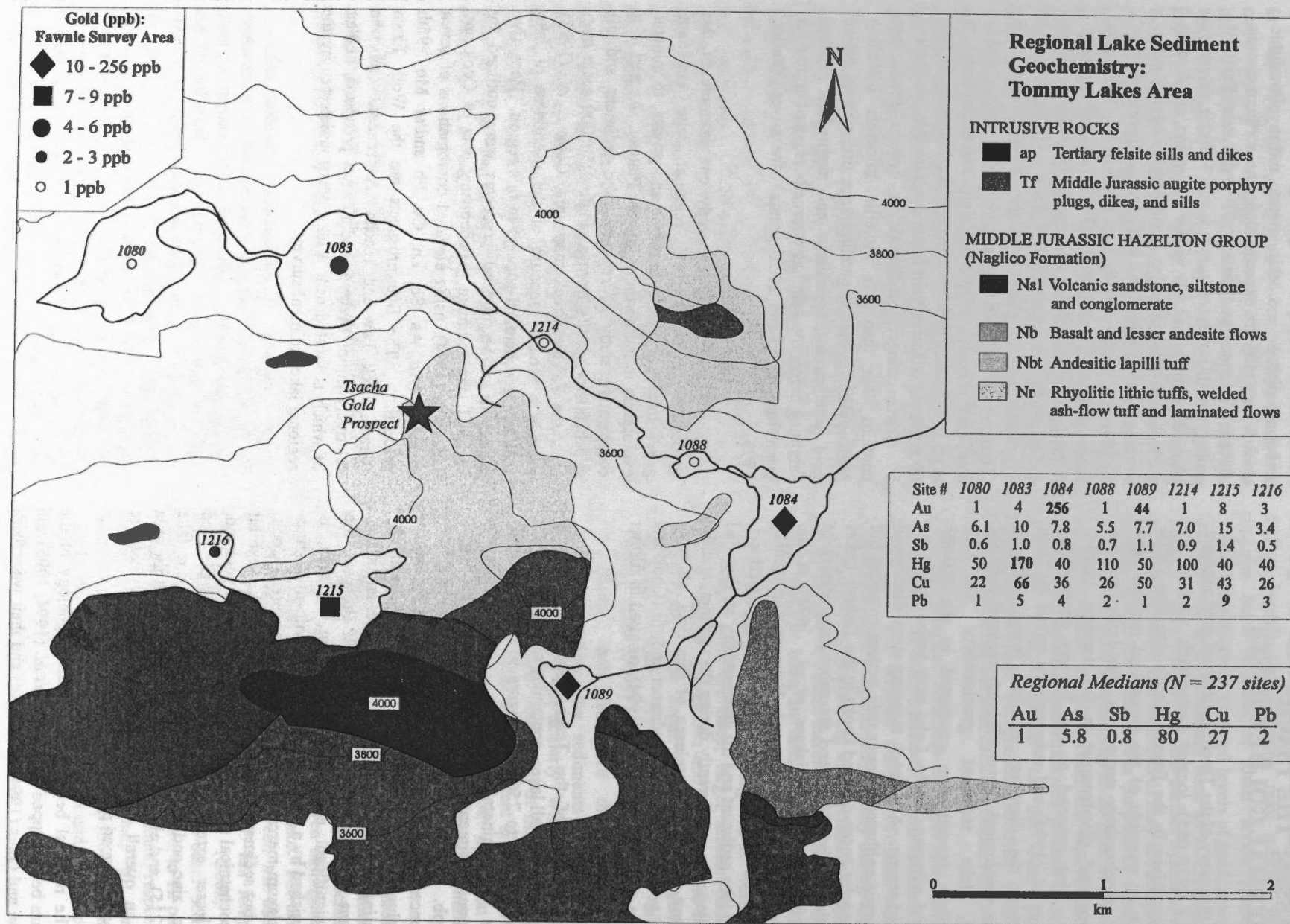


Figure 9. Locations of lakes with elevated sediment gold concentrations in the vicinity of the Tsacha epithermal gold prospect in the Nechako Plateau, central British Columbia. Concentrations of gold and other elements from data for 237 sediments sampled June 15-18, 1993 as part of the Fawnie regional lake sediment geochemistry survey (Cook and Jackaman, 1994). Elements in bold type exceed the 95th percentile for the Fawnie survey. Bedrock geology after Diakow *et al.* (1994, 1995).

EXPLORATION RECOMMENDATIONS FOR GOLD

Studies in other parts of Canada (Fox *et al.*, 1987; Davenport and McConnell, 1988; Rogers, 1988) have determined lake sediment geochemistry to be an effective gold exploration method. However, results of some studies in the Canadian Shield (Fox *et al.*, 1987; Coker *et al.*, 1982) concluded reconnaissance-scale (one site per 6 to 13 km²) lake sediment exploration for gold to be inadequate for locating anomalous areas, and suggested that one to three samples per lake be collected. In Newfoundland, Davenport and Nolan (1991) considered a density of at least 1 site per 4 square kilometres to be necessary to ensure the detection of all significant near-surface gold mineralization. Results of geochemical studies in British Columbia (Cook, 1995, 1997) support the detailed sampling (*ie.* every lake) approach. The following recommendations are given for geochemical exploration for epithermal and other gold deposits in the northern Interior Plateau:

SAMPLE MEDIA AND SAMPLING STRATEGIES

- Lake sediment geochemistry is most effective for gold exploration if every lake and sub-basin in the survey area is sampled, a strategy employed in the Pinchi Lake and prior surveys. The high and homogenous gold content of, for example, Wolf Pond sediment (Cook, 1995) illustrates the importance of sampling even very small lacustrine drainages.
- A single centre-lake sample should be collected from the profundal basin in small lakes, and additional samples should be taken from the centres of all other major basins in multi-basin lakes. Although the lakes described by Cook (1995) do not, with the exception of Bentzi Lake, have more than one major basin, a wide range of copper and molybdenum concentrations occur between different sub-basins of lakes adjacent to porphyry molybdenum-copper occurrences (Cook, 1993).
- Collection of centre-lake gyttja samples is the most effective sampling method for trace elements such as copper and zinc, but evidence from studies in the Interior Plateau and elsewhere (Coker *et al.*, 1982; Fox *et al.*, 1987) suggests that gold may also be concentrated in near-shore organic-rich sediments,

particularly near drainage inflows. Collection of samples from these areas, in addition to collection of centre-lake sediment, is recommended for detailed surveys.

SAMPLE PREPARATION AND ANALYSIS

- The very low concentrations of gold in lake sediments demand the use of an analytical technique with a low analytical detection limit of 1 or 2 ppb. No comparisons of INAA with either fire assay/GF-AAS or ICP-MS techniques were conducted. If using fire assay techniques, however, low gold detection limits require greater vigilance with respect to sample contamination during analysis. Irregardless of the analytical method, routine analysis of silica blanks inserted within sample suites is a useful means of calculating a working detection limit for each batch of samples.
- A rigorous quality control program is a necessity when using lake sediments for gold exploration due to the particle sparcity effect and the very low concentrations of gold typically found in lake sediments. Inclusion of field duplicates, analytical duplicates, and control standards with appropriate organic-rich matrices and low concentration levels is recommended
- Analysis for additional elements other than gold is recommended. Arsenic and antimony are useful pathfinder elements in the northern Interior, and elevated concentrations of base metals such as molybdenum, zinc and copper may be present in lakes adjacent to the erosional remnants of lower level hydrothermal systems. Nevertheless, studies in Newfoundland (McConnell and Davenport, 1989; Davenport and Nolan, 1991) determined gold itself to be the best pathfinder, with antimony a more useful pathfinder element than arsenic.

FOLLOW-UP OF ANOMALOUS SITES

- Results of Cook (1995) indicate that gold concentrations of 4 ppb or greater in centre-lake sediments may reflect the presence of adjacent epithermal gold occurrences. Lower gold concentrations are generally indistinguishable from the geochemical background, due to sampling and analytical variability. Similar conclusions were reported from Newfoundland by Davenport and McConnell (1988), who considered gold concentrations greater than 4 ppb to represent anomalies, and those greater than 8 ppb to be strong anomalies. The very subtle level of gold anomalies in lake sediment cannot be overemphasized. For example, sediment in a lake adjacent to the large Hemlo gold deposits in northern Ontario was reported

by Friske (1991) to contain only 6 ppb gold in an area with a background of less than 1 ppb.

- Follow-up of anomalous lakes, involving both verification of the original anomaly and determination of a potential source direction, should include resampling of the centre-lake site, as well as the sampling of near-shore sediment from all sides of the lake. It is particularly important, during anomaly follow-up, to sample organic sediments near inflowing drainages. The collection of duplicate field samples is recommended. Delineating the watershed boundaries of anomalous lakes, particularly those small ponds with no apparent stream inflows, will assist in interpreting results of both the regional and follow-up surveys.

SUMMARY

A regional lake sediment and water geochemistry survey, the Pinchi Lake survey (413 sites), was conducted in the northeastern part of NTS map area 93K (Fort Fraser) in the northern Interior. The survey is a contribution to the ongoing objective of completing Regional Geochemical Survey lake sediment coverage of the Fort Fraser and Nechako River map areas in the northern Interior Plateau. This survey confirms the locations of several known mineral prospects, and outlines new areas for prospective porphyry-style molybdenum and gold-copper mineralization. The following points are of particular interest:

- A prominent zone of anomalous molybdenum-arsenic above Cache Creek Group rocks to the west of Tezzeron Lake should be explored for its porphyry molybdenum potential. A larger area of elevated zinc \pm silver sediment concentrations is roughly peripheral to the molybdenum-arsenic distribution pattern. A second, slightly smaller, zone immediately east of Trembleur Lake is similar, but lacks molybdenum.
- Within the Takla Group, potential new porphyry copper-gold and other precious metal targets are indicated, particularly in the Tezzeron Creek (93K/16) map area.
- Elevated concentrations of mercury, antimony, and several additional elements are present in sediments in part of Pinchi Lake.
- Elevated mercury concentrations are not universally present in all lake sediments along the Pinchi Fault Zone within the survey area. In this area they are largely confined to the northwest part of Pinchi Lake, and to the region between Pinchi and Tezzeron lakes.
- The distribution of lake sediment sites with elevated antimony concentrations north of Tezzeron Lake coincides closely with the position of the Dem Lake fault.
- The regional distribution of elevated chromium and nickel concentrations in lake sediments outlines the distribution of Cache Creek Group ultramafic rocks in the survey area.

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PREPARATION:

Bondar-Clegg and Company, Ottawa, Ontario

SEDIMENT ANALYSIS:

CanTech Laboratories Inc., Calgary, Alberta (AAS)
Becquerel Laboratories, Mississauga, Ontario (INA)

WATER ANALYSIS:

CanTech Laboratories Inc., Calgary, Alberta

The Geological Survey of Canada was responsible for data quality control, and the British Columbia Geological Survey Branch for Open File production and interpretation. Duties were allocated as follows:

Survey Design: *SC*
Sample Collection: *SC, WJ, MM, SD*
Quality Control: *PF*
Data Interpretation: *SC*
Geochemical Map Production: *WJ*
Open File Production and Coordination: *WJ, SC*

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Regional Lake Sediment and Water Geochemistry
of Part of the
Fort Fraser Lake Area
(93K/9,10,15,16)

Open File 1996-15

Appendix A

Field Observations and Analytical Data

Table 1 Reference Guide to Field Observations

A - 2 ... Field Observations and Analytical Data

Table 2 Reference Guide to Bedrock Geology (FORM)

Notes :

- Repeat analysis of Au by INA (reported as Au2) have been conducted for samples reporting Au values exceeding 5 ppb. Analytical duplicate results for Au are also reported as Au2.
- Au concentrations below the stated detection limit are presented as 1 ppb.

TABLE 1. REFERENCE GUIDE FOR FIELD OBSERVATIONS (modified after Garrett, 1974)

MAP	1:50,000 NTS map sheet number	COMP	Mechanical composition of the sediment sample: S Sand: sand-sized inorganic sediment F Fines: silt and clay-sized inorganic sediment O Organic: organic sediment with visible undecomposed organic debris G Gel (gyttja): homogenous fine-grained organic sediment
SAMPLE ID	Sample number	CONT	Presence of human or natural contamination near the lake shore: W Work site C Camp or ranch site F Fuel cache G Gossan
UTM ZONE	UTM Zone number	COLOUR	Sediment colour (up to two colours): Tn Tan Yw Yellow Gr Green Gy Grey Or Orange Br Brown Bl Black
UTM EAST	UTM East coordinate	SUSP	Suspended load in the lake water sample: L Light H Heavy
UTM NORTH	UTM North coordinate	DATE	Sample collection date (day-month)
REP	Replicate sample status: Routine sample 10 First sample of a field duplicate pair 20 Second sample of a field duplicate pair	LAKE NAME	Common lake name as recorded on NTS topographic and Forest District maps
FORM	Geological units (see Table A-2) Indicates the major geological unit of the lake catchment area	SITE	Number of sites sampled on each lake
SIZE	Lake area classification (square kilometres): 0 Pond (< 0.25) 2 1 - 5 km ² 1 .25 - 1 km ² 3 > 5 km ²		
AREA	Lake area (square kilometres; minimum: 0.01)		
PERI	Lake perimeter (kilometres; minimum: 0.01)		
DEPTH	Sample depth (metres) Recorded to the nearest metre		
RELIEF	General relief of the lake catchment area: L Low: flat lying plain M Medium: gently rolling hills H High: steep slopes		

TABLE 2. REFERENCE GUIDE FOR GEOLOGICAL UNITS: PINCHI LAKE SURVEY (geology after Bellefontaine *et al.*, 1995)

SEDIMENTARY AND VOLCANIC ROCKS

Tertiary to Quaternary

MPCv Chilcotin Group Miocene-Pliocene olivine basalt flows.

Upper Cretaceous to Lower Tertiary

KTS Sustut Assemblage Non-marine conglomerate, sandstone, shale and coal of the Sifton formation.

QUESNEL TERRANE

Lower Jurassic

IJCag Takla Group Heterolithic volcanic agglomerate, lahar and lapilli tuff. Part of the Chuchi Lake succession of Nelson *et al.*, (1991).

Upper Triassic

uTrTv Takla Group Carnian and Norian augite volcanic flows, breccia and agglomerates; subordinate plagioclase-bearing rock; minor tuffs. Includes Witch Lake succession of Nelson *et al.*, (1991).

uTrTt

Carnian and Norian tuffs, cherty tuffs and siliceous argillite. Includes Inzana Lake succession of Nelson *et al.*, (1991).

Middle to Upper Triassic

muTrTs Takla Group Late Anisian to Carnian interbedded black argillite, greywacke, siltstone, shale and minor limestone; minor ash tuff and tuffaceous argillite. Includes Rainbow Creek (Slate Creek) succession of Nelson *et al.*, (1991).

CACHE CREEK TERRANE

Pennsylvanian to Triassic

PTrCCv Cache Creek Group Massive green metabasalt; associated diabase and metagabbro.

PTrCCs

Pelagic sedimentary rocks: mixed argillite, siliceous argillite, chert, ribboned chert, siltstone, phyllite, sandstone. May contain small pods of interbedded limestone, mafic volcanics and ultramafic rocks.

PTrCCvs

Undivided basalt and pelagic sediments

PTrCCI

Massive dark-grey to blue-grey recrystallized limestone; subordinate bedded limestone and marble

PTrCCu

Ultramafic rocks: includes serpentinized harzburgite, peridotite, minor ultramafic serpentinized and carbonatized cumulates

PTrCCb

Blueschists: glaucophane-lawsonite bearing chert, schist, metagreywacke, metabasalt, limestone

INTRUSIVE ROCKS

Cretaceous and/or Tertiary

KTg Hornblende granite

Middle Jurassic to Early Cretaceous

JKgd Francois Intrusions Granodiorite

Middle Jurassic

MJt Shass Mountain Pluton Tonalite and diorite

Early Jurassic

EJd Diorite, microdiorite, porphyritic diorite; includes the Kalder Pluton

Late Triassic to Early Jurassic

TrJm Equigranular coarse and medium-grained monzonite; includes the Mt. Milligan pluton in NTS 93N

TrJd Equigranular and porphyritic diorite

TrJsy Syenite

SURF

Sampled from the lake water surface

1. Lake

2. Beach

DATE

Sample collection date (day-month)

LAKE NAME

Common lake name as recorded on NTS topographic and Forest District maps

SITE

Number of sites sampled on each lake

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K09	951002	10	432558	6039933	432458	6040144		muTrTs	0	0.02	0.65	1	L	G		Gr/Br	L	0410		1
93K09	951003	10	434675	6040495	434574	6040706		muTrTs	0	0.08	1.54	2	L	O		Br	L	0410		1
93K09	951004	10	435102	6041278	435002	6041489		muTrTs	0	0.03	0.71	1	L	O		Br	L	0410		1
93K10	951005	10	385009	6040640	384908	6040851	10	PTrCCs	3	3.52	20.49	6	M	G		Br/Gr	L	0410	GRASSHAM	7/7
93K10	951006	10	385009	6040640	384908	6040851	20	PTrCCs	3	3.52	20.49	6	M	G		Br/Gr	L	0410	GRASSHAM	7/7
93K10	951007	10	382805	6041119	382704	6041330		PTrCCs	3	3.52	20.49	22	M	G	C	Br/Gr	L	0410	GRASSHAM	1/7
93K09	951008	10	432205	6047810	432105	6048021		muTrTs	0	0.10	1.34	4	L	G		Br	L	0410		1
93K09	951009	10	431490	6047826	431390	6048037		muTrTs	0	0.02	0.59	3	L	O		Gr/Br	L	0410		1
93K09	951010	10	434972	6047692	434872	6047903		uTrTt	0	0.02	0.48	6	L	G		Br	L	0410		1
93K09	951011	10	434408	6048246	434308	6048457		uTrTt	0	0.03	0.67	6	L	G		Br/Bl	H	0410		1
93K09	951013	10	434245	6051056	434145	6051267		MPCv	0	0.03	0.72	3	L	G		Br/Bl	L	0410		1
93K09	951014	10	432552	6054405	432452	6054616		MPCv	0	0.10	1.45	3	M	G		Br	L	0410		1
93K09	951015	10	435030	6056037	434930	6056248		MPCv	1	0.52	3.35	19	M	G		Br/Gr	L	0410		1
93K09	951016	10	433474	6057974	433374	6058185		MPCv	0	0.15	1.79	2	L	G		Br	L	0410		1
93K09	951017	10	434522	6059567	434422	6059778		MPCv	0	0.01	0.34	7	L	G		Bl/Gy	L	0410		1
93K09	951018	10	432587	6059397	432487	6059608		MPCv	0	0.04	1.11	9	L	G		Br	L	0410		1
93K09	951019	10	429169	6060596	429069	6060807		uTrTt	0	0.01	0.01	1	L	O		Br	L	0410		1
93K09	951020	10	430881	6061382	430781	6061593		MPCv	0	0.09	1.21	1	L	O		Br	L	0410		1
93K09	951022	10	429840	6062157	429740	6062368		uTrTt	0	0.02	0.66	2	L	O		Br	L	0410		1
93K09	951023	10	429962	6063959	429862	6064170		uTrTt	0	0.01	0.01	2	L	O		Br/Tn	L	0410		1
93K09	951024	10	435343	6064431	435243	6064642		MPCv	0	0.01	0.01	1	L	O		Br	L	0410		1
93K16	951025	10	432128	6069012	432029	6069223	10	uTrTt	0	0.18	1.70	4	L	G		Br	L	0410		1
93K16	951027	10	433472	6069635	433373	6069846	20	uTrTt	0	0.13	1.45	2	L	G		Br/Gn	L	0410		1
93K16	951028	10	433475	6069637	433376	6069848		uTrTt	0	0.13	1.45	2	L	G		Br/Gn	L	0410		1
93K16	951029	10	435631	6070864	435532	6071076		uTrTt	0	0.06	1.19	1	L	O		Br/Tn	L	0410		1
93K16	951030	10	429136	6069599	429036	6069810		uTrTt	0	0.04	1.07	1	L	O		Br	L	0410		1
93K16	951031	10	431282	6071207	431183	6071418		uTrTt	1	0.39	3.41	3	L	G		Br	L	0410		1
93K16	951032	10	431794	6073083	431695	6073294		uTrTt	1	0.64	4.07	4	L	O	W	Br/Gr	L	0410		1/2
93K16	951033	10	432347	6073157	432248	6073369		uTrTt	1	0.64	4.07	6	L	O	C	Gr	L	0410		2/2
93K16	951034	10	433553	6073339	433454	6073551		uTrTt	1	0.45	3.48	6	L	G	W	Br/Gr	L	0410	JAW	1/2
93K16	951035	10	434231	6073501	434132	6073713		uTrTt	1	0.45	3.48	6	L	G	W	Br/Gr	L	0410	JAW	2/2
93K16	951036	10	429896	6074905	429797	6075117		uTrTt	0	0.12	1.40	4	M	G	W,C	Br	L	0410		1
93K16	951037	10	427684	6077008	427585	6077220		uTrTt	0	0.16	1.76	4	L	G		Gr/Br	L	0410		1
93K16	951038	10	431301	6077961	431202	6078173		uTrTt	0	0.01	0.01	1	M	F	W,C,F	Bl/Gr	L	0410		1
93K16	951039	10	427834	6082196	427735	6082408		uTrTt	2	1.63	6.21	4	M	G	W,C	Gr	L	0410		1/2
93K16	951040	10	428701	6082861	428602	6083073		uTrTt	2	1.63	6.21	5	M	G	W,C	Gr	L	0410		2/2
93K16	951042	10	427399	6085102	427300	6085314	10	uTrTt	0	0.02	0.61	2	L	O		Gr	L	0410		1
93K16	951043	10	427358	6085098	427259	6085310	20	uTrTt	0	0.02	0.61	2	L	O		Gr	L	0410		1
93K16	951044	10	433397	6088791	433298	6089002		TrJa	0	0.01	0.01	2	M	G	W,C	Gr	L	0410		1
93K16	951045	10	432296	6093893	432197	6094104		uTrTv	0	0.03	0.80	2	M	G	W	Gr	L	0410		1

Fish Observations and Analytical Data

Station	Date	Time	Depth (m)	Species	Count	Length (cm)	Weight (g)	Sex	Age	Notes
101	1978-05-15	08:00	10	Yellow Perch	1	15.2	120	Male	1	
102	1978-05-15	08:15	12	White Bass	2	18.5	150	Female	2	
103	1978-05-15	08:30	15	Striped Bass	3	22.1	200	Male	3	
104	1978-05-15	08:45	18	Rock Bass	1	12.8	80	Female	1	
105	1978-05-15	09:00	20	Bluegill	4	10.5	60	Male	4	
106	1978-05-15	09:15	22	Crappie	2	14.3	100	Female	2	
107	1978-05-15	09:30	25	Channel Catfish	1	25.0	300	Male	1	
108	1978-05-15	09:45	28	Smallmouth Bass	2	19.8	180	Female	2	
109	1978-05-15	10:00	30	Brook Trout	1	16.7	110	Male	1	
110	1978-05-15	10:15	32	Walleye	3	21.5	220	Male	3	
111	1978-05-15	10:30	35	Rock Bass	1	13.2	90	Female	1	
112	1978-05-15	10:45	38	Bluegill	5	11.0	70	Male	5	
113	1978-05-15	11:00	40	Crappie	3	15.0	110	Female	3	
114	1978-05-15	11:15	42	Channel Catfish	2	28.0	350	Male	2	
115	1978-05-15	11:30	45	Smallmouth Bass	2	20.5	190	Female	2	
116	1978-05-15	11:45	48	Brook Trout	1	17.5	120	Male	1	
117	1978-05-15	12:00	50	Walleye	4	23.0	240	Male	4	
118	1978-05-15	12:15	52	Rock Bass	1	14.0	100	Female	1	
119	1978-05-15	12:30	55	Bluegill	6	12.0	80	Male	6	
120	1978-05-15	12:45	58	Crappie	4	16.0	120	Female	4	
121	1978-05-15	13:00	60	Channel Catfish	3	30.0	400	Male	3	
122	1978-05-15	13:15	62	Smallmouth Bass	3	22.0	210	Female	3	
123	1978-05-15	13:30	65	Brook Trout	2	18.0	130	Male	2	
124	1978-05-15	13:45	68	Walleye	5	24.0	260	Male	5	
125	1978-05-15	14:00	70	Rock Bass	2	15.0	110	Female	2	
126	1978-05-15	14:15	72	Bluegill	7	13.0	90	Male	7	
127	1978-05-15	14:30	75	Crappie	5	17.0	130	Female	5	
128	1978-05-15	14:45	78	Channel Catfish	4	32.0	450	Male	4	
129	1978-05-15	15:00	80	Smallmouth Bass	4	23.0	220	Female	4	
130	1978-05-15	15:15	82	Brook Trout	3	19.0	140	Male	3	
131	1978-05-15	15:30	85	Walleye	6	25.0	280	Male	6	
132	1978-05-15	15:45	88	Rock Bass	3	16.0	120	Female	3	
133	1978-05-15	16:00	90	Bluegill	8	14.0	100	Male	8	
134	1978-05-15	16:15	92	Crappie	6	18.0	140	Female	6	
135	1978-05-15	16:30	95	Channel Catfish	5	35.0	500	Male	5	
136	1978-05-15	16:45	98	Smallmouth Bass	5	24.0	230	Female	5	
137	1978-05-15	17:00	100	Brook Trout	4	20.0	150	Male	4	
138	1978-05-15	17:15	102	Walleye	7	26.0	300	Male	7	
139	1978-05-15	17:30	105	Rock Bass	4	17.0	130	Female	4	
140	1978-05-15	17:45	108	Bluegill	9	15.0	110	Male	9	
141	1978-05-15	18:00	110	Crappie	7	19.0	150	Female	7	
142	1978-05-15	18:15	112	Channel Catfish	6	38.0	550	Male	6	
143	1978-05-15	18:30	115	Smallmouth Bass	6	25.0	240	Female	6	
144	1978-05-15	18:45	118	Brook Trout	5	21.0	160	Male	5	
145	1978-05-15	19:00	120	Walleye	8	27.0	320	Male	8	
146	1978-05-15	19:15	122	Rock Bass	5	18.0	140	Female	5	
147	1978-05-15	19:30	125	Bluegill	10	16.0	120	Male	10	
148	1978-05-15	19:45	128	Crappie	8	20.0	160	Female	8	
149	1978-05-15	20:00	130	Channel Catfish	7	40.0	600	Male	7	
150	1978-05-15	20:15	132	Smallmouth Bass	7	26.0	250	Female	7	
151	1978-05-15	20:30	135	Brook Trout	6	22.0	170	Male	6	
152	1978-05-15	20:45	138	Walleye	9	28.0	340	Male	9	
153	1978-05-15	21:00	140	Rock Bass	6	19.0	150	Female	6	
154	1978-05-15	21:15	142	Bluegill	11	17.0	130	Male	11	
155	1978-05-15	21:30	145	Crappie	9	21.0	170	Female	9	
156	1978-05-15	21:45	148	Channel Catfish	8	42.0	650	Male	8	
157	1978-05-15	22:00	150	Smallmouth Bass	8	27.0	260	Female	8	
158	1978-05-15	22:15	152	Brook Trout	7	23.0	180	Male	7	
159	1978-05-15	22:30	155	Walleye	10	29.0	360	Male	10	
160	1978-05-15	22:45	158	Rock Bass	7	20.0	160	Female	7	
161	1978-05-15	23:00	160	Bluegill	12	18.0	140	Male	12	
162	1978-05-15	23:15	162	Crappie	10	22.0	180	Female	10	
163	1978-05-15	23:30	165	Channel Catfish	9	45.0	700	Male	9	
164	1978-05-15	23:45	168	Smallmouth Bass	9	28.0	270	Female	9	
165	1978-05-15	24:00	170	Brook Trout	8	24.0	190	Male	8	
166	1978-05-15	24:15	172	Walleye	11	30.0	380	Male	11	
167	1978-05-15	24:30	175	Rock Bass	8	21.0	170	Female	8	
168	1978-05-15	24:45	178	Bluegill	13	19.0	150	Male	13	
169	1978-05-15	25:00	180	Crappie	11	23.0	190	Female	11	
170	1978-05-15	25:15	182	Channel Catfish	10	48.0	750	Male	10	
171	1978-05-15	25:30	185	Smallmouth Bass	10	29.0	280	Female	10	
172	1978-05-15	25:45	188	Brook Trout	9	25.0	200	Male	9	
173	1978-05-15	26:00	190	Walleye	12	31.0	400	Male	12	
174	1978-05-15	26:15	192	Rock Bass	9	22.0	180	Female	9	
175	1978-05-15	26:30	195	Bluegill	14	20.0	160	Male	14	
176	1978-05-15	26:45	198	Crappie	12	24.0	200	Female	12	
177	1978-05-15	27:00	200	Channel Catfish	11	50.0	800	Male	11	
178	1978-05-15	27:15	202	Smallmouth Bass	11	30.0	290	Female	11	
179	1978-05-15	27:30	205	Brook Trout	10	26.0	210	Male	10	
180	1978-05-15	27:45	208	Walleye	13	32.0	420	Male	13	
181	1978-05-15	28:00	210	Rock Bass	10	23.0	190	Female	10	
182	1978-05-15	28:15	212	Bluegill	15	21.0	170	Male	15	
183	1978-05-15	28:30	215	Crappie	13	25.0	210	Female	13	
184	1978-05-15	28:45	218	Channel Catfish	12	52.0	850	Male	12	
185	1978-05-15	29:00	220	Smallmouth Bass	12	31.0	300	Female	12	
186	1978-05-15	29:15	222	Brook Trout	11	27.0	220	Male	11	
187	1978-05-15	29:30	225	Walleye	14	33.0	450	Male	14	
188	1978-05-15	29:45	228	Rock Bass	11	24.0	200	Female	11	
189	1978-05-15	30:00	230	Bluegill	16	22.0	180	Male	16	
190	1978-05-15	30:15	232	Crappie	14	26.0	220	Female	14	
191	1978-05-15	30:30	235	Channel Catfish	13	55.0	900	Male	13	
192	1978-05-15	30:45	238	Smallmouth Bass	13	32.0	310	Female	13	
193	1978-05-15	31:00	240	Brook Trout	12	28.0	230	Male	12	
194	1978-05-15	31:15	242	Walleye	15	34.0	480	Male	15	
195	1978-05-15	31:30	245	Rock Bass	12	25.0	210	Female	12	
196	1978-05-15	31:45	248	Bluegill	17	23.0	190	Male	17	
197	1978-05-15	32:00	250	Crappie	15	27.0	230	Female	15	
198	1978-05-15	32:15	252	Channel Catfish	14	58.0	950	Male	14	
199	1978-05-15	32:30	255	Smallmouth Bass	14	33.0	320	Female	14	
200	1978-05-15	32:45	258	Brook Trout	13	29.0	240	Male	13	

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K16	951046	10	429755	6093918	429656	6094129		uTrTv	0	0.01	0.01	1	L	O		Br	L	0410		1
93K16	951047	10	425854	6094264	425755	6094475		EJd	0	0.03	0.67	2	M	G		Br/Gr	L	0410		1
93K16	951048	10	421351	6094481	421252	6094692		uTrTv	0	0.04	0.78	3	M	G		Gr	L	0410		1
93K16	951049	10	420993	6094277	420894	6094488		uTrTv	0	0.10	1.32	3	M	G		Gr/Br	L	0410		1
93K16	951050	10	420336	6094008	420237	6094219		uTrTv	2	1.07	7.77	13	M	G		Br/Gr	L	0410	KALDER	1/4
93K16	951051	10	422391	6093415	422292	6093626		EJd	0	0.01	0.50	1	M	F/O		Br/Gr	L	0410		1
93K16	951052	10	425399	6089820	425300	6090031		EJd	0	0.01	0.01	1	L	O		Br/Gr	L	0410		1
93K16	951053	10	427014	6088955	426915	6089166		uTrTt	0	0.01	0.01	1	L	O/G	W	Br	L	0410		1
93K16	951054	10	423807	6086092	423708	6086304		uTrTt	1	0.80	4.20	5	L	G	W	Gr	L	0410		1
93K16	951055	10	424441	6084510	424342	6084722		uTrTt	0	0.19	1.90	3	M	O/G	W,C	Gr	L	0410		1
93K16	951056	10	422365	6084103	422266	6084315		uTrTt	0	0.12	1.64	3	L	G		Br/Gr	L	0410		1
93K16	951058	10	422358	6081881	422259	6082093		uTrTt	0	0.10	1.25	7	M	G		Br/Gr	L	0410		1
93K16	951059	10	421471	6079484	421372	6079696		uTrTt	0	0.07	1.12	2	L	G		Gr/Br	L	0410		1
93K16	951060	10	423478	6076855	423379	6077067		uTrTt	1	0.76	3.43	7	L	G		Br	L	0410		1
93K16	951062	10	422942	6074154	422842	6074365	10	uTrTt	0	0.14	1.50	1	L	G		Br	L	0410		1
93K16	951063	10	422942	6074154	422842	6074365	20	uTrTt	0	0.14	1.50	1	L	G		Br	L	0410		1
93K16	951064	10	423770	6074644	423670	6074855		uTrTt	0	0.03	0.65	2	L	O/G		Br	L	0410		1
93K16	951065	10	423919	6074159	423819	6074370		uTrTt	0	0.06	1.38	1	L	O/G		Br	L	0410		1
93K16	951066	10	423824	6073365	423724	6073576		uTrTt	0	0.08	1.19	4	L	G		Gr	L	0410		1
93K16	951067	10	423456	6072104	423356	6072315		uTrTt	0	0.05	0.88	6	M	G		Gr	L	0410		1
93K16	951068	10	424065	6071401	423965	6071612		uTrTt	1	0.32	2.23	5	L	G	W,C	Gr/Br	L	0410		1
93K16	951069	10	432861	6075227	432762	6075439		uTrTt	0	0.01	0.01	3	M	O		Br	L	0410		1
93K09	951071	10	431938	6045746	431838	6045957		muTrTs	0	0.01	0.01	1	L	F	W	Gy/Gr	L	0510		1
93K09	951072	10	430753	6049792	430653	6050003		muTrTs	0	0.04	0.88	2	L	O		Br	L	0510		1
93K09	951073	10	429011	6050652	428911	6050863		muTrTs	0	0.01	0.01	1	L	O	W	Br	L	0510		1
93K09	951074	10	429428	6052736	429328	6052947		uTrTt	1	0.33	2.40	5	L	G	W	Br	L	0510		1
93K09	951075	10	429180	6053585	429080	6053796		uTrTt	0	0.09	1.12	3	L	G		Br	L	0510		1
93K09	951076	10	427218	6055351	427118	6055562		uTrTt	0	0.01	0.01	2	L	O	W	Br	H	0510		1
93K09	951077	10	428435	6054819	428335	6055030		uTrTt	0	0.01	0.51	1	L	O		Br	L	0510		1
93K09	951078	10	428732	6055135	428632	6055346		uTrTt	0	0.12	1.31	7	L	G		Br/Bl	L	0510		1
93K09	951079	10	429419	6055783	429319	6055994		uTrTt	0	0.02	0.60	1	L	O		Br	L	0510		1
93K09	951080	10	428140	6057346	428040	6057557		uTrTt	0	0.01	0.51	1	M	O/G	W	Br	L	0510		1
93K09	951082	10	427210	6062494	427110	6062705	10	uTrTt	1	0.81	3.32	2	L	G	W	Br/Gr	L	0510		1
93K09	951083	10	427199	6062488	427099	6062699	20	uTrTt	1	0.81	3.32	2	L	G	W	Br/Gr	L	0510		1
93K09	951084	10	426514	6067156	426414	6067367		uTrTt	0	0.06	1.10	1	L	O/G	W	Br	L	0510		1
93K16	951085	10	421511	6067536	421411	6067747		uTrTt	0	0.05	0.82	1	L	G	W,C	Br	L	0510	CHUZKEEPAH	1
93K16	951086	10	421733	6068589	421633	6068800		uTrTt	0	0.11	1.72	4	M	G	W,C	Br	L	0510		1
93K16	951087	10	420951	6071730	420851	6071941		uTrTt	0	0.01	0.01	2	M	O/G		Gy/Br	L	0510		1
93K16	951089	10	420017	6071235	419917	6071446		uTrTt	0	0.12	1.45	3	L	G		Br	L	0510		1
93K16	951090	10	419287	6071230	419187	6071441		uTrTt	0	0.20	1.79	6	L	G		Br	L	0510		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K16	951091	10	417794	6070422	417694	6070633		uTrTt	2	1.03	4.45	5	L	G	W	Br	L	0510	HAT	1/2
93K16	951092	10	417021	6070066	416921	6070277		uTrTt	2	1.03	4.45	5	L	G	W	Br	L	0510	HAT	2/2
93K16	951093	10	416636	6069839	416536	6069050		uTrTt	0	0.07	1.06	1	M	G	W	Br	L	0510		1
93K16	951094	10	416829	6070983	416729	6071194		uTrTt	0	0.04	0.77	2	L	O/G		Br	L	0510		1
93K16	951095	10	417209	6072891	417109	6073102		uTrTt	0	0.03	0.93	2	M	G		Br	L	0510		1
93K16	951096	10	416105	6074190	416005	6074401		uTrTt	0	0.03	0.66	3	M	G	W	Br	L	0510		1
93K16	951097	10	416643	6075034	416543	6075245		uTrTt	1	0.26	2.26	7	M	G	W	Br/Gr	L	0510		1
93K16	951098	10	413444	6075866	413344	6076077		uTrTt	0	0.04	0.81	10	M	G		Br	L	0510		1
93K16	951099	10	412699	6076271	412599	6076482		uTrTt	0	0.01	0.46	1	M	O/G		Br	L	0510		1
93K16	951100	10	412645	6077222	412545	6077433		uTrTt	0	0.03	0.74	1	M	F/O/G		Br	L	0510		1
93K16	951102	10	414263	6079754	414163	6079965	10	uTrTt	0	0.15	1.90	4	M	G		Br	L	0510		1
93K16	951103	10	414263	6079754	414163	6079965	20	uTrTt	0	0.15	1.90	4	M	G		Br	L	0510		1
93K16	951105	10	414184	6080846	414084	6081057		uTrTt	0	0.18	2.31	20	M	G		Br	L	0510		1/2
93K16	951106	10	414312	6081150	414212	6081361		uTrTt	0	0.18	2.31	10	M	O/G		Br	L	0510		2/2
93K16	951107	10	413188	6080403	413088	6080614		uTrTt	0	0.05	0.88	5	M	G		Br	L	0510		1
93K16	951108	10	409845	6078214	409745	6078425		uTrTt	0	0.14	1.56	9	M	G		Br	L	0510		1
93K16	951109	10	411813	6081349	411713	6081560		uTrTt	0	0.12	1.52	4	M	G		Br	L	0510		1
93K16	951110	10	414427	6085352	414327	6085563		uTrTt	0	0.01	0.01	1	M	G		Br	L	0510		1
93K16	951111	10	415561	6085215	415462	6085426		uTrTt	0	0.01	0.01	1	M	G	W, F	Br	L	0510		1
93K16	951112	10	418130	6085077	418031	6085288		uTrTt	0	0.01	0.43	1	M	O		Br	L	0510		1
93K16	951113	10	416563	6091859	416464	6092070		uTrTv	0	0.03	0.66	4	L	G		Br	L	0510		1
93K16	951114	10	416334	6094537	416235	6094748		uTrTv	0	0.03	1.09	7	M	G		Bl/Gr	L	0510		1
93K16	951115	10	417136	6094897	417037	6095108		uTrTv	0	0.04	0.92	7	M	G		Br	L	0510		1
93K16	951116	10	417038	6094136	416939	6094347		uTrTv	0	0.02	0.64	1	L	O/G	W	Tn/Br	L	0510		1
93K16	951117	10	418707	6094421	418608	6094632		uTrTv	0	0.08	1.16	1	L	G		Br	L	0510		1
93K16	951118	10	419740	6093386	419641	6093597		uTrTv	2	1.07	7.77	13	M	G		Br/Gy	L	0510	KALDER	2/4
93K16	951119	10	419336	6093170	419237	6093381		uTrTv	2	1.07	7.77	10	M	G		Br	L	0510	KALDER	3/4
93K16	951120	10	419491	6092240	419392	6092451		uTrTv	2	1.07	7.77	1	M	O/G		Bl/Br	L	0510	KALDER	4/4
93K16	951122	10	419601	6089516	419502	6089727		EJd	0	0.01	0.44	1	L	G	W, C, F	Br	L	0510		1
93K16	951123	10	420254	6087668	420155	6087879		EJd	0	0.01	0.44	2	L	G		Br	L	0510		1
93K16	951124	10	418360	6086491	418261	6086702		uTrTt	0	0.01	0.01	1	L	O		Br	L	0510		1
93K16	951125	10	419738	6086087	419639	6086298	10	uTrTt	0	0.05	1.01	6	L	G		Br	L	0510		1
93K16	951126	10	419738	6086087	419639	6086298	20	uTrTt	0	0.05	1.01	6	L	G		Br	L	0510		1
93K16	951127	10	419384	6084476	419285	6084687		uTrTt	0	0.02	0.53	8	L	G		Br/Gr	L	0510		1
93K16	951128	10	417791	6082277	417691	6082488		EJd	0	0.02	0.54	1	L	O		Br	L	0510		1
93K16	951129	10	416686	6082380	416586	6082591		EJd	0	0.01	0.01	2	L	O		Br	L	0510		1
93K16	951130	10	413310	6073297	413210	6073508		uTrTt	0	0.07	1.12	6	L	G		Br	L	0510		1
93K16	951131	10	413973	6069528	413873	6069739		uTrTt	0	0.01	0.45	2	L	G		Br	L	0510		1
93K09	951132	10	424942	6063825	424842	6064036		uTrTt	0	0.03	0.97	1	L	O/G		Br	L	0510		1
93K09	951133	10	427100	6059956	427000	6060167		uTrTt	0	0.01	0.42	1	L	O/G		Br	L	0510		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K09	951134	10	426855	6057353	426755	6057564		uTrTt	0	0.01	0.34	6	L	O/G		Br/Gr	L	0510		1
93K09	951135	10	424940	6055184	424840	6055395		uTrTt	0	0.03	1.05	1	L	F/O		Br	H	0510		1
93K09	951136	10	426274	6054127	426174	6054338		uTrTt	0	0.03	0.82	7	L	G		Br/Tn	L	0510		1
93K09	951138	10	427488	6052244	427388	6052455		uTrTt	0	0.02	0.51	1	L	G		Br	L	0510		1
93K09	951139	10	427376	6051672	427276	6051883		muTrTs	0	0.14	1.84	1	L	G		Br	L	0510		1
93K09	951140	10	426322	6048973	426222	6049184		muTrTs	0	0.01	0.01	1	L	O		Br	L	0510		1
93K09	951142	10	419787	6040890	419686	6041101		PTrCCb	0	0.03	0.61	1	M	O		Br	L	0610		1
93K09	951143	10	416173	6043914	416072	6044125	10	PTrCCb	1	0.38	2.48	8	M	G		Br/Bl	L	0610		1
93K09	951144	10	416171	6043914	416070	6044125	20	PTrCCb	1	0.38	2.48	8	M	G		Br/Bl	L	0610		1
93K09	951145	10	414470	6044315	414369	6044526		PTrCCv	0	0.21	1.94	14	M	G		Br/Bl	L	0610		1
93K09	951146	10	409679	6044965	409578	6045176		PTrCCl	0	0.10	1.39	1	M	G	W, F	Br	L	0610		1
93K09	951148	10	410003	6045276	409902	6045487		PTrCCl	0	0.03	0.86	1	M	G	W, F	Br	L	0610		1
93K09	951149	10	409308	6045540	409207	6045751		PTrCCl	0	0.01	0.01	4	M	G	W, F	Br	L	0610		1
93K09	951150	10	409099	6045856	408998	6046067		PTrCCl	0	0.04	0.90	2	M	G		Br	L	0610		1
93K09	951151	10	408982	6047697	408881	6047908		PTrCCu	0	0.18	1.77	8	M	G		Br	L	0610		1
93K09	951152	10	408224	6047879	408123	6048090		PTrCCu	0	0.01	0.01	3	M	O/G		Br	L	0610		1
93K09	951153	10	408402	6052165	408301	6052376		F	3	55.72	65.96	12	M	F	W, C, F	Gy	L	0610	PINCHI	1/9
93K09	951154	10	406510	6053528	406409	6053739		PTrCCb	3	55.72	65.96	13	M	F/G	W, C, F	Gy/Br	L	0610	PINCHI	2/9
93K09	951155	10	405209	6054174	405108	6054385		PTrCCb	3	55.72	65.96	13	M	O/G	W, C, F	Gy/Br	L	0610	PINCHI	3/9
93K10	951156	10	402570	6054777	402469	6054988		PTrCCb	3	55.72	65.96	15	M	F/O	W, C, F	Gy/Br	L	0610	PINCHI	4/9
93K10	951157	10	398998	6057197	398897	6057408		PTrCCl	3	55.72	65.96	12	H	F/G		Gy/Tn	L	0610	PINCHI	5/9
93K10	951158	10	399715	6057458	399614	6057669		PTrCCb	3	55.72	65.96	7	H	F/G		Tn/Br	L	0610	PINCHI	6/9
93K10	951159	10	399903	6058517	399802	6058728		PTrCCb	0	0.09	1.17	5	M	G		Br	L	0610		1
93K10	951160	10	400260	6059540	400159	6059751		PTrCCv	0	0.06	1.23	2	M	O		Br	L	0610		1
93K10	951162	10	400641	6060199	400540	6060410		PTrCCv	0	0.08	1.11	5	M	G		Br	L	0610		1
93K10	951163	10	402421	6060500	402320	6060711	10	PTrCCvs	0	0.01	0.01	3	M	G		Br	L	0610		1
93K10	951164	10	402421	6060500	402320	6060711	20	PTrCCvs	0	0.01	0.01	3	M	G		Br	L	0610		1
93K10	951165	10	399007	6060384	398906	6060595		PTrCCb	0	0.03	0.80	4	M	G		Br	L	0610		1
93K10	951166	10	398720	6060790	398619	6061001		PTrCCb	0	0.07	1.25	1	M	G		Bl	L	0610		1
93K10	951167	10	397090	6064009	396989	6064220		PTrCCb	0	0.01	0.40	5	L	F/G		Br/Gn	L	0610		1
93K10	951168	10	396278	6063922	396177	6064133		PTrCCb	0	0.10	1.25	20	L	G		Br	L	0610		1
93K10	951169	10	396585	6064478	396484	6064689		PTrCCb	0	0.05	0.92	20	L	F/O		Br/Gn	L	0610		1
93K10	951170	10	396841	6065094	396740	6065305		PTrCCb	0	0.02	0.58	2	L	O		Br	L	0610		1
93K10	951171	10	396370	6065881	396269	6066092		PTrCCb	0	0.06	1.53	1	L	O		Br	L	0610		1
93K10	951172	10	396266	6066478	396165	6066689		PTrCCb	0	0.04	0.81	32	L	O		Br	L	0610		1
93K10	951173	10	394842	6066850	394741	6067061		PTrCCb	0	0.03	0.66	30	L	G		Br/Gy	L	0610		1
93K10	951174	10	401806	6059700	401705	6059911		PTrCCu	0	0.01	0.01	2	H	O/G		Br	L	0610		1
93K16	951175	10	406695	6075585	406595	6075796		uTrTt	2	1.44	5.98	3	M	G	C	Gr	L	0610	DOLPHIN	1/2
93K16	951176	10	407755	6076837	407655	6077048		uTrTt	2	1.44	5.98	18	M	G		Gr	L	0610	DOLPHIN	2/2
93K16	951177	10	408553	6077351	408453	6077562		uTrTt	0	0.02	0.66	1	M	O/G		Br	L	0610		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K16	951178	10	405799	6076941	405699	6077152	10 20	uTrTt	0	0.01	0.41	2	M	G		Br/Gr	L	0610		1
93K16	951179	10	406955	6083782	406855	6083993		uTrTt	0	0.03	0.73	7	M	G		Br/Gn	L	0610		1
93K16	951182	10	406588	6085298	406488	6085509		uTrTt	1	0.25	2.94	4	M	G		Br	L	0610		1/2
93K16	951183	10	406591	6085290	406491	6085501		uTrTt	1	0.25	2.94	4	M	G		Br	L	0610		1/2
93K16	951185	10	406014	6085684	405914	6085895		uTrTt	1	0.25	2.94	1	M	G		Gr	L	0610		2/2
93K16	951186	10	408209	6084525	408109	6084736		uTrTt	0	0.01	0.01	1	M	O		Br	L	0610		1
93K16	951187	10	410969	6083090	410869	6083301		uTrTt	0	0.01	0.47	2	M	O		Br/Gr	L	0610		1
93K16	951188	10	411221	6083968	411121	6084179		uTrTt	0	0.01	0.01	2	M	O		Br	L	0610		1
93K16	951189	10	411570	6084341	411470	6084552		uTrTt	0	0.01	0.01	2	M	G		Br	L	0610		1
93K16	951190	10	410852	6085279	410752	6085490		uTrTt	0	0.01	0.01	1	M	O		Br	L	0610		1
93K16	951191	10	409591	6086329	409491	6086540		uTrTt	3	35.14	65.69	8	M	G		Gr/Br	L	0610	INZANA	1/6
93K16	951192	10	408541	6086351	408441	6086562		uTrTt	3	35.14	65.69	8	M	G		Gr/Bl	L	0610	INZANA	2/6
93K16	951193	10	408284	6088459	408184	6088670		uTrTt	0	0.02	0.70	3	M	G		Gr	L	0610		1
93K16	951194	10	410646	6090624	410547	6090835		uTrTt	0	0.04	0.89	2	M	G		Gr	L	0610		1
93K16	951195	10	413308	6092035	413209	6092246		EJd	0	0.01	0.45	2	M	G		Gr	L	0610		1
93K16	951196	10	414352	6093001	414253	6093212		EJd	0	0.04	0.77	3	L	G		Br	L	0610		1
93K16	951197	10	415595	6092541	415496	6092752		uTrTv	0	0.11	1.85	2	L	O		Br	L	0610		1
93K16	951198	10	414185	6091744	414086	6091955		EJd	0	0.04	0.80	1	L	O		Br	L	0610		1
93K16	951199	10	414241	6090978	414142	6091189		EJd	0	0.01	0.49	3	L	O		Gr	L	0610		1
93K16	951200	10	414514	6089813	414415	6090024		uTrTt	0	0.01	0.01	1	L	O		Br	L	0610		1
93K16	951202	10	407302	6093239	407202	6093450	10 20	uTrTt	1	0.04	2.67	1	M	O		Tn	L	0610	BENOIT LAKES	1
93K16	951203	10	405886	6092882	405786	6093093		uTrTt	1	0.19	2.67	6	M	G		Gr/Br	L	0610	BENOIT LAKES	1
93K16	951204	10	405886	6092882	405786	6093093		uTrTt	1	0.19	2.67	6	M	G		Gr/Br	L	0610	BENOIT LAKES	1
93K16	951205	10	405640	6090748	405540	6090959		uTrTt	0	0.11	1.35	1	M	O		Gr	L	0610		1
93K16	951206	10	405124	6090660	405024	6090871		uTrTt	0	0.05	0.90	1	M	O		Br	L	0610		1
93K15	951207	10	403635	6092971	403535	6093182		uTrTt	1	0.34	2.67	6	M	G		Br	L	0610	BENOIT LAKES	1
93K15	951208	10	400251	6094866	400151	6095077		uTrTt	0	0.05	1.00	3	M	O		Bl	L	0610		1
93K15	951209	10	399673	6093033	399573	6093244		uTrTt	0	0.01	0.45	1	H	O		Br	L	0610		1
93K15	951210	10	403243	6090647	403143	6090858		uTrTt	0	0.01	0.01	1	M	O		Br	L	0610		1
93K15	951212	10	402885	6091061	402785	6091272		uTrTt	0	0.05	1.02	10	M	G		Br	L	0610		1
93K15	951213	10	400709	6087608	400609	6087819		uTrTt	0	0.01	0.01	1	M	O		Br	L	0610		1
93K15	951214	10	403118	6085529	403018	6085740		uTrTt	0	0.01	0.01	1	H	O		Br	L	0610		1
93K15	951215	10	403472	6081807	403372	6082018		uTrTt	2	2.56	10.61	16	H	G		Gr	L	0610	HATDUDATEHL	1/4
93K15	951216	10	401545	6081971	401445	6082182		uTrTt	2	2.56	10.61	24	H	G		Bl	L	0610	HATDUDATEHL	2/4
93K15	951217	10	400404	6082117	400304	6082328		uTrTt	2	2.56	10.61	14	M	G		Bl/Gr	L	0610	HATDUDATEHL	3/4
93K15	951218	10	399606	6082474	399506	6082685		uTrTt	2	2.56	10.61	10	M	O		Br	L	0610	HATDUDATEHL	4/4
93K16	951219	10	403876	6072939	403776	6073150		muTrTs	0	0.12	1.39	8	L	G		Br	L	0610		1
93K16	951220	10	405319	6071912	405219	6072123		uTrTt	1	0.76	3.97	11	M	G		Gr	L	0610	NICK	1/2
93K16	951222	10	405962	6071516	405862	6071727		uTrTt	1	0.76	3.97	12	M	G		Gr	L	0610	NICK	2/2
93K16	951224	10	406427	6069844	406327	6070055		muTrTs	2	2.23	7.41	19	M	G		Gr	L	0610	DEM	1/2

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K16	951225	10	407145	6069809	407045	6070020	10 20	muTrTs	2	2.25	7.41	35	M	G		Gr/Bl	L	0610	DEM	2/2
93K16	951226	10	407799	6071164	407699	6071375		uTrTt	0	0.04	0.85	2	M	G		Bl	L	0610		1
93K16	951227	10	407803	6071175	407703	6071386		uTrTt	0	0.04	0.85	2	M	G		Bl	L	0610		1
93K16	951228	10	410019	6071286	409919	6071497		uTrTt	0	0.02	0.47	4	M	O/G		Br	L	0610		1
93K16	951229	10	409401	6072171	409301	6072382		uTrTt	0	0.04	0.81	5	L	G		Bl	L	0610		1
93K16	951230	10	409600	6072518	409500	6072729		uTrTt	0	0.03	0.68	1	L	O		Br	L	0610		1
93K16	951231	10	411645	6072371	411545	6072582		uTrTt	1	0.76	3.93	5	L	O		Br	L	0610		1/2
93K16	951232	10	412527	6072664	412427	6072875		uTrTt	1	0.76	3.93	2	L	O		Br	L	0610		2/2
93K16	951233	10	412317	6070587	412217	6070798		uTrTt	0	0.02	0.60	2	L	G		Br	L	0610		1
93K16	951234	10	413060	6070026	412960	6070237		uTrTt	0	0.15	1.66	4	L	G		Gr	L	0610		1
93K16	951235	10	411663	6069820	411563	6070031		uTrTt	0	0.02	0.60	2	L	G		Gr	L	0610		1
93K09	951236	10	418500	6043999	418400	6044210		PTCCCu	0	0.02	0.54	1	M	O		Br	L	0710		1
93K09	951237	10	416501	6045737	416401	6045948		PTCCCu	0	0.01	0.01	1	M	O		Br/Gr	L	0710		1
93K09	951238	10	420762	6047347	420662	6047558		PTCCCu	0	0.01	0.01	2	M	F/O		Br	L	0710		1
93K09	951239	10	418923	6048161	418823	6048372		PTCCvcs	3	55.72	65.96	17	M	F/O		Gy	L	0710	PINCHI	7/9
93K09	951240	10	415632	6051133	415532	6051344		PTCCvcs	3	55.72	65.96	6	L	F		Gy	L	0710	PINCHI	8/9
93K09	951242	10	413314	6050963	413214	6051174		PTCCvcs	3	55.72	65.96	6	L	S/F/O		Gy/Br	L	0710	PINCHI	9/9
93K09	951243	10	410161	6052966	410061	6053177		PTCCCu	0	0.11	1.42	1	L	O		Tn	L	0710		1
93K09	951244	10	411319	6054595	411219	6054806	10	TrJd	0	0.10	1.49	7	M	G		Br	L	0710		1
93K09	951245	10	411319	6054595	411219	6054806	20	TrJd	0	0.10	1.49	7	M	G		Br	L	0710		1
93K09	951246	10	414358	6056275	414258	6056486		muTrTs	0	0.01	0.01	2	L	O		Br	L	0710		1
93K09	951247	10	415499	6056223	415399	6056434		muTrTs	0	0.04	0.85	1	L	O		Br	L	0710		1
93K09	951248	10	413068	6057855	412968	6058066		muTrTs	3	80.60	79.62	3	L	O		Gy/Br	L	0710	TEZZERON	1/5
93K09	951249	10	412431	6056273	412331	6056484		muTrTs	0	0.02	0.66	2	L	O		Tn/Br	L	0710		1
93K09	951250	10	408981	6057654	408881	6057865		PTCCvcs	0	0.04	0.85	2	M	O		Tn/Br	L	0710		1
93K09	951251	10	406288	6058784	406187	6058995		PTCCvcs	0	0.09	1.18	7	M	G		Br/Bl	L	0710		1
93K09	951252	10	403871	6061503	403770	6061714		PTCCvcs	0	0.10	1.54	2	L	G		Br	L	0710		1
93K10	951253	10	403278	6060171	403177	6060382		PTCCvcs	0	0.07	1.21	1	M	O		Br/Gr	L	0710		1
93K10	951255	10	400486	6064204	400385	6064415		PTCCvcs	3	80.60	79.62	4	L	F		Gy	L	0710	TEZZERON	2/5
93K10	951256	10	398129	6067372	398029	6067583		PTCCvcs	3	80.60	79.62	6	L	G		Tn/Br	L	0710	TEZZERON	3/5
93K15	951257	10	397713	6068533	397613	6068744		PTCCvcs	3	80.60	79.62	10	L	G		Gy/Br	L	0710	TEZZERON	4/5
93K15	951258	10	399185	6070132	399085	6070343		muTrTs	0	0.11	1.24	2	L	O		Br	L	0710		1
93K15	951259	10	395230	6073068	395130	6073279		muTrTs	0	0.14	1.84	4	L	G		Br/Bl	L	0710		1
93K15	951260	10	392141	6075584	392041	6075795		muTrTs	0	0.13	1.71	2	L	G		Br	L	0710		1
93K15	951262	10	391851	6079559	391751	6079770		muTrTs	0	0.01	0.47	2	L	G		Br	L	0710		1
93K15	951263	10	389429	6080022	389329	6080233		muTrTs	0	0.04	0.80	1	L	O		Tn/Br	L	0710		1
93K15	951264	10	385404	6081684	385304	6081895	10	PTCCl	0	0.05	0.90	15	M	G		Bl	L	0710		1
93K15	951265	10	385411	6081691	385311	6081902	20	PTCCl	0	0.05	0.90	15	M	G		Bl	L	0710		1
93K15	951266	10	385089	6084460	384989	6084671		muTrTs	0	0.01	0.01	1	M	O		Br	L	0710		1
93K15	951268	10	382816	6086529	382716	6086740		muTrTs	0	0.07	1.26	6	M	G		Br	L	0710		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K15	951269	10	382930	6086982	382830	6087193		muTrTs	1	0.41	3.34	25	M	G		Bl	L	0710		1
93K15	951270	10	382450	6087168	382350	6087379		muTrTs	1	0.41	3.34	6	M	G		Br	L	0710		1
93K15	951271	10	381495	6087890	381395	6088101		muTrTs	0	0.01	0.01	2	M	O		Br	L	0710		1
93K15	951272	10	389098	6084309	388998	6084520		muTrTs	0	0.01	0.37	1	L	O		Br	L	0710		1
93K15	951273	10	395058	6085069	394958	6085280		uTrTt	1	0.85	3.87	18	M	G		Gr/Bl	L	0710		1
93K15	951274	10	396111	6082934	396011	6083145		uTrTt	0	0.04	0.83	2	M	G		Br	L	0710		1
93K15	951275	10	397608	6084198	397508	6084409		uTrTt	0	0.06	1.10	4	M	G		Br	L	0710		1
93K15	951276	10	398448	6084449	398348	6084660		uTrTt	0	0.03	0.79	3	M	O/G		Br/Gr	L	0710		1
93K15	951277	10	398537	6083749	398437	6083960		uTrTt	0	0.10	1.30	3	M	G		Gr	L	0710		1
93K16	951278	10	403937	6083036	403837	6083247		uTrTt	0	0.02	0.51	1	M	O		Gy	L	0710		1
93K15	951279	10	397911	6087640	397811	6087851		uTrTt	0	0.06	1.03	1	M	O/G		Br	L	0710		1
93K15	951280	10	393857	6090337	393757	6090548		uTrTt	0	0.03	0.84	3	L	G		Gy/Gr	L	0710		1
93K15	951282	10	391951	6089594	391851	6089805		uTrTt	0	0.06	0.98	1	L	G		Br	L	0710		1
93K15	951283	10	390236	6088174	390136	6088385	10	uTrTt	0	0.03	0.73	2	L	G		Br	L	0710		1
93K15	951284	10	390232	6088175	390132	6088386	20	uTrTt	0	0.03	0.73	2	L	G		Br	L	0710		1
93K15	951285	10	389228	6089256	389128	6089467		uTrTt	0	0.01	0.49	2	L	G		Br	L	0710		1
93K15	951286	10	390045	6089996	389945	6090207		uTrTt	0	0.04	1.22	2	L	G		Br	L	0710		1
93K15	951287	10	389633	6091868	389533	6092079		uTrTt	3	35.14	65.69	20	L	G		Gr	L	0710	INZANA	3/6
93K15	951288	10	392395	6095327	392295	6095538		uTrTt	0	0.01	0.01	1	L	F		Br	L	0710		1
93K15	951290	10	393565	6095804	393465	6096015		uTrTt	0	0.04	0.93	1	L	G		Br	L	0710		1
93K15	951291	10	389650	6094053	389550	6094264		uTrTt	3	35.14	65.69	4	L	F		Gy	L	0710	INZANA	4/6
93K15	951292	10	387914	6094350	387814	6094561		uTrTt	3	35.14	65.69	5	L	G		Br/Gr	L	0710	INZANA	5/6
93K15	951293	10	387136	6093417	387036	6093628		uTrTt	3	35.14	65.69	6	L	G		Br/Gr	L	0710	INZANA	6/6
93K15	951294	10	383671	6093217	383571	6093428		uTrTt	0	0.11	1.31	2	L	G		Br	L	0710		1
93K15	951295	10	382865	6095648	382765	6095859		uTrTt	1	0.39	2.55	10	M	G		Gr	L	0710	CHU	1
93K15	951296	10	373017	6095504	372917	6095715		PTCCl	3	6.57	14.31	8	M	F/G		Gy/Gr	L	0710	KAZCHEK	1/2
93K15	951297	10	374878	6094515	374778	6094726		PTCCl	3	6.57	14.31	28	L	G		Gy/Gr	L	0710	KAZCHEK	2/2
93K15	951298	10	375932	6092734	375832	6092945		PTCCl	1	0.57	2.93	7	M	G		Br	L	0710		1
93K15	951299	10	375544	6089507	375444	6089718		PTCCl	1	0.79	5.16	18	M	G		Bl	L	0710	GREEN	1/2
93K15	951300	10	376658	6089071	376558	6089282		PTCCl	1	0.79	5.16	12	M	G		Br	L	0710	GREEN	2/2
93K15	951302	10	374786	6088911	374686	6089122	10	PTCCl	0	0.03	0.66	2	M	G		Br	L	0710		1
93K15	951303	10	374786	6088911	374686	6089122	20	PTCCl	0	0.03	0.66	2	M	G		Br	L	0710		1
93K15	951304	10	374737	6089488	374637	6089699		PTCCl	0	0.03	0.68	2	M	G		Br	L	0710		1
93K15	951306	10	374313	6089556	374213	6089767		PTCCl	0	0.06	1.67	6	L	G		Gy/Gr	L	0710		1
93K15	951307	10	372944	6089033	372844	6089244		PTCCl	0	0.01	0.58	1	L	O		Br	L	0710		1
93K15	951308	10	373874	6088126	373774	6088337		PTCCs	0	0.04	1.28	1	L	O/G		Br	L	0710		1
93K15	951309	10	373623	6087297	373523	6087508		PTCCs	0	0.02	0.74	2	L	O/G		Br	L	0710		1
93K15	951310	10	375902	6087045	375802	6087256		PTCCs	0	0.01	0.36	6	M	G		Bl/Gr	L	0710		1
93K15	951311	10	376876	6084477	376776	6084688		PTCCs	0	0.01	0.01	1	L	O		Br	L	0710		1
93K15	951312	10	379779	6085733	379679	6085944		PTCCl	0	0.01	0.01	5	M	G		Bl	L	0710		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K15	951313	10	394278	6081890	394178	6082101		uTrTt	0	0.01	0.01	4	M	G		Br	L	0710		1
93K15	951314	10	396130	6080322	396030	6080533		uTrTt	0	0.02	0.70	1	M	G		Br	L	0710		1
93K15	951315	10	395434	6078190	395334	6078401		muTrTs	0	0.01	0.37	1	L	G		Br	L	0710		1
93K15	951316	10	396895	6078570	396795	6078781		muTrTs	0	0.01	0.01	1	M	G		Br	L	0710		1
93K15	951317	10	398907	6078151	398807	6078362		uTrTt	0	0.01	0.37	1	M	G		Br/Bl	L	0710		1
93K15	951318	10	400468	6076481	400368	6076692		uTrTt	0	0.06	0.90	1	L	O		Br	L	0710		1
93K15	951319	10	399161	6075391	399061	6075602		muTrTs	0	0.04	0.92	2	M	G		Br/Bl	L	0710		1
93K09	951320	10	405068	6067156	404968	6067367		muTrTs	3	80.60	79.62	6	M	F		Gy	L	0710	TEZZERON	5/5
93K09	951322	10	410315	6066939	410215	6067150		muTrTs	1	0.60	3.23	13	H	G		Br	L	0710		1
93K09	951323	10	412405	6064103	412305	6064314	10	muTrTs	1	0.27	2.24	6	M	G		Br	L	0710		1
93K09	951324	10	412405	6064103	412305	6064314	20	muTrTs	1	0.27	2.24	6	L	G		Br	L	0710		1
93K10	951325	10	395102	6056781	395001	6056992		PTCCs	0	0.01	0.01	2	L	F	W, F	Gy	L	0810		1
93K10	951326	10	393580	6063977	393479	6064188		PTCCs	0	0.09	1.24	2	M	G		Br	L	0810		1
93K10	951327	10	394287	6064897	394186	6065108		PTCCs	0	0.04	0.88	2	M	O		Br	L	0810		1
93K10	951328	10	391795	6064971	391694	6065182		PTCCs	1	0.31	2.88	8	M	G		Br	L	0810		1/2
93K10	951329	10	391626	6064264	391525	6064475		PTCCs	1	0.31	2.88	12	M	G		Br	L	0810		2/2
93K10	951330	10	390338	6064459	390237	6064670		PTCCs	0	0.04	1.10	19	M	G		Br/Bl	L	0810		1
93K10	951331	10	389399	6064769	389298	6064980		PTCCs	0	0.04	0.94	22	M	G		Br	L	0810		1
93K10	951333	10	389910	6065671	389809	6065882		PTCCs	0	0.02	0.68	2	M	O		Br	L	0810		1
93K10	951334	10	388107	6065681	388006	6065892		PTCCs	0	0.01	0.01	5	L	F/O		Br	L	0810		1
93K10	951335	10	390030	6066333	389929	6066544		PTCCs	1	0.35	4.54	16	M	G		Br/Tn	L	0810		1/3
93K10	951336	10	390617	6066306	390516	6066517		PTCCs	1	0.35	4.54	20	M	G		Br	L	0810		2/3
93K10	951337	10	391716	6066236	391615	6066447		PTCCs	0	0.07	1.33	22	M	G	W, C, F	Br	L	0810		1
93K10	951338	10	391814	6066875	391713	6067086		PTCCs	0	0.01	0.37	4	M	G	W, C, F	Br	L	0810		1
93K10	951339	10	390749	6066575	390648	6066786		PTCCs	0	0.06	0.97	15	M	G		Br	L	0810		1
93K10	951340	10	390074	6066778	389973	6066989		PTCCs	1	0.35	4.54	22	M	G		Br	L	0810		3/3
93K10	951342	10	388662	6066768	388561	6066979		PTCCs	0	0.01	0.34	6	L	G		Bl	L	0810		1
93K10	951343	10	388677	6066796	388576	6067007		PTCCs	0	0.01	0.34	6	L	G		Br/Bl	L	0810		1
93K10	951344	10	388687	6067205	388586	6067416		PTCCs	0	0.01	0.43	4	L	O		Br	L	0810		1
93K10	951345	10	386433	6066608	386332	6066819		PTCCs	0	0.10	1.44	1	L	O		Br	L	0810		1
93K10	951346	10	385908	6067820	385807	6068031		PTCCs	1	0.28	3.12	24	L	G		Br	L	0810		1/2
93K10	951347	10	386108	6068088	386007	6068299	10	PTCCs	1	0.28	3.12	11	L	G		Br	L	0810		2/2
93K10	951348	10	386110	6068094	386009	6068305	20	PTCCs	1	0.28	3.12	11	L	G		Br	L	0810		2/2
93K10	951349	10	387199	6067796	387098	6068007		PTCCs	1	0.27	3.20	12	L	F/G		Br/Gr	L	0810		1/2
93K10	951350	10	387674	6067950	387573	6068161		PTCCs	1	0.27	3.20	28	L	G		Br/Bl	L	0810		2/2
93K10	951351	10	389725	6067822	389624	6068033		PTCCs	0	0.05	1.01	1	M	O		Br/Tn	L	0810		1
93K10	951352	10	392854	6067825	392754	6068036		PTCCs	0	0.04	0.80	22	M	G		Br/Bl	L	0810		1
93K15	951353	10	394489	6069223	394389	6069434		PTCCs	0	0.10	1.35	8	L	G		Br	L	0810		1
93K15	951354	10	392373	6068493	392273	6068704		PTCCs	0	0.06	1.01	2	L	G		Br	L	0810		1
93K15	951355	10	391532	6068893	391432	6069104		PTCCs	0	0.12	1.52	6	M	G	W, F	Br	L	0810		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K15	951356	10	390884	6068869	390784	6069080		PTCCs	0	0.10	1.25	6	M	G		Br	L	0810		1
93K15	951357	10	389467	6068706	389367	6068917		PTCCs	0	0.03	0.81	18	M	O		Br/Tn	L	0810		1
93K15	951359	10	388425	6068998	388325	6069209		PTCCs	0	0.07	1.18	17	M	G		Br	L	0810		1
93K15	951360	10	388091	6069478	387991	6069689		PTCCs	0	0.04	0.79	6	M	G		Bl	L	0810		1
93K15	951362	10	385053	6069081	384952	6069292		PTCCs	1	0.37	2.56	17	L	G		Br/Tn	L	0810		1
93K15	951363	10	385747	6072170	385647	6072381	10	PTCCs	0	0.01	0.44	11	L	G		Br	L	0810		1
93K15	951364	10	385764	6072190	385664	6072401	20	PTCCs	0	0.01	0.44	11	L	G		Br	L	0810		1
93K15	951365	10	388727	6073446	388627	6073657		PTCCs	0	0.09	1.18	5	M	G		Br	L	0810		1
93K15	951367	10	390114	6075525	390014	6075736		PTCCl	0	0.14	1.47	8	M	G		Br	L	0810		1
93K15	951368	10	388642	6075978	388542	6076189		PTCCl	0	0.06	1.27	4	M	G		Br	L	0810		1
93K15	951369	10	384032	6078350	383932	6078561		PTCCl	0	0.04	0.96	8	L	O/G		Br	L	0810		1
93K15	951370	10	382173	6077327	382073	6077538		PTCCs	0	0.01	0.48	19	L	G		Br/Bl	L	0810		1
93K15	951371	10	381586	6077400	381486	6077611		PTCCs	0	0.06	1.05	23	L	G		Bl	L	0810		1
93K15	951372	10	381105	6077261	381005	6077472		PTCCs	1	0.33	3.49	14	L	G		Br	L	0810		1
93K15	951373	10	380955	6077929	380855	6078140		PTCCs	1	0.33	3.49	10	L	G		Br	L	0810		1
93K15	951374	10	379827	6079177	379727	6079388		PTCCl	0	0.01	0.26	15	L	O		Gr	L	0810		1
93K15	951375	10	379122	6080163	379022	6080374		PTCCl	0	0.03	0.80	12	L	O/G		Gr/Bl	L	0810		1
93K15	951376	10	378406	6079733	378306	6079944		PTCCl	0	0.03	0.85	12	L	O/G		Gr	L	0810		1
93K15	951377	10	377638	6079535	377538	6079746		PTCCs	0	0.06	1.32	9	L	F		Br	L	0810		1
93K15	951378	10	376209	6079890	376109	6080101		PTCCs	0	0.01	0.38	12	M	O		Br	L	0810		1
93K15	951379	10	374171	6080061	374070	6080272		PTCCs	3	15.14	19.78	2	M	F		Gy	L	0810	TREMBLEUR	1
93K15	951380	10	377326	6077812	377225	6078023		PTCCs	0	0.03	0.70	7	M	G		Bl/Gr	L	0810		1
93K15	951382	10	378164	6078195	378064	6078406		PTCCs	0	0.05	1.14	11	M	F		Tn/Br	L	0810		1
93K15	951383	10	379362	6076917	379262	6077128		PTCCs	0	0.06	0.99	20	M	G		Gr	L	0810		1
93K15	951384	10	376981	6077319	376880	6077530	10	PTCCs	0	0.01	0.01	9	M	G		Bl	L	0810		1
93K15	951385	10	376985	6077339	376884	6077550	20	PTCCs	0	0.01	0.01	6	M	O/G	W	Gr	L	0810		1
93K15	951386	10	375774	6076557	375673	6076768		PTCCs	0	0.01	0.43	12	M	O		Br	L	0810		1
93K15	951387	10	374462	6076133	374361	6076344		PTCCs	0	0.05	0.88	12	L	G	W	Bl	L	0810		1
93K15	951388	10	374676	6074627	374575	6074838		JKgd	0	0.04	0.75	14	M	F/G		Br/Gr	L	0810		1
93K15	951389	10	373525	6070168	373424	6070379		JKgd	0	0.22	3.10	17	H	F/G	W	Gr	L	0810		1/3
93K15	951390	10	373666	6069740	373565	6069951		PTCCs	0	0.22	3.10	20	H	F/G		Br/Gr	L	0810		2/3
93K15	951391	10	373973	6069357	373872	6069568		PTCCs	0	0.22	3.10	8	H	G		Br/Gr	L	0810		3/3
93K15	951392	10	374625	6069100	374524	6069315		JKgd	0	0.24	2.29	11	H	G		Gr	L	0810		1
93K10	951394	10	373455	6067947	373353	6068158		PTCCs	2	3.82	9.74	6	M	F/G	C	Br/Tn	L	0810	TARNEZELL	1/4
93K10	951395	10	373997	6067144	373895	6067355		PTCCs	2	3.82	9.74	8	M	F/G	C	Br/Tn	L	0810	TARNEZELL	2/4
93K10	951396	10	374944	6066809	374843	6067020		PTCCs	2	3.82	9.74	8	M	F/G	C	Br/Tn	L	0810		3/4
93K10	951397	10	375778	6066071	375677	6066282		PTCCs	2	3.82	9.74	3	M	O/G	C	Gr	L	0810	TARNEZELL	4/4
93K10	951398	10	373166	6062666	373064	6062877		PTCCs	1	0.35	3.25	14	H	G	W	Gr	L	0810		1
93K10	951399	10	376995	6063618	376894	6063829		PTCCs	0	0.19	2.05	5	M	O/G	W	Br	L	0810		1
93K15	951400	10	377433	6069068	377332	6069279		JKgd	1	0.24	2.29	12	M	G		Gr	L	0810		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K15	951402	10	378635	6070229	378534	6070440	10 20	PTTrCCs	0	0.07	1.49	3	M	F		Tn	L	0810		1
93K15	951403	10	376517	6071410	376416	6071621		JKgd	0	0.01	0.47	3	H	O		Br/Gr	L	0810		1
93K15	951404	10	376517	6071410	376416	6071621		JKgd	0	0.01	0.47	3	H	O		Br/Gr	L	0810		1
93K15	951405	10	377611	6071672	377510	6071883		PTTrCCs	0	0.09	1.41	14	M	O/G	W	Bl	L	0810		1
93K15	951406	10	378000	6073260	377899	6073471		PTTrCCs	0	0.04	0.83	9	M	O/G	W	Br	L	0810		1
93K15	951407	10	379968	6074029	379867	6074240		PTTrCCs	0	0.03	0.82	18	L	G	W	Br	L	0810		1
93K15	951408	10	381045	6075115	380944	6075326		PTTrCCs	0	0.09	1.27	18	L	O/G		Br	L	0810		1
93K15	951410	10	381595	6074664	381495	6074875		PTTrCCs	0	0.19	1.88	5	L	O/G		Br/Gr	L	0810		1
93K15	951411	10	382398	6074193	382298	6074404		PTTrCCs	0	0.03	0.67	8	M	F		Tn	L	0810		1
93K15	951412	10	381902	6073554	381801	6073765		PTTrCCs	0	0.13	1.55	10	M	F/G		Tn/Gr	L	0810		1
93K15	951413	10	382908	6072682	382807	6072893		PTTrCCs	0	0.04	0.79	12	M	F		Gr/Tn	L	0810	DESTLAY	1
93K15	951414	10	383661	6072942	383561	6073153		PTTrCCs	0	0.03	0.65	13	M	F		Br	L	0810		1
93K15	951415	10	384202	6072628	384102	6072839		PTTrCCs	0	0.05	1.01	7	M	F		Tn/Br	L	0810		1
93K09	951416	10	420492	6067189	420392	6067400		uTrTt	1	0.34	2.59	5	L	G		Br	L	0810		1
93K09	951417	10	422495	6066036	422395	6066247		uTrTt	0	0.08	1.57	6	M	G		Br	L	0810		1
93K09	951418	10	422405	6065609	422305	6065820		uTrTt	0	0.01	0.01	1	L	O		Br	L	0810		1
93K09	951419	10	421493	6064351	421393	6064562		uTrTt	0	0.08	1.47	2	L	O		Gy/Tn	L	0810		1
93K09	951420	10	421077	6063590	420977	6063801		uTrTt	0	0.01	0.01	2	L	O		Br	L	0810		1
93K09	951422	10	421988	6062445	421888	6062656		uTrTt	0	0.01	0.53	2	M	O		Br	L	0810		1
93K09	951423	10	419327	6060007	419227	6060218		uTrTt	0	0.01	0.35	4	L	O		Br	L	0810		1
93K09	951424	10	419327	6060007	419227	6060218	20	uTrTt	0	0.01	0.35	4	L	O		Br	L	0810	YATZUTZIN	1
93K09	951426	10	422158	6058759	422058	6058970		MPCv	0	0.03	0.73	13	M	G		Gr	L	0810		1
93K09	951427	10	420566	6058736	420466	6058947		uTrTt	2	1.98	8.26	9	M	G		Gr	L	0810		1/2
93K09	951428	10	419178	6059101	419078	6059312		uTrTt	2	1.98	8.26	9	M	G		Br	L	0810		2/2
93K09	951429	10	418065	6058258	417965	6058469		muTrTs	0	0.07	1.01	8	L	O/G	C	Br/Gr	L	0810		1
93K09	951430	10	416979	6058718	416879	6058929		muTrTs	0	0.07	1.11	7	L	G		Br/Gr	L	0810		1
93K09	951431	10	419370	6057879	419270	6058090		muTrTs	1	0.40	2.93	10	L	G		Gr	L	0810		1
93K09	951432	10	422150	6057270	422050	6057481		uTrTt	0	0.07	1.31	14	L	G		Br	L	0810		1
93K09	951433	10	421707	6057262	421607	6057473		uTrTt	0	0.01	0.01	14	L	O		Br	L	0810		1
93K09	951434	10	425688	6042578	425588	6042789		PTTrCCu	0	0.01	0.01	2	H	O		Gr	L	0810		1
93K09	951435	10	425825	6041501	425725	6041712		PTTrCCu	0	0.01	0.01	2	H	O		Br	L	0810	GRASSHAM	1
93K09	951436	10	381079	6040983	380978	6041194		MJt	3	3.52	20.49	16	M	G	C	Br/Gr	L	0910		5/7
93K10	951437	10	380191	6041166	380090	6041377		MJt	3	3.52	20.49	4	M	G		Br	L	0910		6/7
93K10	951438	10	376914	6041121	376813	6041332		MJt	2	4.21	20.32	23	H	G		Br	L	0910		1/3
93K10	951439	10	373701	6042635	373600	6042846		MJt	1	0.40	3.44	4	H	G		Br	L	0910		1
93K10	951440	10	372868	6042484	372767	6042695	10 20	MJt	1	0.40	3.44	12	H	G		Gr/Br	L	0910		1
93K10	951442	10	373394	6043458	373293	6043669		MJt	0	0.02	0.81	5	H	O/G		Br	L	0910		1
93K10	951443	10	374275	6043677	374174	6043888		MJt	0	0.07	1.52	24	H	G		Br	L	0910		1
93K10	951444	10	375977	6044039	375876	6044250		MJt	0	0.10	1.46	3	H	G		Br/Gr	L	0910		1
93K10	951445	10	375970	6044006	375869	6044217		MJt	0	0.10	1.46	3	H	G		Br/Gr	L	0910		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	UTM East NAD83	UTM North NAD83	REP	Form	Size	Area	Peri	Depth	Relief	Comp	Cont	Colour	Susp	Date	Lake Name	Site
93K10	951446	10	376355	6043867	376254	6044078		MJt	0	0.02	0.47	8	H	O		Br	L	0910		1
93K10	951447	10	375588	6044768	375487	6044979		MJt	0	0.03	0.73	6	M	O/G	W	Br	L	0910		1
93K10	951448	10	378075	6045982	377974	6046193		KTS	0	0.02	0.66	1	M	O	W	Br	L	0910		1
93K10	951449	10	375810	6046274	375709	6046485		KTS	0	0.24	2.45	14	M	G		Br	L	0910		1/2
93K10	951450	10	375576	6045886	375475	6046097		MJt	0	0.24	2.45	13	M	G		Br	L	0910		2/2
93K10	951451	10	374552	6045713	374451	6045924		MJt	1	0.60	4.20	10	M	G	W	Gr/Br	L	0910	TOMAS	1/2
93K10	951453	10	373816	6045411	373715	6045622		MJt	1	0.60	4.20	3	M	G		Gr/Br	L	0910	TOMAS	2/2
93K10	951454	10	371781	6045729	371680	6045940		MJt	0	0.01	0.42	6	H	O		Br	L	0910		1
93K10	951455	10	376213	6049478	376112	6049689		PTCCs	3	6.99	15.85	16	H	F/G	C	Gr/Br	L	0910	WHITEFISH	1/4
93K10	951456	10	374307	6048927	374206	6049138		MJt	3	6.99	15.85	14	H	S/O/G		Bl/Gy	L	0910	WHITEFISH	2/4
93K10	951457	10	372961	6048602	372860	6048813		MJt	3	6.99	15.85	20	H	G		Gr	L	0910	WHITEFISH	3/4
93K10	951458	10	371087	6048769	370986	6048980		MJt	3	6.99	15.85	16	M	G		Gr	L	0910	WHITEFISH	4/4
93K10	951459	10	375893	6051788	375792	6051999		PTCCs	0	0.03	0.84	4	H	G		Br	L	0910		1
93K10	951460	10	374614	6052138	374513	6052349		PTCCs	0	0.01	0.46	10	H	O		Br	L	0910		1
93K10	951462	10	374048	6052214	373947	6052425		PTCCs	0	0.09	1.50	20	H	O		Br	L	0910		1
93K10	951463	10	373642	6053133	373541	6053344		PTCCs	0	0.01	0.01	8	H	O		Br	L	0910		1
93K10	951464	10	375885	6053674	375784	6053885	10	PTCCs	0	0.09	1.15	4	L	O	W	Br	L	0910		1
93K10	951465	10	375885	6053674	375784	6053885	20	PTCCs	0	0.09	1.15	4	L	O	W	Br	L	0910		1
93K10	951466	10	381989	6049251	381888	6049462		PTCCs	1	0.27	2.76	9	L	G	W	Br	L	0910	TSEKET	1/2
93K10	951467	10	382111	6048491	382010	6048702		PTCCs	1	0.27	2.76	8	L	G	W	Br	L	0910	TSEKET	2/2
93K10	951468	10	380160	6049013	380059	6049224		PTCCs	0	0.02	0.55	5	L	G	W	Br	L	0910		1
93K10	951469	10	380834	6047915	380733	6048126		PTCCs	0	0.16	2.87	5	L	G	W	Br	L	0910	TANDAT	1
93K10	951470	10	382202	6047580	382101	6047791		PTCCs	0	0.04	0.88	7	L	G	W	Br	L	0910		1
93K10	951471	10	385436	6047705	385335	6047916		PTCCs	0	0.01	0.01	1	L	F/O	W	Gy/Br	L	0910		1
93K10	951472	10	386036	6047461	385935	6047672		PTCCs	0	0.01	0.01	2	L	O	W	Br	L	0910		1
93K10	951473	10	382904	6043365	382803	6043576		PTCCs	2	1.39	6.01	13	M	G		Gr	L	0910	OGSTON	1/2
93K10	951474	10	382108	6043322	382007	6043533		PTCCs	2	1.39	6.01	9	M	G		Gr	L	0910	OGSTON	2/2
93K10	951475	10	379340	6042500	379239	6042711		MJt	2	4.21	20.32	22	M	G		Gr	L	0910	CAMSELL	2/3
93K10	951476	10	377608	6042105	377507	6042316		MJt	2	4.21	20.32	7	M	G		Gy/Gr	L	0910	CAMSELL	3/3
93K10	951477	10	378878	6041601	378777	6041812		MJt	0	0.01	0.49	5	M	G		Br	L	0910		1
93K10	951479	10	380778	6042474	380677	6042685		PTCCs	0	0.05	1.47	1	M	S/F		Gr/Br	L	0910		1
93K10	951480	10	381273	6042060	381172	6042271		PTCCs	0	0.19	2.23	8	M	G		Br	L	0910		1
93K10	951482	10	384423	6041273	384322	6041484		PTCCs	3	3.52	20.49	16	M	G	C	Br/Gr	L	0910	GRASSHAM	2/7
93K10	951483	10	383344	6041629	383243	6041840		PTCCs	3	3.52	20.49	18	M	G		Br/Gr	L	0910	GRASSHAM	3/7
93K10	951485	10	382341	6041802	382240	6042013	10	PTCCs	3	3.52	20.49	7	M	G		Br	L	0910	GRASSHAM	4/7
93K10	951486	10	382341	6041802	382240	6042013	20	PTCCs	3	3.52	20.49	7	M	G		Br	L	0910	GRASSHAM	4/7
93K10	951487	10	382289	6042354	382188	6042565		PTCCs	0	0.01	0.48	3	M	O		Br	L	0910		1
93K10	951488	10	389935	6043759	389834	6043970		PTCCs	0	0.01	0.39	3	L	O/G		Br/Gr	L	0910		1

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb INAA	Au2 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 ppm INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 ppm INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K09	951002	10	432558	6039933		muTrTs	8	7	0.4	5.4	450	18.0	16	2.0	63	12	1	2.1	9	0.2	15	56	16	1.8	11.0	0.70	0.5	0.5	2.0	1	1.5	1	20.88
93K09	951003	10	434675	6040495		muTrTs	3		0.6	10.0	600	15.0	30	3.6	100	15	2	3.1	14	0.3	7	60	39	2.9	15.0	1.10	0.5	0.5	3.0	1	1.7	2	21.29
93K09	951004	10	435102	6041278		muTrTs	3		0.6	4.6	360	12.0	21	2.2	62	8	1	2.0	9	0.3	1	27	22	2.0	13.0	0.44	0.5	0.5	2.0	1	1.4	2	16.06
93K10	951005	10	385009	6040640	10	PTCCs	3	4	1.0	5.8	450	29.0	44	1.7	76	13	2	2.9	20	0.2	1	84	19	4.7	14.0	0.92	0.5	0.7	4.4	1	3.1	2	14.84
93K10	951006	10	385009	6040640	20	PTCCs	1		1.0	6.1	440	30.0	40	1.2	82	13	1	3.0	20	0.3	1	82	27	4.7	14.0	0.87	0.5	0.6	4.4	1	3.1	2	16.06
93K10	951007	10	382805	6041119		PTCCs	3		0.6	3.9	160	30.0	20	0.8	30	5	1	1.4	10	0.2	2	38	7	2.4	7.2	0.22	0.5	0.5	2.5	1	1.5	1	9.84
93K09	951008	10	432205	6047810		muTrTs	4		1.2	5.3	450	42.0	21	1.6	110	14	1	2.9	11	0.3	2	97	36	2.4	16.0	0.59	0.5	0.5	2.5	1	1.5	2	20.09
93K09	951009	10	431490	6047826		muTrTs	1		0.1	31.0	450	17.0	5	0.5	20	5	1	29.9	2	0.2	1	10	5	0.1	0.4	0.03	0.5	0.5	0.2	1	0.2	1	23.40
93K09	951010	10	434972	6047692		uTrTt	1		0.6	16.0	530	46.0	18	1.1	46	12	1	4.4	8	0.2	4	25	23	1.5	8.2	1.00	0.5	0.5	1.4	1	0.9	1	20.50
93K09	951011	10	434408	6048246		uTrTt	1		0.9	6.1	330	75.8	5	0.5	48	5	1	4.4	3	0.2	7	58	5	0.9	5.2	0.17	0.5	0.5	0.9	1	0.7	1	21.21
93K09	951013	10	434245	6051056		MPCv	1		1.1	10.0	460	51.1	24	1.0	110	14	1	5.8	12	0.3	11	130	19	2.5	16.0	0.48	0.5	0.5	2.3	1	3.3	1	23.18
93K09	951014	10	432552	6054405		MPCv	3		0.9	3.8	460	46.0	33	1.7	120	12	1	2.6	17	0.5	1	97	27	3.8	19.0	0.56	0.5	0.7	3.2	1	1.9	2	20.59
93K09	951015	10	435030	6056037		MPCv	3		0.9	4.6	460	39.0	41	1.5	100	14	1	2.8	21	0.5	1	95	27	4.4	17.0	0.69	0.5	0.6	3.2	1	1.5	2	17.01
93K09	951016	10	433474	6057974		MPCv	4		0.7	4.4	280	56.8	15	0.5	61	5	1	2.2	6	0.2	4	54	10	1.7	10.0	0.32	0.5	0.5	1.3	1	0.8	1	20.26
93K09	951017	10	434522	6059567		MPCv	1		0.5	103.0	470	37.0	5	0.5	20	5	1	6.3	2	0.2	62	10	5	0.2	0.9	0.05	0.5	0.5	0.3	1	3.2	1	19.47
93K09	951018	10	432587	6059397		MPCv	3		0.8	4.4	290	51.0	15	0.5	55	6	1	1.1	6	0.2	4	41	16	1.6	11.0	0.54	0.5	0.5	1.6	1	0.9	1	16.09
93K09	951019	10	429169	6060596		uTrTt	4		0.9	4.2	440	8.4	38	1.7	85	8	1	1.9	20	0.4	1	66	17	4.5	19.0	0.73	0.5	0.9	3.0	1	2.7	2	16.82
93K09	951020	10	430881	6061382		MPCv	1		0.7	2.3	330	16.0	29	0.5	62	5	1	0.9	11	0.3	1	34	14	3.0	11.0	0.47	0.5	0.5	1.7	1	0.8	1	9.96
93K09	951022	10	429840	6062157		uTrTt	6	6	1.5	9.4	620	71.6	32	3.5	100	11	1	4.0	17	0.5	4	100	35	3.8	19.0	0.29	0.5	0.7	3.1	1	1.5	1	21.03
93K09	951023	10	429962	6063959		uTrTt	4		0.9	3.7	790	6.3	37	2.8	120	13	2	3.2	19	0.3	1	57	51	3.9	18.0	1.80	0.5	0.6	3.8	1	2.1	2	23.03
93K09	951024	10	435343	6064431		MPCv	3		0.9	3.8	850	5.3	47	1.7	180	13	2	3.2	23	0.4	1	46	43	5.6	22.6	2.00	0.5	0.9	4.1	1	2.3	2	25.68
93K16	951025	10	432128	6069012		uTrTt	4		1.0	4.1	400	36.0	33	1.4	85	12	1	1.8	15	0.6	1	48	20	4.2	18.0	0.52	0.5	0.6	3.0	1	1.5	2	20.30
93K16	951027	10	433472	6069635	10	uTrTt	4		0.5	8.8	300	30.0	24	0.8	46	7	1	1.8	11	0.2	12	39	16	3.3	12.0	0.31	0.5	0.5	1.8	1	6.1	2	14.65
93K16	951028	10	433475	6069637	20	uTrTt	4		0.5	10.0	340	32.0	21	1.1	55	8	1	2.0	13	0.2	17	30	11	3.5	13.0	0.34	0.5	0.7	2.1	1	7.8	2	17.36
93K16	951029	10	435631	6070864		uTrTt	1		0.4	2.7	130	18.0	5	0.5	24	5	1	0.7	3	0.2	3	30	7	1.0	4.9	0.25	0.5	0.5	0.9	1	0.9	1	15.22
93K16	951030	10	429136	6069599		uTrTt	1	1	0.5	3.0	400	11.0	21	1.6	77	6	2	1.4	10	0.2	1	35	18	1.9	11.0	0.90	0.6	0.5	2.4	1	1.5	1	19.28
93K16	951031	10	431282	6071207		uTrTt	1		0.7	3.9	170	47.0	9	1.1	40	6	1	1.2	5	0.2	1	29	7	1.4	8.7	0.33	0.5	0.5	1.5	1	0.8	1	18.25
93K16	951032	10	431794	6073083		uTrTt	5		1.1	9.1	250	37.0	17	0.5	32	6	1	2.2	6	0.2	10	24	11	1.6	8.2	0.38	0.5	0.5	1.5	1	2.1	1	16.08
93K16	951033	10	432347	6073157		uTrTt	5		1.3	16.0	330	46.0	16	1.1	68	9	1	3.7	10	0.3	5	32	16	2.5	12.0	0.79	0.5	0.5	2.2	1	2.4	1	24.62
93K16	951034	10	433553	6073339		uTrTt	8	7	1.4	14.0	500	53.8	26	1.3	97	15	2	3.9	15	0.4	6	55	26	3.3	18.0	1.30	0.5	0.5	2.8	3	3.1	1	22.48
93K16	951035	10	434231	6073501		uTrTt	7	11	1.2	12.0	410	49.0	21	1.2	68	10	1	3.0	13	0.3	5	43	21	2.9	16.0	0.90	0.5	0.5	2.4	1	2.2	2	16.44
93K16	951036	10	429896	6074905		uTrTt	6	6	1.3	5.2	300	43.0	18	0.8	61	11	1	3.1	12	0.3	2	23	17	2.6	13.0	0.39	0.5	0.5	2.2	1	1.8	1	17.57
93K16	951037	10	427684	6077008		uTrTt	3		0.8	3.8	110	29.0	12	0.5	41	5	1	0.8	7	0.3	1	20	8	2.3	9.0	0.16	0.5	0.5	1.2	1	1.1	1	12.96
93K16	951038	10	431301	6077961		uTrTt	6	9	1.3	6.4	1100	5.6	42	2.1	120	14	2	3.9	20	0.4	1	32	64	4.1	19.0	2.39	0.8	0.6	4.1	1	2.4	2	26.32
93K16	951039	10	427834	6082196		uTrTt	8	6	0.9	9.2	550	18.0	28	1.7	81	18	1	3.6	15	0.3	1	33	38	3.5	18.0	1.20	0.5	0.6	3.1	1	2.0	2	16.01
93K16	951040	10	428701	6082861		uTrTt	5		1.1	7.8	820	10.0	34	2.0	120	20	2	4.3	18	0.4	1	29	52	4.1	21.0	1.80	0.5	0.5	3.5	2	2.3	2	22.66
93K16	951042	10	427399	6085102	10	uTrTt	4		0.4	3.0	120	20.0	9	0.5	22	5	1	0.6	2	0.2	2	10	5	0.8	3.7	0.21	0.5	0.5	0.7	1	0.7	1	9.96
93K16	951043	10	427358	6085098	20	uTrTt	2	2	0.5	3.3	150	19.0	9	0.5	20	5	1	0.9	3	0.2	3	12	5	0.9	3.7	0.28	0.5	0.5	0.8	1	0.9	1	8.63
93K16	951044	10	433397	6088791		TrJm	5		0.7	3.9	250	20.0	16	1.5	50	10	1	2.0	9	0.2	2	25	24	2.3	12.0	0.48	0.5	0.5	1.8	1	0.7	1	13.72
93K16	951045	10	432296	6093893		uTrTv	4		0.6	2.2	51	27.0	6	0.5	20	5	1	0.3	5	0.2	2	20	5	1.6	6.7	0.08	0.5	0.5	0.5	1	0.8	1	11.38

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.5	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g
93K16	951046	10	429755	6093918		uTrTv	3		1.0	9.2	470	16.0	19	0.5	110	5	1	1.3	9	0.2	5	10	16	1.7	8.2	1.20	0.5	0.5	1.5	1	3.5	1	16.76
93K16	951047	10	425854	6094264		EJd	6	8	0.5	2.5	460	8.2	18	2.2	50	6	1	1.7	10	0.2	1	24	36	1.8	10.0	1.00	0.5	0.5	2.6	1	1.1	1	13.11
93K16	951048	10	421351	6094481		uTrTv	5		0.7	5.6	220	17.0	15	0.8	30	9	1	1.5	9	0.3	1	10	13	2.1	8.3	0.47	0.5	0.5	1.4	1	0.8	1	13.99
93K16	951049	10	420993	6094277		uTrTv	4		0.6	5.0	140	24.0	15	0.6	33	8	1	1.0	7	0.2	1	22	5	1.9	6.3	0.31	0.5	0.5	1.2	1	0.6	1	12.60
93K16	951050	10	420336	6094008		uTrTv	5		0.7	8.3	330	25.0	24	0.7	56	10	1	2.5	13	0.4	1	10	11	3.2	12.0	0.58	0.5	0.5	2.1	1	1.0	1	11.92
93K16	951051	10	422391	6093415		EJd	3		0.7	3.9	420	14.0	24	0.9	57	10	1	1.9	12	0.2	3	24	23	2.2	10.0	1.20	0.5	0.5	2.1	1	2.1	1	19.16
93K16	951052	10	425399	6089820		EJd	2		0.4	1.8	260	10.0	22	0.9	57	5	1	1.1	12	0.2	1	14	12	2.5	10.0	0.57	0.5	0.5	1.8	1	3.7	1	15.07
93K16	951053	10	427014	6088955		uTrTt	17	15	0.9	7.6	290	14.0	30	0.5	130	6	1	1.0	10	0.2	5	19	8	2.5	7.0	0.55	0.5	0.5	1.4	1	4.5	1	12.67
93K16	951054	10	423807	6086092		uTrTt	6	5	0.9	8.0	900	11.0	34	1.6	120	17	2	3.9	16	0.2	1	24	38	4.0	17.0	2.00	0.5	0.7	3.4	1	2.3	2	22.03
93K16	951055	10	424441	6084510		uTrTt	6	7	0.9	5.5	210	32.0	21	0.7	41	5	1	0.9	12	0.4	3	38	12	3.4	14.0	0.17	0.5	0.7	2.4	1	0.9	1	13.72
93K16	951056	10	422365	6084103		uTrTt	4		0.5	3.1	82	31.0	13	0.5	20	7	1	0.4	6	0.2	3	17	5	1.6	4.9	0.13	0.5	0.5	0.9	1	0.6	1	14.82
93K16	951058	10	422358	6081881		uTrTt	4		0.4	5.5	290	30.0	18	0.5	25	7	1	1.5	8	0.2	3	26	5	1.8	7.9	0.46	0.5	0.5	1.2	1	0.9	1	11.93
93K16	951059	10	421471	6079484		uTrTt	4		0.8	18.0	190	26.0	12	1.1	31	5	1	2.0	5	0.2	18	19	15	1.1	6.9	0.39	0.5	0.5	1.2	1	2.2	1	14.59
93K16	951060	10	423478	6076855		uTrTt	5		1.2	10.0	610	34.0	39	2.1	98	16	1	3.9	18	0.4	3	52	41	3.9	20.1	1.30	0.5	0.6	3.5	1	3.0	3	21.75
93K16	951062	10	422942	6074154	10	uTrTt	1		0.8	5.1	240	48.0	12	0.5	36	7	1	1.1	6	0.2	2	18	5	1.3	8.0	0.34	0.5	0.5	1.2	1	0.8	1	14.96
93K16	951063	10	422942	6074154	20	uTrTt	4		0.8	5.5	240	48.0	7	0.7	39	5	1	1.2	5	0.2	2	18	5	1.2	6.9	0.27	0.5	0.5	1.2	1	0.8	1	15.25
93K16	951064	10	423770	6074644		uTrTt	1		0.4	8.2	150	40.0	7	0.6	26	5	1	1.4	3	0.2	7	31	7	1.1	5.3	0.16	0.5	0.5	0.8	1	2.5	1	18.15
93K16	951065	10	423919	6074159		uTrTt	1		0.7	3.7	290	10.0	18	1.6	41	5	1	1.3	10	0.2	2	32	14	2.3	12.0	0.44	0.5	0.5	2.1	1	2.2	1	13.24
93K16	951066	10	423824	6073365		uTrTt	4	5	0.9	6.8	620	18.0	26	2.1	86	17	1	3.4	14	0.3	2	42	38	3.0	16.0	1.20	0.5	0.5	3.0	1	2.0	1	18.65
93K16	951067	10	423456	6072104		uTrTt	4		1.0	6.2	200	64.0	13	1.0	52	6	1	1.6	5	0.2	2	42	7	1.2	10.0	0.19	0.5	0.5	1.3	1	0.7	1	17.00
93K16	951068	10	424065	6071401		uTrTt	5		1.2	7.2	400	36.0	27	1.2	78	11	1	2.4	12	0.3	2	34	14	2.2	13.0	1.00	0.5	0.5	2.3	1	1.2	1	19.26
93K16	951069	10	432861	6075227		uTrTt	5		0.8	2.9	120	46.0	5	0.5	20	5	1	1.2	3	0.2	5	30	5	0.8	5.7	0.13	0.5	0.5	0.7	1	0.8	1	16.12
93K09	951071	10	431938	6045746		muTrTs	3		1.0	4.7	950	1.7	49	3.8	110	24	3	4.5	20	0.5	1	60	67	4.5	22.4	2.19	0.7	0.5	4.8	1	2.2	3	29.85
93K09	951072	10	430753	6049792		muTrTs	2		1.4	9.3	240	37.0	5	0.5	81	5	1	0.6	2	0.2	28	18	5	0.5	1.8	0.10	0.5	0.5	0.5	1	6.5	1	13.99
93K09	951073	10	429011	6050652		muTrTs	3		0.5	6.1	650	17.0	19	3.3	56	14	1	4.0	12	0.4	5	46	45	2.3	16.0	0.78	0.5	0.5	2.9	1	1.4	1	22.16
93K09	951074	10	429428	6052736		uTrTt	3		0.8	11.0	530	36.0	32	1.4	110	17	2	4.6	14	0.4	1	83	36	2.7	16.0	1.50	0.5	0.5	2.9	1	1.5	2	27.59
93K09	951075	10	429180	6053585		uTrTt	1		0.9	11.0	230	68.6	11	0.9	41	6	1	1.8	4	0.2	3	66	6	1.7	8.1	0.10	0.5	0.5	1.4	1	0.9	1	17.58
93K09	951076	10	427218	6055351		uTrTt	1		0.1	2.4	190	39.0	5	0.5	20	5	1	0.9	2	0.2	3	10	5	0.1	0.3	0.05	0.5	0.5	0.2	1	0.2	1	11.73
93K09	951077	10	428435	6054819		uTrTt	1		0.4	5.2	420	22.0	21	1.1	97	7	1	2.0	10	0.4	2	39	26	2.2	12.0	1.20	0.5	0.5	2.1	1	0.9	1	18.46
93K09	951078	10	428732	6055135		uTrTt	1		0.2	15.0	180	55.2	5	0.5	20	26	1	27.3	2	0.2	1	24	5	0.4	2.6	0.14	0.5	0.5	0.4	1	0.2	1	25.35
93K09	951079	10	429419	6055783		uTrTt	1		0.9	6.8	140	47.0	13	0.5	45	10	1	1.1	5	0.2	7	34	5	1.3	6.8	0.20	0.5	0.5	0.8	1	0.4	1	11.89
93K09	951080	10	428140	6057346		uTrTt	3		0.6	3.1	740	8.7	29	1.9	150	9	2	2.3	14	0.4	1	43	49	2.6	17.0	2.21	0.5	0.5	3.4	1	1.7	2	26.88
93K09	951082	10	427210	6062494	10	uTrTt	4		0.8	5.0	400	29.0	32	1.9	100	14	2	2.2	16	0.5	1	73	27	3.8	17.0	0.75	0.5	0.8	3.1	1	1.4	2	20.42
93K09	951083	10	427199	6062488	20	uTrTt	3		0.7	4.2	410	27.0	27	1.5	100	12	1	2.1	14	0.5	1	70	27	3.5	16.0	0.74	0.5	0.6	2.7	1	1.4	2	21.61
93K09	951084	10	426514	6067156		uTrTt	5	4	0.9	2.4	710	6.2	34	2.3	110	8	2	2.4	17	0.4	1	16	44	3.5	17.0	1.90	0.5	0.6	3.5	1	1.6	1	22.91
93K16	951085	10	421511	6067536		uTrTt	5		1.7	7.0	320	51.8	15	1.4	48	10	1	2.5	8	0.4	3	46	20	2.8	15.0	0.14	0.5	0.5	2.4	1	1.4	1	16.81
93K16	951086	10	421733	6068589		uTrTt	10	9	2.3	12.0	540	43.0	35	2.7	120	20	1	3.8	16	0.5	3	76	33	4.2	23.8	0.48	0.5	0.8	3.4	1	2.2	3	23.60
93K16	951087	10	420951	6071730		uTrTt	5		1.1	4.0	850	6.6	35	2.9	120	10	2	2.9	15	0.3	1	45	51	3.4	18.0	1.50	0.5	0.5	3.9	1	2.2	3	25.44
93K16	951089	10	420017	6071235		uTrTt	4		1.3	6.9	350	46.0	29	1.6	72	14	2	2.3	11	0.3	2	52	24	2.6	15.0	0.51	0.5	0.6	2.4	1	1.2	2	23.75
93K16	951090	10	419287	6071230		uTrTt	4		1.3	6.2	350	48.0	23	0.9	57	12	1	2.6	12	0.4	2	50	26	2.8	16.0	0.52	0.5	0.5	2.6	1	1.4	2	17.61

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.5	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g
93K16	951091	10	417794	6070422		uTrTt	6	7	1.4	12.0	710	41.0	41	2.2	140	18	4	4.0	18	0.4	1	57	48	3.9	22.7	1.60	0.5	0.7	3.9	1	2.3	3	26.19
93K16	951092	10	417021	6070066		uTrTt	5		1.4	10.0	590	50.3	39	1.8	120	21	2	3.9	17	0.5	1	46	31	3.6	22.3	1.10	0.5	0.6	3.8	1	2.1	4	23.01
93K16	951093	10	416636	6068839		uTrTt	3		1.8	5.8	130	62.9	12	0.5	29	6	1	1.4	5	0.2	5	10	5	1.2	9.4	0.09	0.5	0.5	1.2	1	0.7	1	20.40
93K16	951094	10	416829	6070983		uTrTt	1		1.1	3.8	110	54.3	5	0.5	36	6	1	0.7	3	0.2	5	21	6	0.8	7.1	0.10	0.5	0.5	0.8	1	0.4	1	19.17
93K16	951095	10	417209	6072891		uTrTt	1		0.9	4.7	240	54.1	16	0.9	27	11	1	2.0	5	0.2	5	30	15	1.3	8.7	0.31	0.5	0.5	1.2	1	1.0	1	22.66
93K16	951096	10	416105	6074190		uTrTt	5		1.2	6.9	450	47.0	25	1.7	78	15	1	3.4	10	0.3	3	52	35	2.9	13.0	0.54	0.5	0.5	2.3	1	1.4	1	22.28
93K16	951097	10	416643	6075034		uTrTt	1		1.6	18.0	590	42.0	14	1.6	75	13	2	7.7	13	0.4	3	46	21	3.6	17.0	0.69	0.5	0.5	2.7	1	1.6	2	19.35
93K16	951098	10	413444	6075866		uTrTt	3		0.9	4.0	170	69.3	9	0.6	23	7	1	1.7	5	0.2	6	25	7	1.4	10.0	0.13	0.5	0.5	1.1	1	0.6	1	15.38
93K16	951099	10	412699	6076271		uTrTt	2		0.5	1.8	120	30.0	5	0.5	20	5	1	0.2	2	0.2	3	10	5	0.4	3.2	0.07	0.5	0.5	0.4	1	0.3	1	15.74
93K16	951100	10	412645	6077222		uTrTt	2		0.6	2.4	280	15.0	22	0.7	40	6	1	1.6	12	0.3	1	25	10	3.0	14.0	0.46	0.5	0.5	1.6	1	1.3	1	18.82
93K16	951102	10	414263	6079754	10	uTrTt	1		0.7	3.6	230	37.0	17	1.1	65	14	1	1.7	7	0.2	3	33	20	2.1	13.0	0.40	0.5	0.5	1.4	1	0.9	2	16.90
93K16	951103	10	414263	6079754	20	uTrTt	2		0.7	3.8	240	38.0	15	1.1	42	14	1	1.6	7	0.3	3	16	15	2.1	13.0	0.38	0.5	0.5	1.5	1	0.9	1	16.60
93K16	951105	10	414184	6080846		uTrTt	4		1.1	6.4	280	49.0	16	0.8	39	10	1	1.9	7	0.2	3	10	18	2.0	11.0	0.43	0.5	0.5	1.6	1	0.9	1	16.20
93K16	951106	10	414312	6081150		uTrTt	2		1.6	6.2	280	60.0	15	1.0	42	12	1	1.5	8	0.2	4	26	23	2.2	11.0	0.48	0.5	0.5	1.9	1	1.2	1	16.81
93K16	951107	10	413188	6080403		uTrTt	2		1.1	5.1	170	47.0	16	1.1	45	14	1	2.2	10	0.2	3	44	12	2.5	14.0	0.33	0.5	0.5	1.9	1	1.1	1	18.91
93K16	951108	10	409845	6078214		uTrTt	5		1.2	5.8	420	33.0	30	1.0	58	13	2	2.6	13	0.2	3	24	22	3.1	14.0	0.64	0.5	0.5	2.0	1	1.2	2	13.03
93K16	951109	10	411813	6081349		uTrTt	2		0.9	5.6	190	55.0	13	0.7	56	8	1	1.5	8	0.3	4	15	15	1.9	12.0	0.42	0.5	0.5	1.5	1	1.1	1	19.87
93K16	951110	10	414427	6085352		uTrTt	3	3	0.4	2.5	250	19.0	12	1.0	43	6	1	1.2	6	0.2	2	11	14	1.4	7.3	0.59	0.5	0.5	1.1	1	1.0	1	15.64
93K16	951111	10	415561	6085215		uTrTt	4		0.8	5.1	250	40.0	11	0.9	32	12	1	1.6	6	0.2	5	24	6	1.2	8.0	0.50	0.5	0.5	1.3	1	1.4	1	19.21
93K16	951112	10	418130	6085077		uTrTt	2		1.2	5.7	180	24.0	21	0.5	70	5	1	0.7	10	0.2	6	10	10	2.2	7.6	0.43	0.5	0.5	1.2	1	2.7	1	12.99
93K16	951113	10	416563	6091859		uTrTv	4		0.8	4.6	180	30.0	11	0.5	26	8	1	1.3	6	0.2	3	18	11	1.6	7.1	0.37	0.5	0.5	1.1	1	0.7	1	13.22
93K16	951114	10	416334	6094537		uTrTv	5		0.6	5.6	200	40.0	21	0.5	35	8	1	2.8	14	0.2	6	10	8	3.2	9.5	0.12	0.5	0.6	1.1	1	0.9	2	14.99
93K16	951115	10	417136	6094897		uTrTv	7	6	0.8	3.1	170	46.0	26	0.5	22	6	1	0.9	11	0.2	4	27	8	2.7	10.0	0.21	0.5	0.5	1.3	1	0.9	1	17.12
93K16	951116	10	417038	6094136		uTrTv	2		0.2	0.9	77	4.8	12	0.5	20	5	1	0.3	8	0.2	1	10	5	2.2	6.2	0.11	0.5	0.5	0.8	1	1.2	1	8.86
93K16	951117	10	418707	6094421		uTrTv	1		0.5	3.4	64	25.0	5	0.5	20	5	1	0.3	2	0.2	3	10	5	0.7	2.9	0.10	0.5	0.5	0.7	1	0.3	1	13.65
93K16	951118	10	419740	6093386		uTrTv	4		0.6	7.9	350	23.0	20	0.7	53	14	1	2.6	12	0.3	2	10	15	3.1	11.0	0.56	0.5	0.8	1.9	1	1.1	2	12.75
93K16	951119	10	419336	6093170		uTrTv	14	15	0.6	5.8	360	19.0	27	0.8	67	8	1	2.0	12	0.2	2	10	21	3.0	12.0	0.77	0.5	0.5	2.1	1	1.2	2	13.44
93K16	951120	10	419491	6092240		uTrTv	2		0.4	4.3	94	16.0	16	0.5	25	5	1	0.6	10	0.3	3	16	5	2.5	8.2	0.18	0.5	0.5	1.3	1	0.8	1	15.28
93K16	951122	10	419601	6089516		EJd	4		0.7	2.8	120	38.0	11	0.5	22	5	1	0.4	7	0.2	3	17	5	1.9	6.8	0.09	0.5	0.5	1.0	1	0.6	1	12.69
93K16	951123	10	420254	6087668		EJd	1		1.2	7.8	52	51.0	5	0.5	30	8	1	1.3	2	0.2	6	10	5	0.2	1.6	0.06	0.5	0.5	0.2	1	1.3	1	16.82
93K16	951124	10	418360	6086491		uTrTt	8	8	0.6	5.5	410	16.0	25	0.8	88	12	1	1.7	13	0.3	3	23	15	3.2	12.0	0.89	0.5	0.5	2.0	1	2.6	1	16.95
93K16	951125	10	419738	6086087	10	uTrTt	3		0.6	3.6	59	51.3	6	0.5	20	10	1	0.9	2	0.2	3	22	5	0.7	3.3	0.06	0.5	0.5	0.3	1	0.3	1	10.29
93K16	951126	10	419738	6086087	20	uTrTt	1		0.6	4.0	86	53.7	6	0.5	26	9	1	1.1	2	0.2	2	17	5	0.8	3.8	0.05	0.5	0.5	0.5	1	0.3	1	12.57
93K16	951127	10	419384	6084476		uTrTt	7	7	1.0	6.3	340	62.7	29	0.8	46	7	1	1.6	12	0.2	5	25	12	2.5	10.0	0.24	0.5	0.5	1.7	1	0.9	1	15.54
93K16	951128	10	417791	6082277		EJd	6	5	1.1	5.5	430	26.0	23	0.8	100	11	1	1.6	12	0.2	2	26	15	2.7	11.0	0.89	0.5	0.5	1.9	1	2.5	1	16.56
93K16	951129	10	416686	6082380		EJd	3		0.6	2.6	380	11.0	17	1.2	57	8	1	1.3	10	0.2	1	24	22	2.1	10.0	0.65	0.5	0.5	1.8	1	1.0	1	14.55
93K16	951130	10	413310	6073297		uTrTt	1		0.6	3.8	210	38.0	11	0.7	33	5	1	1.2	5	0.2	2	10	10	1.4	7.0	0.28	0.5	0.5	1.4	1	0.6	1	8.44
93K16	951131	10	413973	6069528		uTrTt	7	10	3.7	15.0	240	58.1	22	0.9	35	12	1	3.7	12	0.2	6	33	17	2.7	14.0	0.17	0.5	0.5	2.1	1	1.4	1	19.54
93K09	951132	10	424942	6063825		uTrTt	5		1.0	5.2	280	14.0	23	1.0	57	7	1	1.3	12	0.2	1	37	11	3.0	12.0	0.36	0.5	0.6	2.1	1	3.0	2	13.95
93K09	951133	10	427100	6059956		uTrTt	1		0.5	2.3	490	12.0	25	1.3	110	7	2	1.3	10	0.2	4	32	39	1.8	11.0	1.20	0.5	0.5	2.4	1	1.1	1	17.47

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REF	Form	Au 1	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.5	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g
93K09	951134	10	426855	6057353		uTrTt	5		1.2	10.0	810	17.0	46	2.0	140	18	3	4.6	22	0.5	3	90	39	4.8	19.0	1.70	0.5	0.8	3.5	1	2.0	4	25.42
93K09	951135	10	424940	6055184		uTrTt	1		0.5	3.0	240	9.4	19	0.9	55	6	1	1.7	11	0.2	1	64	7	2.7	11.0	0.31	0.5	0.5	1.6	1	1.7	2	14.09
93K09	951136	10	426274	6054127		uTrTt	1		0.1	5.2	190	89.6	5	0.5	20	5	1	1.3	2	0.2	5	10	5	0.2	0.6	0.08	0.5	0.5	0.4	1	0.2	1	14.79
93K09	951138	10	427488	6052244		uTrTt	1		0.3	7.7	230	104.0	5	0.5	30	5	1	1.2	2	0.2	42	26	7	0.6	4.4	0.23	0.5	0.5	0.7	1	0.9	1	19.59
93K09	951139	10	427376	6051672		muTrTs	1		0.7	4.7	330	89.5	17	1.2	53	16	1	3.2	8	0.2	7	41	27	1.7	12.0	0.57	0.5	0.5	2.0	1	1.4	2	23.38
93K09	951140	10	426322	6048973		muTrTs	3		0.6	3.9	640	12.0	33	3.0	130	17	2	2.7	14	0.3	1	50	51	2.7	18.0	1.20	0.5	0.5	3.7	1	1.9	2	19.06
93K09	951142	10	419787	6040890		PTTrCCb	1		0.8	4.2	640	17.0	31	2.4	180	21	2	3.6	16	0.3	1	150	37	3.0	17.0	1.20	0.5	0.5	3.4	1	1.5	2	22.86
93K09	951143	10	416173	6043914		PTTrCCb	1		1.1	11.0	580	67.4	22	1.5	110	13	1	3.8	13	0.3	9	120	27	2.6	14.0	1.10	0.5	0.5	3.0	1	1.9	2	26.54
93K09	951144	10	416171	6043914		PTTrCCb	4		1.0	10.0	500	60.7	22	3.3	120	15	2	3.3	12	0.3	7	100	24	2.5	12.0	1.00	0.5	0.6	2.5	1	1.7	1	22.81
93K09	951145	10	414470	6044315		PTTrCCv	3		0.6	4.3	440	73.2	5	0.5	20	5	1	12.0	3	0.2	1	33	7	0.8	4.3	0.18	0.5	0.5	0.9	1	0.5	1	23.10
93K09	951146	10	409679	6044965		PTTrCCl	2		0.6	3.2	290	68.1	5	0.5	20	5	1	0.8	2	0.2	4	17	5	0.3	2.2	0.17	0.5	0.5	0.3	1	2.9	1	22.16
93K09	951148	10	410003	6045276		PTTrCCl	1		0.3	2.8	280	83.2	7	0.5	27	5	1	1.2	2	0.2	3	16	5	0.4	2.4	0.17	0.5	0.5	0.5	1	1.2	1	22.94
93K09	951149	10	409308	6045540		PTTrCCl	1		0.2	2.3	190	77.0	5	0.5	20	5	1	1.4	2	0.2	2	10	5	0.2	1.8	0.07	0.5	0.5	0.4	1	0.5	1	18.88
93K09	951150	10	409099	6045856		PTTrCCl	1		0.2	2.0	280	86.3	5	0.5	20	5	1	0.9	2	0.2	2	10	5	0.1	0.9	0.07	0.5	0.5	0.3	1	2.0	1	26.02
93K09	951151	10	408982	6047697		PTTrCCu	1		0.9	4.1	190	119.0	5	0.5	34	5	1	1.3	2	0.2	6	26	5	0.4	2.5	0.11	0.5	0.5	0.6	1	1.4	1	20.58
93K09	951152	10	408224	6047879		PTTrCCu	1		0.9	5.2	320	84.5	12	0.9	49	13	1	2.8	5	0.2	7	40	13	1.0	5.7	0.38	0.5	0.5	1.1	1	2.7	1	23.06
93K09	951153	10	408402	6052165		PTTrCCb	1		5.3	64.9	970	2.7	40	3.0	86	22	3	9.3	20	0.5	1	51	53	4.3	19.0	1.60	0.6	0.6	4.3	1	2.0	4	21.16
93K09	951154	10	406510	6053528		PTTrCCb	5		8.4	12.0	1000	58.1	44	4.6	150	27	4	5.5	21	0.5	1	98	72	4.8	25.7	1.50	0.7	0.6	5.7	1	2.8	4	27.36
93K09	951155	10	405209	6054174		PTTrCCb	4		3.5	14.0	1000	52.1	43	4.3	160	24	4	5.3	21	0.5	1	91	67	4.6	24.1	1.40	0.5	0.9	5.3	1	2.8	3	26.63
93K10	951156	10	402570	6054777		PTTrCCb	4		5.4	12.0	980	40.0	43	3.8	150	24	4	5.0	19	0.4	1	94	61	4.4	22.8	1.40	0.7	0.8	4.8	1	2.7	3	23.33
93K10	951157	10	398998	6057197		PTTrCCl	5		3.6	10.0	1300	45.0	49	4.5	150	22	4	5.1	20	0.4	2	99	69	4.5	22.8	1.40	0.7	0.5	5.1	1	2.9	4	28.14
93K10	951158	10	399715	6057458		PTTrCCb	1		2.7	14.0	1100	3.5	37	5.7	100	28	4	6.6	18	0.4	1	74	77	4.3	23.8	1.10	0.5	0.8	5.4	1	2.6	4	22.00
93K10	951159	10	399903	6058517		PTTrCCb	3		0.7	4.0	380	82.3	13	1.1	50	11	1	2.3	6	0.2	3	52	18	1.6	8.4	0.22	0.5	0.5	1.8	1	2.7	1	17.76
93K10	951160	10	400260	6059540		PTTrCCv	2		0.5	3.8	660	29.0	34	2.0	260	19	3	3.4	16	0.3	1	110	30	3.5	16.0	1.00	0.6	0.5	2.9	1	1.1	2	23.18
93K10	951162	10	400641	6060199		PTTrCCv	1		1.2	6.5	490	115.0	19	0.9	160	23	2	4.4	10	0.4	10	110	14	2.1	13.0	0.41	0.5	0.5	1.9	1	1.9	2	23.25
93K10	951163	10	402421	6060500		PTTrCCvs	1		1.2	4.1	180	161.0	8	0.7	93	15	1	2.1	4	0.2	5	200	7	1.0	5.2	0.24	0.5	0.5	1.0	1	0.4	1	23.00
93K10	951164	10	402421	6060500		PTTrCCvs	1		1.1	4.1	200	165.0	14	0.5	90	13	1	1.8	4	0.2	5	190	5	0.8	4.4	0.19	0.5	0.5	0.8	1	0.5	1	17.63
93K10	951165	10	399007	6060384		PTTrCCb	5		1.1	12.0	550	86.3	26	1.3	130	23	1	6.5	13	0.4	4	110	21	2.9	17.0	0.34	0.5	0.5	2.6	1	2.4	3	26.63
93K10	951166	10	398720	6060790		PTTrCCb	1		0.7	16.0	640	75.9	13	1.3	98	14	1	8.5	10	0.2	2	62	20	2.3	11.0	0.30	0.5	0.5	2.1	1	1.4	2	25.37
93K10	951167	10	397090	6064009		PTTrCCb	1		1.1	26.0	1100	34.0	31	2.7	86	44	2	12.0	18	0.6	4	48	40	3.7	22.3	0.91	0.5	0.7	3.5	1	1.4	3	25.95
93K10	951168	10	396278	6063922		PTTrCCb	1		0.6	5.2	450	68.1	23	1.3	65	12	2	2.4	10	0.2	2	38	16	2.1	12.0	0.88	0.5	0.5	2.2	1	1.2	1	22.36
93K10	951169	10	396585	6064478		PTTrCCb	1		1.0	10.0	560	50.0	27	1.9	58	12	1	3.1	13	0.2	4	33	29	2.9	15.0	1.10	0.6	0.5	3.1	1	1.2	1	22.97
93K10	951170	10	396841	6065094		PTTrCCb	1		0.9	5.8	450	27.0	31	2.0	75	16	1	2.3	14	0.4	3	51	35	2.7	17.0	1.10	0.5	0.7	3.0	1	1.2	1	20.17
93K10	951171	10	396370	6065881		PTTrCCb	2		0.4	4.7	160	21.0	8	0.5	37	8	1	0.8	6	0.2	4	22	9	1.1	6.8	0.29	0.5	0.5	1.1	1	0.4	1	17.54
93K10	951172	10	396266	6066478		PTTrCCb	1		0.4	4.6	270	61.1	14	1.3	34	5	1	2.1	5	0.2	2	31	24	1.1	9.2	0.25	0.5	0.5	1.1	1	0.8	1	16.49
93K10	951173	10	394842	6066850		PTTrCCb	1		0.6	41.0	780	22.0	5	1.2	36	30	1	26.5	10	0.3	2	29	5	2.0	10.0	1.00	0.5	0.5	2.1	1	0.7	1	29.57
93K10	951174	10	401806	6059700		PTTrCCu	1		0.3	1.9	120	21.0	6	0.5	330	19	1	1.4	4	0.2	1	490	11	1.0	6.2	0.13	0.5	0.5	0.7	1	0.3	1	14.83
93K16	951175	10	406695	6075585		uTrTt	3		1.1	4.4	790	17.0	30	1.0	98	8	3	2.6	14	0.3	2	34	29	2.9	15.0	2.62	0.8	0.5	2.5	1	1.5	2	35.10
93K16	951176	10	407755	6076837		uTrTt	4		1.9	6.3	430	64.1	28	1.8	70	13	1	2.7	14	0.3	6	37	5	3.1	17.0	0.93	0.5	0.6	2.2	2	1.7	1	20.34
93K16	951177	10	408553	6077351		uTrTt	1		0.7	2.4	280	13.0	16	0.7	39	6	1	0.9	8	0.2	2	26	11	1.7	8.2	0.71	0.5	0.5	1.0	1	0.9	1	18.04

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REF	Form	Au 2 ppb INAA	Au2 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 % INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K16	951178	10	405799	6076941		uTrTt	2		0.8	2.6	160	21.0	11	0.7	35	5	1	1.6	7	0.2	4	24	5	1.8	9.0	0.28	0.5	0.5	1.2	1	1.1	1	16.74
93K16	951179	10	406955	6083782		uTrTt	1		1.4	3.2	240	54.4	22	0.8	39	8	1	2.7	14	0.4	4	10	12	4.0	20.3	0.37	0.5	0.7	2.0	1	2.2	2	25.27
93K16	951182	10	406588	6085298	10	uTrTt	4		1.0	3.5	210	36.0	15	0.6	46	6	1	2.1	10	0.3	6	25	13	2.5	13.0	0.41	0.5	0.5	1.7	1	1.8	1	23.04
93K16	951183	10	406591	6085290	20	uTrTt	1		0.9	4.0	150	43.0	17	1.3	46	10	1	2.0	10	0.2	5	31	21	2.6	14.0	0.37	0.5	0.5	1.2	1	1.7	1	16.48
93K16	951185	10	406014	6085684		uTrTt	1		0.8	3.7	310	16.0	19	1.4	69	11	1	2.0	12	0.4	6	44	26	3.3	16.0	0.49	0.5	0.5	1.6	1	1.5	2	20.31
93K16	951186	10	408209	6084525		uTrTt	1	3	0.6	2.4	340	15.0	18	1.2	65	8	1	1.6	11	0.2	1	10	19	2.6	14.0	0.87	0.5	0.5	1.6	1	1.4	1	20.70
93K16	951187	10	410969	6083090		uTrTt	1		0.8	3.3	140	39.0	10	0.5	27	5	1	2.6	5	0.2	13	15	5	1.2	10.0	0.21	0.5	0.5	0.8	1	1.5	1	21.09
93K16	951188	10	411221	6083968		uTrTt	4		0.6	2.2	180	18.0	13	0.9	43	6	1	1.1	7	0.2	1	28	13	1.8	10.0	0.44	0.5	0.5	1.2	1	1.0	1	16.46
93K16	951189	10	411570	6084341		uTrTt	1		0.7	2.1	120	25.0	5	0.5	27	5	1	0.3	2	0.2	3	13	5	0.6	4.9	0.19	0.5	0.5	0.6	1	0.6	1	18.39
93K16	951190	10	410852	6085279		uTrTt	5		1.1	4.4	450	18.0	27	1.3	110	10	1	1.8	14	0.2	18	27	11	2.5	13.0	1.10	0.5	0.5	1.8	1	3.2	1	16.99
93K16	951191	10	409591	6086329		uTrTt	1		0.9	7.1	160	34.0	12	0.5	44	5	1	1.9	5	0.2	6	31	5	1.3	6.4	0.39	0.5	0.5	1.0	1	1.6	1	17.27
93K16	951192	10	408541	6086351		uTrTt	11	10	1.4	6.7	940	27.0	46	2.4	170	24	2	4.1	23	0.2	1	50	36	4.8	24.5	2.19	0.6	0.8	3.9	1	2.3	3	28.52
93K16	951193	10	408284	6088459		uTrTt	4		1.1	3.7	130	51.5	21	0.5	46	6	1	2.0	11	0.2	6	41	11	2.8	12.0	0.25	0.5	0.5	1.8	1	1.8	1	21.36
93K16	951194	10	410646	6090624		uTrTt	5		0.9	4.9	270	20.0	24	1.3	57	5	1	2.3	13	0.3	7	31	21	3.1	14.0	0.56	0.5	0.5	1.6	1	1.8	1	20.12
93K16	951195	10	413308	6092035		EJd	3		0.6	2.1	120	16.0	11	0.5	23	5	1	0.3	8	0.2	5	10	5	2.4	6.0	0.13	0.5	0.5	0.4	1	1.4	1	9.93
93K16	951196	10	414352	6093001		EJd	4		0.8	2.3	120	21.0	11	0.5	22	5	1	0.9	5	0.2	4	10	5	1.5	7.7	0.17	0.5	0.5	0.9	1	0.8	1	13.56
93K16	951197	10	415595	6092541		uTrTv	3		0.4	1.7	81	16.0	5	0.5	20	5	1	0.2	4	0.2	6	12	5	1.4	5.5	0.09	0.5	0.5	0.3	1	0.7	1	9.80
93K16	951198	10	414185	6091744		EJd	3		0.5	1.5	98	10.0	5	0.5	23	5	1	0.3	4	0.2	5	10	8	1.1	4.4	0.20	0.5	0.5	0.5	1	0.7	1	11.94
93K16	951199	10	414241	6090978		EJd	4		0.5	1.5	50	18.0	9	0.5	23	5	1	0.3	5	0.2	7	10	5	1.3	5.9	0.07	0.5	0.5	0.6	1	0.6	1	8.74
93K16	951200	10	414514	6089813		uTrTt	5		0.6	3.7	220	15.0	20	0.5	37	5	1	1.8	9	0.2	4	29	5	2.4	10.0	0.27	0.5	0.5	1.2	1	2.5	1	20.38
93K16	951202	10	407302	6093239		uTrTt	1		0.7	3.1	200	17.0	15	0.8	21	6	1	1.7	10	0.2	8	10	25	2.6	10.0	0.46	0.5	0.5	1.5	1	1.3	1	17.24
93K16	951203	10	405886	6092882	10	uTrTt	5	4	1.2	11.0	370	22.0	19	1.9	74	11	1	3.3	12	0.2	6	33	34	2.4	14.0	0.93	0.5	0.6	2.3	1	1.9	1	15.40
93K16	951204	10	405886	6092882	20	uTrTt	3		1.4	13.0	440	31.0	22	2.0	75	18	1	3.9	13	0.2	6	42	35	2.9	16.0	1.00	0.5	0.5	2.5	1	2.2	1	20.44
93K16	951205	10	405640	6090748		uTrTt	1		0.5	6.9	230	10.0	5	0.5	20	5	1	3.6	3	0.2	35	10	8	0.7	3.6	0.21	0.5	0.5	0.5	1	4.3	1	25.32
93K16	951206	10	405124	6090660		uTrTt	3		1.0	4.2	160	35.0	20	0.5	39	6	1	1.3	10	0.2	5	33	12	2.1	10.0	0.31	0.5	0.5	1.3	1	1.4	1	19.56
93K15	951207	10	403635	6092971		uTrTt	2		1.1	8.1	240	23.0	16	1.7	54	10	1	2.4	10	0.2	7	22	5	2.0	11.0	0.62	0.5	0.5	1.8	1	1.6	1	17.12
93K15	951208	10	400251	6094866		uTrTt	10	7	1.3	6.7	820	6.1	39	2.0	200	21	2	3.6	18	0.2	1	45	30	3.8	20.4	2.09	0.5	0.7	3.5	1	1.9	1	33.10
93K15	951209	10	399673	6093033		uTrTt	1		0.3	1.6	50	22.0	5	0.5	20	5	1	0.4	2	0.2	5	17	5	1.1	5.4	0.05	0.5	0.5	0.5	1	0.6	1	12.60
93K15	951210	10	403243	6090647		uTrTt	1		1.2	6.0	230	38.0	12	0.5	36	5	1	0.9	6	0.2	15	10	10	1.6	5.8	0.29	0.5	0.5	1.0	1	2.6	1	16.81
93K15	951212	10	402885	6091061		uTrTt	7	5	2.4	5.2	120	93.4	12	0.5	38	12	1	1.5	8	0.2	7	42	5	2.3	11.0	0.28	0.5	0.5	1.2	1	2.4	1	17.44
93K15	951213	10	400709	6087608		uTrTt	1		0.4	1.7	150	13.0	8	0.5	26	5	1	0.8	5	0.2	2	32	5	1.2	6.8	0.26	0.5	0.5	0.8	1	0.6	1	12.39
93K15	951214	10	403118	6085529		uTrTt	2		0.7	3.2	61	28.0	7	0.5	20	5	1	0.4	7	0.2	18	10	5	1.6	6.4	0.11	0.5	0.5	0.6	1	1.3	1	18.71
93K15	951215	10	403472	6081807		uTrTt	5		2.1	13.0	780	64.5	36	2.9	140	17	2	4.9	18	0.5	4	44	34	3.9	23.9	1.70	0.5	0.8	3.4	1	2.0	2	30.50
93K15	951216	10	403472	6081807		uTrTt	8	7	2.7	25.0	1200	64.4	36	2.6	69	22	1	7.3	17	0.2	10	46	30	3.8	21.6	1.10	0.5	0.5	3.2	1	2.0	1	26.91
93K15	951217	10	400404	6082117		uTrTt	6	6	2.4	11.0	660	48.0	44	3.0	130	16	2	4.4	20	0.2	5	10	38	3.9	22.0	1.50	0.5	0.7	3.5	1	2.0	2	29.55
93K15	951218	10	399606	6082474		uTrTt	3		1.1	13.0	220	18.0	14	1.3	39	7	1	1.8	8	0.2	7	29	18	1.7	10.0	0.44	0.5	0.5	1.2	1	1.2	1	19.25
93K16	951219	10	403876	6072939		muTrTs	1		1.3	5.9	280	73.4	6	0.7	50	5	1	2.9	5	0.2	5	31	5	1.0	6.6	0.30	0.5	0.5	1.1	1	2.1	1	19.91
93K16	951220	10	405319	6071912		uTrTt	1		1.4	7.0	260	53.2	15	1.4	48	7	1	2.4	6	0.2	8	26	12	1.5	8.8	0.43	0.5	0.5	1.3	1	2.1	1	19.32
93K16	951222	10	405962	6071516		uTrTt	5		1.8	8.8	340	60.3	19	1.0	59	5	1	2.3	7	0.2	11	42	17	1.9	8.9	0.40	0.5	0.5	2.1	1	2.2	1	17.09
93K16	951224	10	406427	6069844		muTrTs	7	6	4.3	11.0	660	67.2	31	2.5	140	18	2	4.0	17	0.2	6	42	35	3.7	23.7	1.10	0.5	0.7	3.4	1	2.6	2	26.84

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb	Au2 2 ppb	Sb 0.1 ppm	As 0.5 ppm	Ba 50 ppm	Br 0.5 ppm	Ce 3 ppm	Cs 1 ppm	Cr 5 ppm	Co 1 ppm	Hf 1 ppm	Fe 0.01 %	La 0.5 ppm	Lu 0.05 ppm	Mo 1 ppm	Ni 20 ppm	Rb 5 ppm	Sm 0.1 ppm	Sc 0.1 ppm	Na 0.01 %	Ta 0.5 ppm	Tb 0.5 ppm	Th 0.2 ppm	W 1 ppm	U 0.5 ppm	Yb 0.2 ppm	Wt 0.01 g
93K16	951225	10	407145	6069809		muTrTs	5		4.1	12.0	600	78.5	36	2.0	120	21	2	4.2	16	0.3	6	32	22	3.4	23.8	0.95	0.5	0.6	2.9	1	2.2	1	22.72
93K16	951226	10	407799	6071164	10	uTrTt	3	1	1.0	6.7	360	52.9	16	0.6	51	8	1	4.2	7	0.2	3	32	5	1.7	12.0	0.39	0.5	0.5	1.4	1	0.9	1	20.31
93K16	951227	10	407803	6071175	20	uTrTt	1		1.1	7.4	340	64.4	17	1.4	48	10	1	5.2	8	0.2	3	16	22	1.7	12.0	0.42	0.5	0.5	1.7	1	1.1	1	21.77
93K16	951228	10	410019	6071286		uTrTt	1		0.7	8.3	410	54.1	23	0.9	58	9	1	2.2	12	0.2	7	27	17	2.3	14.0	0.57	0.5	0.5	1.8	1	1.1	1	19.35
93K16	951229	10	409401	6072171		uTrTt	6	1	1.9	8.7	220	77.1	14	0.5	20	15	1	5.7	7	0.2	12	23	5	1.7	14.0	0.20	0.5	0.5	0.9	1	1.1	1	23.54
93K16	951230	10	409600	6072518		uTrTt	5		1.4	5.7	210	38.0	14	1.0	51	13	1	3.0	8	0.2	7	43	14	1.7	11.0	0.44	0.5	0.5	1.4	1	1.3	1	18.37
93K16	951231	10	411645	6072371		uTrTt	4		0.9	4.0	190	24.0	14	1.0	40	6	1	1.4	6	0.2	6	22	13	1.5	9.3	0.32	0.5	0.5	1.3	2	0.9	1	16.31
93K16	951232	10	412527	6072664		uTrTt	5		1.3	5.2	460	30.0	24	2.0	94	13	1	2.7	12	0.2	4	48	42	3.1	14.0	0.91	0.5	0.6	2.8	1	1.5	1	23.11
93K16	951233	10	412317	6070587		uTrTt	10	8	1.7	8.7	310	53.7	17	1.4	77	13	1	2.3	8	0.2	3	28	17	2.1	14.0	0.48	0.5	0.5	2.0	1	1.4	1	21.28
93K16	951234	10	413060	6070026		uTrTt	10	8	2.3	12.0	390	56.1	22	2.1	71	16	2	2.7	13	0.3	2	62	26	3.1	19.0	0.52	0.5	0.5	2.9	1	1.6	2	20.01
93K16	951235	10	411663	6069820		uTrTt	7	9	1.9	12.0	330	29.0	20	2.2	60	15	1	2.9	14	0.2	3	39	25	2.9	15.0	0.48	0.5	0.5	2.6	2	2.1	1	17.85
93K09	951236	10	418500	6043999		PTCCu	5		0.7	4.3	580	17.0	32	2.8	160	22	1	3.3	17	0.2	1	160	38	3.2	16.0	1.00	0.6	0.6	3.2	1	1.7	1	22.58
93K09	951237	10	416501	6045737		PTCCu	1		0.8	5.9	750	10.0	25	3.6	92	18	1	3.2	14	0.2	1	77	60	2.7	17.0	0.80	0.6	0.6	3.5	1	1.9	2	18.55
93K09	951238	10	420762	6047347		PTCCu	1		0.7	4.6	490	12.0	27	3.3	130	15	1	3.0	12	0.2	1	140	34	2.5	17.0	0.74	0.5	0.5	3.0	1	2.1	2	21.21
93K09	951239	10	418923	6048161		PTCCVs	4		2.0	17.0	1000	15.0	39	2.1	370	27	2	4.5	18	0.3	1	110	58	4.0	19.0	2.03	0.5	0.8	4.0	1	2.1	2	34.36
93K09	951240	10	415632	6051133		PTCCVs	1		2.7	11.0	1000	7.0	45	4.4	170	25	3	5.6	20	0.3	1	67	68	4.5	24.4	1.40	0.5	0.5	5.1	1	2.4	2	27.03
93K09	951241	10	413314	6050963		PTCCVs	1		3.9	5.4	1100	8.2	35	1.6	240	13	2	2.9	14	0.2	1	52	42	3.3	14.0	2.28	0.5	0.7	2.9	1	1.6	2	41.29
93K09	951243	10	410161	6052966		PTCCu	1		0.7	2.0	170	26.0	5	0.5	20	5	1	0.3	2	0.2	4	10	5	0.3	1.0	0.07	0.5	0.5	0.3	1	0.2	1	27.10
93K09	951244	10	411319	6054595	10	TrJd	1		1.9	5.0	170	75.4	6	1.7	69	8	1	1.6	4	0.2	7	48	10	0.9	6.2	0.20	0.5	0.5	0.9	1	1.3	1	19.16
93K09	951245	10	411319	6054595	20	TrJd	3		1.7	4.6	180	75.5	11	1.8	60	8	1	1.7	5	0.2	6	80	5	1.0	6.7	0.22	0.5	0.5	0.9	1	1.2	1	21.57
93K09	951246	10	414358	6056275		muTrTs	1	1	0.7	3.4	650	7.0	35	2.9	88	12	2	2.8	15	0.3	1	35	41	2.9	17.0	1.40	0.6	0.5	3.5	1	2.1	2	24.26
93K09	951247	10	415499	6056223		muTrTs	1		0.4	2.7	250	15.0	16	0.8	41	5	1	1.2	7	0.2	1	17	5	1.4	7.2	0.60	0.5	0.5	1.5	1	2.2	1	15.94
93K09	951248	10	413068	6057855		muTrTs	4		1.0	22.0	760	15.0	41	2.7	140	19	2	4.0	17	0.3	2	47	46	3.8	20.0	1.60	0.6	0.5	3.9	1	1.8	2	25.76
93K09	951249	10	412431	6056273		muTrTs	4		1.0	4.1	240	35.0	13	0.6	37	6	1	1.7	3	0.2	11	56	17	0.9	4.7	0.27	0.5	0.5	0.8	1	0.9	1	19.22
93K09	951250	10	408981	6057654		PTCCVs	1		0.9	2.0	580	14.0	5	0.5	41	5	1	0.4	2	0.2	16	150	5	0.2	1.0	0.08	0.5	0.5	0.3	1	2.1	1	22.50
93K09	951251	10	406288	6058784		PTCCVs	1		1.3	5.3	560	48.0	33	2.2	350	35	1	4.7	15	0.2	4	420	41	3.2	19.0	0.70	0.7	0.5	2.8	1	1.2	2	22.36
93K09	951252	10	403871	6061503		PTCCVs	1		1.0	5.4	410	71.0	24	1.5	120	14	1	4.5	11	0.3	3	71	17	2.6	15.0	0.53	0.5	0.5	2.4	1	1.8	2	24.69
93K10	951253	10	403278	6060171		PTCCVs	1		0.5	1.7	140	28.0	13	0.5	51	6	1	1.1	4	0.2	2	200	5	1.0	3.7	0.12	0.5	0.5	0.7	1	1.1	1	15.04
93K10	951255	10	400486	6064204		PTCCVs	1		1.1	22.0	890	2.7	43	2.9	100	23	2	4.6	19	0.4	1	47	43	4.6	19.0	1.90	0.5	0.7	4.6	1	2.1	2	26.68
93K10	951256	10	398129	6067372		PTCCVs	5		1.4	13.0	730	38.0	37	2.1	100	17	2	3.7	17	0.2	2	53	48	4.1	20.0	1.20	0.5	0.5	4.2	1	2.7	2	24.07
93K15	951257	10	397713	6068533		PTCCVs	8	4	1.4	14.0	830	28.0	38	3.5	130	22	2	5.0	19	0.2	1	54	46	4.4	22.4	1.50	0.5	0.7	4.4	1	2.8	2	22.95
93K15	951258	10	399185	6070132		muTrTs	1		0.5	8.8	320	65.9	10	1.4	43	8	1	1.5	5	0.2	1	40	16	1.2	10.0	0.33	0.5	0.5	1.6	1	0.7	1	22.33
93K15	951259	10	395230	6073068		muTrTs	4		1.0	11.0	440	47.0	26	1.7	91	19	1	4.5	12	0.2	3	44	34	2.5	15.0	0.66	0.5	0.5	2.4	1	1.5	1	24.88
93K15	951260	10	392141	6075584		muTrTs	4		1.1	5.0	200	76.3	18	1.3	51	9	1	2.6	8	0.2	3	27	5	1.8	13.0	0.28	0.5	0.5	1.4	1	1.7	1	25.16
93K15	951262	10	391851	6079559		muTrTs	5		3.0	6.5	490	47.0	17	1.4	73	5	1	3.6	9	0.2	18	49	31	1.8	11.0	0.42	0.5	0.5	1.7	1	2.0	1	21.69
93K15	951263	10	389429	6080022		muTrTs	2		0.5	4.6	360	14.0	7	0.5	22	5	1	0.9	2	0.2	3	30	7	0.5	2.2	0.09	0.5	0.5	0.4	1	1.0	1	18.03
93K15	951264	10	385404	6081684	10	PTCCl	1	1	0.4	2.7	820	62.9	5	0.5	25	5	1	3.4	2	0.2	3	23	10	0.3	1.1	0.03	0.5	0.5	0.2	1	0.4	1	10.78
93K15	951265	10	385411	6081691	20	PTCCl	1		0.4	2.8	560	61.1	5	0.5	20	5	1	2.0	2	0.2	4	10	5	0.3	1.2	0.06	0.5	0.5	0.2	1	0.4	1	11.50
93K15	951266	10	385089	6084460		muTrTs	3		0.8	3.7	1000	12.9	33	2.1	110	9	2	2.3	17	0.2	1	26	37	3.4	14.0	1.60	0.5	0.6	3.1	1	2.0	2	25.99
93K15	951268	10	382816	6086529		muTrTs	3		3.4	6.5	130	82.8	7	0.6	20	7	1	1.3	3	0.2	8	10	5	0.6	3.6	0.16	0.5	0.5	0.6	1	1.5	1	18.76

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.5	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	g
93K15	951269	10	382930	6086982		muTrTs	1		1.8	8.1	800	58.8	5	0.5	22	5	1	6.3	4	0.2	6	10	5	0.9	3.7	0.18	0.5	0.5	0.8	1	1.3	1	21.41
93K15	951270	10	382450	6087168		muTrTs	1		1.6	8.1	280	35.0	19	0.6	43	7	1	2.0	7	0.2	15	34	5	1.2	5.9	0.42	0.5	0.5	1.3	1	5.3	1	18.65
93K15	951271	10	381495	6087890		muTrTs	2		0.5	3.9	490	23.0	31	1.2	61	13	1	2.2	12	0.2	1	42	36	2.5	13.0	1.10	0.5	0.5	2.7	1	1.4	2	23.62
93K15	951272	10	389098	6084309		muTrTs	1		0.8	3.3	490	20.0	20	1.5	57	5	1	1.5	9	0.2	7	24	16	2.1	9.2	0.52	0.5	0.5	1.7	1	1.7	1	15.79
93K15	951273	10	395058	6085069		uTrTt	1		1.9	14.0	770	29.0	27	2.3	110	19	2	7.3	17	0.3	1	61	29	4.3	20.1	1.00	0.5	0.6	3.6	1	1.8	2	20.90
93K15	951274	10	396111	6082934		uTrTt	12	15	2.4	21.0	170	61.7	22	1.1	26	7	1	2.2	10	0.2	8	45	5	2.2	8.3	0.11	0.5	0.5	1.9	1	2.9	1	17.79
93K15	951275	10	397608	6084198		uTrTt	4		1.9	10.0	180	69.5	12	0.8	34	7	1	2.0	6	0.2	9	28	5	1.4	9.0	0.28	0.5	0.5	1.4	1	1.5	1	19.97
93K15	951276	10	398448	6084449		uTrTt	7	4	1.8	10.0	640	34.0	36	3.1	120	20	2	5.3	16	0.3	4	28	33	3.5	20.7	1.40	0.5	0.5	3.1	1	1.3	1	24.41
93K15	951277	10	398537	6083749		uTrTt	4		2.5	12.0	640	35.0	34	3.5	120	23	2	5.2	17	0.3	4	50	38	3.9	23.7	1.10	0.5	0.6	3.1	1	1.5	1	26.00
93K16	951278	10	403937	6083036		uTrTt	3		1.4	4.3	830	16.0	36	3.6	180	19	3	3.8	21	0.2	1	52	47	4.8	26.7	1.70	0.5	0.6	3.5	1	3.1	3	28.80
93K15	951279	10	397911	6087640		uTrTt	2		0.6	4.5	400	16.0	19	1.5	68	7	1	1.6	11	0.2	2	29	13	2.1	11.0	0.81	0.5	0.5	2.0	1	1.1	1	17.21
93K15	951280	10	393857	6090337		uTrTt	4		1.2	7.9	510	36.0	10	1.8	72	15	1	2.9	10	0.2	1	54	25	2.3	15.0	0.70	0.5	0.5	2.2	1	1.5	1	16.45
93K15	951282	10	391951	6089594		uTrTt	3		1.0	5.2	120	38.0	8	0.5	53	6	1	1.2	6	0.2	6	29	5	1.9	11.0	0.15	0.5	0.5	0.9	1	1.4	1	14.11
93K15	951283	10	390236	6088174	10	uTrTt	1		0.7	4.6	230	35.0	7	0.9	27	5	1	0.9	4	0.2	5	17	8	0.9	6.0	0.28	0.5	0.5	0.9	1	0.9	1	17.63
93K15	951284	10	390232	6088175	20	uTrTt	3		0.9	4.6	280	34.0	6	1.0	35	10	1	1.4	5	0.2	5	29	15	1.2	7.0	0.39	0.5	0.5	0.8	1	1.4	1	21.42
93K15	951285	10	389228	6089256		uTrTt	5		1.3	6.9	290	70.0	18	0.9	51	11	1	2.3	7	0.2	4	42	20	1.4	10.0	0.41	0.5	0.5	1.3	1	1.0	1	23.43
93K15	951286	10	390045	6089996		uTrTt	6	4	1.3	6.0	420	40.0	21	1.6	100	15	1	2.6	14	0.2	1	58	22	3.0	20.0	0.81	0.5	0.5	2.5	1	1.8	1	25.82
93K15	951287	10	389633	6091868		uTrTt	8	7	1.9	11.0	530	51.2	31	1.6	120	14	2	4.8	18	0.2	3	66	29	3.8	18.0	1.20	0.5	0.6	3.2	1	2.3	2	25.38
93K15	951288	10	392395	6095327		uTrTt	1	1	1.4	9.5	790	7.5	42	2.3	140	19	2	3.9	19	0.2	1	55	22	3.6	18.0	1.40	0.5	0.5	3.8	1	2.8	2	22.03
93K15	951290	10	393565	6095804		uTrTt	4		0.9	17.0	350	29.0	19	1.9	72	10	1	2.8	13	0.2	31	48	12	2.9	15.0	0.35	0.5	0.5	2.6	1	3.3	1	16.02
93K15	951291	10	389650	6094053		uTrTt	2		0.9	5.8	370	2.5	18	0.9	47	5	1	1.4	7	0.2	4	29	14	1.5	5.9	0.63	0.5	0.5	1.7	1	1.8	1	23.53
93K15	951292	10	387914	6094350		uTrTt	4		1.6	8.7	350	17.0	22	0.6	87	5	1	1.5	8	0.2	9	29	13	1.9	7.7	0.81	0.5	0.5	1.8	1	2.6	1	23.85
93K15	951293	10	387136	6093417		uTrTt	1		0.9	7.8	240	8.1	7	0.5	33	5	1	0.7	3	0.2	7	10	5	0.7	3.1	0.29	0.5	0.5	0.7	1	1.8	1	22.88
93K15	951294	10	383671	6093217		uTrTt	1		0.5	5.3	150	43.0	8	0.5	20	5	1	0.2	3	0.2	9	29	5	0.5	2.5	0.13	0.5	0.5	0.6	1	1.2	1	18.20
93K15	951295	10	382865	6095648		uTrTt	1		3.0	22.0	850	25.0	28	3.3	110	26	1	8.3	21	0.2	1	57	37	5.1	21.9	1.00	0.5	0.8	4.7	1	3.0	1	22.88
93K15	951296	10	373017	6095504		PTrCCl	5		1.5	5.6	900	43.0	48	2.7	160	20	3	4.1	23	0.3	1	57	46	4.9	18.0	1.80	0.7	0.7	5.1	1	2.7	2	26.96
93K15	951297	10	374878	6094515		PTrCCl	1		1.7	35.0	1900	19.0	48	3.3	160	22	2	6.3	23	0.3	1	65	59	4.9	21.2	1.80	0.7	0.8	5.1	4	3.0	2	27.87
93K15	951298	10	375932	6092734		PTrCCl	1		0.9	9.3	350	58.8	22	0.9	62	7	1	1.9	10	0.2	10	21	22	1.7	8.9	0.59	0.5	0.5	1.8	1	3.8	1	18.55
93K15	951299	10	375544	6089507		PTrCCl	1		0.5	4.3	250	46.0	6	0.5	20	5	1	2.2	2	0.2	10	12	7	0.6	2.7	0.23	0.5	0.5	0.6	1	3.9	1	15.19
93K15	951300	10	376658	6089071		PTrCCl	4		0.6	3.8	240	63.3	12	0.6	21	5	1	1.4	5	0.2	8	22	5	0.8	4.2	0.36	0.5	0.5	0.9	2	7.1	1	17.79
93K15	951302	10	374786	6088911	10	PTrCCl	1		0.4	3.7	280	53.4	5	0.5	20	5	1	0.9	2	0.2	2	10	6	0.4	2.1	0.05	0.5	0.5	0.4	1	2.0	1	20.07
93K15	951303	10	374786	6088911	20	PTrCCl	1		0.6	4.4	370	66.5	7	0.5	20	5	1	1.0	3	0.2	1	10	5	0.6	3.7	0.10	0.5	0.5	0.9	1	2.8	1	26.48
93K15	951304	10	374737	6089488		PTrCCl	1		0.5	2.6	240	68.0	8	0.8	30	7	1	1.3	6	0.2	1	17	11	1.0	5.5	0.23	0.5	0.5	1.2	1	2.4	1	17.90
93K15	951306	10	374313	6089556		PTrCCl	1	1	0.3	2.1	260	28.0	5	0.5	20	5	1	1.0	2	0.2	3	10	6	0.4	1.4	0.06	0.5	0.5	0.5	1	3.7	1	22.50
93K15	951307	10	372944	6089033		PTrCCl	1		0.5	3.8	860	17.0	29	1.6	71	14	1	2.8	14	0.2	1	24	25	3.2	13.0	1.10	0.5	0.5	3.4	1	3.0	1	20.73
93K15	951308	10	373874	6088126		PTrCCs	1		0.6	3.6	720	18.0	30	1.8	76	8	1	1.7	14	0.2	1	37	21	3.0	12.0	0.76	0.5	0.5	2.6	1	4.7	1	23.56
93K15	951309	10	373623	6087297		PTrCCs	1		0.8	6.2	1000	18.0	43	3.5	95	15	2	3.5	23	0.4	2	68	59	5.2	21.7	0.78	0.6	0.9	5.0	1	4.0	3	22.73
93K15	951310	10	375902	6087045		PTrCCs	1		0.3	1.4	330	30.0	5	0.5	20	5	1	3.4	2	0.2	2	10	5	0.1	0.9	0.02	0.5	0.5	0.2	1	3.7	1	28.20
93K15	951311	10	376876	6084477		PTrCCs	9	5	0.7	7.2	850	17.0	52	1.6	89	11	1	2.8	25	0.2	1	57	20	5.8	22.0	0.30	0.5	0.9	4.2	1	10.0	3	23.61
93K15	951312	10	379779	6085733		PTrCCl	1		0.7	4.1	510	40.0	5	1.4	20	5	1	11.0	6	0.2	1	19	5	1.0	4.3	0.15	0.5	0.5	1.3	1	5.1	1	27.18

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.3	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb INAA	ppb INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA	ppm INAA
93K15	951313	10	394278	6081890		uTrTt	3		0.7	5.6	470	22.0	19	2.0	77	8	2	2.5	11	0.2	1	39	36	2.0	12.0	1.00	0.5	0.5	2.0	1	1.1	1	21.87
93K15	951314	10	396130	6080322		uTrTt	4		1.4	8.9	350	40.0	23	1.3	66	13	1	2.7	11	0.3	4	31	32	2.2	14.0	0.60	0.5	0.5	1.8	1	1.6	1	22.03
93K15	951315	10	395434	6078190		muTrTs	1		1.0	6.5	520	18.0	26	1.9	85	10	1	2.7	12	0.2	2	37	26	2.7	14.0	1.00	0.5	0.5	2.9	1	2.0	2	20.15
93K15	951316	10	396895	6078570		muTrTs	1		3.5	13.0	330	69.7	12	1.5	54	11	1	2.7	6	0.2	14	52	14	1.6	9.2	0.32	0.5	0.5	1.6	1	5.0	1	23.59
93K15	951317	10	398907	6078151		uTrTt	6	1	3.2	14.0	330	89.4	14	0.9	68	10	1	4.5	7	0.2	8	61	17	1.7	11.0	0.24	0.5	0.5	1.9	1	6.2	1	25.04
93K15	951318	10	400468	6076481		uTrTt	1		0.6	5.4	800	19.0	20	1.9	100	9	2	2.4	12	0.3	1	21	42	2.4	13.0	1.50	0.5	0.6	2.5	1	1.3	1	22.01
93K15	951319	10	399161	6075391		muTrTs	1		1.4	8.1	380	45.0	25	1.7	78	20	1	3.2	11	0.2	6	53	27	2.3	13.0	0.63	0.5	0.5	2.3	1	3.7	2	22.72
93K09	951320	10	405068	6067156		muTrTs	6	3	1.8	11.0	1000	3.2	50	6.3	140	29	3	6.4	23	0.6	1	53	68	4.9	27.6	1.50	0.6	0.7	5.8	1	2.7	3	25.55
93K09	951322	10	410315	6066939		muTrTs	8	6	3.8	14.0	360	62.4	46	2.0	64	14	1	2.7	32	0.2	48	58	32	4.5	15.0	0.50	0.5	0.5	4.6	1	7.4	1	20.21
93K09	951323	10	412405	6064103	10	muTrTs	1		2.2	7.1	150	62.0	18	0.8	35	7	1	2.1	6	0.2	5	31	5	1.5	8.2	0.19	0.5	0.5	1.3	1	3.4	1	19.89
93K09	951324	10	412405	6064103	20	muTrTs	1		3.1	10.0	210	70.1	13	1.0	35	7	1	2.5	8	0.2	4	24	12	1.7	10.0	0.23	0.5	0.5	1.6	1	5.5	1	22.49
93K10	951325	10	395102	6056781		PTTrCCs	1	1	0.9	7.8	850	6.2	35	4.6	79	20	3	4.9	17	0.4	1	31	65	3.5	23.0	1.30	0.5	0.7	4.4	1	2.3	2	22.42
93K10	951326	10	393580	6063977		PTTrCCs	1		0.5	6.6	150	121.0	5	0.5	20	5	1	2.0	2	0.2	4	19	5	0.3	2.4	0.11	0.5	0.5	0.4	1	2.7	1	22.91
93K10	951327	10	394287	6064897		PTTrCCs	1		0.6	6.0	110	51.8	5	0.5	20	7	1	1.0	2	0.2	7	11	5	0.4	1.7	0.13	0.5	0.5	0.5	1	2.2	1	9.88
93K10	951328	10	391795	6064971		PTTrCCs	1		0.7	11.0	490	48.0	21	1.3	63	10	1	2.0	9	0.2	6	29	22	2.1	13.0	0.59	0.5	0.5	2.0	1	2.6	1	24.92
93K10	951329	10	391626	6064264		PTTrCCs	1		0.7	8.9	470	40.0	24	2.0	56	10	1	2.8	10	0.3	6	33	23	2.0	13.0	0.50	0.5	0.5	2.4	1	1.9	1	19.48
93K10	951330	10	390338	6064459		PTTrCCs	1		0.9	16.0	690	53.4	36	2.7	65	41	2	5.8	15	0.3	5	61	31	3.2	16.0	0.63	0.5	0.5	2.6	1	1.5	1	24.44
93K10	951331	10	389399	6064769		PTTrCCs	5		1.2	7.5	740	22.0	39	4.0	110	20	2	3.8	18	0.3	2	34	56	3.8	22.2	1.10	0.5	0.7	4.2	1	1.8	2	23.50
93K10	951333	10	389910	6065671		PTTrCCs	1		0.5	4.5	340	33.0	17	1.2	55	11	1	1.4	8	0.2	4	38	21	1.6	10.0	0.46	0.5	0.5	2.0	1	0.8	1	19.20
93K10	951334	10	388107	6065681		PTTrCCs	1		0.8	4.9	680	11.0	27	2.1	120	13	2	2.4	14	0.3	3	44	36	2.8	17.0	1.70	0.5	0.5	3.4	1	1.6	1	23.91
93K10	951335	10	390030	6066333		PTTrCCs	1		0.2	36.0	540	29.0	7	0.9	24	5	1	1.6	3	0.2	16	10	5	0.7	4.0	0.34	0.5	0.5	0.7	1	1.1	1	17.81
93K10	951336	10	390617	6066306		PTTrCCs	1		0.2	50.5	530	35.0	5	0.5	20	5	1	1.9	2	0.2	26	10	5	0.6	2.5	0.26	0.5	0.5	0.6	1	1.4	1	17.01
93K10	951337	10	391716	6066236		PTTrCCs	1		0.1	48.0	420	37.0	5	0.5	20	5	1	1.5	2	0.2	38	10	5	0.3	1.1	0.09	0.5	0.5	0.3	1	1.6	1	13.56
93K10	951338	10	391814	6066875		PTTrCCs	1		0.1	2.7	220	66.0	5	0.5	30	5	1	2.0	3	0.2	5	10	5	0.7	4.5	0.38	0.5	0.5	0.8	1	0.7	1	19.89
93K10	951339	10	390749	6066575		PTTrCCs	1		0.2	25.0	300	61.1	7	0.5	22	5	1	2.1	5	0.2	22	14	10	0.9	5.6	0.56	0.5	0.5	1.2	1	2.6	1	19.42
93K10	951340	10	390074	6066778		PTTrCCs	1		0.2	35.0	360	39.0	5	0.6	20	5	1	1.4	2	0.2	25	10	8	0.5	3.4	0.25	0.5	0.5	0.8	1	1.6	1	15.28
93K10	951342	10	388662	6066768		PTTrCCs	1		0.1	143.0	880	38.0	5	0.9	28	6	1	5.4	3	0.2	19	10	15	0.9	4.5	0.29	0.5	0.5	0.9	1	0.8	1	20.52
93K10	951343	10	388677	6066796		PTTrCCs	1	1	0.3	316.0	2400	21.0	5	1.8	38	9	2	12.0	9	0.3	1	28	28	2.2	11.0	1.30	0.5	0.5	2.1	1	1.1	2	25.58
93K10	951344	10	388687	6067205		PTTrCCs	1		0.6	5.7	450	40.0	18	2.0	38	7	1	1.7	7	0.2	2	40	33	1.6	12.0	0.44	0.5	0.5	2.1	1	1.0	2	13.90
93K10	951345	10	386433	6066608		PTTrCCs	5		0.8	6.8	400	29.0	19	1.9	45	15	1	2.2	9	0.3	3	41	33	2.2	13.0	0.49	0.5	0.5	2.2	1	1.0	2	14.11
93K10	951346	10	385908	6067820		PTTrCCs	1		0.3	37.0	510	50.2	10	1.2	25	5	1	2.3	4	0.2	17	10	15	0.9	6.8	0.36	0.5	0.5	1.1	1	1.7	2	21.26
93K10	951347	10	386108	6068088	10	PTTrCCs	1		0.5	17.0	620	39.0	20	2.2	58	9	1	2.0	8	0.2	10	40	31	1.7	12.0	0.74	0.5	0.5	2.4	1	2.8	1	23.99
93K10	951348	10	386110	6068094	20	PTTrCCs	1		0.6	22.0	760	44.0	17	2.1	47	12	2	2.1	8	0.2	12	23	45	1.9	12.0	0.75	0.5	0.5	2.5	1	3.7	2	27.37
93K10	951349	10	387199	6067796		PTTrCCs	1		0.4	66.5	990	48.0	6	0.5	29	6	1	2.2	2	0.2	32	10	6	0.6	3.4	0.23	0.5	0.5	0.6	1	2.2	1	22.71
93K10	951350	10	387674	6067950		PTTrCCs	1		0.2	88.6	670	43.0	5	0.6	20	5	1	3.4	3	0.2	23	13	5	0.6	3.7	0.27	0.5	0.5	0.6	1	1.2	1	17.97
93K10	951351	10	389725	6067822		PTTrCCs	1		1.0	8.1	380	28.0	19	2.0	67	15	1	2.0	8	0.2	5	38	36	1.7	12.0	0.63	0.5	0.5	2.1	1	4.7	1	20.03
93K10	951352	10	392854	6067825		PTTrCCs	1		0.8	48.0	1100	41.0	25	2.1	53	26	2	10.0	12	0.4	2	42	37	3.0	16.0	0.54	0.5	0.6	2.8	1	1.2	2	24.41
93K15	951353	10	394489	6069223		PTTrCCb	1		1.0	10.0	540	56.4	36	1.8	96	14	2	3.0	14	0.3	3	58	30	3.2	17.0	0.88	0.5	0.6	2.9	1	3.1	3	25.27
93K15	951354	10	392373	6068493		PTTrCCs	1		0.7	6.3	470	53.1	14	1.8	29	9	1	3.2	8	0.2	3	52	20	2.1	13.0	0.22	0.5	0.5	1.9	1	1.3	2	19.68
93K15	951355	10	391532	6068893		PTTrCCs	1		1.1	6.9	610	53.6	36	3.0	93	16	3	3.6	17	0.6	1	60	42	4.2	23.1	0.50	0.5	0.7	3.8	1	1.9	3	23.97

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb INAA	Au2 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 % INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K15	951356	10	390884	6068869		PTTrCCs	1		0.5	2.7	110	93.2	5	0.5	21	5	1	0.8	2	0.2	4	10	5	0.3	2.2	0.10	0.5	0.5	0.5	1	2.5	1	21.51
93K15	951357	10	389467	6068706		PTTrCCs	1		0.3	1.9	250	57.1	5	0.6	20	5	1	1.3	2	0.2	6	18	5	0.4	2.6	0.10	0.5	0.5	0.5	1	4.7	1	17.58
93K15	951359	10	388425	6068998		PTTrCCs	1		0.4	156.0	1100	92.4	5	0.8	21	7	1	7.8	4	0.3	10	29	5	1.1	6.1	0.21	0.5	0.5	1.0	1	0.6	1	21.02
93K15	951360	10	388091	6069478		PTTrCCs	1		0.5	72.0	800	77.1	5	1.4	20	6	1	18.0	4	0.2	1	10	10	1.0	6.0	0.30	0.5	0.5	1.2	1	0.6	1	27.59
93K15	951362	10	385053	6069081		PTTrCCs	4		0.9	14.0	930	20.0	42	3.1	91	22	3	4.6	19	0.5	2	46	48	3.9	22.0	1.50	0.5	0.9	4.3	1	2.3	3	25.01
93K15	951363	10	385747	6072170	10	PTTrCCs	1		0.8	2.8	240	63.5	5	0.6	20	5	1	1.0	3	0.2	5	10	12	0.5	4.1	0.18	0.5	0.5	0.8	1	2.5	1	19.77
93K15	951364	10	385764	6072190	20	PTTrCCs	1		0.7	3.0	220	54.9	5	0.5	20	5	1	0.9	2	0.2	5	10	7	0.5	3.9	0.18	0.5	0.5	0.6	1	2.2	1	16.49
93K15	951365	10	388727	6073446		PTTrCCs	1		0.7	5.3	380	57.2	24	2.7	84	15	1	3.4	11	0.4	1	36	40	2.4	18.0	0.58	0.5	0.5	2.7	1	2.0	2	23.81
93K15	951367	10	390114	6075525		PTTrCCs	1		0.5	7.0	170	77.6	9	0.7	20	10	1	1.7	3	0.2	2	31	7	0.7	5.8	0.21	0.5	0.5	0.9	1	2.8	1	19.83
93K15	951368	10	388642	6075978		PTTrCCl	3		0.4	3.8	150	51.2	6	0.5	34	5	1	0.6	2	0.2	2	20	8	0.6	4.0	0.13	0.5	0.5	0.7	1	1.2	1	18.14
93K15	951369	10	384032	6078350		PTTrCCl	1		0.9	8.6	680	27.0	38	2.8	81	15	2	3.5	15	0.3	2	44	51	3.1	16.0	1.00	0.5	0.6	3.3	1	2.3	3	24.87
93K15	951370	10	382173	6077327	1	PTTrCCs	1	1	0.8	12.0	930	22.0	19	1.9	62	13	1	6.7	13	0.2	1	38	42	2.9	15.0	0.68	0.5	0.5	2.9	1	1.4	2	19.12
93K15	951371	10	381586	6077400		PTTrCCs	1		1.0	30.0	510	42.0	15	2.3	61	15	1	5.9	11	0.4	7	61	32	2.4	17.0	0.42	0.5	0.5	2.6	1	1.2	3	22.83
93K15	951372	10	381105	6077261		PTTrCCs	4		0.4	30.0	460	44.0	19	1.1	48	12	1	2.9	8	0.4	4	23	23	1.9	11.0	0.70	0.5	0.5	1.8	1	0.9	2	19.19
93K15	951373	10	380955	6077929		PTTrCCs	4		0.6	27.0	470	48.0	21	1.5	60	16	2	2.9	10	0.3	5	33	25	2.1	13.0	0.81	0.5	0.5	2.1	1	1.1	2	22.28
93K15	951374	10	379827	6079177		PTTrCCl	4		0.6	6.7	410	33.0	18	1.9	70	12	2	2.7	10	0.3	1	37	29	2.0	14.0	0.75	0.5	0.5	2.5	1	1.0	2	19.36
93K15	951375	10	379122	6080163		PTTrCCl	1		0.9	18.0	520	69.5	18	1.6	57	33	1	6.6	12	0.3	4	40	25	2.5	12.0	0.42	0.5	0.6	2.4	1	1.3	2	22.17
93K15	951376	10	378406	6079733		PTTrCCl	1		1.2	26.0	970	37.0	40	2.2	100	25	2	7.5	19	0.6	5	50	43	3.9	19.0	1.10	0.5	0.6	3.8	1	1.5	2	25.67
93K15	951377	10	377638	6079535		PTTrCCs	1		0.6	18.0	850	11.0	27	2.1	90	13	2	5.2	14	0.3	1	59	46	2.8	15.0	1.70	0.6	0.5	3.0	4	1.4	3	21.06
93K15	951378	10	376209	6079890		PTTrCCs	1		0.2	28.0	270	50.8	5	0.5	20	5	1	2.4	2	0.2	11	10	5	0.4	2.8	0.19	0.5	0.5	0.4	1	1.3	1	18.04
93K15	951379	10	374171	6080061		PTTrCCs	3		0.9	6.4	940	1.6	37	1.3	120	15	4	3.3	18	0.3	1	41	51	4.2	15.0	2.54	0.7	0.7	3.9	1	2.1	2	41.58
93K15	951380	10	377326	6077812		PTTrCCs	4		1.1	19.0	640	54.0	30	1.4	90	18	2	7.1	15	0.3	5	39	34	3.1	16.0	1.40	0.5	0.5	3.3	1	3.0	2	30.80
93K15	951382	10	378164	6078195		PTTrCCs	1		1.3	8.8	970	7.6	49	5.1	110	21	3	4.9	22	0.5	1	68	76	4.1	25.6	1.50	0.6	0.7	5.5	1	2.4	4	24.27
93K15	951383	10	379362	6076917		PTTrCCs	1		0.6	23.0	640	62.9	15	0.9	20	14	1	4.7	6	0.2	6	23	12	1.6	8.9	0.25	0.5	0.5	1.5	1	0.7	1	19.04
93K15	951384	10	376981	6077319	10	PTTrCCs	1		0.9	21.0	730	32.0	29	1.7	97	19	2	7.3	16	0.3	4	20	29	3.0	15.0	1.50	0.5	0.7	3.1	1	2.3	3	27.97
93K15	951385	10	376985	6077339	20	PTTrCCs	3	3	1.4	15.0	690	41.0	42	2.2	110	25	2	6.2	19	0.5	6	55	40	3.3	20.0	1.60	0.5	0.5	3.8	1	3.3	3	26.67
93K15	951386	10	375774	6076557		PTTrCCs	1		1.2	12.0	640	31.0	41	2.4	110	23	3	4.6	23	0.5	3	59	40	4.3	24.0	1.20	0.5	0.6	3.9	1	1.8	4	24.17
93K15	951387	10	374462	6076133		PTTrCCs	1		1.0	11.0	690	48.0	20	2.3	78	15	4	5.1	13	0.2	3	20	41	2.6	15.0	1.00	0.5	0.5	2.8	1	2.1	2	23.04
93K15	951388	10	374676	6074627		JKgd	1		1.0	8.5	820	10.0	43	3.2	79	16	2	5.7	24	0.4	3	73	39	4.8	19.0	1.70	0.5	0.6	4.4	1	2.3	3	21.45
93K15	951389	10	373525	6070168		JKgd	7	9	0.5	5.3	890	35.0	58	2.8	99	24	1	5.0	24	0.6	1	75	53	8.2	18.0	0.45	0.5	1.3	3.6	1	3.1	4	19.57
93K15	951390	10	373666	6069740		PTTrCCs	5		0.5	5.9	810	41.0	43	2.6	93	19	1	4.7	22	0.6	1	87	41	8.4	18.0	0.31	0.5	1.5	4.3	1	3.9	4	18.30
93K15	951391	10	373973	6069357		PTTrCCs	4		0.5	4.2	590	37.0	46	2.1	66	14	1	3.8	24	0.6	1	100	36	6.6	12.0	0.27	0.5	0.8	3.6	1	2.8	3	19.92
93K15	951392	10	374625	6069100		JKgd	5		0.6	5.5	880	25.0	54	2.6	73	17	2	5.7	28	0.5	4	93	43	6.9	16.0	0.54	0.5	1.3	3.7	1	2.5	3	20.02
93K10	951394	10	373455	6067947		PTTrCCs	7	5	0.8	8.0	650	32.0	40	3.0	120	22	3	4.0	19	0.5	1	90	45	4.8	20.3	0.93	0.6	0.8	4.8	1	3.3	3	21.15
93K10	951395	10	373997	6067144		PTTrCCs	7	6	0.8	8.1	730	35.0	42	3.2	110	23	3	4.5	21	0.4	1	94	55	5.1	21.9	1.00	0.5	0.9	5.0	1	3.6	4	21.70
93K10	951396	10	374944	6066809		PTTrCCs	5		0.7	7.4	730	32.0	38	3.1	110	22	3	4.0	23	0.5	1	110	42	5.0	21.7	1.00	0.5	1.1	4.8	1	3.5	4	22.33
93K10	951397	10	375778	6066071		PTTrCCs	4		0.6	7.4	670	15.0	34	1.4	91	16	3	2.8	17	0.5	1	75	37	3.8	15.0	1.40	0.5	0.7	3.1	1	2.1	2	22.61
93K10	951398	10	373166	6062666		PTTrCCs	7	6	1.0	6.8	370	80.2	37	1.2	160	19	1	4.2	19	0.4	3	210	22	4.1	19.0	0.44	0.5	0.7	3.2	1	3.6	2	20.11
93K10	951399	10	376995	6063618		PTTrCCs	1		0.5	4.4	230	54.1	18	1.1	35	8	1	2.3	7	0.2	2	41	12	1.6	9.3	0.34	0.5	0.5	1.5	1	1.6	1	22.37
93K15	951400	10	377433	6069068		JKgd	6	5	0.7	4.6	660	58.3	35	1.5	51	10	1	3.1	19	0.2	7	82	22	5.2	11.0	0.25	0.5	0.9	4.0	1	4.3	2	18.50

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2	Au2 2	Sb 0.1	As 0.5	Ba 50	Br 0.5	Ce 3	Cs 1	Cr 5	Co 1	Hf 1	Fe 0.01	La 0.5	Lu 0.05	Mo 1	Ni 20	Rb 5	Sm 0.1	Sc 0.1	Na 0.01	Ta 0.5	Tb 0.5	Th 0.2	W 1	U 0.5	Yb 0.2	Wt 0.01
							ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
93K15	951402	10	378635	6070229		PTTrCCs	1		0.6	3.7	720	6.4	33	3.6	69	11	2	2.7	13	0.2	1	33	52	2.5	17.0	0.93	0.6	0.5	3.4	1	2.1	2	16.30
93K15	951403	10	376517	6071410	10	JKgd	1		0.4	4.8	560	14.0	29	2.0	53	10	1	2.5	15	0.4	1	44	31	3.8	12.0	0.74	0.5	0.5	2.1	1	2.0	1	16.41
93K15	951404	10	376517	6071410	20	JKgd	1	1	0.4	4.3	490	14.0	28	1.9	42	10	1	2.4	13	0.2	1	30	25	3.6	11.0	0.69	0.5	0.5	1.9	1	1.9	2	14.79
93K15	951405	10	377611	6071672		PTTrCCs	6	6	0.8	24.0	450	51.2	26	0.9	44	7	1	6.1	15	0.3	11	62	17	3.4	12.0	0.36	0.5	0.5	2.3	1	2.1	1	19.00
93K15	951406	10	378000	6073260		PTTrCCs	1		1.2	8.5	690	24.0	49	2.8	91	22	2	3.9	23	0.6	3	51	53	4.8	25.2	1.10	0.5	0.8	4.1	1	2.0	4	24.08
93K15	951407	10	379968	6074029		PTTrCCs	1		0.4	6.1	690	48.0	12	1.0	20	8	1	5.2	6	0.2	1	32	18	1.6	8.6	0.21	0.5	0.5	1.6	1	0.8	1	18.89
93K15	951408	10	381045	6075115		PTTrCCs	3		0.9	7.3	680	46.0	26	1.4	64	11	1	3.1	12	0.3	2	37	25	2.8	15.0	0.54	0.5	0.5	2.3	1	1.0	2	19.29
93K15	951410	10	381595	6074664		PTTrCCs	2		0.8	6.1	550	28.0	28	2.5	68	15	2	2.2	13	0.4	1	38	37	3.0	15.0	0.91	0.5	0.5	3.1	1	1.4	2	23.60
93K15	951411	10	382398	6074193		PTTrCCs	4		1.5	10.0	1100	14.0	32	5.2	110	16	4	4.2	17	0.3	2	78	75	3.9	21.3	1.00	0.6	0.7	5.4	1	2.6	2	24.99
93K15	951412	10	381902	6073554		PTTrCCs	6	5	1.3	8.7	900	16.0	35	4.0	100	16	3	3.7	18	0.3	2	64	70	3.8	22.0	1.10	0.5	0.7	4.9	1	2.4	3	25.47
93K15	951413	10	382908	6072682		PTTrCCs	3		1.3	7.9	880	11.0	34	4.9	100	15	3	4.1	19	0.3	2	63	67	3.9	22.6	1.20	0.6	0.6	5.1	1	2.3	3	23.36
93K15	951414	10	383661	6072942		PTTrCCs	4		1.2	7.8	960	14.0	44	4.7	110	17	3	4.1	19	0.4	2	73	82	3.7	25.3	1.20	0.7	0.8	5.2	1	2.1	3	23.24
93K15	951415	10	384202	6072628		PTTrCCs	1		1.0	4.4	800	14.0	35	3.2	120	17	3	3.9	18	0.3	1	51	57	3.4	21.4	1.60	0.6	0.8	4.5	1	1.7	3	24.05
93K09	951416	10	420492	6067189		uTrTt	9	8	1.5	8.0	460	45.0	35	1.6	100	16	1	3.2	18	0.4	2	80	39	4.0	26.3	0.72	0.5	0.8	3.4	1	2.4	3	19.78
93K09	951417	10	422495	6066036		uTrTt	1		0.6	3.2	210	58.2	14	1.0	57	6	1	1.4	8	0.3	1	29	14	2.0	12.0	0.22	0.5	0.5	1.9	1	1.0	1	21.25
93K09	951418	10	422405	6065609		uTrTt	1		0.7	3.5	580	9.4	32	1.8	94	9	3	2.4	14	0.2	1	43	29	2.4	14.0	1.60	0.5	0.5	3.2	1	1.6	2	22.92
93K09	951419	10	421493	6064351		uTrTt	4		1.2	4.7	1000	2.8	40	2.1	160	17	3	3.9	18	0.3	1	56	55	3.8	22.5	2.31	0.7	0.8	4.0	1	2.1	2	31.22
93K09	951420	10	421077	6063590		uTrTt	1		0.8	4.3	490	12.0	21	1.8	81	13	2	2.5	12	0.2	1	33	36	2.5	13.0	0.92	0.5	0.5	2.6	1	1.6	2	18.10
93K09	951422	10	421988	6062445		uTrTt	3		0.6	3.1	390	15.0	16	1.8	63	12	1	2.1	9	0.2	3	47	31	2.0	10.0	0.77	0.5	0.5	2.2	1	1.2	1	16.82
93K09	951423	10	419327	6060007	10	uTrTt	1		0.3	4.4	77	43.0	5	0.5	20	5	1	0.7	2	0.2	1	15	5	0.3	2.0	0.07	0.5	0.5	0.4	1	0.2	1	16.75
93K09	951424	10	419327	6060007	20	uTrTt	1		0.3	4.5	98	41.0	5	0.5	20	6	1	0.8	2	0.2	2	17	5	0.3	2.0	0.08	0.5	0.5	0.4	1	0.2	1	19.17
93K09	951426	10	422158	6058759		MPCV	3		0.8	5.9	260	71.5	5	0.8	34	13	1	4.6	5	0.2	10	36	13	1.1	6.4	0.38	0.5	0.5	1.0	1	1.1	1	18.24
93K09	951427	10	420566	6058736		uTrTt	1		0.9	8.2	490	58.8	27	1.7	98	18	2	3.5	14	0.2	4	57	34	2.6	15.0	1.50	0.5	0.5	2.6	1	1.7	2	21.93
93K09	951428	10	419178	6059101		uTrTt	3		1.0	8.9	400	60.7	19	0.9	76	14	2	2.6	11	0.3	4	44	16	1.9	12.0	1.20	0.5	0.5	2.1	1	1.6	2	21.23
93K09	951429	10	418065	6058258		muTrTs	1		0.5	8.6	260	71.8	11	0.9	42	12	1	1.7	5	0.2	2	10	11	0.9	5.9	0.56	0.5	0.5	1.2	1	0.7	1	18.40
93K09	951430	10	416979	6058718		muTrTs	1		0.4	15.0	500	93.6	13	0.7	30	8	1	2.7	6	0.2	2	38	10	1.3	7.3	0.45	0.5	0.5	1.3	1	0.6	1	21.47
93K09	951431	10	419370	6057879		muTrTs	1	3	0.8	7.3	690	24.0	29	2.7	120	26	2	6.7	17	0.3	1	58	47	3.5	19.0	1.70	0.6	0.5	3.8	1	1.9	3	23.97
93K09	951432	10	422150	6057270		uTrTt	1		0.9	5.6	380	69.0	16	1.1	60	10	1	2.1	5	0.2	5	63	14	1.4	9.4	0.36	0.5	0.5	1.9	1	1.0	1	23.33
93K09	951433	10	421707	6057262		uTrTt	4		0.7	4.3	170	49.0	6	0.5	34	5	1	1.3	4	0.2	6	45	10	0.8	5.1	0.13	0.5	0.5	0.7	1	0.8	1	17.69
93K09	951434	10	425688	6042578		PTTrCCu	1		0.7	3.8	250	22.0	12	1.1	480	27	1	1.7	7	0.2	2	470	22	1.6	10.0	0.30	0.5	0.5	1.4	1	0.8	1	16.26
93K09	951435	10	425825	6041501		PTTrCCu	1		0.4	1.9	190	15.0	13	1.0	780	23	1	1.3	6	0.2	1	370	18	1.3	8.8	0.31	0.5	0.5	1.1	1	0.5	1	15.98
93K09	951436	10	381079	6040983		MJt	1		0.8	6.1	210	41.0	31	0.9	46	10	1	2.8	16	0.2	4	74	5	3.6	10.0	0.25	0.5	0.7	3.4	1	2.3	2	9.91
93K10	951437	10	380191	6041166		MJt	5		0.9	5.7	340	52.5	30	0.8	32	6	2	2.0	15	0.2	2	64	18	3.3	11.0	0.61	0.5	0.5	3.7	1	2.7	1	14.74
93K10	951438	10	376914	6041121		MJt	5		1.6	7.7	830	83.1	49	2.6	70	18	4	4.4	26	0.4	3	100	47	5.5	20.2	2.00	0.6	0.9	5.6	1	7.2	4	25.40
93K10	951439	10	373701	6042635		MJt	1		1.2	10.0	610	159.0	40	5.1	73	13	4	3.5	22	0.4	1	10	35	4.2	16.0	1.80	0.5	0.7	3.7	1	2.8	3	27.77
93K10	951440	10	372868	6042484		MJt	1		0.9	5.2	360	55.6	22	3.3	39	10	2	2.3	14	0.2	1	19	18	2.7	10.0	0.70	0.5	0.5	2.2	1	1.6	1	18.43
93K10	951442	10	373394	6043458		MJt	4		0.7	2.9	380	89.4	32	0.6	40	11	2	2.2	12	0.2	2	18	15	2.3	10.0	0.44	0.5	0.5	2.0	1	1.4	1	22.35
93K10	951443	10	374275	6043677		MJt	4		0.6	7.3	410	94.1	26	1.0	48	14	1	3.6	18	0.2	6	18	18	3.1	14.0	0.30	0.5	0.6	2.6	1	2.1	2	24.93
93K10	951444	10	375977	6044039	10	MJt	1		1.0	3.8	360	68.7	47	1.9	71	15	1	3.1	21	0.5	3	20	18	4.5	17.0	0.46	0.5	0.7	3.8	1	1.9	3	18.12
93K10	951445	10	375970	6044006	20	MJt	5		1.0	4.9	370	69.8	42	1.6	72	13	2	3.4	21	0.4	4	26	23	4.6	17.0	0.38	0.5	0.8	3.8	1	2.0	3	17.47

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb INAA	Au2 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 % INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K10	951446	10	376355	6043867		MJt	4		0.9	6.9	280	52.4	27	1.4	39	16	1	4.4	15	0.4	14	20	17	3.0	14.0	0.22	0.5	0.6	2.7	1	1.9	1	19.80
93K10	951447	10	375588	6044768		MJt	4	1	1.4	6.8	540	26.0	50	2.2	79	14	2	3.6	25	0.3	3	36	35	4.8	17.0	0.94	0.5	0.7	4.1	1	2.1	3	21.20
93K10	951448	10	378075	6045982		KTS	1		0.4	2.0	310	13.0	25	0.9	35	8	1	1.4	14	0.2	2	15	15	3.2	10.0	0.48	0.5	0.6	2.2	1	1.5	2	12.81
93K10	951449	10	375810	6046274		KTS	5		0.7	6.8	570	24.0	50	1.8	78	18	3	4.2	23	0.4	1	42	36	5.2	19.0	0.88	0.5	0.9	4.2	1	2.3	4	19.27
93K10	951450	10	375576	6045886		MJt	5		0.7	8.1	600	24.0	43	2.2	82	22	3	5.0	25	0.5	1	39	34	5.8	20.0	0.91	0.5	1.0	4.5	1	2.2	3	18.82
93K10	951451	10	374552	6045713		MJt	1		0.5	2.5	290	31.0	30	0.9	32	11	1	2.2	14	0.4	1	46	14	3.6	12.0	0.46	0.5	0.6	2.8	1	1.5	2	13.99
93K10	951453	10	373816	6045411		MJt	5		0.5	4.7	390	24.0	31	1.3	57	11	1	2.7	17	0.3	1	33	22	4.3	14.0	0.63	0.5	0.7	3.0	1	1.7	3	13.49
93K10	951454	10	371781	6045729		MJt	6	4	0.7	4.1	300	34.0	38	0.9	41	16	1	2.7	19	0.3	7	47	17	3.9	13.0	0.24	0.5	0.6	2.4	1	1.2	2	15.04
93K10	951455	10	376213	6049478		PTCCs	1		1.3	12.0	830	18.0	45	2.2	110	19	5	4.9	23	0.5	4	35	44	5.1	20.0	2.40	0.5	0.8	4.6	1	3.0	3	30.80
93K10	951456	10	374307	6048927		MJt	1		1.2	10.0	780	11.0	48	1.5	100	17	4	4.4	20	0.4	1	25	44	4.4	18.0	2.84	0.5	0.7	3.8	1	2.3	3	37.92
93K10	951457	10	372961	6048602		MJt	1		1.2	10.0	710	25.0	48	1.9	93	16	4	4.9	23	0.4	3	48	41	4.9	18.0	1.70	0.6	0.8	3.9	1	3.0	3	22.52
93K10	951458	10	371087	6048769		MJt	1		1.2	10.0	720	23.0	45	2.0	100	18	3	4.5	22	0.5	1	35	43	4.6	19.0	2.03	0.5	0.9	4.1	1	2.8	4	25.41
93K10	951459	10	375893	6051788		PTCCs	4		0.8	3.5	330	45.0	34	1.1	44	14	1	3.2	23	0.5	2	88	28	4.9	14.0	0.37	0.5	0.9	3.1	1	2.3	3	20.38
93K10	951460	10	374614	6052138		PTCCs	1		1.1	7.2	520	23.0	36	2.0	62	17	3	5.8	20	0.3	3	51	32	4.1	17.0	1.20	0.5	0.5	3.3	1	1.9	3	26.20
93K10	951462	10	374048	6052214		PTCCs	1		0.7	6.7	480	34.0	37	1.3	56	15	1	4.1	17	0.2	5	46	23	3.4	14.0	1.00	0.5	0.7	3.1	1	1.8	1	17.89
93K10	951463	10	373642	6053133		PTCCs	5		0.5	3.7	280	50.7	25	1.3	20	13	1	4.6	18	0.3	4	48	19	3.2	11.0	0.25	0.5	0.5	2.6	1	2.2	1	22.35
93K10	951464	10	375885	6053674	10	PTCCs	1		0.8	7.3	400	62.0	20	2.0	51	21	2	4.5	15	0.3	4	55	22	3.1	15.0	0.60	0.5	0.5	2.7	1	2.7	2	23.05
93K10	951465	10	375885	6053674	20	PTCCs	1		0.8	4.9	270	79.1	16	1.4	38	19	1	3.3	11	0.3	4	55	18	2.3	12.0	0.43	0.5	0.5	1.9	1	2.1	2	24.16
93K10	951466	10	381989	6049251		PTCCs	1		0.8	4.3	390	79.1	36	1.1	70	11	1	3.2	19	0.3	2	44	20	3.4	14.0	0.78	0.5	0.5	2.6	1	2.2	3	22.10
93K10	951467	10	382111	6048491		PTCCs	1		0.7	3.8	350	78.6	33	0.5	40	9	1	3.0	15	0.2	2	24	16	3.0	12.0	0.48	0.5	0.5	2.2	1	2.2	2	21.51
93K10	951468	10	380160	6049013		PTCCs	1		0.6	3.6	230	65.6	23	0.9	27	8	1	2.6	13	0.2	4	17	5	2.6	10.0	0.27	0.5	0.5	1.8	1	1.5	2	18.67
93K10	951469	10	380834	6047915		PTCCs	1		0.9	4.6	400	83.7	38	1.0	95	17	1	3.5	24	0.4	1	38	21	4.6	19.0	0.79	0.5	0.9	3.6	1	3.6	4	23.04
93K10	951470	10	382202	6047580		PTCCs	1		0.9	3.6	350	101.0	29	1.1	55	10	1	2.4	15	0.3	3	28	25	2.7	13.0	0.48	0.5	0.5	2.3	1	2.0	2	26.50
93K10	951471	10	385436	6047705		PTCCs	1	5	0.7	6.1	730	6.3	48	2.9	94	16	3	3.5	25	0.2	2	10	49	4.5	20.0	1.40	0.6	0.7	4.1	1	11.0	3	21.92
93K10	951472	10	386036	6047461		PTCCs	1		0.3	2.2	160	17.0	11	0.5	20	7	1	1.9	7	0.2	2	12	11	1.6	5.5	0.12	0.5	0.5	1.0	1	3.2	1	17.75
93K10	951473	10	382904	6043365		PTCCs	1		1.0	6.8	590	54.4	40	1.8	68	14	3	4.2	18	0.3	5	25	33	3.9	16.0	1.70	0.5	0.5	3.3	1	2.8	3	28.62
93K10	951474	10	382108	6043322		PTCCs	1		1.0	6.0	440	72.1	39	2.0	58	16	2	3.6	18	0.3	4	28	29	3.6	14.0	1.20	0.5	0.5	3.3	1	2.8	2	23.51
93K10	951475	10	379340	6042500		MJt	1		0.9	5.8	400	36.0	28	1.3	52	8	2	2.8	15	0.2	3	45	28	3.3	12.0	0.84	0.5	0.5	3.5	1	2.7	2	13.38
93K10	951476	10	377608	6042105		MJt	1		1.5	11.0	670	96.6	51	2.4	89	19	3	6.4	29	0.5	4	110	40	6.0	21.1	1.20	0.5	1.0	5.8	2	5.5	3	24.72
93K10	951477	10	378878	6041601		MJt	1		2.6	5.2	270	56.6	20	3.5	50	10	1	2.3	11	0.5	1	37	20	2.6	13.0	0.57	0.5	0.6	2.0	2	1.1	2	21.42
93K10	951479	10	380778	6042474		PTCCs	1		0.8	2.2	830	6.1	44	1.5	86	12	4	3.2	20	0.3	1	33	48	3.9	17.0	2.53	0.5	0.7	3.9	1	1.9	2	33.32
93K10	951480	10	381273	6042060		PTCCs	1		0.8	3.9	410	57.0	32	1.0	47	9	2	2.2	16	0.2	1	41	21	3.5	12.0	0.76	0.5	0.5	3.5	1	2.5	2	18.07
93K10	951482	10	384423	6041273		PTCCs	1		0.7	3.3	350	33.0	26	0.8	52	6	2	2.1	13	0.2	1	38	19	3.2	10.0	0.65	0.5	0.7	3.3	1	2.0	2	10.89
93K10	951483	10	383344	6041629		PTCCs	5		0.6	3.4	240	34.0	33	0.9	22	7	1	1.4	10	0.2	3	34	10	2.8	8.6	0.36	0.5	0.5	2.4	1	1.8	2	8.22
93K10	951485	10	382341	6041802	10	PTCCs	1	1	1.0	4.5	420	43.0	37	1.1	42	9	2	2.3	18	0.4	1	56	21	4.4	14.0	0.78	0.5	0.8	4.9	1	3.1	2	13.73
93K10	951486	10	382341	6041802	20	PTCCs	1		0.9	3.7	390	41.0	38	1.7	62	10	2	2.2	20	0.3	1	41	27	4.4	14.0	0.81	0.5	0.7	4.5	1	2.9	3	13.50
93K10	951487	10	382289	6042354		PTCCs	1		0.2	2.0	61	48.0	5	0.5	20	5	1	0.2	2	0.2	4	10	5	0.3	1.6	0.12	0.5	0.5	0.3	1	0.2	1	19.00
93K10	951488	10	389935	6043759		PTCCs	1		0.5	4.6	96	77.3	9	0.5	30	5	1	4.3	5	0.2	15	29	5	1.2	5.5	0.22	0.5	0.5	1.1	1	1.7	1	22.06

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FM 20 ppb ION	UN 0.05 ppb LIF
93K09	951002	10	432558	6039933		muTrTs	0.2	0.7	9	39	170	1.20	3	466	110	12	49	0.5	0.2	35	150	50.7	7.7	10	86	0.05
93K09	951003	10	434675	6040495		muTrTs	0.2	0.3	10	46	220	2.20	5	312	110	4	53	0.3		44	126	34.1	7.7	7	50	0.05
93K09	951004	10	435102	6041278		muTrTs	0.2	1.3	8	49	210	1.20	5	190	70	2	37	0.9	0.4	45	132	54.7	7.0	10	54	0.05
93K10	951005	10	385009	6040640	10	PTrCCs	0.2	0.6	11	65	200	2.50	2	930	120	2	96	1.2	0.4	113	125	25.0	7.5	4	40	0.05
93K10	951006	10	385009	6040640	20	PTrCCs	0.2	0.6	12	65	220	2.60	2	950	130	2	96	1.2	0.2	120	131	24.9	7.6	4	28	0.05
93K10	951007	10	382805	6041119		PTrCCs	0.2	0.2	6	46	120	1.40	3	432	150	3	48	0.9	0.4	83	83	22.2	7.7	4	30	0.05
93K09	951008	10	432205	6047810		muTrTs	0.2	1.5	11	70	170	2.00	2	294	220	2	112	1.8	0.4	58	173	48.3	7.1	4	68	0.05
93K09	951009	10	431490	6047826		muTrTs	0.2	0.2	2	5	90	21.00	2	1850	10	2	2	0.2	0.2	8	21	40.3	7.8	1	110	0.05
93K09	951010	10	434972	6047692		uTrTt	0.2	0.4	9	33	150	3.80	2	1190	80	4	36	0.9	0.2	33	134	49.1	7.9	4	130	0.05
93K09	951011	10	434408	6048246		uTrTt	0.2	0.4	6	46	120	2.60	2	1800	170	9	53	1.8	0.3	22	124	64.9	8.1	6	92	0.05
93K09	951013	10	434245	6051056		MPCv	0.2	1.3	12	64	170	4.30	2	155	250	12	126	3.5	0.5	44	176	71.9	8.1	6	46	0.05
93K09	951014	10	432552	6054405		MPCv	0.2	1.6	8	54	170	1.30	2	190	280	2	88	0.9	0.6	40	166	40.0	7.6	7	52	0.05
93K09	951015	10	435030	6056037		MPCv	0.2	0.7	10	53	170	1.60	2	393	200	2	90	0.9	0.7	72	172	39.0	7.4	3	32	0.05
93K09	951016	10	433474	6057974		MPCv	0.2	0.5	5	30	130	0.95	3	331	100	4	53	0.1	0.6	26	118	67.6	7.5	6	38	0.05
93K09	951017	10	434522	6059567		MPCv	0.2	0.2	2	20	170	5.10	2	960	30	65	10	3.4	0.4	31	51	29.8	8.2	5	68	0.08
93K09	951018	10	432587	6059397		MPCv	0.2	1.0	5	46	140	4.50	2	184	150	5	35	1.2	0.6	42	198	58.6	7.6	3	34	0.05
93K09	951019	10	429169	6060596		uTrTt	0.2	1.6	4	48	230	0.90	3	137	240	2	44	1.4	0.3	38	65	38.0	7.4	2	28	0.05
93K09	951020	10	430881	6061382		MPCv	0.2	1.7	5	43	280	0.65	3	85	210	2	41	0.8	0.4	25	98	57.5	7.2	4	26	0.05
93K09	951022	10	429840	6062157		uTrTt	0.2	2.0	8	43	220	2.50	3	370	280	3	88	1.2	1.2	75	310	51.7	7.1	4	22	0.05
93K09	951023	10	429962	6063959		uTrTt	0.2	1.3	9	37	250	2.10	2	266	120	2	60	0.4	0.2	53	150	21.0	7.1	7	26	0.05
93K09	951024	10	435343	6064431		MPCv	0.2	0.4	8	35	260	2.00	3	457	270	2	37	0.4	0.4	61	104	19.0	7.6	4	26	0.05
93K16	951025	10	432128	6069012		uTrTt	0.2	1.8	8	64	190	1.00	2	196	260	2	59	1.5	0.6	43	180	48.1	7.3	2	22	0.05
93K16	951027	10	433472	6069635	10	uTrTt	0.2	1.6	8	50	130	1.30	2	235	190	14	42	1.1	0.4	34	144	47.0	8.1	9	52	0.09
93K16	951028	10	433475	6069637	20	uTrTt	0.2	1.8	8	48	130	1.30	2	213	190	21	42	1.1	0.3	25	146	48.2	7.8	10	66	0.11
93K16	951029	10	435631	6070864		uTrTt	0.2	0.7	3	26	110	0.45	2	90	80	6	42	0.9	0.2	16	68	49.7	7.8	4	46	0.05
93K16	951030	10	429136	6069599		uTrTt	0.2	1.2	4	27	170	0.65	2	126	160	2	26	0.7	0.2	25	64	41.6	7.4	7	44	0.05
93K16	951031	10	431282	6071207		uTrTt	0.2	1.2	7	36	130	0.60	2	168	150	2	36	1.5	0.3	26	125	63.4	7.4	4	32	0.05
93K16	951032	10	431794	6073083		uTrTt	0.2	0.7	7	62	140	1.20	2	501	150	13	40	4.8	0.4	33	139	54.0	7.9	4	42	0.05
93K16	951033	10	432347	6073157		uTrTt	0.2	0.7	8	59	150	2.10	2	332	160	9	40	4.8	0.3	45	126	49.4	7.5	4	38	0.05
93K16	951034	10	433553	6073339		uTrTt	0.2	1.0	11	68	190	2.20	2	420	180	9	52	3.8	0.4	54	124	45.3	7.9	4	42	0.05
93K16	951035	10	434231	6073501		uTrTt	0.2	0.8	10	63	180	2.00	2	410	180	8	46	3.2	0.5	59	128	43.3	7.6	4	42	0.05
93K16	951036	10	429896	6074905		uTrTt	0.2	1.7	10	70	130	2.40	2	262	290	6	42	3.9	0.6	40	140	44.4	7.5	7	42	0.05
93K16	951037	10	427684	6077008		uTrTt	0.2	1.5	6	57	140	0.60	2	93	190	3	35	1.6	0.7	28	136	43.5	7.5	3	42	0.05
93K16	951038	10	431301	6077961		uTrTt	0.2	0.6	11	39	300	2.30	2	301	160	2	28	1.5	0.5	75	92	14.6	8.3	6	72	0.05
93K16	951039	10	427834	6082196		uTrTt	0.2	1.0	16	77	230	3.40	2	328	270	4	36	2.4	0.6	89	122	21.7	7.4	3	48	0.05
93K16	951040	10	428701	6082861		uTrTt	0.2	0.8	15	63	300	3.30	3	325	160	5	31	1.8	0.6	84	106	14.8	7.5	4	48	0.05
93K16	951042	10	427399	6085102	10	uTrTt	0.2	0.7	5	34	110	0.60	2	121	140	5	18	0.8	0.2	26	74	40.4	7.8	4	50	0.05
93K16	951043	10	427350	6085098	20	uTrTt	0.2	0.7	6	35	120	0.75	2	134	120	4	19	1.0	0.2	25	68	38.1	7.9	4	48	0.05
93K16	951044	10	433397	6088791		TrJm	0.2	0.9	12	90	160	1.50	2	201	190	6	25	1.2	0.5	59	112	37.0	7.7	4	38	0.05
93K16	951045	10	432296	6093893		uTrTv	0.2	0.8	4	93	110	0.20	2	27	120	5	14	1.4	0.4	21	60	41.8	7.2	4	34	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
	93K16 951046	10	429755	6093918		uTrTv	0.2	0.7	4	31	170	0.75	2	125	110	6	10	11.5	0.2	63	35	37.5	7.9	5	66	0.06
	93K16 951047	10	425854	6094264		EJd	0.2	0.5	5	47	210	1.20	2	161	160	3	16	0.2	0.5	48	85	20.1	6.7	5	30	0.05
	93K16 951048	10	421351	6094481		uTrTv	0.2	0.8	7	58	110	1.10	2	120	210	3	18	1.0	0.6	43	71	31.8	7.6	3	34	0.05
	93K16 951049	10	420993	6094277		uTrTv	0.2	0.8	6	60	120	0.70	2	116	240	2	22	1.0	0.6	41	88	39.5	7.5	3	44	0.05
	93K16 951050	10	420336	6094008		uTrTv	0.2	1.2	10	57	130	2.40	2	960	290	4	17	1.1	1.1	106	118	30.0	7.4	3	34	0.05
	93K16 951051	10	422391	6093415		EJd	0.2	0.6	7	41	200	1.00	2	208	100	6	17	1.8	0.5	43	50	45.2	8.1	5	180	0.05
	93K16 951052	10	425399	6089820		EJd	0.2	1.0	4	49	190	0.65	2	80	130	3	16	3.3	0.6	32	33	43.5	8.1	7	160	0.10
	93K16 951053	10	427014	6088955		uTrTt	0.2	1.2	6	29	160	0.75	2	125	110	6	16	11.0	0.4	50	74	40.4	8.2	5	88	0.13
	93K16 951054	10	423807	6086092		uTrTt	0.2	0.8	13	43	270	3.10	2	335	150	2	22	1.6	0.6	70	96	16.4	7.7	3	64	0.05
	93K16 951055	10	424441	6084510		uTrTt	0.2	0.7	6	85	130	0.35	2	228	260	3	38	1.3	0.4	28	123	54.8	7.4	2	32	0.05
	93K16 951056	10	422365	6084103		uTrTt	0.2	0.7	7	47	120	0.15	2	174	110	5	23	1.1	0.2	25	120	46.2	7.4	2	38	0.05
	93K16 951058	10	422358	6081881		uTrTt	0.2	0.5	8	48	150	1.00	2	353	130	5	26	0.9	0.2	43	117	42.8	7.4	3	48	0.05
	93K16 951059	10	421471	6079484		uTrTt	0.2	0.4	6	45	150	1.20	2	176	90	20	29	8.8	0.4	26	86	49.3	8.1	3	64	0.05
	93K16 951060	10	423478	6076855		uTrTt	0.2	0.4	11	66	280	2.40	3	361	190	4	49	1.0	0.5	74	132	33.6	7.5	3	40	0.05
	93K16 951062	10	422942	6074154	10	uTrTt	0.2	0.6	6	40	160	0.40	3	421	100	3	26	1.5	0.4	33	147	70.7	7.0	2	36	0.05
	93K16 951063	10	422942	6074154	20	uTrTt	0.2	0.6	6	40	140	0.35	2	427	100	3	26	1.5	0.2	32	139	70.6	6.8	2	40	0.05
	93K16 951064	10	423770	6074644		uTrTt	0.2	0.6	5	28	150	0.50	2	123	140	7	28	1.4	0.2	15	104	60.9	8.3	18	58	0.05
	93K16 951065	10	423919	6074159		uTrTt	0.2	0.9	6	67	220	0.60	4	85	160	3	32	1.2	0.7	38	72	53.6	7.3	10	62	0.05
	93K16 951066	10	423824	6073365		uTrTt	0.2	0.8	14	59	230	2.20	2	277	240	3	42	1.9	0.6	60	160	28.4	7.2	5	54	0.05
	93K16 951067	10	423456	6072104		uTrTt	0.2	0.4	6	50	160	0.50	2	240	230	2	33	1.7	0.7	31	180	67.4	7.5	5	44	0.05
	93K16 951068	10	424065	6071401		uTrTt	0.2	0.2	9	43	220	0.75	4	323	90	2	32	1.2	0.4	46	130	53.5	7.6	2	42	0.05
	93K16 951069	10	432861	6075227		uTrTt	0.2	0.6	5	38	140	0.55	2	120	150	6	25	7.7	0.4	16	116	69.8	7.6	12	53	0.05
	93K09 951071	10	431938	6045746		muTrTs	0.2	0.2	16	34	330	1.70	12	317	70	2	46	0.2	0.3	53	164	7.9	8.0	5	68	0.05
	93K09 951072	10	430753	6049792		muTrTs	0.2	0.4	5	18	120	0.20	3	142	30	39	26	17.5	0.3	31	67	64.8	7.7	4	68	0.12
	93K09 951073	10	429011	6050652		muTrTs	0.2	0.3	10	33	300	2.80	4	1620	70	8	29	1.6	0.4	38	120	45.0	8.0	6	82	0.05
	93K09 951074	10	429428	6052736		uTrTt	0.2	0.4	12	38	250	2.90	2	543	130	2	66	1.0	0.4	44	159	41.5	7.4	1	50	0.05
	93K09 951075	10	429180	6053585		uTrTt	0.2	1.0	7	44	130	0.75	2	303	180	3	76	1.7	0.5	26	191	76.2	7.4	3	50	0.05
	93K09 951076	10	427218	6055351		uTrTt	0.2	0.2	2	10	110	0.65	2	1800	110	6	10	0.3	0.2	5	50	94.1	6.7	3	64	0.05
	93K09 951077	10	428435	6054819		uTrTt	0.2	1.0	6	25	180	1.10	2	399	90	4	28	0.4	0.2	58	161	46.3	8.0	2	80	0.05
	93K09 951078	10	428732	6055135		uTrTt	0.2	0.2	16	14	110	21.00	2	1250	50	4	18	0.7	0.2	15	391	51.9	7.5	1	46	0.05
	93K09 951079	10	429419	6055783		uTrTt	0.2	0.1	8	51	140	0.50	2	167	120	6	46	1.5	0.4	36	197	83.3	7.4	2	40	0.05
	93K09 951080	10	428140	6057346		uTrTt	0.2	0.1	5	29	230	1.30	3	188	90	2	33	0.3	0.2	50	175	26.6	6.9	4	44	0.05
	93K09 951082	10	427210	6062494	10	uTrTt	0.2	1.4	8	50	210	1.30	2	228	240	2	76	1.2	0.5	40	185	42.0	7.0	3	36	0.05
	93K09 951083	10	427199	6062488	20	uTrTt	0.2	1.3	7	48	190	1.30	2	214	240	2	75	1.0	0.4	38	178	40.6	7.1	3	36	0.05
	93K09 951084	10	426514	6067156		uTrTt	0.2	0.7	6	33	280	1.30	2	175	170	2	29	0.4	0.2	43	115	19.9	6.7	3	38	0.05
	93K16 951085	10	421511	6067536		uTrTt	0.2	1.6	8	85	210	1.80	2	253	410	4	55	2.5	0.9	55	204	56.1	7.5	8	38	0.05
	93K16 951086	10	421733	6068589		uTrTt	0.2	1.3	13	110	240	3.20	3	286	380	4	74	2.1	1.0	83	180	41.6	7.4	6	42	0.05
	93K16 951087	10	420951	6071730		uTrTt	0.2	0.5	8	31	290	1.90	2	349	120	3	32	0.3	0.2	63	96	23.7	7.7	4	38	0.05
	93K16 951089	10	420017	6071235		uTrTt	0.2	0.8	9	58	200	1.10	4	349	120	4	43	1.5	0.5	52	166	61.0	7.2	3	34	0.05
	93K16 951090	10	419287	6071230		uTrTt	0.2	1.3	11	72	220	1.50	2	371	160	5	44	2.8	0.4	49	169	54.9	7.1	4	36	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 %	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 %	pH	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
93K16	951091	10	417794	6070422		uTrTt	0.2	0.7	11	53	300	2.30	4	555	170	2	46	1.7	0.4	65	152	31.3	7.8	3	40	0.05
93K16	951092	10	417021	6070066		uTrTt	0.2	1.0	10	61	270	2.40	2	512	200	2	49	2.1	0.5	64	168	37.7	7.3	3	38	0.05
93K16	951093	10	416636	6068839		uTrTt	0.2	0.9	3	53	150	0.60	3	223	160	7	28	3.0	0.4	14	138	77.4	7.6	5	40	0.05
93K16	951094	10	416829	6070983		uTrTt	0.2	0.6	4	35	140	0.45	2	66	150	6	32	2.2	0.2	16	108	76.2	7.7	5	44	0.05
93K16	951095	10	417209	6072891		uTrTt	0.2	1.1	7	45	160	0.85	2	116	140	6	37	5.2	0.2	26	135	61.2	7.7	6	48	0.05
93K16	951096	10	416105	6074190		uTrTt	0.2	1.6	11	56	180	2.20	2	225	230	3	44	2.5	0.5	54	174	46.7	7.6	5	50	0.05
93K16	951097	10	416643	6075034		uTrTt	0.2	0.9	10	68	180	8.60	2	1100	210	4	43	2.4	0.5	105	130	38.6	7.6	3	48	0.05
93K16	951098	10	413444	6075866		uTrTt	0.2	1.2	7	72	140	1.10	2	478	260	7	30	3.2	0.7	44	182	57.7	7.3	3	40	0.05
93K16	951099	10	412699	6076271		uTrTt	0.2	0.4	2	26	110	0.15	3	253	60	2	18	1.6	0.2	6	144	67.4	7.3	3	38	0.06
93K16	951100	10	412645	6077222		uTrTt	0.2	0.9	4	59	170	0.75	2	227	230	2	23	3.8	0.6	41	68	56.3	7.9	3	42	0.05
93K16	951102	10	414263	6079754	10	uTrTt	0.2	0.6	9	54	170	0.90	3	172	150	2	28	1.8	0.4	44	122	47.3	7.8	2	36	0.05
93K16	951103	10	414263	6079754	20	uTrTt	0.2	0.6	9	56	160	1.00	4	175	160	3	30	1.7	0.5	42	119	46.7	7.8	2	38	0.05
93K16	951105	10	414184	6080846		uTrTt	0.2	0.7	9	81	190	1.50	3	415	210	4	28	2.7	1.0	92	142	46.1	7.8	2	36	0.05
93K16	951106	10	414312	6081150		uTrTt	0.2	1.4	8	83	190	0.65	3	215	200	6	31	3.2	0.9	74	151	60.2	7.8	2	34	0.05
93K16	951107	10	413188	6080403		uTrTt	0.2	0.8	10	84	170	1.20	2	157	180	5	36	5.3	0.8	68	116	51.4	7.8	2	38	0.05
93K16	951108	10	409845	6078214		uTrTt	0.2	1.2	9	53	190	1.90	2	376	210	3	32	3.6	0.6	64	146	38.4	7.4	4	34	0.05
93K16	951109	10	411813	6081349		uTrTt	0.2	0.9	7	63	170	0.70	2	194	140	5	30	3.6	0.3	42	88	59.7	7.7	1	32	0.05
93K16	951110	10	414427	6085352		uTrTt	0.2	0.8	5	57	170	0.70	2	395	190	3	15	5.8	0.4	25	52	60.3	7.8	1	38	0.05
93K16	951111	10	415561	6085215		uTrTt	0.2	0.7	8	70	180	0.75	2	248	140	3	32	6.6	0.2	37	114	60.6	7.7	2	44	0.05
93K16	951112	10	418130	6085077		uTrTt	0.2	1.6	4	63	160	0.55	2	76	150	10	17	18.0	0.5	42	40	57.3	8.0	4	38	0.05
93K16	951113	10	416563	6091859		uTrTv	0.2	0.8	6	61	140	1.00	2	210	270	3	21	1.3	0.6	50	88	36.2	7.3	3	34	0.05
93K16	951114	10	416334	6094537		uTrTv	0.2	0.8	5	63	110	2.50	2	395	250	8	16	1.4	1.0	86	76	43.2	7.4	3	30	0.05
93K16	951115	10	417136	6094897		uTrTv	0.2	1.2	4	64	140	0.60	2	175	270	3	18	1.4	1.2	54	108	55.1	7.2	3	28	0.05
93K16	951116	10	417038	6094136		uTrTv	0.2	0.2	2	34	110	0.55	3	38	100	2	9	0.6	0.4	20	18	37.2	7.3	3	28	0.05
93K16	951117	10	418707	6094421		uTrTv	0.2	0.6	4	26	120	0.35	2	92	50	4	12	1.7	0.2	24	98	56.4	6.9	1	28	0.05
93K16	951118	10	419740	6093386		uTrTv	0.2	0.8	10	53	150	2.60	2	940	270	3	19	1.2	0.5	96	120	28.6	7.5	2	42	0.05
93K16	951119	10	419336	6093170		uTrTv	0.2	0.7	7	50	180	1.60	3	442	280	3	19	0.1	0.4	78	91	26.7	7.4	2	40	0.05
93K16	951120	10	419491	6092240		uTrTv	0.2	0.4	4	52	200	0.50	2	135	100	4	23	0.8	0.2	33	62	52.3	7.5	2	36	0.05
93K16	951122	10	419601	6089516		EJd	0.2	2.2	3	98	200	0.25	2	80	360	5	25	1.6	1.0	28	230	66.8	6.9	6	32	0.05
93K16	951123	10	420254	6087668		EJd	0.2	0.8	9	26	200	0.95	2	139	70	8	14	5.9	0.2	35	169	7.0	7.5	3	48	0.05
93K16	951124	10	418360	6086491		uTrTt	0.2	1.6	8	82	250	0.90	2	241	180	5	24	11.5	0.4	45	91	41.1	7.7	4	44	0.05
93K16	951125	10	419738	6086087	10	uTrTt	0.2	1.2	9	52	160	0.65	2	181	180	4	20	2.2	0.3	20	179	51.9	7.6	3	34	0.05
93K16	951126	10	419738	6086087	20	uTrTt	0.2	1.2	8	54	190	0.90	2	205	160	4	20	2.5	0.2	23	170	54.9	7.4	3	38	0.05
93K16	951127	10	419384	6084476		uTrTt	0.2	2.1	3	125	190	0.80	2	168	410	4	29	1.7	2.0	69	182	58.5	6.7	6	32	0.05
93K16	951128	10	417791	6082277		EJd	0.2	1.6	6	78	250	0.65	2	262	200	5	23	13.5	0.4	44	87	46.5	8.1	2	58	0.06
93K16	951129	10	416686	6082380		EJd	0.2	1.0	4	49	240	0.40	2	224	160	2	24	0.6	0.2	33	84	46.5	7.3	3	44	0.05
93K16	951130	10	413310	6073297		uTrTt	0.2	0.6	5	37	160	0.75	2	220	130	4	25	1.3	0.2	30	120	46.8	7.4	4	40	0.05
93K16	951131	10	413973	6069528		uTrTt	0.2	1.0	9	71	170	2.40	2	227	230	6	40	4.1	0.5	49	216	60.7	7.2	4	40	0.05
93K09	951132	10	424942	6063825		uTrTt	0.2	2.1	5	81	190	0.50	3	91	220	3	42	1.9	0.4	35	67	48.6	7.1	5	58	0.05
93K09	951133	10	427100	6059956		uTrTt	0.2	1.2	4	42	160	0.45	2	90	130	2	65	1.0	0.2	42	57	47.3	7.1	7	64	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
93K09	951134	10	426855	6057353		uTrTt	0.2	1.1	11	52	290	2.90	3	293	130	4	74	0.8	0.2	64	170	21.1	7.2	3	56	0.05
93K09	951135	10	424940	6055184		uTrTt	0.2	0.8	4	29	250	0.40	2	166	70	3	28	0.3	0.2	46	137	44.1	6.3	2	30	0.05
93K09	951136	10	426274	6054127		uTrTt	0.2	0.2	2	9	150	0.50	2	432	20	5	6	0.5	0.2	6	147	83.4	8.0	2	120	0.06
93K09	951138	10	427488	6052244		uTrTt	0.2	0.3	2	28	160	0.55	2	1050	60	45	26	0.8	0.2	15	135	70.6	8.0	26	100	0.05
93K09	951139	10	427376	6051672		muTrTs	0.2	0.7	10	34	190	1.50	2	469	70	7	43	1.5	0.2	37	162	63.6	7.3	8	72	0.05
93K09	951140	10	426322	6048973		muTrTs	0.2	1.1	12	35	300	1.40	4	432	120	3	46	0.5	0.3	48	201	30.0	7.0	7	66	0.05
93K09	951142	10	419787	6040890		PTrCCb	0.2	0.9	13	34	230	1.90	3	229	100	2	146	0.4	0.2	42	106	35.1	7.8	3	42	0.05
93K09	951143	10	416173	6043914	10	PTrCCb	0.2	0.8	10	49	240	2.00	2	566	120	9	119	2.5	0.4	48	97	44.2	7.9	4	64	0.05
93K09	951144	10	416171	6043914	20	PTrCCb	0.2	0.6	11	44	220	1.90	3	548	110	9	112	2.1	0.3	46	93	43.9	7.5	4	66	0.05
93K09	951145	10	414470	6044315		PTrCCv	0.2	0.2	4	25	180	10.80	2	5350	50	5	31	1.2	0.4	25	168	54.9	8.5	1	58	0.05
93K09	951146	10	409679	6044965		PTrCCl	0.2	0.4	3	17	310	0.35	2	800	50	5	16	2.1	0.5	18	73	86.0	8.3	1	68	0.05
93K09	951148	10	410003	6045276		PTrCCl	0.2	0.3	2	17	280	0.40	2	636	50	2	15	1.4	0.3	15	112	87.1	7.6	2	66	0.05
93K09	951149	10	409308	6045540		PTrCCl	0.2	0.4	2	14	120	0.60	2	261	50	3	11	1.0	0.4	11	135	90.0	7.7	4	60	0.05
93K09	951150	10	409099	6045856		PTrCCl	0.2	0.4	2	15	150	0.50	2	263	40	4	5	0.8	0.4	15	96	56.1	7.8	1	58	0.26
93K09	951151	10	408982	6047697		PTrCCu	0.2	0.4	3	25	140	0.75	2	1300	70	5	22	3.5	0.2	12	122	79.5	8.0	2	68	0.05
93K09	951152	10	408224	6047879		PTrCCu	0.2	0.9	9	45	200	1.20	3	130	70	8	45	3.4	0.2	24	141	71.8	7.9	3	86	0.05
93K09	951153	10	408402	6052165		PTrCCb	0.2	0.2	20	41	350	7.00	10	1070	220	2	56	0.2	0.2	71	114	5.7	7.6	6	56	0.05
93K09	951154	10	406510	6053528		PTrCCb	0.2	0.4	19	45	360	3.40	6	509	4150	2	83	0.5	0.4	64	150	14.7	7.8	5	50	0.05
93K09	951155	10	405209	6054174		PTrCCb	0.2	0.6	19	45	400	3.30	6	505	1900	2	80	0.5	0.3	65	151	13.5	7.5	6	52	0.05
93K10	951156	10	402570	6054777		PTrCCb	0.2	0.5	18	46	340	3.50	6	478	2400	2	88	0.6	0.5	62	160	15.2	7.4	6	48	0.08
93K10	951157	10	398998	6057197		PTrCCl	0.2	0.6	17	57	340	3.60	7	423	810	2	87	1.0	0.2	60	154	18.3	7.5	5	48	0.05
93K10	951158	10	399715	6057458		PTrCCb	0.2	0.2	24	62	450	4.20	13	602	600	2	61	0.2	0.4	88	151	8.9	7.7	6	46	0.05
93K10	951159	10	399903	6058517		PTrCCb	0.2	0.7	8	42	180	1.10	4	681	160	3	52	2.1	0.3	27	98	67.7	7.5	18	54	0.05
93K10	951160	10	400260	6059540		PTrCCv	0.2	0.6	13	48	190	1.80	4	202	360	2	107	1.4	0.3	38	79	47.5	7.8	5	30	0.05
93K10	951162	10	400641	6060199		PTrCCv	0.2	0.8	14	64	230	2.00	2	547	150	10	121	3.6	0.4	47	135	69.6	7.9	5	56	0.05
93K10	951163	10	402421	6060500	10	PTrCCvs	0.2	1.0	10	54	210	0.45	2	83	140	6	288	3.6	0.3	23	157	81.1	8.0	4	42	0.05
93K10	951164	10	402421	6060500	20	PTrCCvs	0.2	1.0	11	50	190	0.40	2	78	130	6	290	3.2	0.2	22	151	82.2	8.1	4	42	0.05
93K10	951165	10	399007	6060384		PTrCCb	0.2	0.7	15	71	210	3.00	2	484	180	6	109	2.2	0.4	53	153	65.7	7.6	6	50	0.05
93K10	951166	10	398720	6060790		PTrCCb	0.2	0.6	12	53	220	6.40	2	1680	140	5	61	1.5	0.5	48	118	59.2	7.5	4	58	0.05
93K10	951167	10	397090	6064009		PTrCCb	0.2	1.6	29	70	220	8.50	6	1100	120	5	56	0.6	1.3	104	420	38.2	6.8	1	26	0.05
93K10	951168	10	396278	6063922		PTrCCb	0.2	1.4	10	43	240	0.80	5	508	70	3	32	0.6	0.6	56	215	54.1	7.1	1	36	0.05
93K10	951169	10	396585	6064478		PTrCCb	0.2	1.2	11	61	220	1.20	4	368	70	5	33	0.7	0.9	93	295	48.6	6.4	1	26	0.05
93K10	951170	10	396841	6065094		PTrCCb	0.2	1.3	11	54	220	0.70	5	230	60	3	37	0.5	0.6	68	174	53.6	6.3	1	24	0.05
93K10	951171	10	396370	6065881		PTrCCb	0.2	1.8	6	34	230	0.40	3	336	50	7	21	0.5	0.5	47	163	86.2	6.0	1	26	0.05
93K10	951172	10	396266	6066478		PTrCCb	0.2	0.4	4	34	200	0.75	2	648	80	3	24	0.8	0.6	38	244	70.7	6.8	2	32	0.05
93K10	951173	10	394842	6066850		PTrCCb	0.2	0.4	22	38	150	2.00	2	2500	50	5	24	0.6	0.6	73	166	34.7	7.5	1	32	0.05
93K10	951174	10	401806	6059700		PTrCCu	0.2	0.2	16	31	120	0.60	2	191	140	2	650	0.4	0.2	13	118	63.0	8.2	2	22	0.05
93K16	951175	10	406695	6075585		uTrTt	0.2	0.2	7	36	210	1.60	3	232	130	2	25	2.7	0.3	41	74	25.6	7.7	6	28	0.05
93K16	951176	10	407755	6076837		uTrTt	0.2	1.6	11	77	150	1.50	3	581	240	9	34	6.6	0.6	58	154	50.9	7.4	6	28	0.05
93K16	951177	10	408553	6077351		uTrTt	0.2	0.8	5	33	190	0.55	2	132	100	5	19	3.4	0.5	32	68	46.5	7.5	6	32	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 %	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 %	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UN 0.05 ppb LIF
93K16	951178	10	405799	6076941		uTrTt	0.2	1.2	4	64	140	1.00	2	92	260	5	23	7.0	0.4	26	85	45.3	8.0	6	38	0.05
93K16	951179	10	406955	6083782		uTrTt	0.2	1.6	11	160	190	1.20	2	371	480	4	44	15.0	0.9	56	130	61.8	7.8	7	38	0.05
93K16	951182	10	406588	6085298	10	uTrTt	0.2	1.9	7	93	130	0.80	2	141	320	9	33	10.5	0.6	31	131	55.4	7.7	4	40	0.05
93K16	951183	10	406591	6085290	20	uTrTt	0.2	2.1	7	98	120	1.00	3	132	350	7	35	11.0	0.6	31	119	56.1	7.8	4	48	0.05
93K16	951185	10	406014	6085684		uTrTt	0.2	1.2	7	93	140	1.10	3	164	300	9	42	7.9	0.4	32	130	50.7	7.8	4	48	0.05
93K16	951186	10	408209	6084525		uTrTt	0.2	1.3	6	49	150	0.85	4	230	200	3	21	5.4	0.3	31	81	50.5	8.0	2	46	0.05
93K16	951187	10	410969	6083090		uTrTt	0.2	1.0	5	58	110	1.10	2	208	130	16	18	8.0	0.2	23	142	70.2	7.8	3	52	0.05
93K16	951188	10	411221	6083968		uTrTt	0.2	0.8	5	70	110	0.60	3	124	160	3	19	5.2	0.3	22	76	47.3	8.2	3	60	0.05
93K16	951189	10	411570	6084341		uTrTt	0.2	0.8	3	38	110	0.25	2	102	90	4	11	3.7	0.2	22	118	63.9	7.4	3	36	0.05
93K16	951190	10	410852	6085279		uTrTt	0.2	1.5	6	156	160	0.65	2	359	370	16	24	17.5	0.3	34	65	60.9	8.3	4	50	0.05
93K16	951191	10	409591	6086329		uTrTt	0.2	0.8	6	76	150	1.00	2	75	130	10	26	11.0	0.2	27	88	55.6	8.1	5	40	0.05
93K16	951192	10	408541	6086351		uTrTt	0.2	0.5	13	72	240	2.10	4	404	200	2	32	3.4	0.4	71	110	20.3	8.2	4	32	0.05
93K16	951193	10	408284	6088459		uTrTt	0.2	1.0	8	92	110	0.90	2	124	260	7	37	14.0	0.7	31	118	59.0	8.1	8	50	0.05
93K16	951194	10	410646	6090624		uTrTt	0.2	1.2	4	142	120	1.20	3	100	270	8	30	11.5	0.5	34	114	45.0	8.2	9	40	0.05
93K16	951195	10	413308	6092035		EJd	0.2	0.8	4	166	90	0.25	2	24	290	6	13	9.0	1.0	22	41	36.2	8.1	5	36	0.05
93K16	951196	10	414352	6093001		EJd	0.2	0.6	5	95	90	0.50	2	71	160	4	14	2.2	0.6	32	93	42.1	7.7	5	46	0.05
93K16	951197	10	415595	6092541		uTrTv	0.2	0.6	2	76	90	0.10	2	24	120	6	10	2.8	0.4	24	64	35.6	7.8	4	42	0.05
93K16	951198	10	414185	6091744		EJd	0.2	0.7	2	70	90	0.20	2	40	110	6	9	5.0	0.2	25	60	33.0	7.8	6	40	0.05
93K16	951199	10	414241	6090978		EJd	0.2	0.6	2	94	90	0.10	2	24	180	8	19	2.4	0.4	10	58	38.5	7.7	6	36	0.05
93K16	951200	10	414514	6089813		uTrTt	0.2	1.2	7	125	110	0.90	2	162	400	7	18	11.0	0.7	26	61	66.8	7.8	4	38	0.05
93K16	951202	10	407302	6093239		uTrTt	0.2	0.6	5	81	100	0.80	2	119	240	8	20	10.0	0.3	31	94	45.1	8.2	6	34	0.05
93K16	951203	10	405886	6092882	10	uTrTt	0.2	0.6	13	99	200	2.90	3	349	240	8	34	10.5	0.4	69	89	37.1	7.9	6	40	0.05
93K16	951204	10	405886	6092882	20	uTrTt	0.2	0.7	15	108	180	3.10	2	393	260	7	37	12.0	0.4	75	118	30.8	8.0	6	42	0.05
93K16	951205	10	405640	6090748		uTrTt	0.2	0.3	4	45	140	2.80	2	412	70	39	12	5.8	0.2	26	37	26.0	8.1	8	40	0.05
93K16	951206	10	405124	6090660		uTrTt	0.2	1.2	6	88	120	0.55	2	123	220	6	27	7.2	0.3	33	85	56.6	7.5	7	44	0.05
93K15	951207	10	403635	6092971		uTrTt	0.2	0.6	10	83	130	1.70	2	227	230	10	28	8.4	0.2	43	98	38.8	8.0	6	42	0.05
93K15	951208	10	400251	6094866		uTrTt	0.2	0.2	13	55	220	2.00	2	413	170	2	35	1.8	0.3	60	63	14.2	7.6	4	36	0.05
93K15	951209	10	399673	6093033		uTrTt	0.2	0.2	3	37	80	0.30	2	58	90	8	11	4.0	0.2	20	73	46.4	8.0	6	40	0.05
93K15	951210	10	403243	6090647		uTrTt	0.2	1.2	4	70	100	0.40	2	48	140	16	20	10.0	0.6	34	85	50.7	8.3	6	46	0.08
93K15	951212	10	402885	6091061		uTrTt	0.2	2.0	10	165	110	0.85	2	391	550	9	27	15.5	1.2	37	135	68.9	8.2	5	50	0.05
93K15	951213	10	400709	6087608		uTrTt	0.2	0.5	4	40	100	0.45	2	132	190	5	17	1.8	0.3	17	55	44.9	8.0	5	34	0.05
93K15	951214	10	403118	6085529		uTrTt	0.2	0.5	4	90	180	0.20	2	47	160	20	11	4.4	0.2	14	122	72.9	8.0	5	28	0.05
93K15	951215	10	403472	6081807		uTrTt	0.3	0.4	12	69	240	3.00	2	585	170	7	37	4.7	0.4	58	130	31.6	8.3	6	44	0.05
93K15	951216	10	401545	6081971		uTrTt	0.2	1.1	16	78	210	7.00	3	16000	230	11	44	7.0	0.5	86	148	34.0	8.3	6	42	0.05
93K15	951217	10	400404	6082117		uTrTt	0.2	0.4	11	66	370	3.20	3	524	240	8	37	4.8	0.4	59	138	33.0	8.0	2	46	0.05
93K15	951218	10	399606	6082474		uTrTt	0.2	0.8	8	65	300	1.10	3	164	230	10	32	5.3	0.5	32	126	55.3	8.0	2	48	0.05
93K16	951219	10	403876	6072939		muTrTs	0.2	0.8	7	40	310	1.70	2	320	120	8	28	7.6	0.4	28	150	64.3	8.0	2	64	0.05
93K16	951220	10	405319	6071912		uTrTt	0.2	0.6	8	46	340	1.60	2	840	130	12	33	7.3	0.2	37	139	50.0	7.6	3	54	0.06
93K16	951222	10	405962	6071516		uTrTt	0.2	0.7	7	48	320	1.70	2	860	140	10	35	7.2	0.3	38	158	52.2	8.2	3	54	0.07
93K16	951224	10	406427	6069844		muTrTs	0.2	0.6	13	81	360	2.10	2	308	210	9	59	5.6	0.2	51	183	47.6	8.3	4	48	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
93K16	951225	10	407145	6069809	10	muTrTs	0.2	1.0	12	75	330	2.30	3	521	170	7	52	6.3	0.6	57	200	47.8	7.9	4	46	0.05
93K16	951226	10	407799	6071164		uTrTt	0.2	0.3	6	41	240	2.80	2	487	120	5	25	3.2	0.4	40	127	55.7	7.4	3	58	0.05
93K16	951227	10	407803	6071175		uTrTt	0.2	0.5	7	42	250	3.00	2	535	140	4	26	3.3	0.3	46	141	58.4	8.2	3	56	0.05
93K16	951228	10	410019	6071286		uTrTt	0.2	0.8	6	39	250	1.10	2	203	150	7	31	1.5	0.2	32	142	52.6	8.3	3	64	0.05
93K16	951229	10	409401	6072171		uTrTt	0.2	1.2	10	87	250	2.90	2	290	230	14	26	9.5	0.4	58	162	69.5	8.2	4	60	0.05
93K16	951230	10	409600	6072518	10	uTrTt	0.2	0.7	9	76	260	1.90	3	160	160	11	31	6.5	0.5	45	158	55.4	8.1	3	56	0.05
93K16	951231	10	411645	6072371		uTrTt	0.2	0.6	7	66	270	0.85	2	152	160	8	34	3.2	0.4	28	127	51.2	8.0	2	50	0.05
93K16	951232	10	412527	6072664		uTrTt	0.2	0.6	10	54	310	1.50	3	208	180	5	35	2.4	0.4	42	126	37.3	7.9	3	60	0.05
93K16	951233	10	412317	6070587		uTrTt	0.2	1.0	11	58	290	0.95	3	154	160	3	36	4.8	0.3	38	186	60.3	7.7	4	52	0.05
93K16	951234	10	413060	6070026		uTrTt	0.2	0.8	11	69	290	1.50	2	248	200	3	43	2.5	0.8	40	160	53.3	7.7	3	44	0.05
93K16	951235	10	411663	6069820	10	uTrTt	0.2	1.3	12	74	270	2.00	3	322	210	3	42	3.6	0.6	45	155	47.3	7.7	2	62	0.05
93K09	951236	10	418500	6043999		PTCCu	0.2	0.7	13	37	290	2.30	3	238	120	2	137	0.4	0.2	40	104	33.1	8.2	3	36	0.05
93K09	951237	10	416501	6045737		PTCCu	0.2	1.2	11	37	330	2.30	3	445	100	2	60	0.8	0.4	46	151	32.0	8.0	3	56	0.05
93K09	951238	10	420762	6047347		PTCCu	0.2	1.9	11	49	310	2.00	4	232	100	2	153	1.0	0.4	42	139	39.9	8.2	4	32	0.05
93K09	951239	10	418923	6048161		PTCCvs	0.2	0.3	15	27	400	2.20	5	318	210	3	88	0.4	0.2	45	118	6.8	7.9	4	50	0.05
93K09	951240	10	415632	6051133	10	PTCCvs	0.2	0.2	20	53	440	3.60	11	547	160	3	58	0.2	0.3	75	152	6.9	7.9	4	52	0.05
93K09	951242	10	413314	6050963		PTCCvs	0.2	0.2	10	18	300	1.40	4	206	300	3	42	0.2	0.4	31	77	5.4	7.4	4	56	0.05
93K09	951243	10	410161	6052966		PTCCu	0.2	0.2	2	17	220	0.15	2	192	50	6	10	2.5	0.6	10	53	36.5	7.2	36	88	0.05
93K09	951244	10	411319	6054595		TrJd	0.2	2.0	7	39	270	0.80	2	649	250	8	71	15.0	0.4	23	201	72.0	7.5	13	68	0.05
93K09	951245	10	411319	6054595		TrJd	0.2	2.1	7	38	320	1.10	3	755	290	7	75	13.5	0.2	23	202	73.0	7.4	14	66	0.05
93K09	951246	10	414358	6056275	10	muTrTs	0.2	0.4	10	25	360	1.80	4	284	140	2	27	0.5	0.2	44	130	21.8	7.1	6	64	0.05
93K09	951247	10	415499	6056223		muTrTs	0.2	0.7	4	28	310	0.60	2	143	140	3	20	1.9	0.3	18	86	59.5	7.5	6	56	0.05
93K09	951248	10	413068	6057855		muTrTs	0.2	0.2	14	57	350	3.00	4	327	160	3	54	1.1	0.4	51	113	15.6	7.9	3	46	0.05
93K09	951249	10	412431	6056273		muTrTs	0.2	0.2	8	37	300	1.20	2	190	110	13	66	5.6	0.2	24	88	46.1	8.5	7	70	0.05
93K09	951250	10	408981	6057654		PTCCvs	0.2	0.2	5	29	290	0.20	2	293	40	23	163	10.0	0.2	24	37	14.3	7.8	13	50	0.08
93K09	951251	10	406288	6058784	10	PTCCvs	0.2	1.3	24	70	330	3.90	2	331	410	3	525	4.6	0.3	58	156	36.3	7.7	8	46	0.05
93K09	951252	10	403871	6061503		PTCCvs	0.2	0.5	13	54	270	2.90	3	262	150	3	66	3.5	0.3	47	138	54.2	7.5	7	52	0.05
93K10	951253	10	403278	6060171		PTCCvs	0.2	2.0	6	41	260	0.60	2	90	170	6	222	4.1	0.2	23	98	60.8	7.9	5	46	0.05
93K10	951255	10	400486	6064204		PTCCvs	0.2	0.2	15	42	420	2.50	7	485	70	4	44	0.2	0.2	55	95	5.3	7.9	3	44	0.05
93K10	951256	10	398129	6067372		PTCCvs	0.2	0.7	14	78	360	2.60	6	445	130	4	58	1.5	0.3	63	144	22.7	7.7	3	42	0.05
93K15	951257	10	397713	6068533	10	PTCCvs	0.2	0.5	17	68	400	3.70	5	510	140	4	58	1.1	0.2	73	148	15.4	7.7	3	42	0.05
93K15	951258	10	399185	6070132		muTrTs	0.2	0.2	8	32	350	0.60	3	344	60	3	27	0.9	0.2	24	119	73.2	7.2	2	46	0.05
93K15	951259	10	395230	6073068		muTrTs	0.2	0.5	13	52	340	2.30	2	249	120	4	36	1.5	0.2	61	204	50.8	7.9	4	56	0.05
93K15	951260	10	392141	6075584		muTrTs	0.2	0.3	9	52	360	1.10	3	516	160	5	33	1.4	0.2	40	122	72.7	7.2	3	44	0.05
93K15	951262	10	391851	6079559		muTrTs	0.2	4.0	8	56	330	2.50	2	563	170	22	50	12.5	0.2	59	347	56.9	8.0	3	64	0.05
93K15	951263	10	389429	6080022	10	muTrTs	0.2	0.6	5	30	270	0.60	2	213	80	6	25	1.8	0.2	22	57	35.4	8.3	2	62	0.57
93K15	951264	10	385404	6081684		PTCCl	0.2	0.2	2	24	200	4.10	2	2640	50	7	17	1.3	0.2	12	89	40.1	8.3	2	54	0.13
93K15	951265	10	385411	6081691		PTCCl	0.2	0.2	2	26	270	1.90	6	2630	60	5	22	1.1	0.2	12	92	41.8	8.2	2	52	0.14
93K15	951266	10	385089	6084460		muTrTs	0.2	0.6	9	39	400	1.40	3	484	140	3	23	1.8	0.2	51	110	28.1	8.2	2	56	0.07
93K15	951268	10	382816	6086529		muTrTs	0.2	0.6	6	49	310	0.65	2	137	140	10	14	7.1	0.2	16	170	82.8	7.9	4	48	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
	93K15 951269	10	382930	6086982		muTrTs	0.2	0.3	6	47	250	5.40	2	3700	100	12	17	4.4	0.3	44	94	47.2	8.0	2	50	0.14
	93K15 951270	10	382450	6087168		muTrTs	0.2	0.6	7	66	310	1.30	2	258	120	17	32	5.8	0.3	25	118	67.3	8.4	2	48	0.09
	93K15 951271	10	381495	6087890		muTrTs	0.2	0.5	9	38	360	1.10	3	192	110	2	28	0.6	0.2	35	96	43.3	7.9	1	46	0.05
	93K15 951272	10	389098	6084309		muTrTs	0.2	0.9	5	38	330	0.75	2	645	200	10	22	1.3	0.2	27	74	60.6	8.4	1	58	0.05
	93K15 951273	10	395058	6085069		uTrTt	0.2	1.6	18	69	320	7.20	3	2250	350	4	52	2.0	0.4	96	184	25.3	7.7	3	46	0.05
	93K15 951274	10	396111	6082934		uTrTt	0.3	20.0	7	82	270	1.30	2	168	310	12	35	1.8	0.4	24	2600	58.9	8.0	10	68	0.05
	93K15 951275	10	397608	6084198		uTrTt	0.2	1.2	7	54	270	1.10	2	129	210	11	30	3.8	0.2	29	160	60.3	7.8	4	50	0.05
	93K15 951276	10	398448	6084449		uTrTt	0.2	0.3	17	86	310	4.20	3	351	200	8	39	2.2	0.3	96	106	25.3	8.2	4	40	0.05
	93K15 951277	10	398537	6083749		uTrTt	0.2	1.0	18	114	330	4.30	3	328	320	6	45	3.3	0.5	115	144	33.3	7.8	3	50	0.05
	93K16 951278	10	403937	6083036		uTrTt	0.2	0.4	12	128	350	2.00	3	251	250	2	49	2.0	0.3	70	86	21.7	8.0	3	48	0.05
	93K15 951279	10	397911	6087640		uTrTt	0.2	0.6	9	46	320	0.90	2	215	190	2	27	1.6	0.2	37	93	30.4	8.1	3	40	0.05
	93K15 951280	10	393857	6090337		uTrTt	0.2	1.1	13	68	300	2.10	3	306	380	4	41	1.9	0.2	57	134	37.4	7.9	2	64	0.05
	93K15 951282	10	391951	6089594		uTrTt	0.2	1.0	6	91	240	0.80	2	74	430	9	37	3.8	0.2	32	116	50.6	7.6	3	48	0.05
	93K15 951283	10	390236	6088174	10	uTrTt	0.2	0.5	5	45	290	0.65	2	76	90	7	40	1.8	0.2	24	149	68.5	7.4	3	56	0.05
	93K15 951284	10	390232	6088175	20	uTrTt	0.2	0.7	7	50	300	0.80	2	90	130	8	40	2.3	0.2	30	135	67.1	8.2	3	50	0.05
	93K15 951285	10	389228	6089256		uTrTt	0.2	0.9	8	49	290	0.95	2	234	180	5	33	1.7	0.2	34	146	66.2	7.8	2	48	0.05
	93K15 951286	10	390045	6089996		uTrTt	0.2	1.1	10	81	330	1.30	2	161	340	4	38	4.1	0.2	53	115	48.5	7.5	4	62	0.05
	93K15 951287	10	389633	6091868		uTrTt	0.2	1.0	12	90	320	3.60	2	247	210	6	46	4.7	0.2	64	149	32.9	7.9	3	48	0.05
	93K15 951288	10	392395	6095327		uTrTt	0.2	0.6	12	32	320	3.00	2	1430	290	3	36	0.9	0.2	57	75	24.5	8.0	2	40	0.05
	93K15 951290	10	393565	6095804		uTrTt	0.2	1.5	10	60	240	2.10	3	225	320	39	53	1.4	0.2	38	109	40.0	8.2	12	84	0.08
	93K15 951291	10	389650	6094053		uTrTt	0.2	0.2	6	35	320	0.80	2	236	90	9	26	9.5	0.2	35	40	6.0	7.9	2	38	0.05
	93K15 951292	10	387914	6094350		uTrTt	0.2	0.6	6	90	300	1.00	2	178	140	13	42	6.5	0.2	42	94	26.9	8.1	2	38	0.07
	93K15 951293	10	387136	6093417		uTrTt	0.2	0.4	3	42	330	0.40	2	124	50	10	19	5.8	0.2	28	39	11.2	7.9	2	36	0.05
	93K15 951294	10	383671	6093217		uTrTt	0.2	0.5	2	27	390	0.30	2	78	70	12	24	1.2	0.2	12	153	70.3	7.5	2	44	0.05
	93K15 951295	10	382865	6095648		uTrTt	0.2	1.0	21	75	420	8.40	6	960	600	3	52	1.5	0.3	93	143	25.3	7.4	2	36	0.05
	93K15 951296	10	373017	6095504		PTrCCl	0.2	0.5	14	39	360	2.40	5	402	210	2	58	1.0	0.2	62	101	9.1	8.0	2	42	0.05
	93K15 951297	10	374878	6094515		PTrCCl	0.2	0.2	16	43	360	4.20	5	4800	290	2	59	1.2	0.2	73	110	11.0	7.9	2	42	0.05
	93K15 951298	10	375932	6092734		PTrCCl	0.2	0.4	7	49	440	0.95	2	369	90	14	30	1.8	0.2	32	171	63.3	7.8	1	44	0.05
	93K15 951299	10	375544	6089507		PTrCCl	0.2	0.4	3	31	360	2.00	2	1100	50	12	14	3.7	0.2	30	96	35.3	8.5	1	38	0.17
	93K15 951300	10	376658	6089071		PTrCCl	0.2	0.6	4	34	370	0.50	2	255	50	9	15	4.3	0.2	24	149	61.8	8.3	1	36	0.18
	93K15 951302	10	374786	6088911	10	PTrCCl	0.2	0.2	3	18	320	0.75	2	598	40	3	11	0.9	0.2	20	77	47.1	8.4	1	36	0.16
	93K15 951303	10	374786	6088911	20	PTrCCl	0.2	0.2	3	20	330	0.65	2	425	40	4	14	1.0	0.2	28	99	41.3	8.2	1	38	0.12
	93K15 951304	10	374737	6089488		PTrCCl	0.2	2.0	7	33	450	0.60	3	508	70	3	17	1.1	0.2	25	244	76.6	8.0	1	28	0.05
	93K15 951306	10	374313	6089556		PTrCCl	0.2	0.9	2	16	250	0.85	2	65	50	5	12	5.8	0.2	29	48	21.0	8.3	3	48	0.84
	93K15 951307	10	372944	6089033		PTrCCl	0.2	0.7	8	30	320	1.60	3	473	120	3	21	0.9	0.3	39	92	41.1	8.3	1	54	0.05
	93K15 951308	10	373874	6088126		PTrCCs	0.2	0.9	7	50	360	0.75	5	148	160	3	28	1.8	0.2	37	73	50.4	7.5	2	52	0.05
	93K15 951309	10	373623	6087297		PTrCCs	0.2	1.5	11	78	370	2.40	5	466	170	3	49	0.9	0.3	55	175	37.0	7.5	4	44	0.05
	93K15 951310	10	375902	6087045		PTrCCs	0.2	0.2	3	23	230	2.00	2	318	30	6	7	1.7	0.2	38	29	15.5	8.4	2	36	0.66
	93K15 951311	10	376876	6084477		PTrCCs	0.2	1.8	7	105	340	1.20	4	375	290	3	36	4.1	0.4	48	71	63.4	8.2	2	58	0.37
	93K15 951312	10	379779	6085733		PTrCCl	0.2	0.5	5	25	250	8.50	2	517	70	5	13	3.6	0.2	51	68	30.3	8.2	2	32	0.48

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 %	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 %	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
	93K15 951313	10	394278	6081890		uTrTt	0.2	1.0	8	29	270	1.50	3	198	130	2	27	1.6	0.2	40	105	40.6	7.9	9	72	0.05
	93K15 951314	10	396130	6080322		uTrTt	0.2	2.0	10	62	300	1.40	3	190	200	3	40	3.1	0.2	43	169	53.3	7.9	3	62	0.05
	93K15 951315	10	395434	6078190		muTrTs	0.2	1.5	9	45	310	1.80	3	695	190	3	35	2.3	0.2	48	150	38.8	8.2	3	62	0.05
	93K15 951316	10	396895	6078570		muTrTs	0.2	2.1	8	55	270	1.50	2	146	180	13	40	11.5	0.2	34	212	60.4	8.1	6	64	0.05
	93K15 951317	10	398907	6078151		uTrTt	0.2	1.6	10	54	280	2.30	2	121	140	11	44	9.5	0.3	37	199	68.4	8.0	3	60	0.10
	93K15 951318	10	400468	6076481		uTrTt	0.2	1.1	9	30	320	1.60	2	478	150	2	28	2.4	0.2	45	125	37.1	7.8	3	76	0.05
	93K15 951319	10	399161	6075391		muTrTs	0.2	1.8	15	52	290	2.00	3	215	140	7	50	1.7	0.2	61	192	49.6	8.1	4	58	0.05
	93K09 951320	10	405068	6067156		muTrTs	0.2	0.5	21	62	500	3.20	11	546	90	3	54	0.2	0.2	65	140	6.0	8.1	4	44	0.05
	93K09 951322	10	410315	6066939		muTrTs	0.4	0.8	11	106	340	1.40	6	508	170	55	57	6.8	0.4	40	220	56.5	8.3	6	88	0.27
	93K09 951323	10	412405	6064103	10	muTrTs	0.2	0.5	8	37	310	1.50	2	319	110	8	31	4.7	0.2	23	147	62.6	8.0	4	60	0.15
	93K09 951324	10	412405	6064103	20	PTTrCCs	0.2	0.5	8	38	260	1.50	2	408	120	8	34	6.1	0.2	26	154	63.6	8.4	4	62	0.16
	93K10 951325	10	395102	6056781		PTTrCCs	0.2	0.4	14	38	310	2.90	7	347	70	2	45	0.3	0.2	47	183	16.6	7.7	3	78	0.05
	93K10 951326	10	393580	6063977		PTTrCCs	0.2	0.3	4	19	240	0.85	2	128	60	5	18	2.9	0.2	8	164	86.3	7.8	2	62	0.05
	93K10 951327	10	394287	6064897		PTTrCCl	0.2	0.4	7	22	210	0.45	2	260	40	6	14	0.9	0.2	14	146	88.1	7.8	1	72	0.16
	93K10 951328	10	391795	6064971		PTTrCCs	0.2	0.5	7	28	330	0.85	5	510	50	8	32	0.9	0.2	32	120	62.4	7.8	2	80	0.05
	93K10 951329	10	391626	6064264		PTTrCCs	0.2	0.5	8	37	300	1.60	3	1050	50	8	31	1.1	0.2	41	140	53.5	8.0	2	74	0.05
	93K10 951330	10	390338	6064459		PTTrCCs	0.2	1.1	28	67	280	3.90	6	920	90	6	48	1.1	0.2	66	409	50.5	7.1	2	44	0.05
	93K10 951331	10	389399	6064769		PTTrCCs	0.2	1.3	15	61	270	2.50	11	335	90	3	49	0.3	0.5	86	222	24.6	6.8	2	38	0.05
	93K10 951333	10	389910	6065671		PTTrCCs	0.2	0.9	8	39	280	0.60	3	151	70	5	36	0.4	0.4	41	186	66.2	6.9	1	34	0.05
	93K10 951334	10	388107	6065681		PTTrCCs	0.2	3.3	10	44	260	1.30	11	228	90	3	36	0.3	0.2	53	256	22.8	7.2	3	30	0.05
	93K10 951335	10	390030	6066333		PTTrCCs	0.2	0.2	4	19	290	1.40	2	3560	30	23	11	0.2	0.2	21	97	37.1	8.2	2	110	0.07
	93K10 951336	10	390617	6066306		PTTrCCs	0.2	0.2	4	18	290	1.80	2	6830	30	31	11	0.3	0.2	23	128	41.3	8.3	2	110	0.08
	93K10 951337	10	391716	6066236		PTTrCCs	0.2	0.2	2	14	310	1.50	2	1310	40	58	6	0.4	0.2	15	111	39.0	8.1	3	120	0.07
	93K10 951338	10	391814	6066875		PTTrCCs	0.2	0.4	4	21	220	0.95	2	228	30	5	10	0.5	0.2	22	234	73.0	8.1	2	70	0.05
	93K10 951339	10	390749	6066575		PTTrCCs	0.2	0.6	4	21	260	1.30	2	509	40	24	13	0.3	0.2	22	181	51.3	8.4	2	110	0.06
	93K10 951340	10	390074	6066778		PTTrCCs	0.2	0.3	3	18	300	1.20	2	1100	20	32	10	0.2	0.2	21	148	43.3	8.3	2	110	0.06
	93K10 951342	10	388662	6066768		PTTrCCs	0.2	0.2	6	22	300	4.40	3	1300	30	27	13	0.2	0.2	23	80	42.8	8.1	3	130	0.26
	93K10 951343	10	388677	6066796		PTTrCCs	0.2	0.2	10	24	290	10.50	2	1500	40	3	20	0.2	0.2	35	68	22.2	8.0	1	120	0.36
	93K10 951344	10	388687	6067205		PTTrCCs	0.2	0.9	10	42	290	0.80	7	602	50	3	28	0.4	0.2	41	344	61.7	7.5	1	28	0.05
	93K10 951345	10	386433	6066608		PTTrCCs	0.2	1.4	11	57	310	1.00	7	426	70	2	38	0.4	0.2	58	282	59.2	7.2	1	34	0.05
	93K10 951346	10	385908	6067820		PTTrCCs	0.2	0.4	6	31	320	1.20	3	720	40	19	16	0.3	0.2	32	219	57.3	8.5	2	92	0.05
	93K10 951347	10	386108	6068088	10	PTTrCCs	0.2	0.7	8	30	340	0.90	5	211	40	11	24	0.2	0.2	33	164	49.6	8.3	1	90	0.05
	93K10 951348	10	386110	6068094	20	PTTrCCs	0.2	0.9	9	27	340	0.85	5	228	40	13	24	0.3	0.2	32	195	51.3	8.3	1	92	0.05
	93K10 951349	10	387199	6067796		PTTrCCs	0.2	0.4	6	21	350	1.70	2	5050	30	37	13	0.3	0.2	26	112	34.4	8.5	1	110	0.08
	93K10 951350	10	387674	6067950		PTTrCCs	0.2	0.4	3	19	310	2.50	2	1150	30	33	11	0.2	0.2	23	131	38.0	8.3	2	100	0.08
	93K10 951351	10	389725	6067822		PTTrCCs	0.2	0.9	13	46	320	0.80	6	215	50	4	33	1.0	0.2	51	182	60.7	7.9	1	36	0.05
	93K10 951352	10	392854	6067825		PTTrCCs	0.2	2.6	19	59	260	8.00	2	680	100	4	50	0.8	1.2	88	595	48.8	7.5	1	34	0.05
	93K15 951353	10	394489	6069223		PTTrCCb	0.2	1.3	10	64	260	1.70	3	468	160	4	47	1.5	0.3	55	178	43.6	7.9	4	50	0.05
	93K15 951354	10	392373	6068493		PTTrCCs	0.2	1.3	8	58	240	1.70	2	528	100	5	38	1.2	0.5	44	202	61.6	7.8	4	36	0.05
	93K15 951355	10	391532	6068893		PTTrCCs	0.2	1.8	11	75	290	2.00	4	327	200	4	59	1.0	0.6	59	306	43.6	7.6	5	36	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
93K15	951356	10	390884	6068869		PTCCs	0.2	0.5	3	20	260	0.45	2	146	60	5	13	2.3	0.2	10	148	86.9	8.2	2	48	0.05
93K15	951357	10	389467	6068706		PTCCs	0.2	0.5	3	28	220	1.20	2	508	30	10	20	2.0	0.2	23	180	37.5	8.4	2	40	0.06
93K15	951359	10	388425	6068998		PTCCs	0.2	0.4	6	36	260	6.20	2	3850	60	8	29	1.3	0.2	29	141	53.9	8.5	3	74	0.05
93K15	951360	10	388091	6069478		PTCCs	0.2	0.2	6	24	220	14.00	2	5300	30	3	19	0.8	0.2	27	98	48.9	8.2	2	68	0.05
93K15	951362	10	385053	6069081		PTCCs	0.2	0.3	17	46	320	3.20	12	450	80	6	49	0.2	0.3	66	179	18.7	8.2	1	62	0.05
93K15	951363	10	385747	6072170	10	PTCCs	0.2	0.6	4	27	340	0.40	2	765	30	8	15	1.4	0.2	12	149	65.0	8.2	3	52	0.12
93K15	951364	10	385764	6072190	20	PTCCs	0.2	0.7	4	26	400	0.40	5	572	30	9	17	1.4	0.2	14	142	75.3	8.1	3	48	0.10
93K15	951365	10	388727	6073446		PTCCs	0.2	0.8	12	50	380	1.70	3	271	110	3	43	1.2	0.2	43	236	52.1	8.1	3	40	0.05
93K15	951367	10	390114	6075525		PTCCl	0.2	0.4	8	30	360	0.80	2	158	80	7	30	2.1	0.2	19	132	77.9	8.0	4	58	0.05
93K15	951368	10	388642	6075978		PTCCl	0.2	0.3	6	24	370	0.45	3	104	70	3	34	1.2	0.2	15	108	82.9	8.1	4	54	0.05
93K15	951369	10	384032	6078350		PTCCl	0.2	1.3	11	52	390	2.30	7	328	100	5	36	0.6	0.2	56	182	29.8	7.6	5	48	0.05
93K15	951370	10	382173	6077327		PTCCs	0.2	0.6	11	58	220	6.30	2	1060	130	3	42	0.6	0.2	54	144	35.8	7.5	6	50	0.05
93K15	951371	10	381586	6077400		PTCCs	0.2	0.4	14	89	180	5.00	5	266	130	8	68	1.1	0.4	55	233	44.7	7.8	6	52	0.05
93K15	951372	10	381105	6077261		PTCCs	0.2	0.2	10	33	340	1.50	2	583	80	6	31	0.5	0.2	36	151	51.9	7.9	3	52	0.05
93K15	951373	10	380955	6077929		PTCCs	0.2	0.2	10	39	350	1.50	4	569	80	5	38	0.6	0.2	44	144	51.1	8.2	3	54	0.05
93K15	951374	10	379822	6079177		PTCCl	0.2	1.9	10	47	430	1.20	4	305	80	3	34	0.5	0.2	59	282	51.0	7.2	1	30	0.05
93K15	951375	10	379122	6080163		PTCCl	0.2	0.8	22	53	360	4.50	3	1170	70	6	45	1.0	0.5	60	322	55.4	7.4	2	32	0.05
93K15	951376	10	378406	6079733		PTCCl	0.2	1.6	17	66	320	5.10	6	1040	70	10	45	0.7	0.6	135	480	39.9	7.2	2	36	0.05
93K15	951377	10	377638	6079535		PTCCs	0.2	0.2	11	32	380	4.30	3	594	60	2	36	0.2	0.2	45	93	16.8	8.5	3	66	0.05
93K15	951378	10	376209	6079890		PTCCs	0.2	0.3	3	25	330	1.10	2	1400	30	13	11	0.8	0.2	18	206	70.5	7.9	2	40	0.05
93K15	951379	10	374171	6080061		PTCCs	0.2	0.2	11	17	370	1.30	2	221	40	2	33	0.2	0.2	41	61	2.2	7.9	3	40	0.05
93K15	951380	10	377326	6077812		PTCCs	0.2	0.6	14	48	220	4.60	4	1280	70	5	44	1.2	0.3	66	125	33.3	8.2	3	88	0.05
93K15	951382	10	378164	6078195		PTCCs	0.2	0.6	15	57	470	2.80	8	306	90	3	50	0.2	0.2	76	174	11.3	7.6	2	36	0.05
93K15	951383	10	379362	6076917		PTCCs	0.2	1.0	9	53	380	2.40	2	1700	110	6	36	1.2	0.5	37	317	65.5	7.7	3	48	0.05
93K15	951384	10	376981	6077319	10	PTCCs	0.2	0.5	12	43	400	5.20	3	1360	60	6	38	0.9	0.2	65	126	26.5	8.3	4	86	0.05
93K15	951385	10	376985	6077339	20	PTCCs	0.2	0.6	17	54	370	4.40	4	920	70	5	48	0.9	0.2	72	128	29.9	8.1	4	88	0.05
93K15	951386	10	375774	6076557		PTCCs	0.2	1.0	15	79	440	2.50	8	288	110	4	57	0.8	0.4	88	293	40.7	7.2	5	36	0.05
93K15	951387	10	374462	6076133		PTCCs	0.2	0.4	12	49	400	4.40	3	1500	70	5	42	1.0	0.2	59	144	32.1	8.2	2	70	0.05
93K15	951388	10	374676	6074627		JKgd	0.2	0.6	14	80	310	4.40	7	241	80	7	66	1.8	0.2	61	136	12.5	7.8	10	120	0.05
93K15	951389	10	373525	6070168		JKgd	0.2	0.4	18	109	470	3.80	5	1180	200	2	71	1.0	0.7	92	168	34.4	7.7	3	42	0.05
93K15	951390	10	373666	6069740	10	PTCCs	0.2	0.3	16	105	470	3.70	3	1150	180	2	76	1.1	0.6	87	164	36.3	7.7	3	38	0.05
93K15	951391	10	373973	6069357		PTCCs	0.2	0.5	12	106	440	2.60	2	385	100	4	104	2.9	0.6	57	998	43.9	7.3	4	64	0.05
93K15	951392	10	374625	6069100		JKgd	0.2	0.3	15	110	400	5.10	2	358	130	5	86	2.4	0.5	77	187	27.7	7.7	4	58	0.05
93K10	951394	10	373455	6067947		PTCCs	0.2	2.0	18	77	410	2.80	5	444	130	3	97	3.6	0.2	57	220	27.1	7.7	6	58	0.05
93K10	951395	10	373997	6067144		PTCCs	0.2	2.1	17	84	420	3.00	5	416	140	4	103	3.9	0.2	59	215	29.2	7.5	6	78	0.05
93K10	951396	10	374944	6066809		PTCCs	0.2	2.0	17	77	470	2.90	6	478	130	3	98	3.3	0.6	58	196	27.3	7.7	6	54	0.05
93K10	951397	10	375778	6066071		PTCCs	0.2	1.4	11	48	250	2.00	5	444	90	2	61	2.4	0.4	42	130	23.0	7.6	6	48	0.05
93K10	951398	10	373166	6062666		PTCCs	0.2	1.3	14	100	200	2.50	5	780	150	5	209	4.6	0.6	50	150	49.0	8.1	6	42	0.05
93K10	951399	10	376995	6063618		PTCCs	0.2	0.4	6	36	160	1.00	2	249	70	3	50	3.0	0.2	24	136	67.6	8.0	5	48	0.05
93K15	951400	10	377433	6069068		JKgd	0.2	0.5	8	110	170	1.90	4	1240	120	7	84	3.4	0.8	41	152	43.9	7.8	7	62	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 %	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 %	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
	93K15 951402	10	378635	6070229		PTrCCs	0.2	0.3	9	40	310	1.70	6	216	70	2	36	0.4	0.2	46	121	19.0	7.8	8	66	0.05
	93K15 951403	10	376517	6071410	10	JKgd	0.2	0.7	8	50	200	1.50	3	354	110	3	36	0.3	0.2	45	170	38.5	7.8	6	42	0.05
	93K15 951404	10	376517	6071410	20	JKgd	0.2	0.6	7	52	200	1.50	3	337	120	4	38	0.3	0.2	47	140	36.4	8.0	5	44	0.05
	93K15 951405	10	377611	6071672		PTrCCs	0.2	0.3	7	79	130	4.40	2	1220	120	13	68	1.5	0.2	48	142	50.3	8.0	5	64	0.05
	93K15 951406	10	378000	6073260		PTrCCs	0.2	1.2	14	74	270	2.10	11	362	90	4	50	0.9	0.6	89	183	32.5	7.5	3	40	0.05
	93K15 951407	10	379968	6074029		PTrCCs	0.2	1.1	6	43	150	2.20	2	1600	80	2	28	0.9	0.3	42	433	67.8	7.2	1	28	0.05
	93K15 951408	10	381045	6075115		PTrCCs	0.2	1.3	7	68	200	1.30	7	416	100	4	41	0.8	0.9	89	305	56.5	7.3	1	28	0.05
	93K15 951410	10	381595	6074664		PTrCCs	0.2	1.3	12	62	260	1.10	6	282	50	3	49	0.7	0.3	59	265	45.6	7.2	1	30	0.05
	93K15 951411	10	382398	6074193		PTrCCs	0.2	2.0	12	71	320	2.40	12	276	150	5	58	0.2	0.8	76	230	17.7	6.9	5	28	0.05
	93K15 951412	10	381902	6073554		PTrCCs	0.2	1.2	11	66	300	2.20	10	304	70	3	48	0.3	0.6	90	232	22.6	7.1	5	30	0.05
	93K15 951413	10	382908	6072682		PTrCCs	0.2	0.9	11	60	310	2.60	11	301	120	2	53	0.4	0.2	74	180	15.9	5.6	3	28	0.05
	93K15 951414	10	383661	6072942		PTrCCs	0.2	1.1	11	68	320	2.20	10	299	90	3	53	0.3	0.6	73	190	17.9	7.0	2	30	0.05
	93K15 951415	10	384202	6072628		PTrCCs	0.2	0.8	13	42	260	2.50	8	265	80	2	45	0.2	0.2	61	153	14.9	7.8	2	50	0.05
	93K09 951416	10	420492	6067189		uTrTt	0.2	1.4	12	94	210	1.80	4	314	400	3	61	2.5	0.6	52	158	40.6	7.3	6	44	0.05
	93K09 951417	10	422495	6066036		uTrTt	0.2	0.5	4	42	160	0.70	2	266	140	3	35	2.3	0.2	26	97	75.1	7.3	3	40	0.05
	93K09 951418	10	422405	6065609		uTrTt	0.2	0.7	5	33	240	1.20	6	241	120	3	28	0.5	0.2	36	74	33.4	7.3	19	40	0.05
	93K09 951419	10	421493	6064351		uTrTt	0.2	0.4	10	34	300	1.80	4	328	150	2	34	0.4	0.2	59	92	11.0	7.5	3	52	0.05
	93K09 951420	10	421077	6063590		uTrTt	0.2	1.2	11	43	230	1.60	4	795	200	3	31	1.4	0.2	42	105	34.6	7.8	5	46	0.05
	93K09 951422	10	421988	6062445		uTrTt	0.2	0.5	10	50	200	1.40	3	330	120	5	44	1.9	0.2	47	84	36.5	8.1	7	64	0.05
	93K09 951423	10	419327	6060007	10	uTrTt	0.2	0.3	5	22	120	0.40	2	224	70	3	23	1.0	0.2	9	140	83.5	7.9	5	46	0.05
	93K09 951424	10	419327	6060007	20	uTrTt	0.2	0.3	5	20	110	0.50	2	234	60	6	22	0.5	0.2	7	139	80.1	7.9	4	38	0.05
	93K09 951426	10	422158	6058759		MPCv	0.2	0.6	10	48	160	2.70	2	640	100	11	47	4.2	0.2	39	122	55.6	8.0	1	74	0.05
	93K09 951427	10	420566	6058736		uTrTt	0.2	0.5	12	50	220	1.60	4	455	80	6	49	1.6	0.2	48	137	41.5	8.4	1	58	0.05
	93K09 951428	10	419178	6059101		uTrTt	0.2	0.4	10	43	200	1.10	3	415	60	4	44	1.7	0.2	46	128	54.1	8.2	1	66	0.05
	93K09 951429	10	418065	6058258		muTrTs	0.2	0.4	9	28	160	0.75	2	616	50	2	22	0.8	0.2	25	435	75.0	7.8	1	46	0.05
	93K09 951430	10	416979	6058718		muTrTs	0.2	1.6	6	38	150	0.90	2	419	110	3	38	1.7	0.2	24	310	72.7	8.1	2	44	0.05
	93K09 951431	10	419370	6057879		muTrTs	0.2	0.6	20	54	290	4.60	8	760	90	2	49	0.3	0.2	67	177	20.4	7.8	1	40	0.05
	93K09 951432	10	422150	6057270		uTrTt	0.2	0.6	7	47	160	0.80	2	408	110	4	52	1.4	0.2	39	165	63.1	7.6	3	70	0.05
	93K09 951433	10	421707	6057262		uTrTt	0.2	0.8	4	48	180	0.65	3	272	80	6	48	1.2	0.3	27	207	82.6	7.9	2	54	0.05
	93K09 951434	10	425688	6042578		PTrCCu	0.2	0.3	21	50	170	0.90	2	130	120	3	575	0.7	0.2	30	150	42.8	8.4	2	22	0.05
	93K09 951435	10	425825	6041501		PTrCCu	0.2	0.5	17	31	160	0.60	2	146	80	4	421	0.6	0.2	22	199	61.6	8.3	2	20	0.05
	93K09 951436	10	381079	6040983		MJt	0.2	0.7	12	67	170	2.70	2	920	170	5	82	1.3	0.2	125	109	24.0	7.7	4	28	0.05
	93K10 951437	10	380191	6041166		MJt	0.2	0.3	6	63	190	1.30	2	414	100	4	52	1.2	0.2	61	71	31.2	7.6	4	30	0.05
	93K10 951438	10	376914	6041121		MJt	0.2	0.4	15	83	310	2.20	3	1400	50	3	104	1.2	0.2	94	135	17.7	7.8	3	32	0.05
	93K10 951439	10	373701	6042635		MJt	0.2	0.2	9	70	260	1.60	3	680	90	2	25	1.0	0.2	50	108	37.9	8.0	3	44	0.05
	93K10 951440	10	372868	6042484		MJt	0.2	0.2	9	57	200	1.50	3	435	100	3	21	0.8	0.2	51	95	37.1	8.2	3	40	0.05
	93K10 951442	10	373394	6043458		MJt	0.2	0.2	8	51	210	0.75	2	392	90	4	20	0.9	0.2	36	80	69.8	7.9	2	40	0.05
	93K10 951443	10	374275	6043677		MJt	0.2	0.3	12	111	190	1.60	2	980	100	9	25	2.3	0.2	57	149	57.5	8.1	1	38	0.05
	93K10 951444	10	375977	6044039	10	MJt	0.2	0.2	12	84	210	1.60	2	371	140	5	36	2.1	0.2	65	121	44.9	7.6	4	42	0.05
	93K10 951445	10	375970	6044006	20	MJt	0.2	0.2	12	80	200	1.80	2	386	130	8	36	2.0	0.2	65	121	44.9	7.6	4	40	0.05

Field Observations and Analytical Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 ppm AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 ppm GRAV	pH 0.1 GCE	SO4 1.0 ppm TURB	FW 20 ppb ION	UW 0.05 ppb LIF
93K10	951446	10	376355	6043867		MJt	0.2	0.5	12	86	190	2.20	2	467	100	14	24	2.7	0.3	64	203	58.3	7.5	8	36	0.05
93K10	951447	10	375588	6044768		MJt	0.2	0.6	13	95	230	2.40	4	322	260	5	37	1.0	0.3	75	123	28.3	7.7	6	42	0.05
93K10	951448	10	378075	6045982		KTS	0.2	0.7	7	62	210	0.95	3	189	110	2	23	3.2	0.4	39	52	38.6	7.8	5	54	0.05
93K10	951449	10	375810	6046274		KTS	0.2	0.6	13	85	230	2.50	2	769	220	5	33	1.0	0.5	84	130	28.0	7.8	5	42	0.05
93K10	951450	10	375576	6045886		MJt	0.2	0.8	16	83	240	4.40	3	1200	190	4	37	1.1	0.4	95	135	27.4	7.7	5	40	0.05
93K10	951451	10	374552	6045713		MJt	0.2	0.3	10	75	180	1.60	3	345	260	3	26	0.6	0.2	45	84	26.1	7.6	5	44	0.05
93K10	951453	10	373816	6045411		MJt	0.2	0.2	11	72	200	1.80	2	363	160	3	30	0.6	0.2	42	80	26.4	8.0	5	48	0.05
93K10	951454	10	371781	6045729		MJt	0.2	0.4	13	250	160	1.90	2	234	330	10	30	1.1	0.3	73	127	38.2	7.4	8	42	0.05
93K10	951455	10	376213	6049478		PTCCs	0.2	0.4	14	52	330	2.60	3	730	70	7	34	0.9	0.2	54	94	12.3	8.0	4	56	0.05
93K10	951456	10	374307	6048927		MJt	0.2	0.2	10	30	290	1.80	2	496	50	3	23	0.7	0.2	39	68	7.3	7.8	4	60	0.05
93K10	951457	10	372961	6048602		MJt	0.2	0.3	14	68	310	3.90	4	1460	90	5	41	1.5	0.2	67	116	18.4	7.9	4	58	0.05
93K10	951458	10	371087	6048769		MJt	0.2	0.3	13	52	310	2.80	4	610	90	3	36	1.2	0.2	56	107	15.5	8.0	4	58	0.05
93K10	951459	10	375893	6051788		PTCCs	0.2	2.0	12	91	350	2.10	2	279	150	3	85	4.2	0.2	40	190	44.4	7.8	11	58	0.05
93K10	951460	10	374614	6052138		PTCCs	0.2	1.0	14	84	240	4.00	2	288	110	5	36	2.5	0.2	72	182	27.2	6.9	6	52	0.05
93K10	951462	10	374048	6052214		PTCCs	0.2	0.6	13	91	240	2.50	2	646	90	5	35	2.6	0.2	74	145	30.1	7.3	4	46	0.05
93K10	951463	10	373642	6053133		PTCCs	0.2	1.6	10	110	190	2.80	2	304	140	7	48	4.2	0.2	45	206	49.0	7.2	8	50	0.05
93K10	951464	10	375885	6053674	10	PTCCs	0.2	1.0	15	92	220	2.30	2	260	110	9	62	4.2	0.2	35	187	51.4	7.9	8	68	0.05
93K10	951465	10	375885	6053674	20	PTCCs	0.2	0.8	12	72	190	1.50	2	224	120	8	55	3.8	0.3	29	155	60.6	8.0	8	86	0.05
93K10	951466	10	381989	6049251		PTCCs	0.2	0.8	9	43	210	1.40	2	572	70	6	29	1.8	0.2	38	145	56.9	8.1	7	70	0.05
93K10	951467	10	382111	6048491		PTCCs	0.2	1.0	8	44	180	1.30	2	498	80	4	28	2.0	0.2	36	160	61.6	7.7	7	64	0.05
93K10	951468	10	380160	6049013		PTCCs	0.2	1.0	6	63	190	1.40	2	378	110	5	27	2.7	0.2	28	138	55.5	7.7	9	86	0.05
93K10	951469	10	380834	6047915		PTCCs	0.2	1.0	10	74	220	1.40	2	255	150	2	34	2.9	0.4	44	131	52.4	8.0	9	84	0.05
93K10	951470	10	382202	6047580		PTCCs	0.2	0.8	8	46	190	1.00	2	262	100	2	27	3.2	0.2	34	122	61.0	7.9	10	66	0.05
93K10	951471	10	385436	6047705		PTCCs	0.2	2.2	12	63	290	1.70	6	434	70	3	36	1.2	0.4	55	125	17.7	8.0	10	88	0.18
93K10	951472	10	386036	6047461		PTCCs	0.2	0.3	6	31	120	1.20	2	235	80	5	24	1.4	0.3	18	66	73.8	8.0	27	72	0.05
93K10	951473	10	382904	6043365		PTCCs	0.2	0.4	9	37	260	1.90	2	1200	70	4	20	1.3	0.2	48	102	26.2	8.0	10	60	0.05
93K10	951474	10	382108	6043322		PTCCs	0.2	0.4	10	40	230	1.80	3	1010	70	5	25	1.4	0.2	55	114	35.4	8.1	10	58	0.05
93K10	951475	10	379340	6042500		MJt	0.2	0.2	9	54	200	1.90	2	735	110	4	48	1.1	0.2	65	103	24.7	7.8	4	40	0.05
93K10	951476	10	377608	6042105		MJt	0.2	0.3	13	92	230	4.50	2	1360	110	8	105	1.5	0.4	94	122	32.0	7.7	4	36	0.05
93K10	951477	10	378878	6041601		MJt	0.2	0.4	7	75	180	0.95	2	254	110	3	21	1.1	0.2	33	110	36.2	7.7	8	48	0.05
93K10	951479	10	380778	6042474		PTCCs	0.2	0.2	6	12	320	1.00	2	201	40	2	22	0.2	0.2	36	44	9.7	7.4	2	36	0.05
93K10	951480	10	381273	6042060		PTCCs	0.2	0.5	5	53	200	1.30	2	392	100	5	49	1.1	0.2	53	81	32.7	7.7	3	26	0.05
93K10	951482	10	384423	6041273		PTCCs	0.2	0.3	6	46	210	1.20	2	456	100	3	46	0.8	0.2	67	83	22.2	7.6	3	30	0.05
93K10	951483	10	383344	6041629		PTCCs	0.2	0.2	6	46	170	1.20	2	455	120	3	45	0.8	0.3	65	85	24.1	7.7	3	30	0.05
93K10	951485	10	382341	6041802	10	PTCCs	0.2	0.2	6	68	200	1.40	2	557	110	4	56	1.0	0.2	74	91	26.9	7.8	4	30	0.05
93K10	951486	10	382341	6041802	20	PTCCs	0.2	0.4	8	70	200	1.40	2	579	130	2	58	1.1	0.3	76	101	26.5	7.5	4	28	0.05
93K10	951487	10	382289	6042354		PTCCs	0.2	0.2	2	21	150	0.20	2	99	50	5	6	1.9	0.2	5	139	79.5	7.7	21	50	0.05
93K10	951488	10	389935	6043759		PTCCs	0.2	0.7	3	36	120	2.50	2	446	80	18	26	6.2	0.2	15	148	63.3	8.0	55	72	0.05

Regional Lake Sediment and Water Geochemistry
of Part of the
Fort Fraser Map Area
(93KF/9,10,15,16)

Open File 1996-15

Appendix B

Analytical Duplicate Data

Notes :

- Additional analytical duplicate results for Au are also reported in Appendix A as Au2.

Analytical Duplicate Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 % INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K10	951001	10	385009	6040640		PTTrCCs	4	1.0	5.9	460	30.0	38	1.2	62	13	1	3.10	19	0.30	1	81	23	4.8	13.0	0.79	0.5	0.6	4.5	1	3.3	2	15.26
93K10	951005	10	385009	6040640	10	PTTrCCs	3	1.0	5.8	450	29.0	44	1.7	76	13	2	2.90	20	0.20	1	84	19	4.7	14.0	0.92	0.5	0.7	4.4	1	3.1	2	14.84
93K16	951021	10	429136	6069599		uTrTt	1	0.4	2.5	420	10.0	18	1.7	59	5	1	1.20	8	0.20	1	27	18	1.8	10.0	0.78	0.5	0.5	2.1	1	1.4	1	18.45
93K16	951030	10	429136	6069599		uTrTt	1	0.5	3.0	400	11.0	21	1.6	77	6	2	1.40	10	0.20	1	35	18	1.9	11.0	0.90	0.6	0.5	2.4	1	1.5	1	19.28
93K16	951041	10	427358	6085098		uTrTt	2	0.4	2.8	150	18.0	10	0.5	20	5	1	0.70	3	0.20	2	20	5	0.9	4.1	0.29	0.5	0.5	0.8	1	0.9	1	11.02
93K16	951043	10	427358	6085098	20	uTrTt	2	0.5	3.3	150	19.0	9	0.5	20	5	1	0.90	3	0.20	3	12	5	0.9	3.7	0.28	0.5	0.5	0.8	1	0.9	1	8.63
93K16	951061	10	423824	6073365		uTrTt	5	0.9	6.2	570	17.0	27	2.2	92	16	1	3.40	14	0.30	2	29	41	2.8	16.0	1.20	0.5	0.5	2.9	1	2.0	1	18.86
93K16	951066	10	423824	6073365		uTrTt	4	0.9	6.8	620	18.0	26	2.1	86	17	1	3.40	14	0.30	2	42	38	3.0	16.0	1.20	0.5	0.5	3.0	1	2.0	1	18.65
93K09	951081	10	426514	6067156		uTrTt	4	0.9	2.7	820	6.7	35	2.5	130	10	2	2.50	19	0.50	1	41	49	3.8	19.0	2.09	0.5	0.6	3.5	1	1.7	2	25.76
93K09	951084	10	426514	6067156		uTrTt	5	0.9	2.4	710	6.2	34	2.3	110	8	2	2.40	17	0.40	1	16	44	3.5	17.0	1.90	0.5	0.6	3.5	1	1.6	1	22.91
93K16	951101	10	414427	6085352		uTrTt	3	0.4	2.4	220	19.0	8	0.6	36	5	1	1.30	7	0.20	1	11	8	1.4	7.4	0.59	0.5	0.5	1.3	1	1.0	1	14.31
93K16	951110	10	414427	6085352		uTrTt	3	0.4	2.5	250	19.0	12	1.0	43	6	1	1.20	6	0.20	2	11	14	1.4	7.3	0.59	0.5	0.5	1.1	1	1.0	1	15.64
93K16	951121	10	417791	6082277		EJd	5	1.0	5.3	410	24.0	19	0.8	110	8	1	1.70	11	0.20	3	19	21	2.5	11.0	0.89	0.5	0.5	1.7	1	2.3	1	17.99
93K16	951128	10	417791	6082277		EJd	6	1.1	5.5	430	26.0	23	0.8	100	11	1	1.60	12	0.20	2	26	15	2.7	11.0	0.89	0.5	0.5	1.9	1	2.5	1	16.56
93K09	951141	10	416171	6043914		PTTrCCb	4	1.0	10.0	540	61.6	23	1.2	130	14	2	3.20	12	0.30	8	94	21	2.5	12.0	1.00	0.5	0.5	2.8	1	1.8	2	21.49
93K09	951144	10	416171	6043914	20	PTTrCCb	4	1.0	10.0	500	60.7	22	1.3	120	15	2	3.30	12	0.30	7	100	24	2.5	12.0	1.00	0.5	0.6	2.5	1	1.7	1	22.81
93K16	951161	10	408553	6077351		uTrTt	2	0.7	2.3	310	15.0	15	0.8	51	6	1	1.10	8	0.20	2	13	15	1.8	10.0	0.76	0.5	0.5	1.3	1	1.0	1	17.17
93K16	951177	10	408553	6077351		uTrTt	1	0.7	2.4	280	13.0	16	0.7	39	6	1	0.90	8	0.20	2	26	11	1.7	8.2	0.71	0.5	0.5	1.0	1	0.9	1	18.04
93K16	951181	10	408209	6084525		uTrTt	3	0.7	2.5	380	15.0	27	1.0	75	5	1	1.60	11	0.30	2	30	22	2.6	14.0	0.89	0.5	0.5	1.7	1	1.5	1	17.85
93K16	951186	10	408209	6084525		uTrTt	1	0.6	2.4	340	15.0	18	1.2	65	8	1	1.60	11	0.20	1	10	19	2.6	14.0	0.87	0.5	0.5	1.6	1	1.4	1	20.70
93K16	951201	10	405886	6092882		uTrTt	4	1.3	12.0	440	25.0	13	1.1	84	16	1	3.60	12	0.20	6	10	23	2.7	14.0	0.89	0.5	0.5	2.5	1	2.0	1	14.76
93K16	951203	10	405886	6092882	10	uTrTt	5	1.2	11.0	370	22.0	19	1.9	74	11	1	3.30	12	0.20	6	33	34	2.4	14.0	0.93	0.5	0.6	2.3	1	1.9	1	15.40
93K16	951221	10	407799	6071164		uTrTt	1	1.0	6.6	360	53.1	16	0.6	81	7	1	4.50	7	0.20	3	32	5	1.7	11.0	0.39	0.5	0.5	1.2	1	0.9	1	21.27
93K16	951226	10	407799	6071164	10	uTrTt	3	1.0	6.7	360	52.9	16	0.6	51	8	1	4.20	7	0.20	3	32	5	1.7	12.0	0.39	0.5	0.5	1.4	1	0.9	1	20.31
93K09	951241	10	414358	6056275		muTrTs	1	0.7	2.7	700	7.5	35	3.3	96	12	2	2.70	15	0.20	1	32	53	3.1	17.0	1.50	0.7	0.5	3.6	1	2.2	2	23.99
93K09	951246	10	414358	6056275		muTrTs	1	0.7	3.4	650	7.0	35	2.9	88	12	2	2.80	15	0.30	1	35	41	2.9	17.0	1.40	0.6	0.5	3.5	1	2.1	2	24.26
93K15	951261	10	385404	6081684		PTTrCC1	1	0.4	2.0	750	58.2	5	0.5	20	5	1	3.80	2	0.20	2	10	5	0.4	1.0	0.05	0.5	0.5	0.4	1	0.3	1	10.75
93K15	951264	10	385404	6081684	10	PTTrCC1	1	0.4	2.7	820	62.9	5	0.5	25	5	1	3.40	2	0.20	3	23	10	0.3	1.1	0.03	0.5	0.5	0.2	1	0.4	1	10.78
93K15	951281	10	392395	6095327		uTrTt	1	1.4	10.0	830	7.7	39	1.9	160	17	2	4.00	19	0.20	1	41	34	3.8	18.0	1.50	0.6	0.6	4.0	1	2.9	2	26.39
93K15	951288	10	392395	6095327		uTrTt	1	1.4	9.5	790	7.5	42	2.3	140	19	2	3.90	19	0.20	1	55	22	3.6	18.0	1.40	0.5	0.5	3.8	1	2.8	2	22.03
93K15	951301	10	374313	6089556		PTTrCC1	1	0.2	1.6	260	25.0	5	0.5	33	5	1	1.00	2	0.20	2	10	5	0.4	1.7	0.07	0.5	0.5	0.4	1	3.2	1	19.76
93K15	951306	10	374313	6089556		PTTrCC1	1	0.3	2.1	260	28.0	5	0.5	20	5	1	1.00	2	0.20	3	10	6	0.4	1.4	0.06	0.5	0.5	0.5	1	3.7	1	22.50

Analytical Duplicate Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Au 2 ppb INAA	Sb 0.1 ppm INAA	As 0.5 ppm INAA	Ba 50 ppm INAA	Br 0.5 ppm INAA	Ce 3 ppm INAA	Cs 1 ppm INAA	Cr 5 ppm INAA	Co 1 ppm INAA	Hf 1 ppm INAA	Fe 0.01 % INAA	La 0.5 ppm INAA	Lu 0.05 ppm INAA	Mo 1 ppm INAA	Ni 20 ppm INAA	Rb 5 ppm INAA	Sm 0.1 ppm INAA	Sc 0.1 ppm INAA	Na 0.01 % INAA	Ta 0.5 ppm INAA	Tb 0.5 ppm INAA	Th 0.2 ppm INAA	W 1 ppm INAA	U 0.5 ppm INAA	Yb 0.2 ppm INAA	Wt 0.01 g
93K10	951321	10	395102	6056781		PTrCCs	1	0.8	5.1	770	6.6	38	4.0	92	19	3	4.10	17	0.40	1	38	61	3.4	21.0	1.20	0.7	0.6	4.6	1	2.4	3	20.77
93K10	951325	10	395102	6056781		PTrCCs	1	0.9	7.8	850	6.2	35	4.6	79	20	3	4.90	17	0.40	1	31	65	3.5	23.0	1.30	0.5	0.7	4.4	1	2.3	2	22.42
93K10	951341	10	388677	6066796		PTrCCs	1	0.3	319.0	2400	21.0	5	1.4	37	10	2	12.00	11	0.30	1	17	25	2.2	11.0	1.30	0.5	0.5	2.5	1	1.1	3	23.30
93K10	951343	10	388677	6066796		PTrCCs	1	0.3	316.0	2400	21.0	5	1.8	38	9	2	12.00	9	0.30	1	28	28	2.2	11.0	1.30	0.5	0.5	2.1	1	1.1	2	25.58
93K15	951361	10	382173	6077327		PTrCCs	1	0.8	12.0	980	22.0	29	2.0	74	12	1	6.80	13	0.40	1	33	37	2.9	15.0	0.72	0.5	0.5	2.7	1	1.5	3	18.00
93K15	951370	10	382173	6077327		PTrCCs	1	0.8	12.0	930	22.0	19	1.9	62	13	1	6.70	13	0.20	1	38	42	2.9	15.0	0.68	0.5	0.5	2.9	1	1.4	2	19.12
93K15	951381	10	376985	6077339		PTrCCs	3	1.3	15.0	710	41.0	30	2.1	100	20	2	5.80	17	0.40	6	61	41	3.3	18.0	1.50	0.6	0.5	3.5	1	3.1	3	25.01
93K15	951385	10	376985	6077339	20	PTrCCs	3	1.4	15.0	690	41.0	42	2.2	110	25	2	6.20	19	0.50	6	55	40	3.3	20.0	1.60	0.5	0.5	3.8	1	3.3	3	26.67
93K15	951401	10	376517	6071410		JKgd	1	0.3	4.2	500	14.0	28	1.9	62	11	1	2.30	14	0.20	2	46	33	3.7	11.0	0.71	0.5	0.5	1.9	1	1.8	2	14.39
93K15	951404	10	376517	6071410	20	JKgd	1	0.4	4.3	490	14.0	28	1.9	42	10	1	2.40	13	0.20	1	30	25	3.6	11.0	0.69	0.5	0.5	1.9	1	1.9	2	14.79
93K09	951421	10	419370	6057879		muTrTs	3	0.9	7.2	860	26.0	31	2.7	84	26	2	6.20	15	0.30	1	74	47	3.9	16.0	1.40	0.6	0.6	4.5	1	1.9	2	23.68
93K09	951431	10	419370	6057879		muTrTs	1	0.8	7.3	690	24.0	29	2.7	120	26	2	6.70	17	0.30	1	58	47	3.5	19.0	1.70	0.6	0.5	3.8	1	1.9	3	23.97
93K10	951441	10	375588	6044768		MJt	1	1.4	5.8	530	25.0	53	2.1	59	14	2	3.80	21	0.20	3	37	29	4.7	14.0	0.81	0.5	0.8	3.6	1	2.2	2	20.93
93K10	951447	10	375588	6044768		MJt	4	1.4	6.8	540	26.0	50	2.2	79	14	2	3.60	25	0.30	3	36	35	4.8	17.0	0.94	0.5	0.7	4.1	1	2.1	3	21.20
93K10	951461	10	385436	6047705		PTrCCs	5	0.8	6.3	750	7.2	49	3.1	97	20	3	3.70	25	0.20	2	58	60	4.7	19.0	1.30	0.5	0.7	4.5	1	12.0	3	23.48
93K10	951471	10	385436	6047705		PTrCCs	1	0.7	6.1	730	6.3	48	2.9	94	16	3	3.50	25	0.20	2	10	49	4.5	20.0	1.40	0.6	0.7	4.1	1	11.0	3	21.92
93K10	951481	10	382341	6041802		PTrCCs	1	0.9	4.1	420	39.0	39	1.5	49	10	2	2.10	18	0.20	1	52	23	4.2	13.0	0.78	0.5	0.6	4.3	1	3.1	3	12.66
93K10	951485	10	382341	6041802	10	PTrCCs	1	1.0	4.5	420	43.0	37	1.1	42	9	2	2.30	18	0.40	1	56	21	4.4	14.0	0.78	0.5	0.8	4.9	1	3.1	2	13.73

Analytical Duplicate Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV
93K10	951001	10	385009	6040640		PTrCCs	0.2	0.6	13	65	200	2.40	2	940	120	3	98	1.2	0.5	112	128	25.1
93K10	951005	10	385009	6040640	10	PTrCCs	0.2	0.6	11	65	200	2.50	2	930	120	2	96	1.2	0.4	113	125	25.0
93K16	951021	10	429136	6069599		uTrTt	0.2	1.0	4	26	170	0.75	3	118	160	2	25	0.7	0.2	21	62	40.5
93K16	951030	10	429136	6069599		uTrTt	0.2	1.2	4	27	170	0.65	2	126	160	2	26	0.7	0.2	25	64	41.6
93K16	951041	10	427358	6085098		uTrTt	0.2	0.6	5	35	120	0.70	2	137	110	4	18	1.0	0.4	30	72	37.9
93K16	951043	10	427358	6085098	20	uTrTt	0.2	0.7	6	35	120	0.75	2	134	120	4	19	1.0	0.2	25	68	38.1
93K16	951061	10	423824	6073365		uTrTt	0.2	0.7	14	60	220	2.30	4	272	230	2	42	1.9	0.4	51	159	28.6
93K16	951066	10	423824	6073365		uTrTt	0.2	0.8	14	59	230	2.20	2	277	240	3	42	1.9	0.6	60	160	28.4
93K09	951081	10	426514	6067156		uTrTt	0.2	0.9	5	32	270	1.40	2	185	180	2	29	0.4	0.2	41	117	21.0
93K09	951084	10	426514	6067156		uTrTt	0.2	0.7	6	33	280	1.30	2	175	170	2	29	0.4	0.2	43	115	19.9
93K16	951101	10	414427	6085352		uTrTt	0.2	0.9	3	58	170	0.55	3	384	190	3	15	5.6	0.5	38	50	59.1
93K16	951110	10	414427	6085352		uTrTt	0.2	0.8	5	57	170	0.70	2	395	190	3	15	5.8	0.4	25	52	60.3
93K16	951121	10	417791	6082277		EJd	0.2	1.3	6	80	270	0.70	3	263	180	4	23	13.5	0.5	49	87	47.0
93K16	951128	10	417791	6082277		EJd	0.2	1.6	6	78	250	0.65	2	262	200	5	23	13.5	0.4	44	87	46.5
93K09	951141	10	416171	6043914		PTrCCb	0.2	0.3	10	45	220	1.90	3	540	120	8	115	2.2	0.3	49	96	43.2
93K09	951144	10	416171	6043914	20	PTrCCb	0.2	0.6	11	44	220	1.90	3	548	110	9	112	2.1	0.3	46	93	43.9
93K16	951161	10	408553	6077351		uTrTt	0.2	0.9	5	30	230	0.70	3	135	110	2	20	3.3	0.2	35	68	47.0
93K16	951177	10	408553	6077351		uTrTt	0.2	0.8	5	33	190	0.55	2	132	100	5	19	3.4	0.5	32	68	46.5
93K16	951181	10	408209	6084525		uTrTt	0.2	1.2	6	50	150	0.80	3	233	220	3	21	5.3	0.5	33	80	51.5
93K16	951186	10	408209	6084525		uTrTt	0.2	1.3	6	49	150	0.85	4	230	200	3	21	5.4	0.3	31	81	50.5
93K16	951201	10	405886	6092882		uTrTt	0.2	0.5	13	93	200	3.00	2	328	210	7	32	10.5	0.2	64	87	38.2
93K16	951203	10	405886	6092882	10	uTrTt	0.2	0.6	13	99	200	2.90	3	349	240	8	34	10.5	0.4	69	89	37.1
93K16	951221	10	407799	6071164		uTrTt	0.2	0.7	7	44	310	2.60	3	496	170	5	27	3.1	0.2	37	129	55.3
93K16	951226	10	407799	6071164	10	uTrTt	0.2	0.3	6	41	240	2.80	2	487	120	5	25	3.2	0.4	40	127	55.7
93K09	951241	10	414358	6056275		muTrTs	0.2	0.8	10	25	340	1.80	6	280	150	2	27	0.7	0.3	41	130	21.2
93K09	951246	10	414358	6056275		muTrTs	0.2	0.4	10	25	360	1.80	4	284	140	2	27	0.5	0.2	44	130	21.8
93K15	951261	10	385404	6081684		PTrCCl	0.2	0.2	2	24	260	4.20	2	2600	50	6	18	1.2	0.2	10	89	38.4
93K15	951264	10	385404	6081684	10	PTrCCl	0.2	0.2	2	24	200	4.10	2	2640	50	7	17	1.3	0.2	12	89	40.1
93K15	951281	10	392395	6095327		uTrTt	0.2	0.8	12	34	330	2.80	2	1420	330	2	34	0.9	0.2	59	78	23.7
93K15	951288	10	392395	6095327		uTrTt	0.2	0.6	12	32	320	3.00	2	1430	290	3	36	0.9	0.2	57	75	24.5
93K15	951301	10	374313	6089556		PTrCCl	0.2	0.7	2	18	330	0.80	2	67	50	7	12	5.8	0.2	30	48	17.1
93K15	951306	10	374313	6089556		PTrCCl	0.2	0.9	2	16	250	0.85	2	65	50	5	12	5.8	0.2	29	48	21.0

Analytical Duplicate Data

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	REP	Form	Bi 0.2 ppm AAS-H	Cd 0.2 ppm AAS	Co 2 ppm AAS	Cu 2 ppm AAS	F 40 ppm ION	Fe 0.02 % AAS	Pb 2 ppm AAS	Mn 5 ppm AAS	Hg 10 ppb CV-AAS	Mo 2 ppm AAS	Ni 2 ppm AAS	Se 0.2 ppm AAS	Ag 0.2 ppm AAS	V 5 ppm AAS	Zn 2 ppm AAS	LOI 0.1 % GRAV
93K10	951321	10	395102	6056781		PTTrCCs	0.2	0.4	17	39	400	3.00	9	372	70	2	43	0.2	0.2	48	184	17.5
93K10	951325	10	395102	6056781		PTTrCCs	0.2	0.4	14	38	310	2.90	7	347	70	2	45	0.3	0.2	47	183	16.6
93K10	951341	10	388677	6066796		PTTrCCs	0.2	0.2	8	24	260	11.00	2	1480	60	4	20	0.2	0.2	36	69	22.4
93K10	951343	10	388677	6066796		PTTrCCs	0.2	0.2	10	24	290	10.50	2	1500	40	3	20	0.2	0.2	35	68	22.2
93K15	951361	10	382173	6077327		PTTrCCs	0.2	0.4	12	59	260	6.50	5	1060	150	4	44	0.5	0.3	52	142	34.8
93K15	951370	10	382173	6077327		PTTrCCs	0.2	0.6	11	58	220	6.30	2	1060	130	3	42	0.6	0.2	54	144	35.8
93K15	951381	10	376985	6077339		PTTrCCs	0.2	0.7	17	54	410	4.30	5	940	70	7	48	0.9	0.2	71	131	28.9
93K15	951385	10	376985	6077339	20	PTTrCCs	0.2	0.6	17	54	370	4.40	4	920	70	5	48	0.9	0.2	72	128	29.9
93K15	951401	10	376517	6071410		JKgd	0.2	0.4	8	54	200	1.60	3	343	120	2	37	0.5	0.2	45	135	36.7
93K15	951404	10	376517	6071410	20	JKgd	0.2	0.6	7	52	200	1.50	3	337	120	4	38	0.3	0.2	47	140	36.4
93K09	951421	10	419370	6057879		muTrTs	0.2	0.6	21	53	290	4.80	3	750	80	3	49	0.2	0.2	71	173	19.6
93K09	951431	10	419370	6057879		muTrTs	0.2	0.6	20	54	290	4.60	8	760	90	2	49	0.3	0.2	67	177	20.4
93K10	951441	10	375588	6044768		MJt	0.2	0.5	13	93	230	2.20	3	314	260	4	34	0.9	0.3	75	115	27.3
93K10	951447	10	375588	6044768		MJt	0.2	0.6	13	95	230	2.40	4	322	260	5	37	1.0	0.3	75	123	28.3
93K10	951461	10	385436	6047705		PTTrCCs	0.2	2.1	13	66	310	1.80	5	441	70	5	37	1.2	0.4	58	130	17.0
93K10	951471	10	385436	6047705		PTTrCCs	0.2	2.2	12	63	290	1.70	6	434	70	3	36	1.2	0.4	55	125	17.7
93K10	951481	10	382341	6041802		PTTrCCs	0.2	0.5	8	68	210	1.40	2	565	110	4	57	1.2	0.2	78	95	27.0
93K10	951485	10	382341	6041802	10	PTTrCCs	0.2	0.2	6	68	200	1.40	2	557	110	4	56	1.0	0.2	74	91	26.9

Visual Data Duplicate Data

**Regional Lake Sediment and Water Geochemistry
of Part of the
Fort Fraser Map Area
(93K/9,10,15,16)**

Open File 1996-15

Appendix C

Summary Statistics

C - 2 Total Data Set: INAA
C - 3 Total Data Set: AAS

C - 4 ... Data Set Subset on Bedrock Geology: INAA
C - 29 ... Data Set Subset on Bedrock Geology: AAS
C - 49 ... Anomaly Threshold (By Formation)
C - 51 ... Multi-Element Anomaly Chart: Precious Metals
C - 53 ... Multi-Element Anomaly Chart: Base Metals

Notes :

- Statistical calculations ignore analytical results from the second of paired field duplicates and repeat Au analysis. Multi-element anomaly charts include repeat Au analytical values, where applicable.
- Recent Regional Geochemical Survey (RGS) reports such as Jackaman (1996) provide methodology and procedures used in production of anomaly thresholds listing and multi-element anomaly charts.

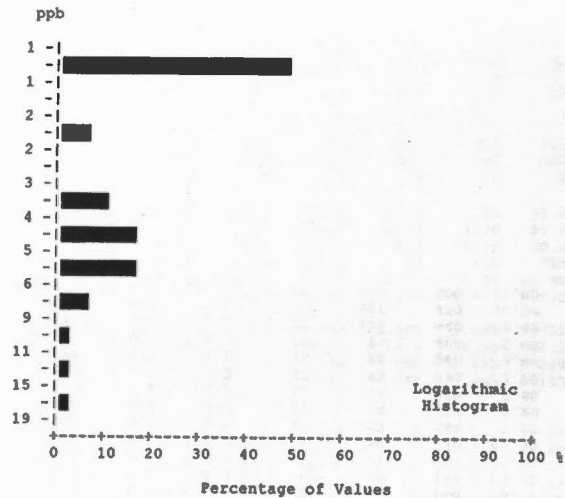
Summary Statistics

	Au	Sb	As	Ba	Br	Ce	Cs	Cr	Co	Hf	Fe	La	Lu	Mo	Ni	Rb	Sm	Sc	Na	Ta	Tb	Th	W	U	Yb
Units	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
D.L.	2	0.1	0.5	50	0.5	5	0.5	20	5	1	0.2	2	0.2	1	10	5	0.1	0.1	0.02	0.5	0.5	0.2	1	0.2	1
Mthd	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
N	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
N > DL	195	407	413	411	413	362	322	367	323	126	409	374	165	291	358	333	409	413	412	413	413	408	10	406	173
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	2.9	1.01	10.18	460.3	39.41	22.7	1.50	71.2	11.8	1.5	3.14	11.4	0.27	4.7	44.6	23.2	2.54	12.33	0.70	0.51	0.57	2.27	1.0	1.91	1.6
Median	2.0	0.80	5.90	400.0	36.00	21.0	1.20	57.0	10.0	1.0	2.60	11.0	0.20	3.0	34.0	19.0	2.50	12.00	0.50	0.50	0.50	2.10	1.0	1.70	1.0
Mode	1.0	0.90	10.00	240.0	17.00	5.0	0.50	20.0	5.0	1.0	2.00	2.0	0.20	1.0	10.0	5.0	1.60	12.00	1.20	0.50	0.50	1.20	1.0	1.40	1.0
Range	16	8.3	315.1	2350	159.4	53	5.8	760	39	4	29.7	30	0.4	61	480	77	8.3	27.3	2.82	0.3	1.0	5.6	3	10.8	3
St Dev	2.38	0.81	20.86	290.09	25.13	13.04	1.04	61.98	6.55	0.80	2.94	6.44	0.10	6.46	48.91	17.04	1.43	6.19	0.57	0.04	0.13	1.33	0.26	1.26	0.84
Coef Var	0.819	0.798	2.048	0.630	0.638	0.574	0.696	0.870	0.557	0.546	0.937	0.566	0.384	1.378	1.097	0.735	0.563	0.502	0.813	0.083	0.234	0.583	0.254	0.659	0.521
Log Mean	0.329	-0.086	0.812	2.574	1.490	1.265	0.080	1.752	1.007	0.116	0.380	0.963	-0.594	0.463	1.523	1.233	0.306	1.008	-0.319	-0.292	-0.257	0.261	0.009	0.201	0.158
Geo Mean	2.1	0.82	6.49	374.8	30.92	18.4	1.20	56.5	10.2	1.3	2.40	9.2	0.25	2.9	33.3	17.1	2.03	10.18	0.48	0.51	0.55	1.82	1.0	1.59	1.4
Log StDev	0.340	0.278	0.338	0.295	0.336	0.305	0.288	0.289	0.235	0.186	0.330	0.314	0.143	0.396	0.316	0.358	0.338	0.317	0.408	0.031	0.083	0.320	0.061	0.276	0.198
Log CVar	1.035	-3.227	0.417	0.114	0.225	0.242	3.602	0.165	0.233	1.606	0.870	0.326	-0.242	0.856	0.207	0.290	1.106	0.315	-1.282	-0.107	-0.323	1.225	6.820	1.374	1.263
Percentils																									
Minimum	1	0.1	0.9	50	1.6	5	0.5	20	5	1	0.2	2	0.2	1	10	5	0.1	0.3	0.02	0.5	0.5	0.2	1	0.2	1
10th	1	0.4	2.7	150	11.0	5	0.5	20	5	1	0.9	3	0.2	1	10	5	0.7	3.7	0.13	0.5	0.5	0.6	1	0.7	1
20th	1	0.5	3.7	220	17.0	10	0.5	30	5	1	1.4	5	0.2	1	18	6	1.2	6.4	0.22	0.5	0.5	1.0	1	1.0	1
30th	1	0.6	4.3	270	22.0	14	0.8	39	7	1	1.8	7	0.2	2	24	11	1.6	8.9	0.30	0.5	0.5	1.3	1	1.2	1
40th	1	0.7	5.2	330	29.0	18	0.9	48	8	1	2.2	9	0.2	2	29	15	2.1	11.0	0.41	0.5	0.5	1.8	1	1.5	1
50th	2	0.8	5.9	400	36.0	21	1.2	57	10	1	2.6	11	0.2	3	34	19	2.5	12.0	0.50	0.5	0.5	2.1	1	1.7	1
60th	3	0.9	6.9	460	43.0	25	1.5	69	13	1	3.0	13	0.2	4	41	24	2.8	14.0	0.66	0.5	0.5	2.5	1	2.0	2
70th	4	1.1	8.2	580	51.0	30	1.9	86	15	2	3.6	15	0.3	5	47	31	3.2	16.0	0.91	0.5	0.5	3.0	1	2.2	2
80th	5	1.2	11.0	690	58.3	35	2.1	100	17	2	4.3	17	0.3	6	57	37	3.8	18.0	1.10	0.5	0.5	3.5	1	2.6	2
85th	5	1.4	12.0	790	64.4	38	2.5	110	19	2	4.6	18	0.4	7	62	41	4.0	19.0	1.30	0.5	0.7	3.8	1	2.8	2
90th	6	1.7	16.0	850	71.8	42	2.9	120	21	3	5.3	20	0.4	10	76	47	4.4	21.2	1.50	0.5	0.7	4.1	1	3.1	3
95th	7	2.4	26.0	970	83.2	46	3.5	150	23	3	6.6	23	0.5	15	100	55	4.8	22.7	1.80	0.6	0.8	4.8	1	3.8	3
98th	9	3.6	50.5	1100	94.1	49	4.6	180	27	4	10.0	24	0.6	26	150	68	5.5	24.4	2.21	0.7	0.9	5.2	2	5.5	4
99th	10	4.1	88.6	1100	115.0	50	5.1	330	30	4	12.0	25	0.6	35	210	72	6.0	25.6	2.40	0.7	1.0	5.5	2	7.1	4
Maximum	17	8.4	316.0	2400	161.0	58	6.3	780	44	5	29.9	32	0.6	62	490	82	8.4	27.6	2.84	0.8	1.5	5.8	4	11.0	4

Summary Statistics

	Bi	Cd	Co	Cu	F	Fe	Pb	Mn	Hg	Mo	Ni	Se	Ag	V	Zn	LOI	pH	SO4	FW	UW
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	0.1	ppm	ppb	ppb
D.L.	0.2	0.1	2	2	40	0.02	2	5	10	2	2	0.1	0.2	5	2	0.1	GCE	1	20	0.05
Mthd	AAS-H	AAS	AAS	AAS	ION	AAS	AAS	AAS	CV-AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV		TURB	ION	LIF
N	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413	413
N > DL	3	411	394	413	413	413	168	413	412	413	412	411	214	411	413	413	413	370	412	45
Missing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.20	0.85	9.0	55.0	241.2	1.99	3.1	561.3	166.6	6.4	45.2	2.63	0.36	45.4	147.4	44.76	7.73	4.4	50.8	0.06
Median	0.20	0.70	8.0	50.0	230.0	1.50	2.0	327.0	130.0	4.0	35.0	1.50	0.30	42.0	131.0	45.10	7.80	3.0	46.0	0.05
Mode	0.20	0.20	6.0	46.0	200.0	1.20	2.0	190.0	70.0	3.0	36.0	0.20	0.20	42.0	122.0	37.10	7.80	3.0	40.0	0.05
Range	0.2	19.9	27	245	420	20.90	11	15976	4140	63	648	17.9	1.8	130	2582	91.9	2.9	54	160	0.79
St Dev	0.01	1.09	4.62	27.44	88.47	2.15	1.96	1056.18	259.97	7.41	58.00	3.07	0.22	22.15	145.38	18.99	0.42	4.29	20.57	0.07
Coef Var	0.060	1.284	0.511	0.499	0.367	1.079	0.642	1.882	1.560	1.153	1.283	1.165	0.623	0.488	0.986	0.424	0.054	0.983	0.405	1.066
Log Mean	-0.697	-0.189	0.894	1.689	2.351	0.148	0.431	2.530	2.094	0.675	1.533	0.190	-0.509	1.599	2.103	1.597	0.887	0.535	1.678	-1.259
Geo Mean	0.20	0.65	7.8	48.8	224.5	1.41	2.7	338.9	124.2	4.7	34.1	1.55	0.31	39.7	126.9	39.54	7.72	3.4	47.6	0.06
Log StDv	0.019	0.307	0.243	0.219	0.169	0.362	0.194	0.393	0.299	0.302	0.294	0.458	0.216	0.238	0.218	0.245	0.024	0.288	0.152	0.159
Log CVar	-0.028	-1.623	0.272	0.130	0.072	2.445	0.450	0.155	0.143	0.447	0.192	2.422	-0.424	0.149	0.104	0.153	0.028	0.539	0.090	-0.126
Percntls																				
Minimum	0.2	0.1	2	5	80	0.10	2	24	10	2	2	0.1	0.2	5	18	2.2	5.6	1	20	0.05
10th	0.2	0.2	4	25	130	0.50	2	123	50	2	15	0.4	0.2	20	68	18.3	7.2	1	30	0.05
20th	0.2	0.4	5	33	160	0.70	2	172	70	3	21	0.7	0.2	26	88	27.1	7.4	2	36	0.05
30th	0.2	0.4	6	39	180	0.90	2	225	90	3	26	1.0	0.2	32	106	35.1	7.5	3	40	0.05
40th	0.2	0.6	7	45	200	1.20	2	262	110	4	30	1.2	0.2	38	120	39.9	7.7	3	42	0.05
50th	0.2	0.7	8	50	230	1.50	2	327	130	4	35	1.5	0.3	42	131	45.1	7.8	3	46	0.05
60th	0.2	0.8	10	57	260	1.80	3	395	150	5	38	1.8	0.4	47	144	50.3	7.9	4	50	0.05
70th	0.2	1.0	11	64	300	2.20	3	478	170	6	45	2.6	0.4	55	154	55.3	8.0	5	56	0.05
80th	0.2	1.2	12	74	320	2.60	4	602	210	8	52	3.8	0.5	61	175	60.9	8.1	6	62	0.05
85th	0.2	1.3	13	81	330	3.00	4	795	230	9	58	4.7	0.6	67	185	64.3	8.2	6	66	0.05
90th	0.2	1.6	15	88	360	3.90	5	1100	270	11	71	6.5	0.6	74	206	69.6	8.2	7	72	0.06
95th	0.2	1.9	17	99	400	5.00	7	1460	330	16	98	9.5	0.7	88	265	76.2	8.3	10	88	0.10
98th	0.2	2.1	21	125	440	8.40	11	3560	430	33	153	12.5	1.0	96	391	83.5	8.4	13	110	0.26
99th	0.2	2.2	22	156	470	10.50	11	5050	600	39	288	15.0	1.2	106	435	86.9	8.5	21	120	0.37
Maximum	0.4	20.0	29	250	500	21.00	13	16000	4150	65	650	18.0	2.0	135	2600	94.1	8.5	55	180	0.84

Summary Statistics



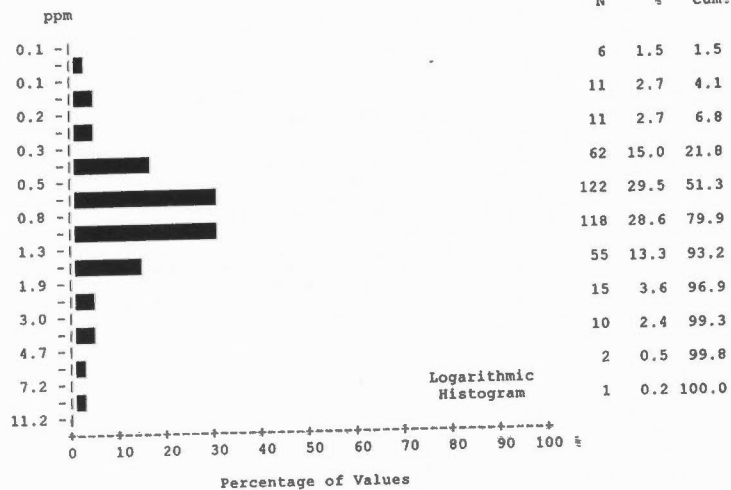
	N	%	Cum%	All	uTrTt	PtrCCs	muTrTs	PtrCCl	Mjt	PtrCCb	uTrTv	PtrCCvs	EJd
1	197	47.7	47.7	N	413	156	93	37	23	20	18	14	11
1	0	0.0	47.7	N > DL	195	96	26	18	5	9	5	11	3
2	21	5.1	52.8	Missing	0	0	0	0	0	0	0	0	0
2	0	0.0	52.8	Mean	2.9	3.7	2.1	2.8	1.7	2.7	1.9	4.5	2.3
3	42	10.2	63.0	Median	2.0	4.0	1.0	2.0	1.0	1.0	1.0	4.0	1.0
4	59	14.3	77.2	Mode	1.0	1.0	1.0	1.0	1.0	1.0	1.0	4.0	1.0
5	64	15.5	92.7	Range	16	16	8	7	4	5	4	13	7
6	20	4.8	97.6	St Dev	2.38	2.71	1.86	2.06	1.39	1.93	1.51	3.13	2.37
9	7	1.7	99.3	Coef Var	0.819	0.732	0.903	0.747	0.799	0.727	0.778	0.696	1.043
11	2	0.5	99.8	Log Mean	0.329	0.446	0.187	0.327	0.147	0.299	0.188	0.575	0.200
15	1	0.2	100.0	Geo Mean	2.1	2.8	1.5	2.1	1.4	2.0	1.5	3.8	1.6
19				Log StDv	0.340	0.342	0.303	0.319	0.263	0.342	0.285	0.270	0.350
				Log CVar	1.035	0.768	1.630	0.978	1.802	1.143	1.527	0.470	1.750
				Percentls									
				Minimum	1	1	1	1	1	1	1	1	1
				10th	1	1	1	1	1	1	1	1	1
				20th	1	1	1	1	1	1	1	2	1
				30th	1	1	1	1	1	1	1	3	1
				40th	1	3	1	1	1	1	1	4	1
				50th	2	4	1	2	1	1	1	4	1
				60th	3	4	1	3	1	4	1	4	1
				70th	4	5	1	3	1	4	2	5	1
				80th	5	5	4	4	2	5	3	5	4
				85th	5	6	4	4	4	5	4	5	4
				90th	6	7	5	5	4	5	4	7	5
				95th	7	8	6	7	5	5	5	7	5
				98th	9	10	7	8	5	6	5	14	8
				99th	10	11	7	8	5	6	5	14	8
				Maximum	17	17	9	8	5	6	5	14	8

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics	
Variable - Gold (Au)	
Number of Values - 413	
Units - ppb	
Detection Limit - 2	
Analytical Method - INAA	

Gold by INAA

Summary Statistics



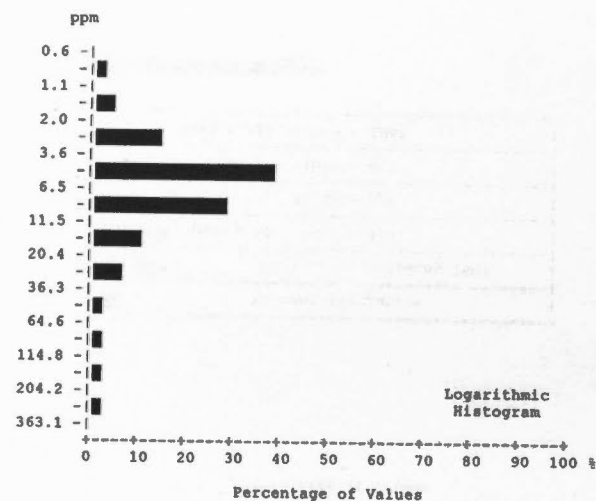
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	407	154	90	36	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.01	1.09	0.71	1.36	0.78	1.05	1.98	0.61	1.58	0.69
Median	0.80	0.90	0.70	1.00	0.60	0.90	1.00	0.60	1.30	0.60
Mode	0.90	0.90	0.80	0.50	0.50	0.90	1.10	0.60	1.40	0.50
Range	8.3	3.6	1.4	4.2	3.4	2.1	8.0	0.8	3.4	0.8
St Dev	0.81	0.59	0.32	1.14	0.72	0.48	2.24	0.20	0.96	0.25
Coef Var	0.798	0.546	0.450	0.841	0.926	0.461	1.132	0.326	0.610	0.369
Log Mean	-0.086	-0.026	-0.211	0.000	-0.216	-0.016	0.990	-0.243	0.137	-0.185
Geo Mean	0.82	0.94	0.62	1.00	0.61	0.96	1.26	0.57	1.37	0.65
Log StDv	0.278	0.247	0.259	0.351	0.295	0.179	0.398	0.171	0.240	0.148
Log CVar	-3.227	-9.870	-1.229	0.000	-1.364	-11.913	4.025	-0.702	1.766	-0.804
Percentls										
Minimum	0.1	0.1	0.1	0.1	0.2	0.5	0.4	0.2	0.5	0.4
10th	0.4	0.5	0.2	0.4	0.2	0.5	0.4	0.2	0.5	0.4
20th	0.5	0.6	0.4	0.5	0.4	0.7	0.6	0.4	0.9	0.5
30th	0.6	0.8	0.5	0.6	0.4	0.7	0.7	0.5	1.0	0.5
40th	0.7	0.9	0.6	0.8	0.5	0.9	0.8	0.6	1.1	0.5
50th	0.8	0.9	0.7	1.0	0.6	0.9	1.0	0.6	1.3	0.6
60th	0.9	1.1	0.8	1.0	0.6	1.0	1.1	0.6	1.4	0.7
70th	1.1	1.2	0.9	1.4	0.7	1.2	1.1	0.7	1.4	0.7
80th	1.2	1.4	1.0	1.8	0.9	1.2	1.4	0.8	2.0	0.8
85th	1.4	1.6	1.0	2.2	1.2	1.5	5.3	0.8	2.7	1.1
90th	1.7	1.9	1.1	3.4	1.5	1.6	5.4	0.8	2.7	1.1
95th	2.4	2.3	1.2	3.8	1.7	1.6	8.4	1.0	3.9	1.2
98th	3.6	2.7	1.3	4.1	3.6	2.6	8.4	1.0	3.9	1.2
99th	4.1	3.0	1.3	4.3	3.6	2.6	8.4	1.0	3.9	1.2
Maximum	8.4	3.7	1.5	4.3	3.6	2.6	8.4	1.0	3.9	1.2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Antimony [Sb]
Number of Values - 413
Units - ppm
Detection Limit - 0.1
Analytical Method - INAA

Antimony by INAA

Summary Statistics



Element Statistics	
Variable - Arsenic (As)	
Number of Values - 413	
Units - ppm	
Detection Limit - 0.5	
Analytical Method - INAA	

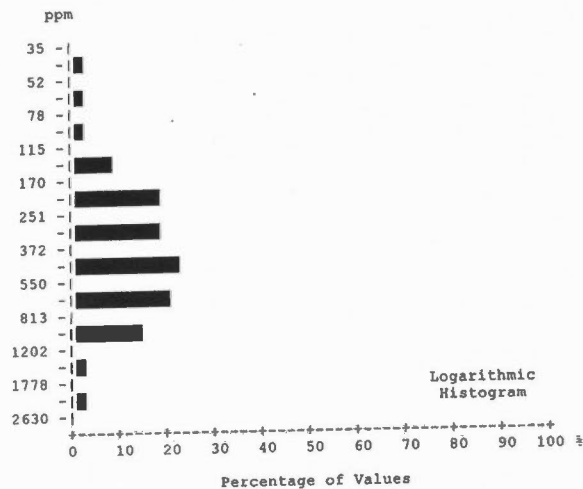
N	%	Cum%
1	0.2	0.2
17	4.1	4.4
58	14.0	18.4
152	36.8	55.2
113	27.4	82.6
40	9.7	92.3
19	4.6	96.9
5	1.2	98.1
5	1.2	99.3
2	0.5	99.8
1	0.2	100.0

	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	10.18	6.96	19.30	8.28	7.54	6.69	15.08	4.83	9.17	3.12
Median	5.90	5.80	7.20	6.50	4.10	6.10	11.00	4.60	5.40	2.50
Mode	10.00	5.20	3.60	6.50	3.80	10.00	12.00	5.60	5.40	1.50
Range	315.1	23.4	314.6	28.3	33.0	8.5	60.9	8.3	20.3	6.3
St Dev	20.86	4.22	40.15	5.54	8.20	2.55	15.37	2.48	6.66	1.94
Coef Var	2.048	0.606	2.080	0.669	1.087	0.381	1.019	0.515	0.726	0.622
Log Mean	0.812	0.773	0.962	0.849	0.724	0.792	1.036	0.613	0.837	0.434
Geo Mean	6.49	5.94	9.16	7.07	5.30	6.19	10.87	4.10	6.87	2.72
Log StDv	0.338	0.245	0.453	0.236	0.339	0.183	0.338	0.283	0.369	0.226
Log CVar	0.417	0.317	0.472	0.278	0.468	0.231	0.327	0.462	0.441	0.522
Percentls										
Minimum	0.9	1.6	1.4	2.7	2.0	2.5	4.0	0.9	1.7	1.5
10th	2.7	3.0	3.3	3.7	2.1	2.9	4.2	0.9	1.7	1.5
20th	3.7	3.7	3.9	4.1	2.7	4.1	4.7	2.2	2.0	1.5
30th	4.3	4.3	4.9	4.7	3.2	5.2	5.2	3.1	4.1	1.8
40th	5.2	5.2	6.2	5.9	3.8	5.7	10.0	4.3	5.3	2.1
50th	5.9	5.8	7.2	6.5	4.1	6.1	11.0	4.6	5.4	2.5
60th	6.9	6.8	8.0	8.1	5.6	6.9	12.0	5.0	11.0	2.6
70th	8.2	8.0	11.0	8.8	6.7	7.7	14.0	5.6	13.0	2.8
80th	11.0	9.5	21.0	11.0	8.6	10.0	14.0	5.8	14.0	3.9
85th	12.0	11.0	28.0	11.0	10.0	10.0	16.0	7.9	14.0	3.9
90th	16.0	12.0	37.0	13.0	18.0	10.0	26.0	8.3	17.0	5.5
95th	26.0	15.0	66.5	15.0	26.0	10.0	41.0	8.3	17.0	5.5
98th	50.5	18.0	143.0	22.0	35.0	11.0	64.9	9.2	22.0	7.8
99th	88.6	21.0	156.0	31.0	35.0	11.0	64.9	9.2	22.0	7.8
Maximum	316.0	25.0	316.0	31.0	35.0	11.0	64.9	9.2	22.0	7.8

(Summary statistics not calculated for formations with fewer than ten values.)

Arsenic by INAA

Summary Statistics



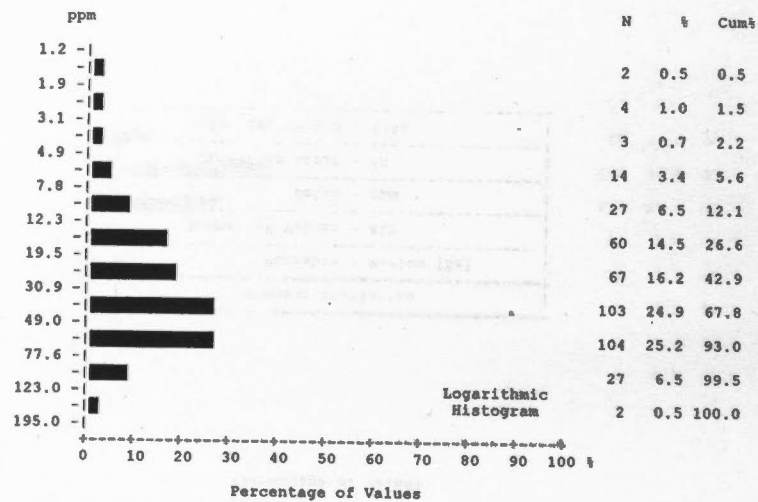
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413												
N > DL	411												
Missing	0												
Mean	460.3												
Median	400.0												
Mode	240.0												
Range	2350												
St Dev	290.09												
Coef Var	0.630												
Log Mean	2.574												
Geo Mean	374.8												
Log StDv	0.295												
Log CVar	0.114												
Percentls													
Minimum	50												
10th	150												
20th	220												
30th	270												
40th	330												
50th	400												
60th	460												
70th	580												
80th	690												
85th	790												
90th	850												
95th	970												
98th	1100												
99th	1100												
Maximum	2400												

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Barium [Ba]
Number of Values - 413
Units - ppm
Detection Limit - 50
Analytical Method - INAA

Barium by INAA

Summary Statistics



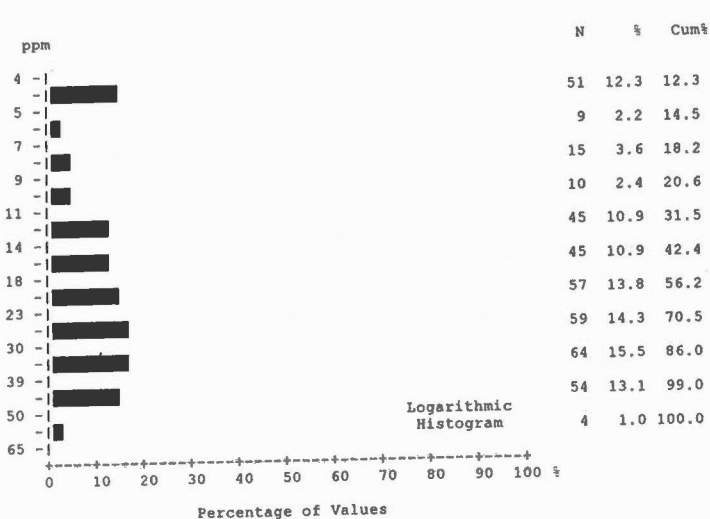
Element Statistics	
Variable -	Bromine (Br)
Number of Values -	413
Units -	ppm
Detection Limit -	0.5
Analytical Method -	INAA

	All	uTrTt	PTTrCCs	muTrTs	PTTrCCL	MJt	PTTrCCb	uTrTv	PTTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	39.41	36.43	41.19	40.10	52.44	54.15	45.83	23.49	38.26	20.29
Median	36.00	36.00	39.00	35.00	51.80	41.00	50.00	23.00	28.00	16.00
Mode	17.00	18.00	48.00	12.00	17.00	24.00	2.70	16.00	28.00	10.00
Range	159.4	101.5	119.4	91.9	69.3	148.0	83.6	41.2	158.3	42.8
St Dev	25.13	20.83	23.55	27.73	20.17	35.86	26.10	10.45	45.52	13.41
Coef Var	0.638	0.572	0.572	0.691	0.385	0.662	0.570	0.445	1.190	0.661
Log Mean	1.490	1.471	1.524	1.459	1.682	1.649	1.530	1.322	1.339	1.235
Geo Mean	30.92	29.57	33.43	28.75	48.09	44.53	33.91	21.01	21.81	17.18
Log StDv	0.336	0.312	0.320	0.412	0.197	0.282	0.435	0.234	0.503	0.253
Log CVar	0.225	0.212	0.210	0.283	0.117	0.171	0.284	0.177	0.376	0.205
Percentile										
Minimum	1.6	2.5	1.6	1.7	17.0	11.0	2.7	4.8	2.7	8.2
10th	11.0	10.0	11.0	12.0	19.0	23.0	3.5	4.8	2.7	8.2
20th	17.0	16.0	18.0	14.0	33.0	24.0	21.0	16.0	7.0	10.0
30th	22.0	21.0	29.0	17.0	40.0	26.0	22.0	16.0	8.2	10.0
40th	29.0	29.0	33.0	20.0	45.0	34.0	34.0	19.0	14.0	11.0
50th	36.0	36.0	39.0	35.0	51.8	41.0	50.0	23.0	28.0	16.0
60th	43.0	40.0	45.0	45.0	58.8	52.5	56.4	24.0	28.0	18.0
70th	51.0	47.0	50.7	62.0	63.3	56.6	61.1	25.0	38.0	21.0
80th	58.3	54.1	57.0	69.7	68.1	67.4	67.4	27.0	48.0	26.0
85th	64.4	58.2	62.9	71.8	77.0	89.4	68.1	30.0	48.0	26.0
90th	71.8	62.9	77.1	76.3	77.6	94.1	75.9	40.0	71.0	38.0
95th	83.2	69.5	80.2	82.8	83.2	96.6	82.3	40.0	71.0	38.0
98th	94.1	89.4	93.2	89.5	86.3	159.0	86.3	46.0	161.0	51.0
99th	115.0	89.6	101.0	93.6	86.3	159.0	86.3	46.0	161.0	51.0
Maximum	161.0	104.0	121.0	93.6	86.3	159.0	86.3	46.0	161.0	51.0

(Summary statistics not calculated for formations with fewer than ten values.)

Bromine by INAA

Summary Statistics



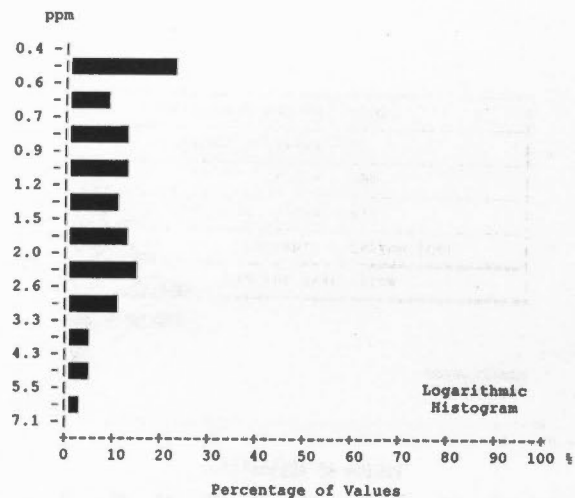
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413			413	156	93	37	23	20	18	14	11	11
N > DL	362			362	143	77	34	15	20	17	12	10	9
Missing	0			0	0	0	0	0	0	0	0	0	0
Mean	22.7			22.7	20.2	25.4	22.1	17.3	36.8	27.1	15.9	29.1	14.2
Median	21.0			21.0	19.0	26.0	19.0	8.0	32.0	27.0	15.0	35.0	11.0
Mode	5.0			5.0	5.0	5.0	5.0	5.0	30.0	31.0	5.0	5.0	11.0
Range	53			53	41	47	45	44	31	39	22	40	19
St Dev	13.04			13.04	10.38	13.99	12.53	16.17	10.19	12.48	7.44	14.31	6.95
Coef Var	0.574			0.574	0.514	0.550	0.567	0.934	0.277	0.461	0.469	0.492	0.490
Log Mean	1.265			1.265	1.238	1.304	1.263	1.064	1.549	1.369	1.142	1.380	1.095
Geo Mean	18.4			18.4	17.3	20.1	18.3	11.6	35.4	23.4	13.9	24.0	12.4
Log StDv	0.305			0.305	0.257	0.338	0.287	0.389	0.127	0.270	0.254	0.327	0.245
Log CVar	0.242			0.242	0.207	0.259	0.227	0.366	0.082	0.198	0.222	0.237	0.224
Percentls													
Minimum	5			5	5	5	5	5	20	5	5	5	5
10th	5			5	7	5	6	5	22	8	5	5	5
20th	10			10	11	7	10	5	27	13	6	8	5
30th	14			14	14	18	13	5	30	14	11	13	9
40th	18			18	16	20	17	6	31	23	15	24	11
50th	21			21	19	26	19	8	32	27	15	35	11
60th	25			25	21	32	21	12	40	31	16	37	17
70th	30			30	24	35	29	18	45	36	20	38	18
80th	35			35	30	38	33	29	48	37	21	39	22
85th	38			38	33	40	33	40	48	40	24	39	22
90th	42			42	35	43	36	48	49	43	26	43	23
95th	46			46	39	45	46	48	50	43	26	43	23
98th	49			49	42	49	49	49	51	44	27	45	24
99th	50			50	44	49	50	49	51	44	27	45	24
Maximum	58			58	46	52	50	49	51	44	27	45	24

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cerium [Ce]
Number of Values - 413
Units - ppm
Detection Limit - 5
Analytical Method - INAA

Cerium by INAA

Summary Statistics



Element Statistics	
Variable - Cesium [Cs]	
Number of Values - 413	
Units - ppm	
Detection Limit - 0.5	
Analytical Method - INAA	

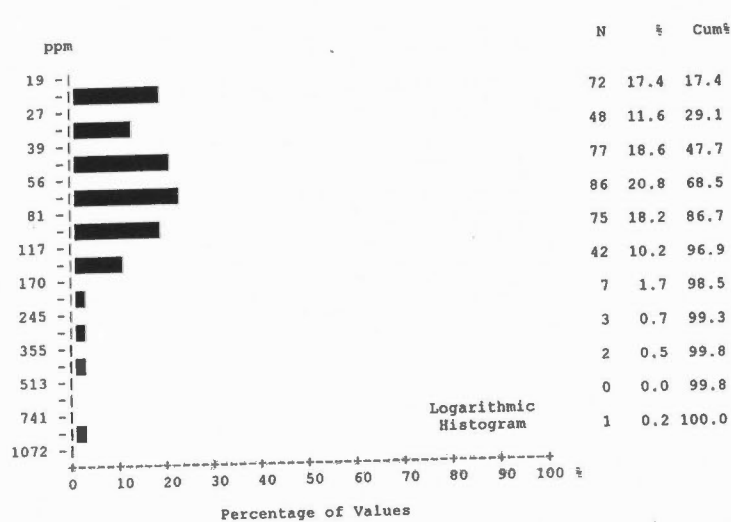
N	%	Cum%
91	22.0	22.0
27	6.5	28.6
48	11.6	40.2
43	10.4	50.6
42	10.2	60.8
49	11.9	72.6
51	12.3	85.0
37	9.0	93.9
13	3.1	97.1
10	2.4	99.5
2	0.5	100.0

	All	uTrTt	PtrCCs	muTrTs	PtrCCL	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	322	118	80	33	13	20	17	5	9	5
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.50	1.25	1.78	1.76	1.30	1.89	2.32	0.58	2.00	0.82
Median	1.20	1.00	1.50	1.50	0.70	1.50	1.80	0.50	2.10	0.50
Mode	0.50	0.50	0.50	0.50	0.50	0.90	1.30	0.50	0.50	0.50
Range	5.8	3.1	4.7	5.8	4.0	4.5	5.2	0.3	3.9	1.7
St Dev	1.04	0.75	1.16	1.21	1.12	1.11	1.43	0.12	1.24	0.52
Coef Var	0.696	0.597	0.652	0.686	0.857	0.590	0.617	0.205	0.622	0.632
Log Mean	0.080	0.025	0.160	0.153	-0.013	0.210	0.289	-0.245	0.205	-0.143
Geo Mean	1.20	1.06	1.45	1.42	0.97	1.62	1.95	0.57	1.60	0.72
Log StDv	0.288	0.252	0.289	0.293	0.328	0.243	0.267	0.083	0.326	0.214
Log CVar	3.602	10.509	1.807	1.914	-25.237	1.138	0.925	-0.338	1.590	-1.493
Percentls										
Minimum	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	0.5	0.8	1.1	0.5	0.5	0.5
20th	0.5	0.5	0.8	0.6	0.5	0.9	1.3	0.5	0.5	0.5
30th	0.8	0.7	1.0	0.8	0.5	1.0	1.3	0.5	0.7	0.5
40th	0.9	0.9	1.2	1.3	0.5	1.3	1.3	0.5	1.5	0.5
50th	1.2	1.0	1.5	1.5	0.7	1.5	1.8	0.5	2.1	0.5
60th	1.5	1.3	1.9	1.7	0.9	1.9	2.0	0.5	2.1	0.8
70th	1.9	1.6	2.1	2.0	1.6	2.2	2.7	0.6	2.2	0.9
80th	2.1	1.9	2.6	2.7	1.9	2.4	3.0	0.7	2.9	0.9
85th	2.5	2.0	3.0	2.7	2.7	2.6	3.8	0.8	3.5	1.2
90th	2.9	2.2	3.2	3.0	2.8	3.3	4.3	0.8	3.5	1.2
95th	3.5	2.8	4.0	3.6	3.3	3.5	4.6	0.8	4.4	2.2
98th	4.6	3.3	4.9	3.8	4.5	5.1	5.7	0.8	4.4	2.2
99th	5.1	3.5	5.1	6.3	4.5	5.1	5.7	0.8	4.4	2.2
Maximum	6.3	3.6	5.2	6.3	4.5	5.1	5.7	0.8	4.4	2.2

(Summary statistics not calculated for formations with fewer than ten values.)

Cesium by INAA

Summary Statistics



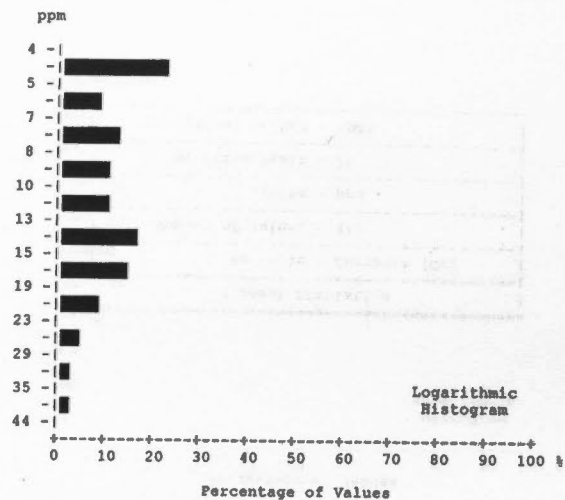
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	367	143	78	35	14	20	18	10	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	71.2	65.9	61.4	71.4	53.4	61.7	94.5	38.4	160.5	42.2
Median	57.0	57.0	58.0	62.0	27.0	52.0	86.0	26.0	120.0	30.0
Mode	20.0	20.0	20.0	110.0	20.0	32.0	86.0	20.0	100.0	23.0
Range	760	180	140	120	140	68	146	90	329	78
St Dev	61.98	38.13	33.92	36.75	47.28	22.98	44.99	25.62	112.66	24.76
Coef Var	0.870	0.578	0.553	0.515	0.886	0.373	0.476	0.668	0.702	0.587
Log Mean	1.752	1.747	1.711	1.791	1.592	1.761	1.923	1.517	2.110	1.565
Geo Mean	56.5	55.8	51.4	61.8	39.0	57.6	83.8	32.9	128.7	36.7
Log StDv	0.289	0.256	0.272	0.248	0.335	0.165	0.228	0.234	0.307	0.234
Log CVar	0.165	0.147	0.159	0.138	0.211	0.094	0.119	0.154	0.145	0.150
Percentls										
Minimum	20	20	20	20	20	32	34	20	41	22
10th	20	23	20	22	20	32	36	20	41	22
20th	30	33	22	37	20	39	50	20	51	22
30th	39	40	30	43	20	41	58	20	93	23
40th	48	46	47	54	20	48	75	25	100	23
50th	57	57	58	62	27	52	86	26	120	30
60th	69	68	67	73	34	70	98	30	130	50
70th	86	78	84	88	62	73	110	35	170	57
80th	100	100	93	110	71	82	130	53	240	57
85th	110	110	100	110	100	89	150	56	240	57
90th	120	120	110	120	150	93	150	67	350	57
95th	150	140	110	140	160	100	160	67	350	57
98th	180	160	120	140	160	100	180	110	370	100
99th	330	170	120	140	160	100	180	110	370	100
Maximum	780	200	160	140	160	100	180	110	370	100

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Chromium [Cr]
Number of Values - 413
Units - ppm
Detection Limit - 20
Analytical Method - INAA

Chromium by INAA

Summary Statistics



Element Statistics	
Variable - Cobalt [Co]	
Number of Values - 413	
Units - ppm	
Detection Limit - 5	
Analytical Method - INAA	

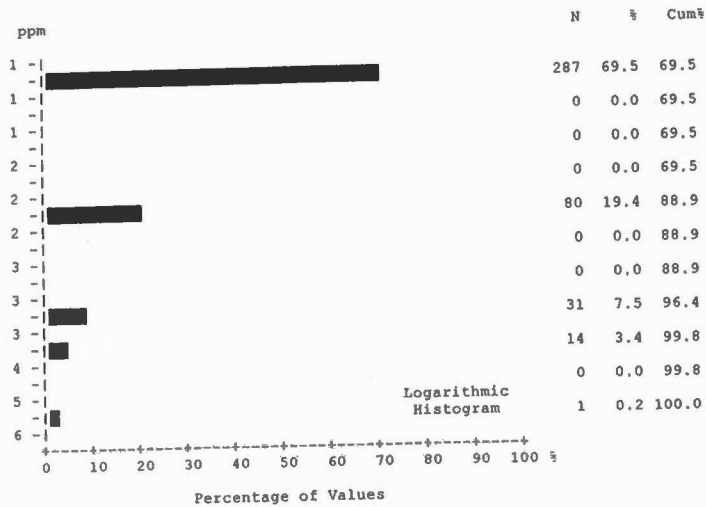
	N	%	Cum%
4	90	21.8	21.8
5	30	7.3	29.1
7	50	12.1	41.2
8	38	9.2	50.4
10	36	8.7	59.1
13	65	15.7	74.8
15	52	12.6	87.4
19	31	7.5	94.9
23	15	3.6	98.5
29	4	1.0	99.5
35	1	0.2	99.8
44			

	All	uTrTt	PtrCCs	muTrTs	PtrCCL	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	323	122	76	29	12	20	17	8	10	5
Missing	0	0	0	0	0	0	0	0	0	0
Mean	11.8	10.2	12.5	12.0	10.8	13.8	19.3	7.2	18.4	6.6
Median	10.0	9.0	13.0	11.0	7.0	14.0	16.0	6.0	17.0	5.0
Mode	5.0	5.0	5.0	5.0	5.0	10.0	12.0	5.0	5.0	5.0
Range	39	21	36	24	28	16	39	9	30	6
St Dev	6.55	5.18	6.37	6.55	8.18	4.09	9.52	2.64	9.07	2.25
Coef Var	0.557	0.506	0.508	0.545	0.756	0.297	0.493	0.365	0.494	0.339
Log Mean	1.007	0.959	1.042	1.018	0.936	1.118	1.233	0.835	1.202	0.802
Geo Mean	10.2	9.1	11.0	10.4	8.6	13.1	17.1	6.8	15.9	6.3
Log StDv	0.235	0.211	0.228	0.238	0.285	0.140	0.230	0.144	0.264	0.135
Log CVar	0.233	0.220	0.219	0.234	0.305	0.126	0.187	0.173	0.220	0.168
Percentls										
Minimum	5	5	5	5	5	6	5	5	5	5
10th	5	5	5	5	5	8	8	5	5	5
20th	5	5	6	5	5	10	12	5	5	5
30th	7	6	8	7	5	11	12	5	6	5
40th	8	7	10	8	5	11	12	5	13	5
50th	10	9	13	11	7	14	14	5	14	5
60th	13	11	15	12	7	14	16	6	17	5
70th	15	13	15	12	7	15	22	8	22	6
80th	17	15	17	14	12	16	24	8	23	8
85th	19	16	19	18	15	17	24	8	25	8
90th	21	18	21	20	22	18	27	9	25	8
95th	23	20	22	24	25	19	30	10	27	10
98th	27	23	23	26	33	22	44	14	35	11
99th	30	24	26	29	33	22	44	14	35	11
Maximum	44	26	41	29	33	22	44	14	35	11

(Summary statistics not calculated for formations with fewer than ten values.)

Cobalt by INAA

Summary Statistics



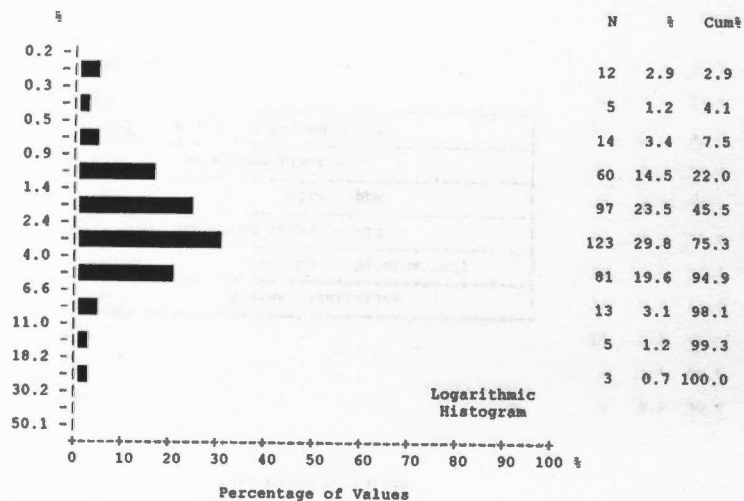
	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	126	37	40	10	6	12	9	0	6	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.5	1.3	1.7	1.3	1.4	2.2	2.0	1.0	1.6	1.0
Median	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0
Mode	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Range	4	3	4	2	3	3	3	0	2	0
St Dev	0.80	0.55	0.97	0.58	0.78	1.18	1.24	0.00	0.67	0.00
Coef Var	0.546	0.432	0.564	0.438	0.563	0.550	0.618	0.000	0.412	0.000
Log Mean	0.116	0.079	0.177	0.091	0.090	0.267	0.227	0.000	0.180	0.000
Geo Mean	1.3	1.2	1.5	1.2	1.3	1.9	1.7	1.0	1.5	1.0
Log StDv	0.186	0.147	0.218	0.156	0.182	0.247	0.256	0.000	0.180	0.000
Log CVar	1.606	1.881	1.241	1.732	1.835	0.924	1.126	0.000	0.999	0.000
Percentls										
Minimum	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1
30th	1	1	1	1	1	1	1	1	1	1
40th	1	1	1	1	1	1	1	1	1	1
50th	1	1	1	1	1	2	1	1	2	1
60th	1	1	2	1	1	2	2	1	2	1
70th	2	1	2	1	1	3	2	1	2	1
80th	2	2	3	2	2	3	3	1	2	1
85th	2	2	3	2	2	4	4	1	2	1
90th	3	2	3	2	2	4	4	1	2	1
95th	3	2	3	2	3	4	4	1	2	1
98th	4	3	4	3	4	4	4	1	3	1
99th	4	3	4	3	4	4	4	1	3	1
Maximum	5	4	5	3	4	4	4	1	3	1

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Hafnium [Hf]
Number of Values - 413
Units - ppm
Detection Limit - 1
Analytical Method - INAA

Hafnium by INAA

Summary Statistics



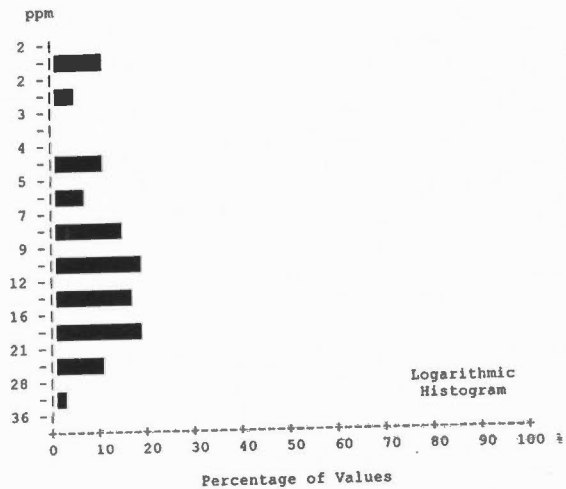
Element Statistics	
Variable -	Iron [Fe]
Number of Values -	413
Units -	%
Detection Limit -	0.20
Analytical Method -	INAA

	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	409	154	92	37	23	20	18	13	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	3.14	2.59	3.71	3.66	3.01	3.49	6.03	1.26	3.55	1.01
Median	2.60	2.20	3.40	2.70	1.90	3.10	3.80	1.00	4.50	1.10
Mode	2.00	1.60	2.00	2.70	0.90	4.40	2.30	0.30	4.50	0.30
Range	29.7	27.1	17.8	29.3	10.4	4.4	25.7	2.6	5.2	1.6
St Dev	2.94	2.47	2.40	4.66	2.67	1.19	5.87	0.91	1.70	0.61
Coef Var	0.937	0.956	0.647	1.274	0.885	0.342	0.973	0.726	0.479	0.602
Log Mean	0.380	0.309	0.498	0.441	0.336	0.520	0.646	-0.041	0.462	-0.094
Geo Mean	2.40	2.04	3.15	2.76	2.17	3.31	4.43	0.91	2.90	0.81
Log StDv	0.330	0.302	0.260	0.286	0.355	0.145	0.343	0.394	0.353	0.329
Log CVar	0.870	0.979	0.523	0.647	1.056	0.279	0.532	-9.842	0.763	-3.541
Percentls										
Minimum	0.2	0.2	0.2	0.6	0.6	2.0	0.8	0.2	0.4	0.3
10th	0.9	0.9	1.5	1.3	0.8	2.2	2.1	0.2	0.4	0.3
20th	1.4	1.3	2.0	1.7	1.0	2.3	2.3	0.3	1.1	0.3
30th	1.8	1.5	2.3	2.1	1.2	2.7	2.4	0.3	2.1	0.3
40th	2.2	1.8	2.9	2.6	1.4	2.8	3.1	0.9	2.9	0.4
50th	2.6	2.2	3.4	2.7	1.9	3.1	3.8	1.0	4.5	1.1
60th	3.0	2.4	3.8	2.9	2.7	3.6	5.3	1.3	4.5	1.3
70th	3.6	2.8	4.2	3.2	3.4	4.4	6.5	1.5	4.6	1.3
80th	4.3	3.7	4.7	4.0	4.1	4.4	6.6	2.0	4.7	1.6
85th	4.6	3.9	5.1	4.2	6.3	4.5	8.5	2.5	4.7	1.6
90th	5.3	4.3	5.8	4.5	6.6	4.9	9.3	2.6	5.0	1.7
95th	6.6	4.9	7.1	6.4	7.5	5.0	12.0	2.6	5.0	1.7
98th	10.0	7.3	10.0	6.7	11.0	6.4	26.5	2.8	5.6	1.9
99th	12.0	7.7	12.0	29.9	11.0	6.4	26.5	2.8	5.6	1.9
Maximum	29.9	27.3	18.0	29.9	11.0	6.4	26.5	2.8	5.6	1.9

(Summary statistics not calculated for formations with fewer than ten values.)

Iron by INAA

Summary Statistics



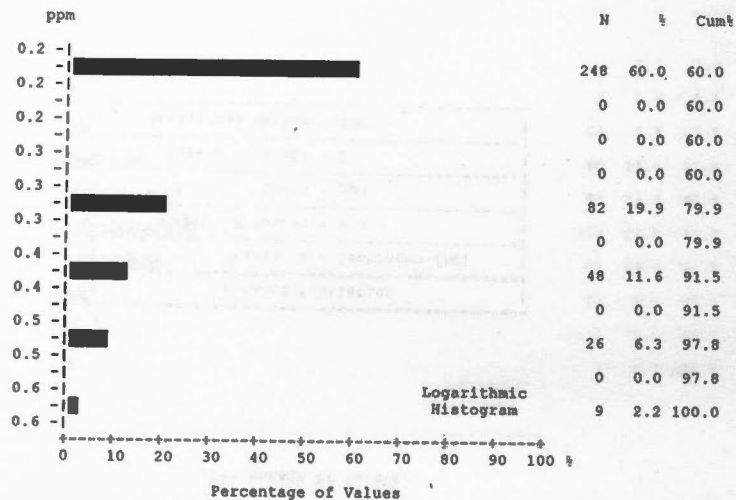
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413			413	156	93	37	23	20	18	14	11	11
N > DL	374			374	146	83	34	13	20	18	13	10	10
Missing	0			0	0	0	0	0	0	0	0	0	0
Mean	11.4	10.2	12.8	10.5	8.1	19.0	13.7	8.7	13.0	7.9			
Median	11.0	10.0	13.0	9.0	5.0	18.0	13.0	9.0	15.0	8.0			
Mode	2.0	10.0	2.0	9.0	2.0	15.0	10.0	9.0	4.0	5.0			
Range	30	21	23	30	21	18	16	12	18	10			
St Dev	6.44	5.16	7.03	6.52	7.46	5.05	5.17	3.58	6.74	3.56			
Coef Var	0.566	0.506	0.550	0.624	0.923	0.267	0.376	0.411	0.518	0.450			
Log Mean	0.963	0.938	1.004	0.929	0.715	1.263	1.102	0.893	1.019	0.844			
Geo Mean	9.2	8.7	10.1	8.5	5.2	18.3	12.6	7.8	10.5	7.0			
Log StDv	0.314	0.271	0.343	0.303	0.425	0.118	0.193	0.234	0.349	0.248			
Log CVar	0.326	0.289	0.341	0.327	0.594	0.093	0.175	0.262	0.343	0.293			
Percntls													
Minimum	2	2	2	2	2	11	5	2	2	2			
10th	3	3	2	3	2	12	6	2	2	2			
20th	5	5	5	5	2	14	10	5	4	4			
30th	7	7	8	6	2	15	10	6	4	5			
40th	9	8	10	8	2	16	13	8	11	5			
50th	11	10	13	9	5	18	13	9	15	8			
60th	13	12	15	11	6	20	14	9	17	10			
70th	15	13	18	12	10	22	18	11	18	10			
80th	17	14	19	16	14	23	18	12	19	12			
85th	18	16	20	17	19	25	19	12	19	12			
90th	20	18	23	17	20	25	20	13	19	12			
95th	23	19	23	20	23	26	21	13	19	12			
98th	24	21	24	23	23	29	21	14	20	12			
99th	25	21	25	32	23	29	21	14	20	12			
Maximum	32	23	25	32	23	29	21	14	20	12			

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Lanthanum [La]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - INAA

Lanthanum by INAA

Summary Statistics



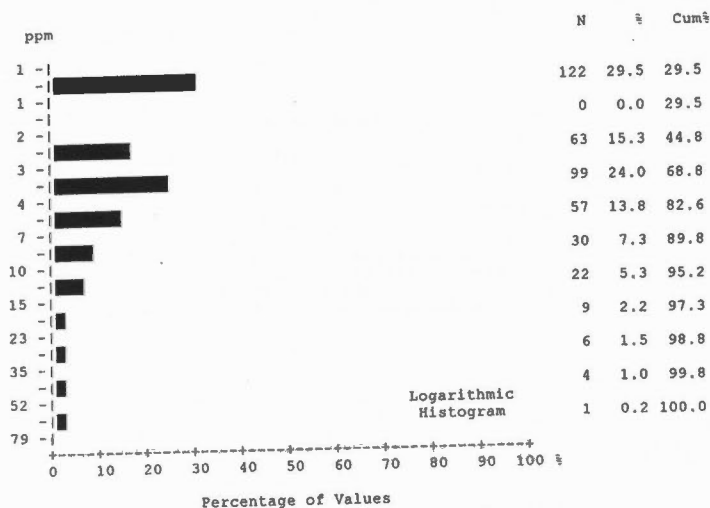
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	165	51	50	11	7	14	12	4	4	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.27	0.25	0.30	0.25	0.25	0.35	0.34	0.24	0.25	0.20
Median	0.20	0.20	0.30	0.20	0.20	0.40	0.30	0.20	0.20	0.20
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Range	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.2	0.2	0.0
St Dev	0.10	0.09	0.12	0.09	0.09	0.12	0.13	0.06	0.07	0.00
Coef Var	0.384	0.349	0.389	0.366	0.382	0.341	0.381	0.269	0.280	0.000
Log Mean	-0.594	-0.617	-0.556	-0.629	-0.627	-0.483	-0.500	-0.640	-0.624	-0.699
Geo Mean	0.25	0.24	0.28	0.23	0.24	0.33	0.32	0.23	0.24	0.20
Log StDv	0.143	0.127	0.154	0.123	0.127	0.161	0.168	0.102	0.110	0.000
Log CVar	-0.242	-0.206	-0.276	-0.195	-0.203	-0.334	-0.335	-0.159	-0.177	0.000
Percentls										
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50th	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2
60th	0.2	0.2	0.3	0.2	0.2	0.4	0.3	0.2	0.2	0.2
70th	0.3	0.3	0.3	0.2	0.2	0.4	0.4	0.2	0.3	0.2
80th	0.3	0.3	0.4	0.3	0.3	0.5	0.4	0.3	0.3	0.2
85th	0.4	0.4	0.4	0.3	0.3	0.5	0.5	0.3	0.3	0.2
90th	0.4	0.4	0.5	0.3	0.3	0.5	0.5	0.3	0.3	0.2
95th	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.3	0.3	0.2
98th	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.4	0.4	0.2
99th	0.6	0.5	0.6	0.6	0.6	0.5	0.6	0.4	0.4	0.2
Maximum	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.4	0.4	0.2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics	
Variable - Lutetium [Lu]	
Number of Values - 413	
Units - ppm	
Detection Limit - 0.20	
Analytical Method - INAA	

Lutetium by INAA

Summary Statistics



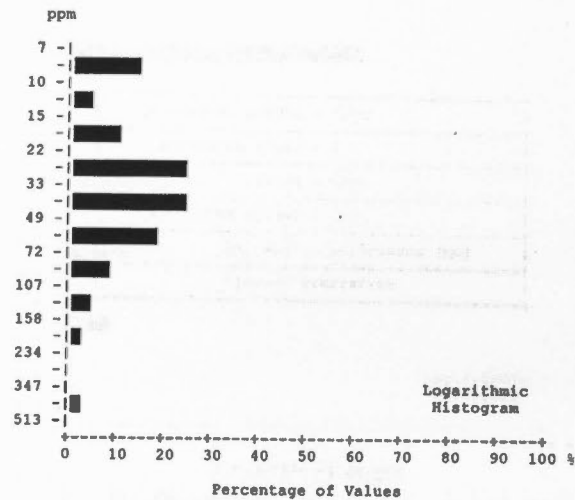
	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	291	118	66	26	17	12	12	10	6	8
Missing	0	0	0	0	0	0	0	0	0	0
Mean	4.7	4.8	5.2	6.7	3.3	3.1	2.7	2.9	3.4	3.5
Median	3.0	3.0	3.0	3.0	2.0	2.0	2.0	2.0	2.0	3.0
Mode	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0
Range	61	41	37	47	9	13	8	5	15	6
St Dev	6.46	5.57	7.07	9.16	2.81	3.09	1.97	1.79	4.41	2.11
Coef Var	1.378	1.169	1.362	1.372	0.838	0.998	0.739	0.627	1.311	0.612
Log Mean	0.463	0.507	0.472	0.554	0.400	0.348	0.333	0.371	0.326	0.444
Geo Mean	2.9	3.2	3.0	3.6	2.5	2.2	2.2	2.3	2.1	2.8
Log StDv	0.396	0.375	0.426	0.479	0.330	0.344	0.288	0.290	0.393	0.323
Log CVar	0.856	0.741	0.903	0.865	0.826	0.990	0.664	0.783	1.208	0.729
Percentls										
Minimum	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1
30th	2	2	2	1	2	1	1	1	1	1
40th	2	3	2	2	2	1	2	2	1	2
50th	3	3	3	3	2	2	2	2	2	3
60th	4	4	4	5	3	3	3	3	3	5
70th	5	5	4	6	4	4	4	4	4	5
80th	6	6	5	8	7	4	4	5	4	5
85th	7	7	7	11	7	6	4	6	5	6
90th	10	8	15	15	8	7	4	6	5	6
95th	15	12	22	18	10	9	6	6	16	7
98th	26	18	26	28	10	14	9	6	16	7
99th	35	31	32	48	10	14	9	6	16	7
Maximum	62	42	38	48	10	14	9	6	16	7

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Molybdenum [Mo]
Number of Values - 413
Units - ppm
Detection Limit - 1
Analytical Method - INAA

Molybdenum by INAA

Summary Statistics



Element Statistics	
Variable - Nickel [Ni]	
Number of Values - 413	
Units - ppm	
Detection Limit - 10	
Analytical Method - INAA	

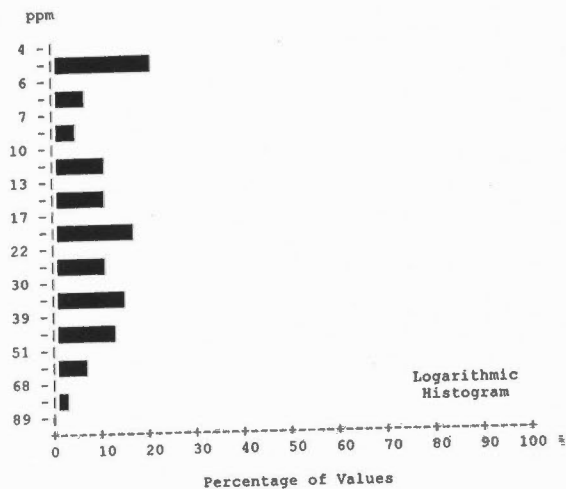
N	%	Cum%
55	13.3	13.3
13	3.1	16.5
38	9.2	25.7
94	22.8	48.4
96	23.2	71.7
68	16.5	88.1
30	7.3	95.4
11	2.7	98.1
4	1.0	99.0
0	0.0	99.0
4	1.0	100.0

	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	358	140	78	33	19	19	18	6	11	6
Missing	0	0	0	0	0	0	0	0	0	0
Mean	44.6	35.3	41.5	39.2	28.9	42.2	67.3	13.9	129.5	16.3
Median	34.0	32.0	38.0	40.0	21.0	36.0	52.0	10.0	71.0	14.0
Mode	10.0	10.0	10.0	10.0	10.0	18.0	51.0	10.0	200.0	10.0
Range	480	90	200	87	89	100	128	17	373	16
St Dev	48.91	17.72	29.44	18.08	22.06	26.89	35.83	5.69	112.62	6.90
Coef Var	1.097	0.503	0.709	0.461	0.763	0.637	0.532	0.409	0.870	0.424
Log Mean	1.523	1.488	1.519	1.538	1.363	1.548	1.770	1.115	1.997	1.176
Geo Mean	33.3	30.7	33.1	34.5	23.0	35.3	58.8	13.0	99.3	15.0
Log StDv	0.316	0.240	0.307	0.243	0.290	0.268	0.236	0.157	0.315	0.185
Log CVar	0.207	0.161	0.202	0.158	0.213	0.173	0.133	0.141	0.158	0.157
Percentls										
Minimum	10	10	10	10	10	10	22	10	47	10
10th	10	10	10	10	10	18	29	10	47	10
20th	18	21	17	24	11	19	33	10	52	10
30th	24	25	28	30	16	20	38	10	53	10
40th	29	29	33	34	17	33	51	10	54	10
50th	34	32	38	40	21	36	52	10	71	14
60th	41	37	41	42	23	39	62	10	110	17
70th	47	43	48	49	31	46	91	16	150	24
80th	57	48	59	53	40	48	94	18	200	24
85th	62	54	63	56	50	64	98	20	200	24
90th	76	57	75	58	57	74	110	22	200	24
95th	100	66	88	60	65	100	120	22	200	24
98th	150	80	100	60	99	110	150	27	420	26
99th	210	83	110	97	99	110	150	27	420	26
Maximum	490	100	210	97	99	110	150	27	420	26

(Summary statistics not calculated for formations with fewer than ten values.)

Nickel by INAA

Summary Statistics



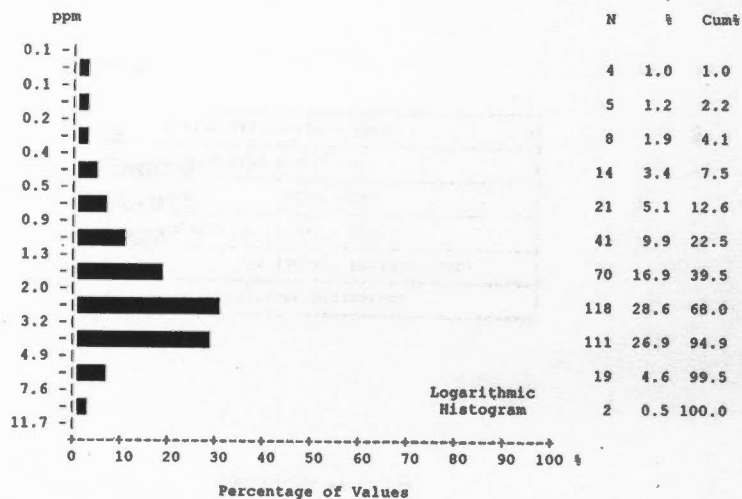
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413												
N > DL	333												
Missing	0												
Mean	23.2	19.3	28.6	24.9	20.0	26.5	35.6	9.5	34.5	12.8			
Median	19.0	15.0	25.0	22.0	8.0	20.0	29.0	8.0	42.0	8.0			
Mode	5.0	5.0	5.0	5.0	18.0	5.0	5.0	5.0	5.0	5.0			
Range	77	59	77	63	64	42	72	16	63	31			
St Dev	17.04	13.59	19.05	17.89	20.06	12.31	21.79	5.17	22.28	10.29			
Coef Var	0.735	0.706	0.666	0.719	1.005	0.465	0.612	0.544	0.645	0.803			
Log Mean	1.233	1.168	1.335	1.255	1.100	1.369	1.460	0.921	1.389	0.992			
Geo Mean	17.1	14.7	21.6	18.0	12.6	23.4	28.8	8.3	24.5	9.8			
Log StDv	0.358	0.331	0.357	0.385	0.418	0.238	0.315	0.227	0.440	0.325			
Log CVar	0.290	0.283	0.268	0.307	0.381	0.174	0.215	0.246	0.317	0.328			
Percntls													
Minimum	5	5	5	5	5	5	5	5	5	5			
10th	5	5	5	5	5	14	9	5	5	5			
20th	6	5	10	5	5	17	18	5	5	5			
30th	11	10	17	10	5	18	20	5	7	5			
40th	15	12	21	16	6	18	24	5	17	5			
50th	19	15	25	22	8	20	29	8	42	8			
60th	24	20	32	27	11	28	35	8	43	12			
70th	31	25	37	35	25	35	40	11	46	15			
80th	37	33	42	39	29	40	53	13	48	22			
85th	41	36	48	41	46	41	61	15	48	22			
90th	47	38	55	46	51	43	67	16	58	23			
95th	55	44	65	51	59	44	72	16	58	23			
98th	68	51	75	67	69	47	77	21	68	36			
99th	72	52	76	68	69	47	77	21	68	36			
Maximum	82	64	82	68	69	47	77	21	68	36			

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Rubidium (Rb)
Number of Values - 413
Units - ppm
Detection Limit - 5
Analytical Method - INAA

Rubidium by INAA

Summary Statistics



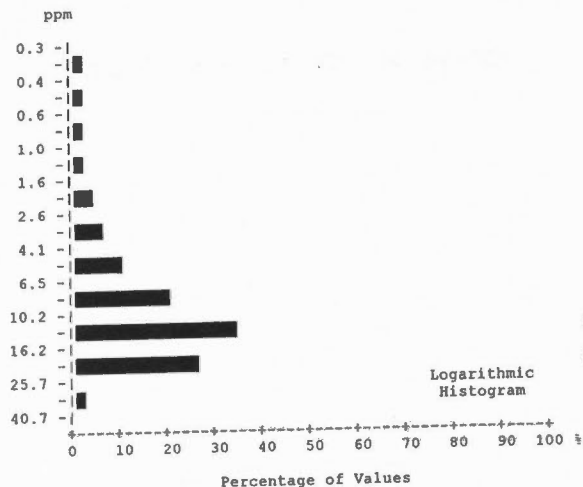
Element Statistics	
Variable - Samarium (Sm)	
Number of Values - 413	
Units - ppm	
Detection Limit - 0.1	
Analytical Method - INAA	

	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	409	155	92	36	22	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	2.54	2.35	2.80	2.15	1.65	4.02	2.98	2.21	2.99	1.79
Median	2.50	2.30	2.90	2.00	0.80	3.90	2.90	2.10	3.30	1.90
Mode	1.60	1.40	1.60	0.90	0.40	3.30	1.10	1.60	1.00	0.20
Range	8.3	5.0	8.3	4.8	4.8	3.7	3.7	2.5	4.4	2.5
St Dev	1.43	1.11	1.61	1.22	1.63	1.06	1.17	0.77	1.58	0.73
Coef Var	0.563	0.474	0.575	0.565	0.992	0.265	0.394	0.350	0.530	0.407
Log Mean	0.306	0.305	0.335	0.240	-0.021	0.589	0.436	0.313	0.356	0.186
Geo Mean	2.03	2.02	2.16	1.74	0.95	3.88	2.73	2.06	2.27	1.53
Log StDv	0.338	0.274	0.370	0.335	0.492	0.118	0.197	0.183	0.425	0.318
Log CVar	1.106	0.898	1.109	1.395	-24.583	0.200	0.453	0.585	1.198	1.717
Percentls										
Minimum	0.1	0.1	0.1	0.1	0.1	2.3	1.1	0.7	0.2	0.2
10th	0.7	0.9	0.5	0.6	0.2	2.6	1.1	0.7	0.2	0.2
20th	1.2	1.4	1.1	0.9	0.4	3.0	2.0	1.6	1.0	1.1
30th	1.6	1.7	1.7	1.3	0.4	3.3	2.1	1.6	1.0	1.3
40th	2.1	1.9	2.4	1.7	0.6	3.6	2.6	1.9	2.6	1.5
50th	2.5	2.3	2.9	2.0	0.8	3.9	2.9	2.1	3.3	1.9
60th	2.8	2.6	3.2	2.3	1.0	4.3	3.0	2.2	4.0	2.1
70th	3.2	2.9	3.7	2.7	2.0	4.5	3.7	2.7	4.1	2.2
80th	3.8	3.4	4.1	3.4	3.1	4.8	4.3	3.0	4.4	2.4
85th	4.0	3.8	4.3	3.4	3.9	4.9	4.3	3.1	4.4	2.4
90th	4.4	3.9	4.8	3.7	4.5	5.5	4.4	3.2	4.5	2.5
95th	4.8	4.1	5.1	4.5	4.9	5.8	4.6	3.2	4.5	2.5
98th	5.5	4.8	5.8	4.5	4.9	6.0	4.8	3.2	4.6	2.7
99th	6.0	4.8	6.6	4.9	4.9	6.0	4.8	3.2	4.6	2.7
Maximum	8.4	5.1	8.4	4.9	4.9	6.0	4.8	3.2	4.6	2.7

(Summary statistics not calculated for formations with fewer than ten values.)

Samarium by INAA

Summary Statistics



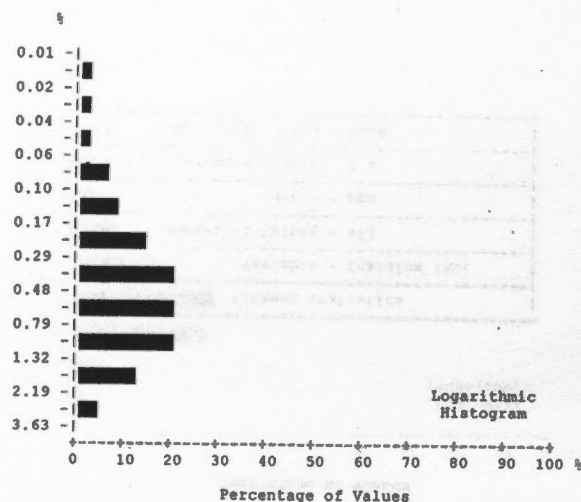
	N	\bar{x}	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413			413	156	93	37	23	20	18	14	11	11
N > DL	413			413	156	93	37	23	20	18	14	11	11
Missing	0			0	0	0	0	0	0	0	0	0	0
Mean	12.33	12.36	13.18	12.12	8.04	14.97	16.23	8.14	14.79	7.58			
Median	12.00	12.00	14.00	13.00	4.30	14.00	17.00	8.20	19.00	7.70			
Mode	12.00	14.00	15.00	13.00	0.90	10.00	17.00	8.20	19.00	10.00			
Range	27.3	26.4	24.7	27.2	21.9	11.1	18.9	9.1	23.4	9.4			
St Dev	6.19	5.65	6.59	6.63	7.26	3.64	5.89	2.60	7.98	2.95			
Coef Var	0.502	0.457	0.500	0.547	0.902	0.243	0.363	0.320	0.539	0.389			
Log Mean	1.008	1.029	1.034	0.983	0.703	1.163	1.180	0.885	1.044	0.832			
Geo Mean	10.18	10.70	10.82	9.62	5.05	14.54	15.13	7.68	11.06	6.80			
Log StDv	0.317	0.275	0.321	0.364	0.451	0.108	0.173	0.163	0.435	0.244			
Log CVar	0.315	0.267	0.310	0.370	0.642	0.093	0.147	0.184	0.417	0.293			
Percentis													
Minimum	0.3	0.3	0.9	0.4	0.9	10.0	6.8	2.9	1.0	1.6			
10th	3.7	5.2	3.4	3.6	1.1	10.0	8.4	2.9	1.0	1.6			
20th	6.4	7.3	6.0	5.9	1.8	11.0	10.0	6.2	3.7	4.4			
30th	8.9	9.0	10.0	7.3	2.2	12.0	11.0	6.3	5.2	5.9			
40th	11.0	10.0	12.0	10.0	2.7	13.0	14.0	7.1	14.0	6.0			
50th	12.0	12.0	14.0	13.0	4.3	14.0	17.0	8.2	19.0	7.7			
60th	14.0	14.0	15.0	13.0	5.8	16.0	17.0	8.2	19.0	10.0			
70th	16.0	15.0	16.0	15.0	12.0	17.0	19.0	9.5	19.0	10.0			
80th	18.0	17.0	19.0	17.0	14.0	18.0	22.3	10.0	20.0	10.0			
85th	19.0	19.0	21.4	18.0	18.0	19.0	22.8	11.0	20.0	10.0			
90th	21.2	20.1	22.0	20.0	19.0	20.0	23.8	12.0	22.4	10.0			
95th	22.7	22.3	23.0	23.7	21.2	20.2	24.1	12.0	22.4	10.0			
98th	24.4	23.9	25.2	23.8	22.8	21.1	25.7	12.0	24.4	11.0			
99th	25.6	24.5	25.3	27.6	22.8	21.1	25.7	12.0	24.4	11.0			
Maximum	27.6	26.7	25.6	27.6	22.8	21.1	25.7	12.0	24.4	11.0			

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Scandium [Sc]
Number of Values - 413
Units - ppm
Detection Limit - 0.1
Analytical Method - INAA

Scandium by INAA

Summary Statistics



N	%	Cum%
1	0.2	0.2
2	0.5	0.7
7	1.7	2.4
20	4.8	7.3
31	7.5	14.8
54	13.1	27.8
77	18.6	46.5
82	19.9	66.3
79	19.1	85.5
49	11.9	97.3
11	2.7	100.0

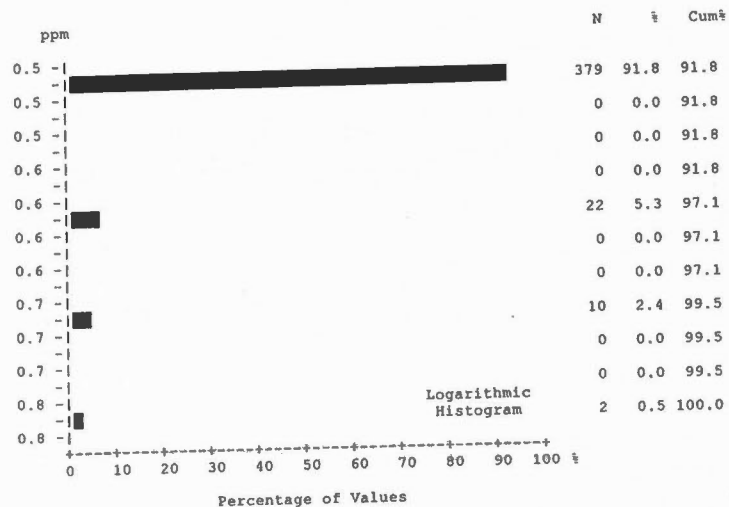
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	412	156	92	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.70	0.68	0.74	0.72	0.52	0.96	0.92	0.37	1.09	0.46
Median	0.50	0.46	0.59	0.57	0.23	0.63	1.00	0.21	1.20	0.20
Mode	1.20	1.20	1.00	1.10	0.07	0.46	1.10	0.08	0.08	0.06
Range	2.82	2.57	2.52	2.16	1.77	2.62	1.38	1.12	2.20	1.14
St Dev	0.57	0.57	0.55	0.53	0.57	0.74	0.46	0.32	0.80	0.42
Coef Var	0.813	0.840	0.747	0.738	1.085	0.770	0.495	0.882	0.733	0.923
Log Mean	-0.319	-0.326	-0.267	-0.287	-0.560	-0.138	-0.112	-0.588	-0.157	-0.562
Geo Mean	0.48	0.47	0.54	0.52	0.28	0.73	0.77	0.26	0.70	0.27
Log StDv	0.408	0.392	0.377	0.402	0.532	0.334	0.296	0.385	0.512	0.492
Log CVar	-1.282	-1.201	-1.410	-1.405	-0.950	-2.419	-2.640	-0.654	-3.284	-0.877
Percntls										
Minimum	0.02	0.05	0.02	0.03	0.03	0.22	0.22	0.08	0.08	0.06
10th	0.13	0.13	0.19	0.16	0.05	0.24	0.25	0.08	0.08	0.06
20th	0.22	0.21	0.26	0.27	0.07	0.30	0.30	0.10	0.12	0.07
30th	0.30	0.29	0.34	0.33	0.13	0.46	0.34	0.11	0.24	0.09
40th	0.41	0.39	0.46	0.45	0.17	0.57	0.88	0.18	0.53	0.13
50th	0.50	0.46	0.59	0.57	0.23	0.63	1.00	0.21	1.20	0.20
60th	0.66	0.59	0.76	0.63	0.36	0.84	1.10	0.31	1.40	0.57
70th	0.91	0.81	0.93	0.95	0.59	0.94	1.10	0.47	1.50	0.65
80th	1.10	1.10	1.20	1.10	1.00	1.70	1.20	0.56	1.90	0.89
85th	1.30	1.30	1.30	1.20	1.10	1.80	1.40	0.58	1.90	0.89
90th	1.50	1.50	1.50	1.50	1.40	2.00	1.40	0.77	2.03	1.00
95th	1.80	1.80	1.70	1.60	1.80	2.03	1.50	0.77	2.03	1.00
98th	2.21	2.21	2.40	1.70	1.80	2.84	1.60	1.20	2.28	1.20
99th	2.40	2.31	2.53	2.19	1.80	2.84	1.60	1.20	2.28	1.20
Maximum	2.84	2.62	2.54	2.19	1.80	2.84	1.60	1.20	2.28	1.20

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Sodium [Na]
Number of Values - 413
Units - %
Detection Limit - 0.02
Analytical Method - INAA

Sodium by INAA

Summary Statistics



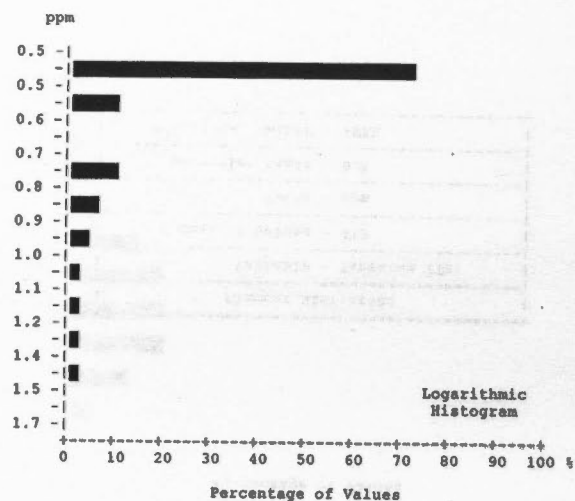
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	34	5	11	5	3	2	4	0	1	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.51	0.51	0.51	0.52	0.53	0.51	0.53	0.50	0.52	0.50
Median	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Mode	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Range	0.3	0.3	0.2	0.2	0.2	0.1	0.2	0.0	0.2	0.0
St Dev	0.04	0.04	0.04	0.04	0.07	0.03	0.07	0.00	0.06	0.00
Coef Var	0.083	0.077	0.079	0.086	0.131	0.060	0.129	0.000	0.116	0.000
Log Mean	-0.292	-0.296	-0.290	-0.289	-0.282	-0.293	-0.276	-0.301	-0.288	-0.301
Geo Mean	0.51	0.51	0.51	0.51	0.52	0.51	0.53	0.50	0.52	0.50
Log StDv	0.031	0.027	0.031	0.034	0.050	0.024	0.051	0.000	0.044	0.000
Log CVar	-0.107	-0.092	-0.107	-0.117	-0.179	-0.083	-0.185	0.000	-0.154	0.000
Percentls										
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
40th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
50th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
60th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80th	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5
85th	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5
90th	0.5	0.5	0.6	0.6	0.7	0.5	0.6	0.5	0.5	0.5
95th	0.6	0.5	0.6	0.6	0.7	0.6	0.7	0.5	0.5	0.5
98th	0.7	0.6	0.6	0.6	0.7	0.6	0.7	0.5	0.7	0.5
99th	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.5	0.7	0.5
Maximum	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.5	0.7	0.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Tantalum [Ta]
Number of Values - 413
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

Tantalum by INAA

Summary Statistics



N	%	Cum%
297	71.9	71.9
39	9.4	81.4
0	0.0	81.4
37	9.0	90.3
21	5.1	95.4
13	3.1	98.5
2	0.5	99.0
1	0.2	99.3
2	0.5	99.8
1	0.2	100.0

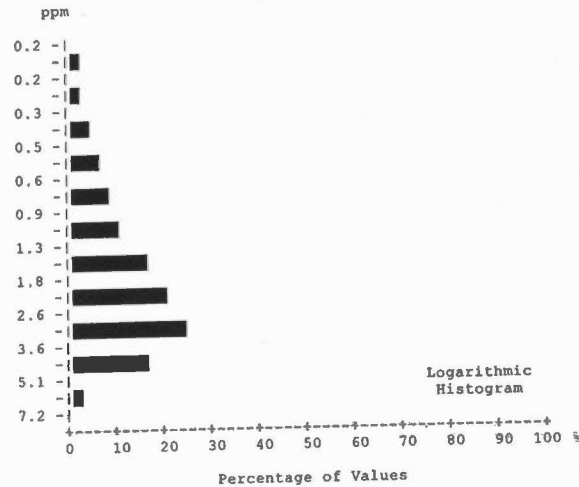
	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	116	33	33	4	5	16	8	2	4	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.57	0.54	0.60	0.52	0.53	0.69	0.59	0.53	0.58	0.50
Median	0.50	0.50	0.50	0.50	0.50	0.70	0.50	0.50	0.50	0.50
Mode	0.50	0.50	0.50	0.50	0.50	0.70	0.50	0.50	0.50	0.50
Range	1.0	0.4	1.0	0.2	0.3	0.5	0.4	0.3	0.3	0.0
St Dev	0.13	0.08	0.17	0.05	0.08	0.16	0.13	0.08	0.12	0.00
Coef Var	0.234	0.157	0.281	0.097	0.145	0.230	0.220	0.156	0.201	0.000
Log Mean	-0.257	-0.274	-0.234	-0.289	-0.275	-0.172	-0.235	-0.281	-0.243	-0.301
Geo Mean	0.55	0.53	0.58	0.51	0.53	0.67	0.58	0.52	0.57	0.50
Log StDv	0.083	0.059	0.102	0.037	0.055	0.097	0.088	0.057	0.083	0.000
Log CVar	-0.323	-0.216	-0.435	-0.129	-0.200	-0.565	-0.375	-0.203	-0.341	0.000
Percentls										
Minimum	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
10th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
20th	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30th	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5
40th	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5	0.5	0.5
50th	0.5	0.5	0.5	0.5	0.5	0.7	0.5	0.5	0.5	0.5
60th	0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.5	0.5	0.5
70th	0.5	0.5	0.7	0.5	0.5	0.7	0.6	0.5	0.7	0.5
80th	0.6	0.6	0.7	0.5	0.5	0.8	0.7	0.5	0.7	0.5
85th	0.7	0.6	0.8	0.5	0.6	0.9	0.7	0.5	0.7	0.5
90th	0.7	0.6	0.8	0.5	0.6	0.9	0.8	0.6	0.7	0.5
95th	0.8	0.8	0.9	0.6	0.7	1.0	0.8	0.6	0.7	0.5
98th	0.9	0.8	0.9	0.7	0.8	1.0	0.9	0.8	0.8	0.5
99th	1.0	0.8	1.1	0.7	0.8	1.0	0.9	0.8	0.8	0.5
Maximum	1.5	0.9	1.5	0.7	0.8	1.0	0.9	0.8	0.8	0.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Terbium (Tb)
Number of Values - 413
Units - ppm
Detection Limit - 0.5
Analytical Method - INAA

Terbium by INAA

Summary Statistics



	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413												
N > DL	408												
Missing	0												
Mean	2.27	1.97	2.69	2.25	1.79	3.48	3.19	1.24	2.95	1.25			
Median	2.10	1.80	2.60	2.00	0.90	3.50	3.00	1.20	2.90	1.00			
Mode	1.20	1.20	2.60	1.30	0.50	2.00	1.10	0.30	1.80				
Range	5.6	4.5	5.3	5.6	4.9	3.8	4.6	1.8	4.8	2.4			
St Dev	1.33	1.00	1.43	1.33	1.70	1.06	1.42	0.55	1.68	0.81			
Coef Var	0.583	0.508	0.533	0.589	0.947	0.305	0.444	0.447	0.571	0.646			
Log Mean	0.261	0.228	0.336	0.259	0.046	0.522	0.458	0.040	0.350	-0.013			
Geo Mean	1.82	1.69	2.17	1.82	1.11	3.33	2.87	1.10	2.24	0.97			
Log StDv	0.320	0.262	0.331	0.320	0.449	0.133	0.213	0.240	0.402	0.357			
Log CVar	1.225	1.155	0.986	1.235	9.754	0.255	0.465	6.152	1.147	-29.711			
Percentls													
Minimum	0.2	0.2	0.2	0.2	2.0	1.1	0.3	0.3	0.3	0.2			
10th	0.6	0.7	0.6	0.6	2.0	1.1	0.3	0.3	0.3	0.2			
20th	1.0	1.1	1.1	1.1	2.4	2.1	0.7	0.7	0.7	0.4			
30th	1.3	1.3	2.0	1.3	2.7	2.1	0.8	1.0	0.5				
40th	1.8	1.5	2.3	1.6	3.0	2.6	1.1	2.4	0.6				
50th	2.1	1.8	2.6	2.0	3.5	3.0	1.2	2.9	1.0				
60th	2.5	2.1	3.1	2.4	3.7	3.1	1.3	4.0	1.8				
70th	3.0	2.4	3.4	2.9	3.8	3.5	1.4	4.2	1.9				
80th	3.5	3.0	4.1	3.4	4.1	4.3	1.5	4.4	1.9				
85th	3.8	3.2	4.3	3.5	4.1	4.8	1.9	4.4	2.1				
90th	4.1	3.5	4.8	3.8	5.1	5.3	2.1	4.6	2.1				
95th	4.8	3.8	5.0	4.6	5.1	5.6	2.1	5.1	2.6				
98th	5.2	3.9	5.2	4.8	5.1	5.8	2.1	5.1	2.6				
99th	5.5	4.0	5.4	5.8	5.1	5.8	2.1	5.1	2.6				
Maximum	5.8	4.7	5.5	5.8	5.1	5.8	2.1	5.1	2.6				

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Thorium [Th]
Number of Values - 413
Units - ppm
Detection Limit - 0.2
Analytical Method - INAA

Thorium by INAA

Summary Statistics

Histograms are not calculated for variables with fewer than 15 samples above the detection limit.

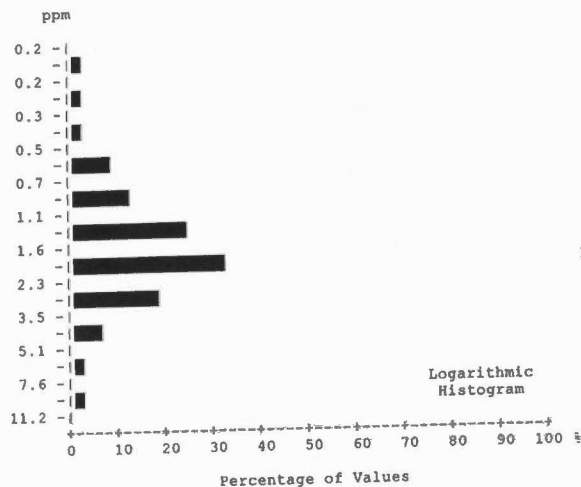
Element Statistics	
Variable - Tungsten [W]	
Number of Values - 413	
Units - ppm	
Detection Limit - 1	
Analytical Method - INAA	

	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	10	5	1	0	2	2	0	0	0	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.0	1.0	1.0	1.0	1.2	1.1	1.0	1.0	1.0	1.0
Median	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mode	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Range	3	2	3	0	3	1	0	0	0	0
St Dev	0.26	0.22	0.31	0.00	0.65	0.31	0.00	0.00	0.00	0.00
Coef Var	0.254	0.216	0.301	0.000	0.554	0.280	0.000	0.000	0.000	0.000
Log Mean	0.009	0.011	0.006	0.000	0.039	0.030	0.000	0.000	0.000	0.000
Geo Mean	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0	1.0	1.0
Log StDv	0.061	0.061	0.062	0.000	0.138	0.093	0.000	0.000	0.000	0.000
Log CVar	6.820	6.075	10.405	0.000	3.533	3.089	0.000	0.000	0.000	0.000
Percentile										
Minimum	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1
30th	1	1	1	1	1	1	1	1	1	1
40th	1	1	1	1	1	1	1	1	1	1
50th	1	1	1	1	1	1	1	1	1	1
60th	1	1	1	1	1	1	1	1	1	1
70th	1	1	1	1	1	1	1	1	1	1
80th	1	1	1	1	1	1	1	1	1	1
85th	1	1	1	1	1	1	1	1	1	1
90th	1	1	1	1	1	1	1	1	1	1
95th	1	1	1	1	1	1	1	1	1	1
98th	2	2	1	1	4	2	1	1	1	1
99th	2	2	1	1	4	2	1	1	1	1
Maximum	4	3	4	1	4	2	1	1	1	1

(Summary statistics not calculated for formations with fewer than ten values.)

Tungsten by INAA

Summary Statistics



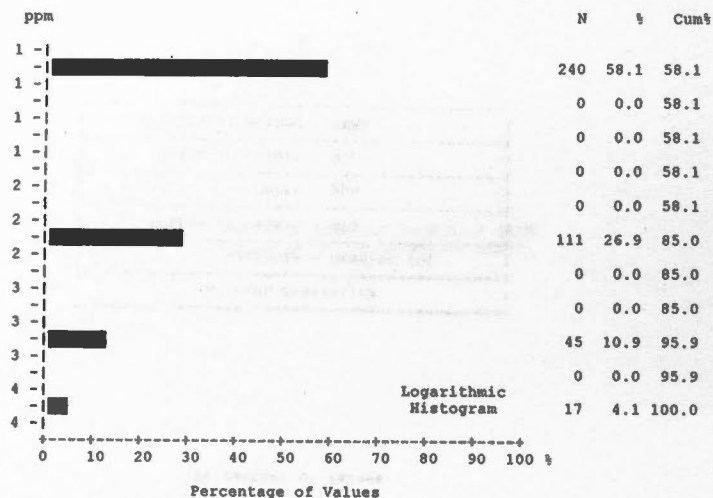
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413			413	156	93	37	23	20	18	14	11	11
N > DL	406			406	152	92	36	23	20	18	14	11	11
Missing	0			0	0	0	0	0	0	0	0	0	0
Mean	1.91			1.91	1.63	2.28	2.19	2.56	2.50	1.82	1.04	1.85	1.44
Median	1.70			1.70	1.50	2.10	1.80	2.40	2.10	1.50	0.80	2.10	1.10
Mode	1.40			1.40	0.90	2.10	1.40	1.20	1.90	1.20	0.80	2.10	0.60
Range	10.8			10.8	6.0	10.8	7.2	6.7	6.1	2.7	3.2	2.4	3.1
St Dev	1.26			1.26	0.93	1.55	1.56	1.52	1.45	0.84	0.75	0.73	0.97
Coef Var	0.659			0.659	0.568	0.680	0.713	0.595	0.581	0.461	0.723	0.393	0.674
Log Mean	0.201			0.201	0.143	0.287	0.250	0.326	0.349	0.204	-0.049	0.219	0.081
Geo Mean	1.59			1.59	1.39	1.94	1.78	2.12	2.23	1.60	0.89	1.66	1.21
Log StDv	0.276			0.276	0.262	0.252	0.293	0.297	0.198	0.246	0.229	0.243	0.261
Log CVar	1.374			1.374	1.832	0.878	1.174	0.914	0.569	1.207	-4.664	1.113	3.220
Percentls													
Minimum	0.2			0.2	0.2	0.2	0.2	0.4	1.1	0.4	0.3	0.4	0.6
10th	0.7			0.7	0.7	0.9	0.7	0.5	1.2	0.7	0.3	0.4	0.6
20th	1.0			1.0	0.9	1.3	1.3	1.2	1.5	1.2	0.7	1.1	0.6
30th	1.2			1.2	1.1	1.6	1.4	1.5	1.7	1.2	0.7	1.2	0.7
40th	1.5			1.5	1.3	1.8	1.5	2.0	1.9	1.4	0.8	1.6	0.8
50th	1.7			1.7	1.5	2.1	1.8	2.4	2.1	1.5	0.8	2.1	1.1
60th	2.0			2.0	1.6	2.2	2.0	2.8	2.3	2.0	0.9	2.1	1.3
70th	2.2			2.2	2.0	2.5	2.1	2.9	2.7	2.6	1.0	2.1	1.4
80th	2.6			2.6	2.2	2.8	2.6	3.0	2.8	2.7	1.1	2.4	2.1
85th	2.8			2.8	2.4	3.1	2.7	3.8	2.8	2.7	1.2	2.4	2.1
90th	3.1			3.1	2.6	3.6	3.7	3.9	3.0	2.8	1.2	2.7	2.5
95th	3.8			3.8	3.0	4.0	5.3	5.1	5.5	2.8	1.2	2.7	2.5
98th	5.5			5.5	4.3	4.7	6.5	7.1	7.2	3.1	3.5	2.8	3.7
99th	7.1			7.1	4.5	10.0	7.4	7.1	7.2	3.1	3.5	2.8	3.7
Maximum	11.0			11.0	6.2	11.0	7.4	7.1	7.2	3.1	3.5	2.8	3.7

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Uranium [U]
Number of Values - 413
Units - ppm
Detection Limit - 0.2
Analytical Method - INAA

Uranium by INAA

Summary Statistics



Element Statistics	
Variable - Ytterbium [Yb]	
Number of Values - 413	
Units - ppm	
Detection Limit - 1	
Analytical Method - INAA	

	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	173	42	58	15	7	16	11	3	8	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.6	1.3	2.0	1.5	1.4	2.4	2.2	1.2	1.7	1.0
Median	1.0	1.0	2.0	1.0	1.0	2.0	2.0	1.0	2.0	1.0
Mode	1.0	1.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0
Range	3	3	3	2	3	3	3	1	1	0
St Dev	0.84	0.63	0.94	0.65	0.79	0.94	1.17	0.43	0.47	0.00
Coef Var	0.521	0.468	0.477	0.438	0.549	0.392	0.525	0.351	0.270	0.000
Log Mean	0.158	0.093	0.246	0.136	0.112	0.341	0.283	0.065	0.219	0.000
Geo Mean	1.4	1.2	1.8	1.4	1.3	2.2	1.9	1.2	1.7	1.0
Log StDv	0.198	0.160	0.212	0.173	0.185	0.200	0.249	0.128	0.141	0.000
Log CVar	1.263	1.739	0.860	1.275	1.652	0.586	0.880	2.003	0.645	0.000
Percentls										
Minimum	1	1	1	1	1	1	1	1	1	1
10th	1	1	1	1	1	1	1	1	1	1
20th	1	1	1	1	1	1	1	1	1	1
30th	1	1	1	1	1	2	1	1	1	1
40th	1	1	2	1	1	2	1	1	2	1
50th	1	1	2	1	1	2	2	1	2	1
60th	2	1	2	1	1	3	3	1	2	1
70th	2	1	2	2	1	3	3	1	2	1
80th	2	2	3	2	2	3	3	1	2	1
85th	2	2	3	2	2	3	3	2	2	1
90th	3	2	3	2	2	3	4	2	2	1
95th	3	3	4	3	3	4	4	2	2	1
98th	4	3	4	3	4	4	4	2	2	1
99th	4	3	4	3	4	4	4	2	2	1
Maximum	4	4	4	3	4	4	4	2	2	1

(Summary statistics not calculated for formations with fewer than ten values.)

Ytterbium by INAA

Summary Statistics

Histograms are not calculated for variables with fewer than 15 samples above the detection limit.

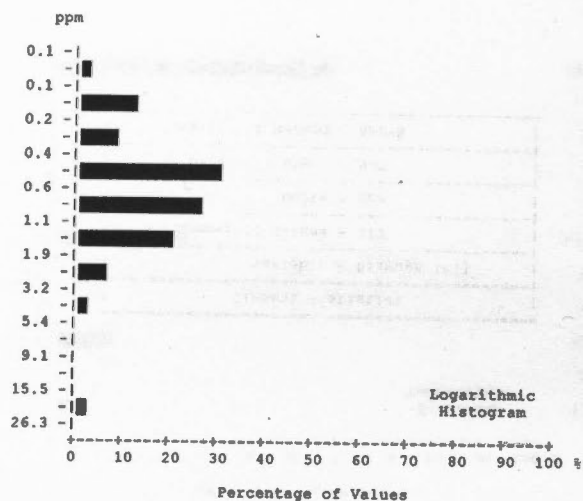
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	3	2	0	1	0	0	0	0	0	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.20	0.20	0.20	0.21	0.20	0.20	0.20	0.20	0.20	0.20
Median	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Range	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
St Dev	0.01	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Coef Var	0.060	0.056	0.000	0.160	0.000	0.000	0.000	0.000	0.000	0.000
Log Mean	-0.697	-0.697	-0.699	-0.691	-0.699	-0.699	-0.699	-0.699	-0.699	-0.699
Geo Mean	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Log StDv	0.019	0.020	0.000	0.049	0.000	0.000	0.000	0.000	0.000	0.000
Log CVar	-0.028	-0.029	0.000	-0.072	0.000	0.000	0.000	0.000	0.000	0.000
Percntls										
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
40th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
50th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
60th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
80th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
85th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
95th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
98th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
99th	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2
Maximum	0.4	0.3	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Bismuth [Bi]
Number of Values - 413
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS-H

Bismuth by AAS-H

Summary Statistics



N	%	Cum%
2	0.5	0.5
50	12.1	12.6
29	7.0	19.6
120	29.1	48.7
106	25.7	74.3
83	20.1	94.4
20	4.8	99.3
2	0.5	99.8
0	0.0	99.8
0	0.0	99.8
1	0.2	100.0

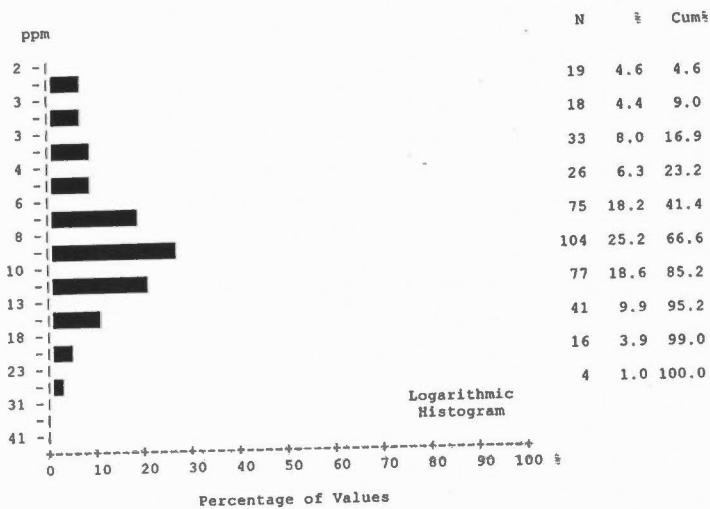
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	411	154	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.85	1.01	0.80	0.80	0.67	0.35	0.83	0.74	0.65	0.95
Median	0.70	0.80	0.60	0.60	0.40	0.30	0.70	0.80	0.50	0.80
Mode	0.20	0.60	0.20	0.60	0.40	0.20	0.40	0.80	0.20	0.60
Range	19.9	19.9	3.1	3.8	1.8	0.6	1.6	1.0	1.8	1.7
St Dev	1.09	1.60	0.62	0.72	0.53	0.18	0.49	0.26	0.58	0.52
Coef Var	1.284	1.581	0.780	0.908	0.788	0.503	0.585	0.353	0.896	0.546
Log Mean	-0.189	-0.111	-0.220	-0.220	-0.277	-0.500	-0.160	-0.162	-0.333	-0.070
Geo Mean	0.65	0.77	0.60	0.60	0.53	0.32	0.69	0.69	0.46	0.85
Log StDv	0.307	0.287	0.332	0.317	0.293	0.193	0.287	0.195	0.363	0.197
Log CVar	-1.623	-2.608	-1.515	-1.449	-1.059	-0.387	-1.806	-1.202	-1.094	-2.848
Percntls										
Minimum	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
10th	0.2	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5
20th	0.4	0.5	0.3	0.3	0.3	0.2	0.4	0.6	0.2	0.6
30th	0.4	0.6	0.4	0.4	0.4	0.2	0.4	0.6	0.2	0.6
40th	0.6	0.7	0.4	0.5	0.4	0.3	0.6	0.7	0.2	0.6
50th	0.7	0.8	0.6	0.6	0.4	0.3	0.7	0.8	0.5	0.8
60th	0.8	1.0	0.8	0.6	0.5	0.3	0.8	0.8	0.5	0.8
70th	1.0	1.1	1.0	0.8	0.6	0.4	1.2	0.8	0.7	1.0
80th	1.2	1.2	1.2	1.1	0.8	0.4	1.3	0.8	1.0	1.0
85th	1.3	1.4	1.3	1.3	1.3	0.5	1.3	0.8	1.0	1.0
90th	1.6	1.6	1.8	1.5	1.6	0.6	1.4	1.2	1.3	1.6
95th	1.9	1.7	2.0	1.8	1.9	0.7	1.6	1.2	1.3	1.6
98th	2.1	2.0	2.2	2.1	2.0	0.8	1.8	1.2	2.0	2.2
99th	2.2	2.1	2.6	4.0	2.0	0.8	1.8	1.2	2.0	2.2
Maximum	20.0	20.0	3.3	4.0	2.0	0.8	1.8	1.2	2.0	2.2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cadmium [Cd]
Number of Values - 413
Units - ppm
Detection Limit - 0.1
Analytical Method - AAS

Cadmium by AAS

Summary Statistics



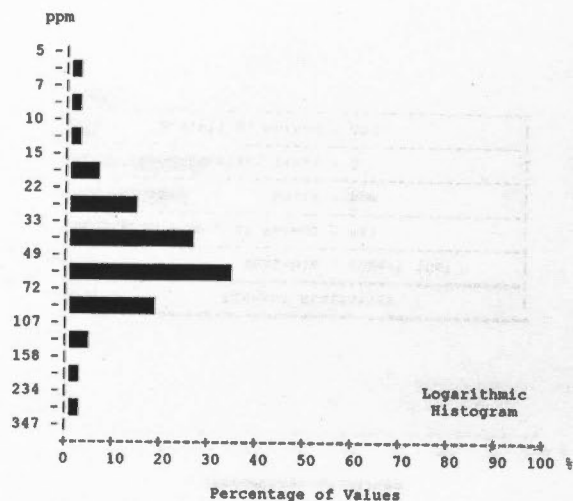
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	394	151	91	36	18	20	18	12	11	9
Missing	0	0	0	0	0	0	0	0	0	0
Mean	9.0	8.1	9.5	9.5	7.7	11.2	14.5	5.4	13.5	4.6
Median	8.0	8.0	10.0	9.0	7.0	12.0	12.0	4.0	14.0	4.0
Mode	6.0	6.0	6.0	8.0	2.0	12.0	10.0	4.0	10.0	4.0
Range	27	19	26	19	20	10	25	8	19	7
St Dev	4.62	3.58	4.57	4.05	5.86	2.65	6.68	2.50	5.68	2.11
Coef Var	0.511	0.445	0.481	0.424	0.758	0.236	0.461	0.467	0.419	0.455
Log Mean	0.894	0.860	0.921	0.940	0.763	1.036	1.113	0.683	1.091	0.624
Geo Mean	7.8	7.2	8.3	8.7	5.8	10.9	13.0	4.8	12.3	4.2
Log StDv	0.243	0.209	0.237	0.196	0.347	0.111	0.221	0.214	0.208	0.206
Log CVar	0.272	0.244	0.257	0.208	0.455	0.107	0.198	0.314	0.191	0.331
Percentls										
Minimum	2	2	2	2	2	6	4	2	5	2
10th	4	4	3	5	2	7	6	2	5	2
20th	5	5	6	6	2	9	10	4	6	2
30th	6	6	6	8	3	9	10	4	10	3
40th	7	7	8	8	4	10	11	4	10	4
50th	8	8	10	9	7	12	12	4	14	4
60th	10	9	11	9	7	12	15	5	15	5
70th	11	10	12	10	8	13	19	6	15	5
80th	12	11	13	12	11	13	19	7	17	6
85th	13	11	14	13	16	13	20	7	17	6
90th	15	12	15	14	17	14	22	10	20	7
95th	17	14	17	16	17	15	24	10	20	7
98th	21	17	18	20	22	16	29	10	24	9
99th	22	18	19	21	22	16	29	10	24	9
Maximum	29	21	28	21	22	16	29	10	24	9

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Cobalt [Co]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Cobalt by AAS

Summary Statistics



N	%	Cum%
1	0.2	0.2
2	0.5	0.7
5	1.2	1.9
22	5.3	7.3
54	13.1	20.3
106	25.7	46.0
138	33.4	79.4
69	16.7	96.1
12	2.9	99.0
3	0.7	99.8
1	0.2	100.0

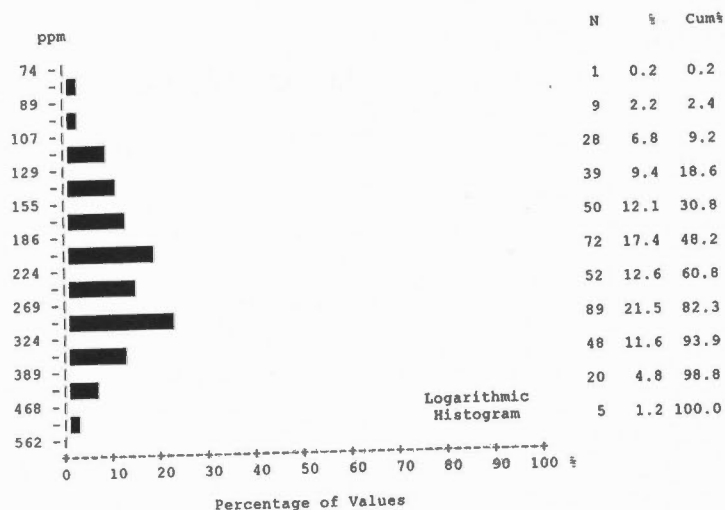
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	55.0	59.9	50.5	45.5	32.9	80.9	49.2	55.6	48.5	73.9
Median	50.0	54.0	46.0	40.0	30.0	72.0	45.0	57.0	53.0	70.0
Mode	46.0	43.0	46.0	38.0	17.0	75.0	34.0	26.0	54.0	49.0
Range	245	156	98	101	52	220	37	67	60	140
St Dev	27.44	27.50	24.42	18.60	15.22	43.79	12.10	17.53	19.14	39.10
Coef Var	0.499	0.459	0.483	0.409	0.463	0.541	0.246	0.315	0.394	0.529
Log Mean	1.689	1.733	1.648	1.615	1.471	1.869	1.680	1.722	1.649	1.816
Geo Mean	48.8	54.1	44.5	41.3	29.6	74.0	47.9	52.8	44.6	65.5
Log StDv	0.219	0.204	0.228	0.218	0.205	0.176	0.105	0.150	0.197	0.225
Log CVar	0.130	0.117	0.139	0.135	0.140	0.094	0.063	0.087	0.120	0.124
Percentls										
Minimum	5	9	12	5	14	30	34	26	18	26
10th	25	30	20	28	15	51	34	26	18	26
20th	33	37	27	32	17	54	38	34	27	41
30th	39	43	36	35	22	63	41	50	29	47
40th	45	49	42	38	24	68	43	53	41	49
50th	50	54	46	40	30	72	45	57	53	70
60th	57	63	53	47	33	75	49	58	54	78
70th	64	69	62	52	39	83	54	61	54	94
80th	74	81	71	56	47	86	61	63	68	95
85th	81	84	77	57	52	92	62	64	68	95
90th	88	90	84	66	53	95	64	76	70	98
95th	99	110	92	75	57	111	70	76	70	98
98th	125	142	105	81	66	250	71	93	78	166
99th	156	156	106	106	66	250	71	93	78	166
Maximum	250	165	110	106	66	250	71	93	78	166

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Copper [Cu]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Copper by AAS

Summary Statistics



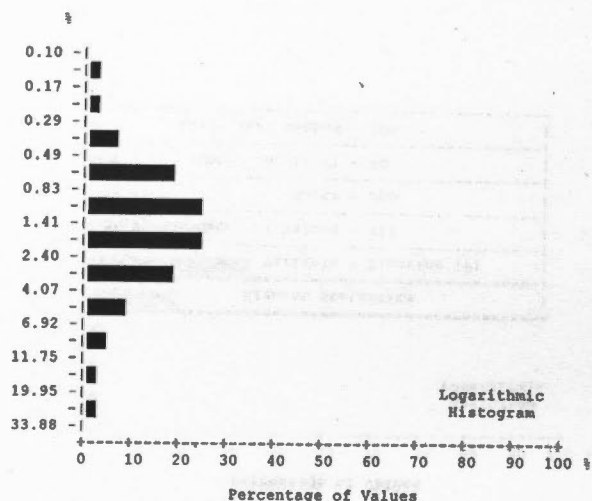
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	241.2	207.0	281.1	287.8	318.3	223.0	262.2	134.3	334.5	168.2
Median	230.0	190.0	290.0	310.0	340.0	200.0	230.0	120.0	330.0	200.0
Mode	200.0	160.0	260.0	310.0	360.0	190.0	220.0	110.0	400.0	90.0
Range	420	340	350	410	330	150	300	110	230	160
St Dev	88.47	73.15	81.94	84.13	87.52	48.46	81.79	31.31	74.88	64.47
Coef Var	0.367	0.353	0.292	0.292	0.275	0.217	0.312	0.233	0.224	0.383
Log Mean	2.351	2.289	2.429	2.436	2.483	2.339	2.401	2.118	2.514	2.191
Geo Mean	224.5	194.3	268.6	272.9	303.8	218.4	251.5	131.1	326.6	155.2
Log StDv	0.169	0.156	0.136	0.155	0.146	0.090	0.126	0.097	0.102	0.191
Log CVar	0.072	0.068	0.056	0.064	0.059	0.038	0.053	0.046	0.040	0.087
Percntls										
Minimum	80	80	120	90	120	160	150	90	210	90
10th	130	120	180	160	150	170	180	90	210	90
20th	160	140	210	190	250	180	210	110	260	90
30th	180	160	230	270	280	190	220	110	270	90
40th	200	170	260	300	320	200	220	120	290	90
50th	230	190	290	310	340	200	230	120	330	200
60th	260	220	300	310	360	210	240	130	360	200
70th	300	250	320	330	360	230	260	140	400	200
80th	320	280	340	350	370	260	340	150	400	210
85th	330	300	360	350	390	290	350	170	400	210
90th	360	310	380	360	430	310	360	180	420	240
95th	400	320	420	360	440	310	400	180	420	240
98th	440	350	470	400	450	310	450	200	440	250
99th	470	370	470	500	450	310	450	200	440	250
Maximum	500	420	470	500	450	310	450	200	440	250

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Fluorine [F]
Number of Values - 413
Units - ppm
Detection Limit - 40
Analytical Method - ION

Fluorine by ION

Summary Statistics



N	%	Cum%
5	1.2	1.2
9	2.2	3.4
22	5.3	8.7
72	17.4	26.2
97	23.5	49.6
98	23.7	73.4
71	17.2	90.6
26	6.3	96.9
10	2.4	99.3
1	0.2	99.5
2	0.5	100.0

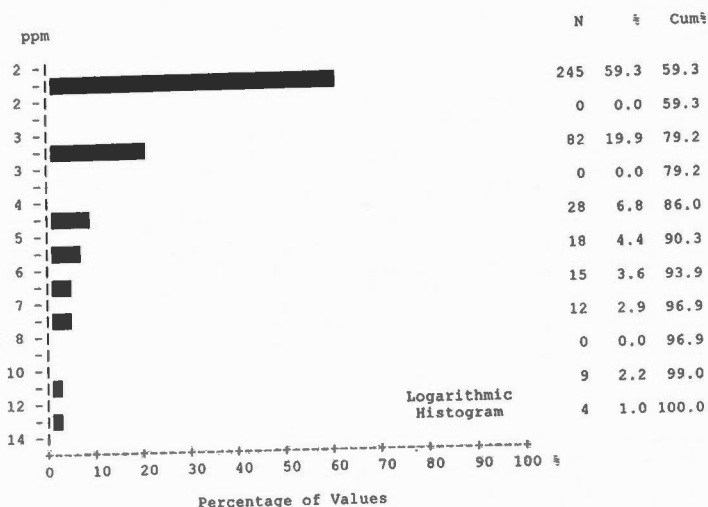
	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	1.99	1.66	2.39	2.25	2.03	2.17	2.88	1.07	2.19	0.56
Median	1.50	1.10	1.80	1.50	0.95	1.80	2.00	0.70	2.50	0.50
Mode	1.20	1.10	2.50	0.60	0.45	1.60	2.00	0.10	0.20	0.25
Range	20.90	20.85	13.80	20.80	8.15	3.75	8.10	2.50	3.70	1.10
St Dev	2.15	2.07	2.03	3.34	2.08	1.04	2.34	0.86	1.35	0.37
Coef Var	1.079	1.243	0.852	1.485	1.023	0.479	0.813	0.809	0.615	0.653
Log Mean	0.148	0.071	0.274	0.191	0.109	0.293	0.318	-0.127	0.201	-0.356
Geo Mean	1.41	1.18	1.88	1.55	1.28	1.96	2.08	0.75	1.59	0.44
Log StDv	0.362	0.341	0.295	0.334	0.422	0.199	0.375	0.415	0.433	0.338
Log CVar	2.445	4.806	1.075	1.758	3.910	0.681	1.180	-3.265	2.156	-0.950
Percntls										
Minimum	0.10	0.15	0.20	0.20	0.35	0.75	0.40	0.10	0.20	0.10
10th	0.50	0.45	0.85	0.60	0.40	0.95	0.70	0.10	0.20	0.10
20th	0.70	0.60	1.20	0.75	0.50	1.50	0.80	0.35	0.45	0.20
30th	0.90	0.75	1.30	1.20	0.60	1.60	1.10	0.50	0.60	0.25
40th	1.20	0.90	1.50	1.40	0.75	1.60	1.70	0.60	1.40	0.25
50th	1.50	1.10	1.80	1.50	0.95	1.80	2.00	0.70	2.50	0.50
60th	1.80	1.40	2.20	1.70	1.60	1.90	3.00	0.75	2.60	0.65
70th	2.20	1.80	2.50	2.00	2.30	2.20	3.40	1.10	2.90	0.65
80th	2.60	2.20	2.80	2.30	3.60	2.70	3.50	1.60	3.60	0.95
85th	3.00	2.50	3.70	2.50	4.20	2.80	4.20	2.40	3.60	0.95
90th	3.90	2.90	4.40	3.00	4.50	3.90	6.40	2.50	3.70	1.00
95th	5.00	3.60	5.20	4.60	5.10	4.40	7.00	2.50	3.70	1.00
98th	8.40	7.20	8.00	5.40	8.50	4.50	8.50	2.60	3.90	1.20
99th	10.50	8.40	10.50	21.00	8.50	4.50	8.50	2.60	3.90	1.20
Maximum	21.00	21.00	14.00	21.00	8.50	4.50	8.50	2.60	3.90	1.20

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Iron [Fe]
Number of Values - 413
Units - %
Detection Limit - 0.02
Analytical Method - AAS

Iron by AAS

Summary Statistics



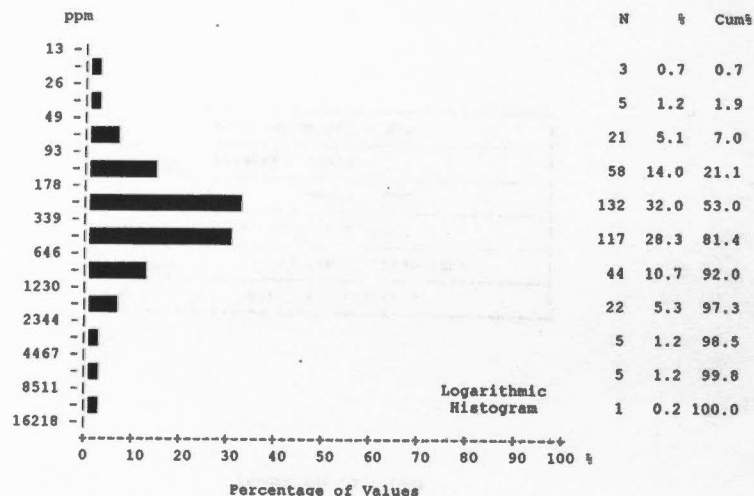
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	168	50	46	19	10	8	13	2	7	0
Missing	0	0	0	0	0	0	0	0	0	0
Mean	3.1	2.4	3.9	3.4	3.1	2.6	4.7	2.1	4.5	2.0
Median	2.0	2.0	2.0	2.0	2.0	2.0	4.0	2.0	4.0	2.0
Mode	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Range	11	4	10	10	5	2	11	1	9	0
St Dev	1.96	0.73	2.78	2.37	1.69	0.76	2.97	0.36	2.81	0.00
Coef Var	0.642	0.300	0.705	0.697	0.539	0.298	0.637	0.169	0.630	0.000
Log Mean	0.431	0.369	0.512	0.468	0.447	0.390	0.598	0.326	0.577	0.301
Geo Mean	2.7	2.3	3.3	2.9	2.8	2.5	4.0	2.1	3.8	2.0
Log StDv	0.194	0.108	0.256	0.215	0.198	0.119	0.250	0.064	0.259	0.000
Log CVar	0.450	0.293	0.500	0.460	0.442	0.304	0.418	0.196	0.450	0.000
Percentls										
Minimum	2	2	2	2	2	2	2	2	2	2
10th	2	2	2	2	2	2	2	2	2	2
20th	2	2	2	2	2	2	2	2	2	2
30th	2	2	2	2	2	2	3	2	2	2
40th	2	2	2	3	2	2	4	2	4	2
50th	2	2	3	3	3	2	5	2	5	2
60th	3	2	3	3	3	3	6	2	5	2
70th	3	3	5	4	4	3	6	2	6	2
80th	4	3	6	4	5	3	6	2	6	2
85th	4	3	7	4	5	4	6	3	7	2
90th	5	3	8	5	6	4	6	3	7	2
95th	7	4	11	8	7	4	10	3	7	2
98th	11	4	11	11	7	4	13	3	11	2
99th	11	4	12	12	7	4	13	3	11	2
Maximum	13	6	12	12	7	4	13	3	11	2

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Lead [Pb]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Lead by AAS

Summary Statistics



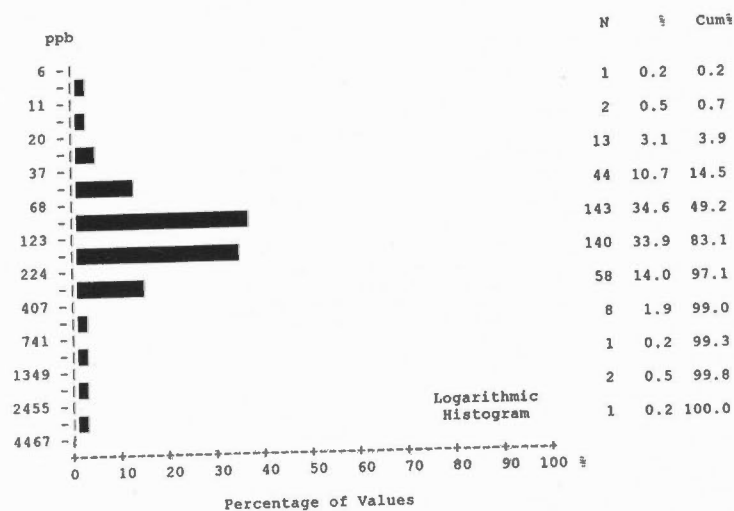
Element Statistics	
Variable -	Manganese [Mn]
Number of Values -	413
Units -	ppm
Detection Limit -	5
Analytical Method -	AAS

	All	uTrTt	PTCCs	muTrTs	PTCCl	Mjt	PTCCb	uTrTv	PTCCvs	Ejd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	561.3	429.5	804.8	532.7	759.8	671.9	720.1	271.4	324.5	119.4
Median	327.0	236.0	446.0	327.0	423.0	467.0	508.0	125.0	318.0	80.0
Mode	190.0	124.0	228.0	190.0	65.0	234.0	229.0	24.0	83.0	24.0
Range	15976	15953	6731	3563	4735	1226	2271	936	464	238
St Dev	1056.18	1295.86	1093.57	641.98	1034.22	405.46	567.10	312.97	160.17	84.38
Coef Var	1.882	3.017	1.359	1.205	1.361	0.603	0.788	1.153	0.494	0.707
Log Mean	2.530	2.405	2.717	2.585	2.665	2.756	2.769	2.178	2.443	1.951
Geo Mean	338.9	254.0	521.0	384.8	462.2	570.5	587.0	150.6	277.4	89.2
Log StDv	0.393	0.342	0.362	0.312	0.416	0.252	0.268	0.506	0.283	0.375
Log CVar	0.155	0.142	0.133	0.121	0.156	0.092	0.097	0.232	0.116	0.192
Percentls										
Minimum	24	47	99	137	65	234	229	24	83	24
10th	123	100	216	146	104	254	230	24	83	24
20th	172	132	266	192	260	345	368	38	90	24
30th	225	168	304	258	263	371	468	92	206	40
40th	262	215	378	312	328	414	484	120	262	71
50th	327	236	446	327	423	467	508	125	318	80
60th	395	290	510	432	508	610	566	135	331	139
70th	478	349	680	508	598	735	648	210	445	161
80th	602	410	1060	563	800	980	681	395	485	208
85th	795	455	1220	616	1100	1200	1070	442	485	208
90th	1100	543	1400	695	1170	1360	1100	940	510	224
95th	1460	1050	1700	1620	2640	1400	1680	940	510	224
98th	3560	1800	5050	1850	4800	1460	2500	960	547	262
99th	5050	1800	5300	3700	4800	1460	2500	960	547	262
Maximum	16000	16000	6830	3700	4800	1460	2500	960	547	262

(Summary statistics not calculated for formations with fewer than ten values.)

Manganese by AAS

Summary Statistics



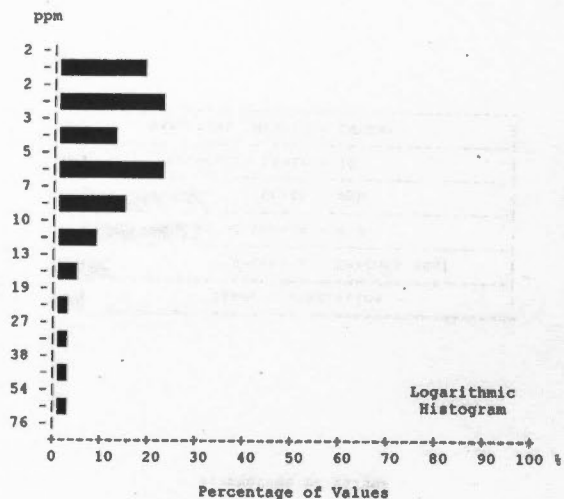
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	412	156	93	36	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	166.6	189.0	86.0	120.5	113.0	135.0	590.6	191.4	174.5	174.5
Median	130.0	170.0	80.0	120.0	70.0	100.0	120.0	210.0	150.0	160.0
Mode	70.0	160.0	70.0	110.0	50.0	90.0	50.0	270.0	140.0	160.0
Range	4140	580	270	210	770	280	4100	240	370	290
St Dev	259.97	96.05	45.28	49.66	162.72	73.81	1108.53	85.83	103.28	84.66
Coef Var	1.560	0.508	0.526	0.412	1.439	0.547	1.877	0.448	0.592	0.485
Log Mean	2.094	2.224	1.875	2.028	1.889	2.077	2.285	2.229	2.171	2.199
Geo Mean	124.2	167.4	75.0	106.7	77.5	119.5	192.9	169.3	148.1	158.1
Log StDv	0.299	0.221	0.235	0.255	0.310	0.215	0.588	0.240	0.274	0.202
Log CVar	0.143	0.990	0.126	0.126	0.164	0.104	0.258	0.108	0.126	0.092
Percentls										
Minimum	10	20	20	10	40	50	50	50	40	70
10th	50	90	30	60	40	50	50	50	40	70
20th	70	120	40	70	50	90	70	100	70	100
30th	90	140	60	90	50	90	70	110	130	110
40th	110	150	70	110	50	100	100	120	140	130
50th	130	170	80	120	70	100	120	210	150	160
60th	150	190	90	120	70	110	160	240	160	160
70th	170	210	100	140	80	140	180	270	170	180
80th	210	240	120	170	90	170	220	270	210	200
85th	230	260	130	170	120	190	600	270	210	200
90th	270	310	150	180	210	260	1900	280	300	290
95th	330	380	150	200	290	260	2400	280	300	290
98th	430	430	180	210	810	330	4150	290	410	360
99th	600	480	200	220	810	330	4150	290	410	360
Maximum	4150	600	290	220	810	330	4150	290	410	360

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Mercury [Hg]
Number of Values - 413
Units - ppb
Detection Limit - 10
Analytical Method - CV-AAS

Mercury by CV-AAS

Summary Statistics



N	%	Cumt
74	17.9	17.9
88	21.3	39.2
49	11.9	51.1
89	21.5	72.6
54	13.1	85.7
31	7.5	93.2
10	2.4	95.6
6	1.5	97.1
5	1.2	98.3
4	1.0	99.3
3	0.7	100.0

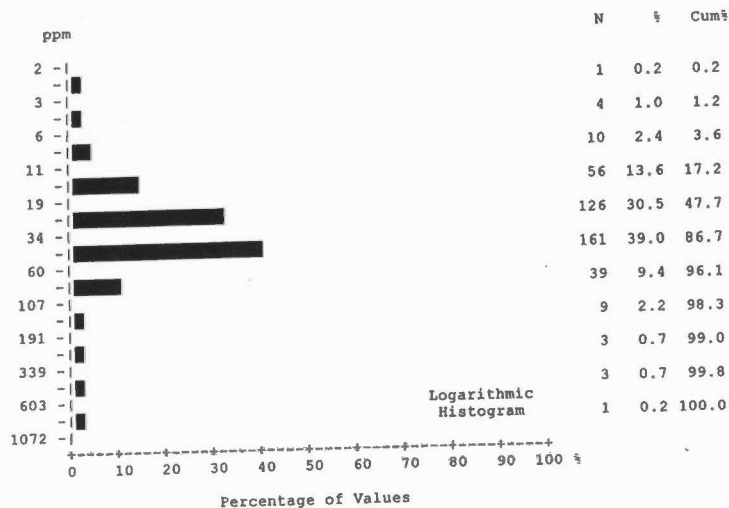
	All	uTrft	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	6.4	6.4	7.3	8.5	5.3	5.0	3.9	4.0	5.6	5.1
Median	4.0	5.0	4.0	5.0	5.0	4.0	3.0	3.0	4.0	5.0
Mode	3.0	2.0	3.0	2.0	3.0	3.0	2.0	3.0	3.0	6.0
Range	63	43	56	53	12	12	7	6	20	6
St Dev	7.41	6.11	9.07	10.62	3.31	3.01	2.03	1.71	5.87	1.97
Coef Var	1.153	0.959	1.245	1.244	0.628	0.602	0.521	0.427	1.041	0.387
Log Mean	0.675	0.693	0.695	0.740	0.647	0.642	0.538	0.568	0.646	0.672
Geo Mean	4.7	4.9	5.0	5.5	4.4	4.4	3.5	3.7	4.4	4.7
Log StDv	0.302	0.291	0.334	0.383	0.255	0.214	0.215	0.177	0.264	0.190
Log CVar	0.447	0.421	0.480	0.517	0.394	0.334	0.399	0.311	0.408	0.283
Percentls										
Minimum	2	2	2	2	2	2	2	2	3	2
10th	2	2	2	2	2	3	2	2	3	2
20th	3	3	3	2	3	3	2	3	3	3
30th	3	3	3	3	3	3	2	3	3	3
40th	4	4	4	3	3	3	3	3	3	4
50th	4	5	4	5	5	4	3	3	4	5
60th	5	6	5	7	5	4	4	4	4	6
70th	6	7	6	8	6	5	5	4	4	6
80th	8	9	8	12	7	5	5	5	6	6
85th	9	10	9	12	9	8	5	6	6	6
90th	11	11	18	13	10	9	6	6	6	8
95th	16	14	27	22	12	10	7	6	6	8
98th	33	20	33	39	14	14	9	8	23	8
99th	39	39	37	55	14	14	9	8	23	8
Maximum	65	45	58	55	14	14	9	8	23	8

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Molybdenum (Mo)
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Molybdenum by AAS

Summary Statistics



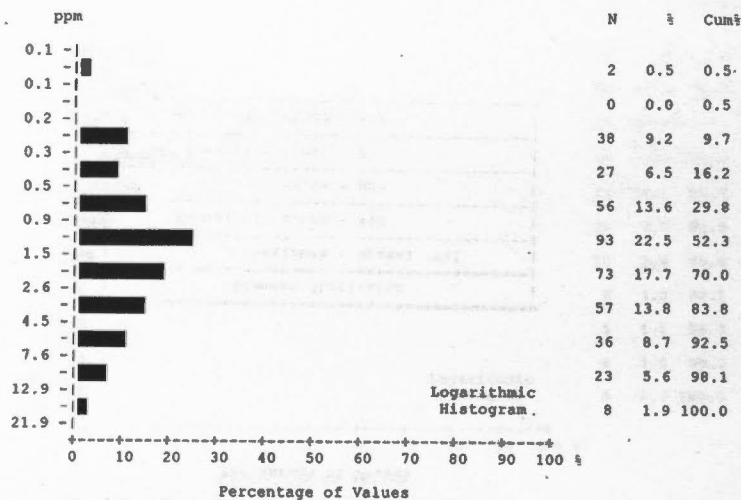
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	Mjt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	412	156	93	36	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	45.2	35.0	40.9	38.7	27.8	41.2	62.7	16.3	146.5	17.3
Median	35.0	33.0	36.0	36.0	17.0	30.0	56.0	17.0	66.0	16.0
Mode	36.0	28.0	36.0	22.0	11.0	21.0	24.0	10.0	58.0	14.0
Range	648	82	203	110	82	85	125	14	483	16
St Dev	58.00	13.81	28.11	19.00	20.02	25.99	35.38	4.61	149.69	5.02
Coef Var	1.283	0.395	0.687	0.491	0.721	0.632	0.564	0.283	1.021	0.291
Log Mean	1.533	1.509	1.525	1.526	1.346	1.553	1.732	1.193	2.005	1.220
Geo Mean	34.1	32.3	33.5	33.6	22.2	35.7	53.9	15.6	101.2	16.6
Log StDv	0.294	0.182	0.287	0.276	0.298	0.221	0.249	0.135	0.370	0.132
Log CVar	0.192	0.121	0.188	0.181	0.222	0.142	0.144	0.113	0.184	0.108
Percentls										
Minimum	2	6	6	2	5	20	21	9	42	9
10th	15	19	11	20	11	21	24	9	42	9
20th	21	25	20	23	13	23	32	10	44	13
30th	26	28	28	27	14	25	33	12	58	14
40th	30	33	33	31	15	26	47	16	58	14
50th	35	33	36	36	17	30	56	17	66	16
60th	38	36	42	40	30	36	61	18	88	17
70th	45	40	48	49	34	37	80	19	163	19
80th	52	44	50	52	36	48	83	19	222	23
85th	58	46	57	53	45	52	88	21	222	23
90th	71	52	68	54	58	82	109	22	288	24
95th	98	60	96	59	59	104	119	22	288	24
98th	153	74	103	66	87	105	146	23	525	25
99th	288	76	104	112	87	105	146	23	525	25
Maximum	650	88	209	112	87	105	146	23	525	25

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Nickel [Ni]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Nickel by AAS

Summary Statistics



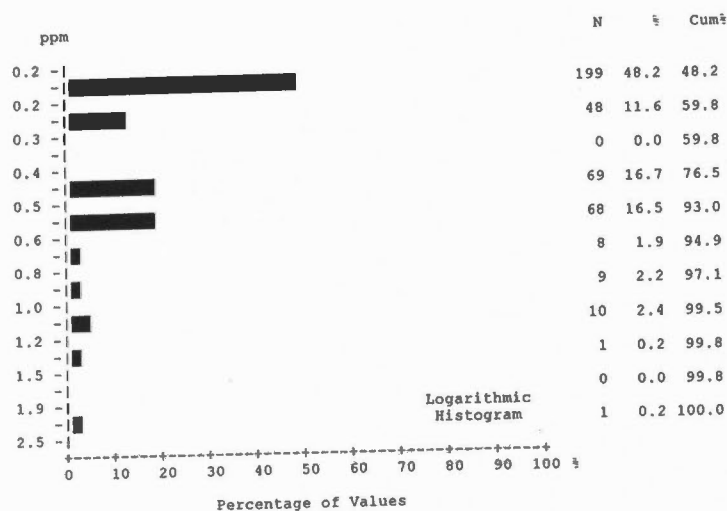
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	411	156	93	37	23	20	18	13	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	2.63	3.81	1.34	3.32	1.69	1.25	0.92	1.95	2.67	4.14
Median	1.50	2.40	0.90	1.70	1.10	1.10	0.60	1.20	1.50	2.40
Mode	0.20	1.50	0.20	0.20	1.00	1.10	0.50	1.40	0.20	0.20
Range	17.9	17.7	6.0	17.3	5.3	2.1	2.3	11.4	9.8	13.3
St Dev	3.07	3.60	1.25	3.94	1.36	0.55	0.71	2.81	2.97	4.03
Coef Var	1.165	0.946	0.932	1.189	0.807	0.440	0.780	1.443	1.112	0.975
Log Mean	0.190	0.406	-0.057	0.233	0.129	0.062	-0.151	0.078	0.100	0.394
Geo Mean	1.55	2.55	0.88	1.71	1.35	1.15	0.71	1.20	1.26	2.48
Log StDv	0.458	0.401	0.416	0.534	0.281	0.174	0.322	0.433	0.630	0.523
Log CVar	2.422	0.988	-7.426	2.302	2.176	2.813	-2.129	5.550	6.362	1.328
Percentls										
Minimum	0.1	0.3	0.2	0.2	0.5	0.6	0.2	0.1	0.2	0.2
10th	0.4	0.9	0.2	0.3	0.6	0.6	0.2	0.1	0.2	0.2
20th	0.7	1.2	0.3	0.5	0.9	0.8	0.5	0.8	0.2	0.6
30th	1.0	1.6	0.4	0.9	0.9	1.0	0.5	1.0	0.2	1.6
40th	1.2	1.8	0.8	1.4	1.0	1.1	0.5	1.1	0.4	1.8
50th	1.5	2.4	0.9	1.7	1.1	1.1	0.6	1.2	1.5	2.4
60th	1.8	3.2	1.1	1.8	1.2	1.2	0.6	1.3	3.5	3.3
70th	2.6	4.1	1.4	4.4	1.4	1.2	0.8	1.4	3.6	5.0
80th	3.8	5.8	2.0	5.8	2.1	1.5	1.5	1.4	4.1	5.9
85th	4.7	7.2	2.7	6.3	3.6	1.5	1.5	1.7	4.1	5.9
90th	6.5	9.5	3.2	7.1	3.7	2.1	2.1	2.8	4.6	9.0
95th	9.5	11.0	4.1	11.5	4.3	2.3	2.2	2.8	4.6	9.0
98th	12.5	15.0	4.2	12.5	5.8	2.7	2.5	11.5	10.0	13.5
99th	15.0	15.5	4.6	17.5	5.8	2.7	2.5	11.5	10.0	13.5
Maximum	18.0	18.0	6.2	17.5	5.8	2.7	2.5	11.5	10.0	13.5

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Selenium (Se)
Number of Values - 413
Units - ppm
Detection Limit - 0.1
Analytical Method - AAS

Selenium by AAS

Summary Statistics



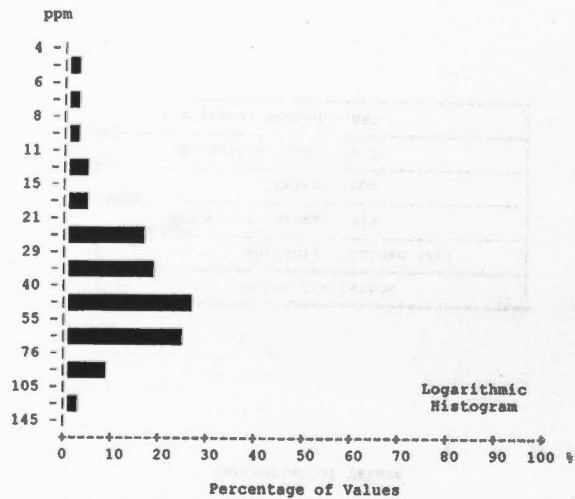
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	214	97	30	13	7	5	16	11	6	8
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.36	0.39	0.30	0.26	0.27	0.24	0.50	0.56	0.26	0.51
Median	0.30	0.30	0.20	0.20	0.20	0.20	0.40	0.40	0.30	0.50
Mode	0.20	0.20	0.20	0.20	0.20	0.20	0.40	0.40	0.20	0.20
Range	1.8	1.8	1.0	0.4	0.4	0.2	1.1	1.0	0.2	0.8
St Dev	0.22	0.25	0.18	0.10	0.12	0.07	0.26	0.33	0.07	0.28
Coef Var	0.623	0.627	0.608	0.369	0.453	0.285	0.527	0.588	0.256	0.559
Log Mean	-0.509	-0.468	-0.581	-0.609	-0.602	-0.642	-0.349	-0.324	-0.592	-0.358
Geo Mean	0.31	0.34	0.26	0.25	0.25	0.23	0.45	0.47	0.26	0.44
Log StDv	0.216	0.222	0.193	0.135	0.161	0.105	0.206	0.260	0.109	0.255
Log CVar	-0.424	-0.476	-0.333	-0.222	-0.268	-0.164	-0.593	-0.804	-0.184	-0.713
Percentls										
Minimum	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10th	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
20th	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
30th	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2
40th	0.2	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.2	0.4
50th	0.3	0.3	0.2	0.2	0.2	0.2	0.4	0.4	0.3	0.5
60th	0.4	0.4	0.2	0.2	0.2	0.2	0.5	0.5	0.3	0.5
70th	0.4	0.4	0.3	0.3	0.2	0.2	0.6	0.6	0.3	0.6
80th	0.5	0.5	0.4	0.3	0.3	0.3	0.6	1.0	0.3	0.6
85th	0.6	0.6	0.4	0.4	0.4	0.3	0.6	1.1	0.3	1.0
90th	0.6	0.6	0.6	0.4	0.5	0.3	0.6	1.1	0.3	1.0
95th	0.7	0.8	0.6	0.4	0.5	0.4	0.9	1.2	0.4	1.0
98th	1.0	1.0	0.8	0.4	0.6	0.4	1.3	1.2	0.4	1.0
99th	1.2	1.2	0.9	0.6	0.6	0.4	1.3	1.2	0.4	1.0
Maximum	2.0	2.0	1.2	0.6	0.6	0.4	1.3	1.2	0.4	1.0

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Silver [Ag]
Number of Values - 413
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

Silver by AAS

Summary Statistics



N	%	Cum%
2	0.5	0.5
2	0.5	1.0
6	1.5	2.4
17	4.1	6.5
14	3.4	9.9
63	15.3	25.2
75	18.2	43.3
105	25.4	68.8
93	22.5	91.3
30	7.3	98.5
6	1.5	100.0

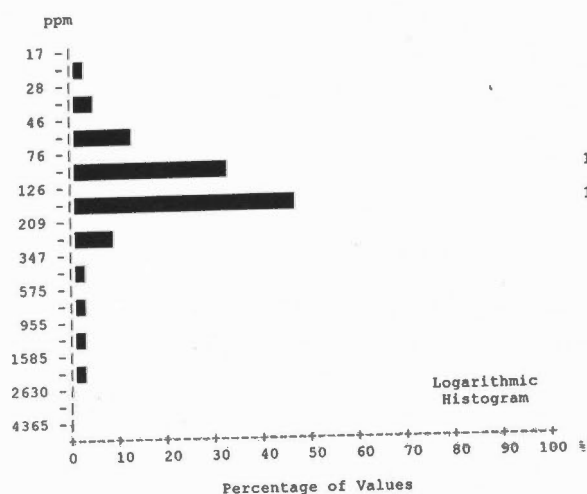
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	411	155	92	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	45.4	43.0	47.9	39.5	38.0	64.0	61.2	52.8	47.0	32.0
Median	42.0	40.0	45.0	40.0	29.0	58.0	56.0	43.0	47.0	32.0
Mode	42.0	26.0	23.0	24.0	15.0	94.0	48.0	24.0	23.0	32.0
Range	130	110	108	59	124	92	77	86	52	38
St Dev	22.15	20.67	22.14	15.22	28.85	23.43	19.74	28.98	19.60	10.86
Coef Var	0.488	0.481	0.463	0.385	0.759	0.366	0.322	0.549	0.417	0.339
Log Mean	1.599	1.579	1.623	1.558	1.479	1.780	1.765	1.658	1.633	1.474
Geo Mean	39.7	37.9	41.9	36.1	30.1	60.3	58.2	45.5	42.9	29.8
Log StDv	0.238	0.234	0.247	0.200	0.298	0.153	0.144	0.250	0.200	0.188
Log CVar	0.149	0.148	0.152	0.128	0.201	0.086	0.082	0.151	0.123	0.128
Percentls										
Minimum	5	5	5	8	11	33	27	20	23	10
10th	20	20	21	22	12	36	38	20	23	10
20th	26	26	27	24	15	42	47	24	23	22
30th	32	31	36	27	18	50	48	24	24	25
40th	38	35	41	35	20	56	53	41	31	28
50th	42	40	45	40	29	58	56	43	47	32
60th	47	43	53	44	32	64	64	50	55	33
70th	55	49	58	48	51	67	68	63	58	35
80th	61	58	66	53	59	75	71	78	63	43
85th	67	64	73	57	60	94	73	86	63	43
90th	74	70	76	59	62	94	88	96	73	44
95th	88	84	88	61	73	95	93	96	73	44
98th	96	96	89	65	135	125	104	106	75	48
99th	106	96	90	67	135	125	104	106	75	48
Maximum	135	115	113	67	135	125	104	106	75	48

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Vanadium (V)
Number of Values - 413
Units - ppm
Detection Limit - 5
Analytical Method - AAS

Vanadium by AAS

Summary Statistics



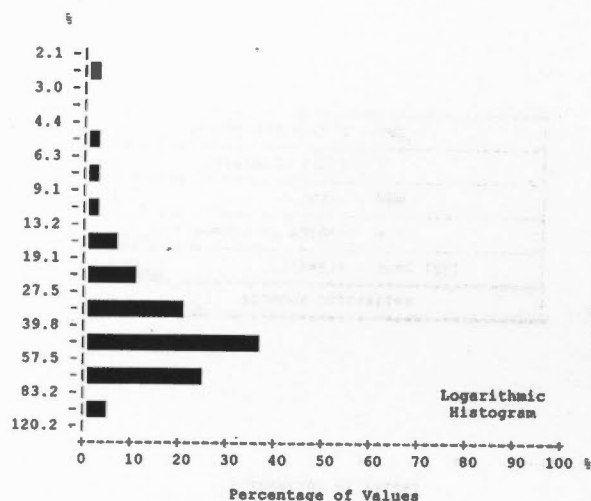
	N	%	Cum%	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413			413	156	93	37	23	20	18	14	11	11
N > DL	413			413	156	93	37	23	20	18	14	11	11
Missing	0			0	0	0	0	0	0	0	0	0	0
Mean	147.4	142.3	178.3	155.7	150.7	112.4	175.2	78.4	120.0	90.0			
Median	131.0	127.0	149.0	147.0	112.0	109.0	153.0	76.0	138.0	84.0			
Mode	122.0	130.0	125.0	150.0	96.0	80.0	151.0	88.0	37.0	33.0			
Range	2582	2563	969	414	432	135	323	102	120	197			
St Dev	145.38	203.52	121.50	79.24	98.92	30.90	79.43	29.49	39.02	59.24			
Coef Var	0.986	1.430	0.681	0.509	0.656	0.275	0.453	0.376	0.325	0.658			
Log Mean	2.103	2.080	2.189	2.139	2.112	2.036	2.211	1.852	2.049	1.884			
Geo Mean	126.9	120.3	154.4	137.6	129.3	108.6	162.4	71.2	111.8	76.5			
Log StDv	0.218	0.199	0.225	0.231	0.234	0.115	0.165	0.223	0.190	0.251			
Log CVar	0.104	0.096	0.103	0.108	0.111	0.056	0.075	0.120	0.093	0.133			
Percntls													
Minimum	18	37	29	21	48	68	97	18	37	33			
10th	68	68	81	74	68	71	98	18	37	33			
20th	88	86	111	94	89	80	114	60	77	41			
30th	106	105	126	118	96	95	118	62	95	50			
40th	120	118	141	126	101	107	151	71	98	58			
50th	131	127	149	147	112	109	153	76	138	84			
60th	144	137	175	150	135	116	163	88	144	85			
70th	154	146	186	173	149	122	174	91	148	87			
80th	175	159	219	200	171	127	178	98	152	93			
85th	185	168	233	201	244	135	215	108	152	93			
90th	206	180	282	212	282	135	244	118	156	169			
95th	265	191	317	310	322	149	295	118	156	169			
98th	391	216	433	347	480	203	420	120	157	230			
99th	435	310	595	435	480	203	420	120	157	230			
Maximum	2600	2600	998	435	480	203	420	120	157	230			

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Zinc [Zn]
Number of Values - 413
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Zinc by AAS

Summary Statistics



N	%	Cum%
1	0.2	0.2
0	0.0	0.2
5	1.2	1.5
7	1.7	3.1
7	1.7	4.8
25	6.1	10.9
41	9.9	20.8
77	18.6	39.5
146	35.4	74.8
93	22.5	97.3
11	2.7	100.0

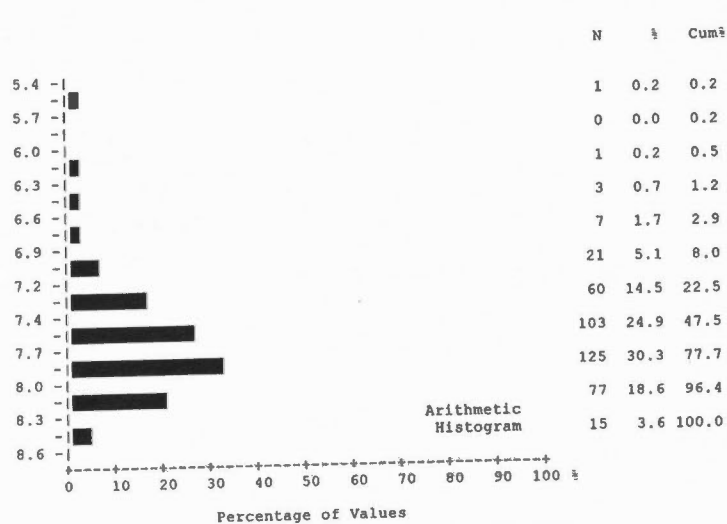
	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCVs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	44.76	48.04	41.76	48.71	52.14	32.94	42.20	39.42	28.11	38.67
Median	45.10	48.50	42.80	49.60	51.00	28.30	43.60	37.20	15.40	42.10
Mode	37.10	47.30	22.20	72.70	9.10	7.30	5.70	26.70	5.30	46.50
Range	91.9	88.1	84.7	76.8	80.9	62.5	80.5	29.7	75.8	59.8
St Dev	18.99	16.70	18.94	18.95	26.03	15.43	23.55	9.52	26.36	15.42
Coef Var	0.424	0.348	0.454	0.389	0.499	0.468	0.558	0.242	0.938	0.399
Log Mean	1.597	1.648	1.563	1.635	1.645	1.469	1.527	1.584	1.256	1.535
Geo Mean	39.54	44.43	36.54	43.18	44.18	29.43	33.68	38.40	18.02	34.30
Log StDv	0.245	0.189	0.253	0.254	0.284	0.223	0.341	0.102	0.443	0.262
Log CVar	0.153	0.115	0.162	0.155	0.173	0.152	0.224	0.065	0.353	0.171
Percentls										
Minimum	2.2	6.0	2.2	6.0	9.1	7.3	5.7	26.7	5.3	7.0
10th	18.3	25.3	16.8	20.4	11.0	15.5	8.9	26.7	5.3	7.0
20th	27.1	33.6	22.8	30.0	29.8	18.4	14.7	30.0	5.4	20.1
30th	35.1	40.6	27.2	40.3	35.3	24.7	15.2	31.8	6.8	33.0
40th	39.9	45.1	35.4	47.2	40.1	26.4	35.1	36.2	6.9	36.2
50th	45.1	48.5	42.8	49.6	51.0	28.3	43.6	37.2	15.4	42.1
60th	50.3	51.9	49.0	54.7	56.1	32.0	48.6	37.5	22.7	43.5
70th	55.3	55.7	51.9	60.4	63.3	37.1	54.1	41.8	36.3	45.2
80th	60.9	60.9	59.2	64.3	77.9	38.2	59.2	43.2	54.2	46.5
85th	64.3	64.9	61.7	64.8	86.0	44.7	65.7	52.3	54.2	46.5
90th	69.6	68.9	65.5	72.7	87.1	57.5	67.7	55.1	60.8	46.5
95th	76.2	75.1	70.5	73.2	88.1	58.3	70.7	55.1	60.8	46.5
98th	83.5	83.3	79.5	75.0	90.0	69.8	86.2	56.4	81.1	66.8
99th	86.9	83.4	86.3	82.8	90.0	69.8	86.2	56.4	81.1	66.8
Maximum	94.1	94.1	86.9	82.8	90.0	69.8	86.2	56.4	81.1	66.8

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Loss on Ignition (LOI)
Number of Values - 413
Units - %
Detection Limit - 0.1
Analytical Method - GRAV

Loss on Ignition by GRAV

Summary Statistics



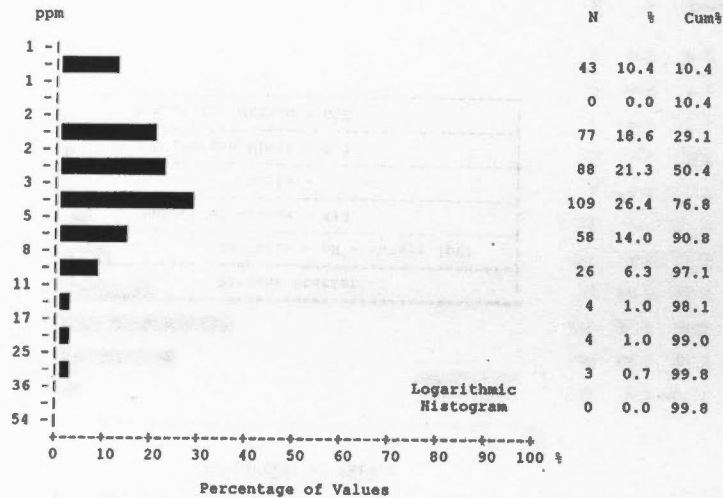
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	413	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	7.73	7.70	7.77	7.85	7.92	7.79	7.28	7.42	7.76	7.64
Median	7.80	7.70	7.80	7.90	8.00	7.70	7.50	7.40	7.80	7.70
Mode	7.80	7.40	7.70	8.00	8.30	7.70	7.50	7.40	7.90	7.70
Range	2.9	2.1	2.9	1.5	1.3	0.8	1.9	1.0	0.6	1.4
St Dev	0.42	0.38	0.47	0.41	0.38	0.21	0.58	0.25	0.19	0.49
Coef Var	0.054	0.050	0.061	0.053	0.048	0.026	0.080	0.034	0.024	0.065
Log Mean	0.887	0.886	0.890	0.894	0.898	0.891	0.861	0.870	0.890	0.882
Geo Mean	7.72	7.69	7.76	7.84	7.91	7.78	7.26	7.42	7.76	7.62
Log StDv	0.024	0.022	0.028	0.023	0.021	0.011	0.036	0.015	0.010	0.029
Log CVar	0.028	0.025	0.031	0.026	0.024	0.013	0.042	0.017	0.012	0.033
Percntls										
Minimum	5.6	6.3	5.6	7.0	7.2	7.4	6.0	6.9	7.4	6.7
10th	7.2	7.2	7.2	7.1	7.2	7.5	6.3	6.9	7.4	6.7
20th	7.4	7.4	7.5	7.3	7.6	7.6	6.8	7.2	7.5	6.9
30th	7.5	7.5	7.6	7.7	7.7	7.7	6.8	7.3	7.7	7.3
40th	7.7	7.6	7.7	7.9	7.8	7.7	7.4	7.4	7.7	7.5
50th	7.8	7.7	7.8	7.9	8.0	7.7	7.5	7.4	7.8	7.7
60th	7.9	7.8	8.0	8.0	8.0	7.8	7.5	7.4	7.9	7.8
70th	8.0	7.9	8.0	8.1	8.2	7.9	7.6	7.5	7.9	8.1
80th	8.1	8.0	8.2	8.2	8.3	8.0	7.8	7.6	7.9	8.1
85th	8.2	8.1	8.2	8.2	8.3	8.0	7.8	7.8	7.9	8.1
90th	8.2	8.2	8.3	8.3	8.3	8.0	7.8	7.8	7.9	8.1
95th	8.3	8.2	8.4	8.4	8.4	8.1	7.9	7.9	8.0	8.1
98th	8.4	8.3	8.5	8.4	8.5	8.2	7.9	7.9	8.0	8.1
99th	8.5	8.3	8.5	8.5	8.5	8.2	7.9	7.9	8.0	8.1
Maximum	8.5	8.4	8.5	8.5	8.5	8.2	7.9	7.9	8.0	8.1

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - pH - Waters [pH]
Number of Values - 413
Units -
Detection Limit - 0.1
Analytical Method - GCE

pH by GCE

Summary Statistics



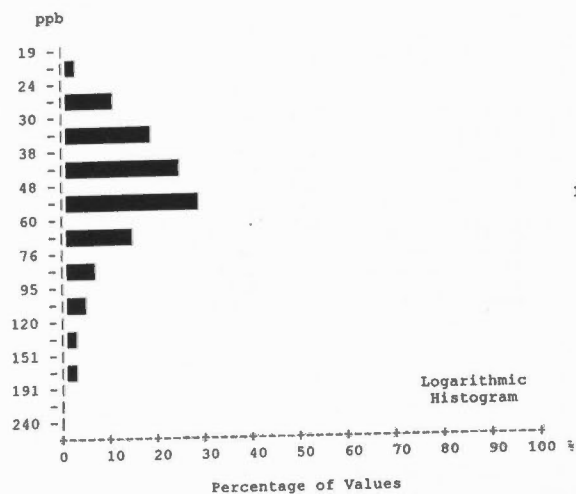
	All	uTrTt	PTrCCs	muTrTs	PTrCCl	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	370	150	81	32	13	19	12	13	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	4.4	4.4	4.7	4.1	2.1	4.5	4.2	2.9	5.3	4.8
Median	3.0	4.0	3.0	4.0	2.0	4.0	4.0	3.0	4.0	5.0
Mode	3.0	3.0	2.0	4.0	1.0	4.0	1.0	3.0	4.0	5.0
Range	54	25	54	9	4	7	17	4	10	5
St Dev	4.29	3.18	6.54	2.43	1.36	1.88	4.02	1.00	3.04	1.54
Coef Var	0.983	0.729	1.380	0.596	0.638	0.422	0.953	0.341	0.576	0.319
Log Mean	0.535	0.565	0.516	0.526	0.252	0.607	0.468	0.439	0.673	0.657
Geo Mean	3.4	3.7	3.3	3.4	1.8	4.0	2.9	2.7	4.7	4.5
Log StDv	0.288	0.245	0.336	0.291	0.258	0.209	0.387	0.171	0.203	0.167
Log CVar	0.539	0.434	0.653	0.553	1.030	0.345	0.828	0.390	0.302	0.254
Percentls										
Minimum	1	1	1	1	1	1	1	1	3	2
10th	1	2	1	1	1	2	1	1	3	2
20th	2	2	2	2	1	3	1	2	3	3
30th	3	3	2	2	1	4	1	2	3	3
40th	3	3	3	3	1	4	2	3	4	5
50th	3	4	3	4	2	4	4	3	4	5
60th	4	4	4	4	2	4	4	3	4	5
70th	5	5	5	5	2	5	6	3	5	6
80th	6	6	6	6	3	5	6	3	7	6
85th	6	6	7	6	4	6	6	4	7	6
90th	7	7	9	7	4	8	6	4	8	6
95th	10	9	10	8	5	8	6	4	8	6
98th	13	12	21	10	5	8	18	5	13	7
99th	21	18	27	10	5	8	18	5	13	7
Maximum	55	26	55	10	5	8	18	5	13	7

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Sulphate - Waters [SO4]
Number of Values - 413
Units - ppm
Detection Limit - 1
Analytical Method - TURB

Sulphate by TURB

Summary Statistics



N	%	Cum%
5	1.2	1.2
36	8.7	9.9
75	18.2	28.1
97	23.5	51.6
109	26.4	78.0
55	13.3	91.3
20	4.8	96.1
12	2.9	99.0
2	0.5	99.5
2	0.5	100.0

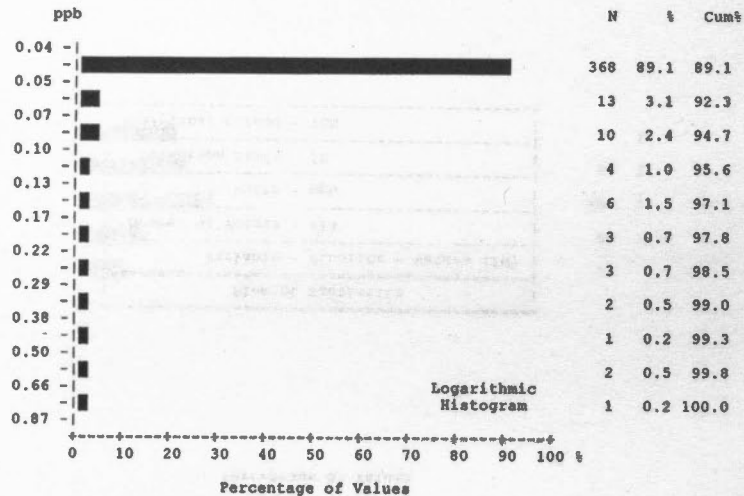
	All	uTrTt	PtrCCs	muTrTs	PtrCCl	MJt	PtrCCb	uTrTv	PtrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	412	156	93	37	23	20	18	14	11	11
Missing	0	0	0	0	0	0	0	0	0	0
Mean	50.8	47.8	57.9	59.5	47.1	42.3	42.9	37.1	47.5	64.5
Median	46.0	44.0	52.0	58.0	48.0	40.0	46.0	34.0	46.0	44.0
Mode	40.0	40.0	30.0	46.0	36.0	40.0	26.0	34.0	42.0	36.0
Range	160	108	104	70	44	32	40	38	14	150
St Dev	20.57	15.78	25.29	14.77	12.78	8.76	12.69	9.91	4.82	52.92
Coef Var	0.405	0.330	0.437	0.248	0.271	0.207	0.296	0.267	0.102	0.820
Log Mean	1.678	1.660	1.724	1.763	1.658	1.618	1.612	1.558	1.674	1.719
Geo Mean	47.6	45.7	53.0	58.0	45.5	41.5	41.0	36.1	47.2	52.3
Log StDv	0.152	0.125	0.182	0.990	0.120	0.089	0.139	0.101	0.044	0.266
Log CVar	0.090	0.075	0.106	0.056	0.072	0.055	0.087	0.065	0.026	0.155
Percntls										
Minimum	20	22	26	40	28	28	24	28	42	30
10th	30	34	30	44	30	30	26	28	42	30
20th	36	38	36	46	36	36	26	28	42	32
30th	40	40	40	48	36	38	32	30	42	36
40th	42	40	48	54	42	40	36	34	44	36
50th	46	44	52	58	48	40	46	34	46	44
60th	50	48	58	62	48	42	50	34	50	46
70th	56	50	66	64	54	44	50	40	50	48
80th	62	58	74	68	58	48	52	42	52	58
85th	66	62	86	68	60	48	54	42	52	58
90th	72	64	92	72	66	58	56	44	52	160
95th	88	72	110	86	72	60	64	66	56	180
98th	110	92	120	88	72	60	64	66	56	180
99th	120	100	120	110	72	60	64	66	56	180
Maximum	180	130	130	110	72	60	64	66	56	180

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Fluoride - Waters [FW]
Number of Values - 413
Units - ppb
Detection Limit - 20
Analytical Method - ION

Fluoride by ION

Summary Statistics



	All	uTrTt	PTrCCs	muTrTs	PTrCCL	MJt	PTrCCb	uTrTv	PTrCCvs	EJd
N	413	156	93	37	23	20	18	14	11	11
N > DL	45	10	14	7	8	0	1	1	1	2
Missing	0	0	0	0	0	0	0	0	0	0
Mean	0.06	0.05	0.07	0.08	0.14	0.05	0.05	0.05	0.05	0.06
Median	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Mode	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Range	0.79	0.08	0.61	0.52	0.79	0.00	0.03	0.01	0.03	0.05
St Dev	0.07	0.01	0.08	0.09	0.18	0.00	0.01	0.00	0.01	0.02
Coef Var	1.066	0.175	1.168	1.186	1.352	0.000	0.137	0.053	0.172	0.272
Log Mean	-1.259	-1.289	-1.240	-1.207	-1.065	-1.301	-1.290	-1.295	-1.282	-1.266
Geo Mean	0.06	0.05	0.06	0.06	0.09	0.05	0.05	0.05	0.05	0.05
Log StDv	0.159	0.054	0.197	0.235	0.367	0.000	0.048	0.021	0.062	0.092
Log CVar	-0.126	-0.042	-0.159	-0.195	-0.345	0.000	-0.037	-0.016	-0.048	-0.072
Percentls										
Minimum	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
10th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
20th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
30th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
40th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
50th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
60th	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
70th	0.05	0.05	0.05	0.05	0.13	0.05	0.05	0.05	0.05	0.05
80th	0.05	0.05	0.05	0.05	0.16	0.05	0.05	0.05	0.05	0.05
85th	0.05	0.05	0.05	0.07	0.18	0.05	0.05	0.05	0.05	0.05
90th	0.06	0.05	0.07	0.12	0.26	0.05	0.05	0.05	0.05	0.06
95th	0.10	0.06	0.12	0.15	0.48	0.05	0.05	0.05	0.05	0.06
98th	0.26	0.08	0.36	0.27	0.84	0.05	0.08	0.06	0.08	0.10
99th	0.37	0.09	0.37	0.57	0.84	0.05	0.08	0.06	0.08	0.10
Maximum	0.84	0.13	0.66	0.57	0.84	0.05	0.08	0.06	0.08	0.10

(Summary statistics not calculated for formations with fewer than ten values.)

Element Statistics
Variable - Uranium - Waters (UW)
Number of Values - 413
Units - ppb
Detection Limit - 0.05
Analytical Method - LIF

Uranium by LIF

Threshold Table

FORM	N	Au			Sb			As			Ba			Br			Ce			Cs		
		90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th
FORM	N																					
PTTrCCb	18	4	5	5	5.30	5.40	8.40	26.0	41.0	64.9	1000	1100	1100	75.9	82.3	86.3	43	43	44	4.3	4.6	5.7
PTTrCCl	23	4	5	5	1.50	1.70	3.60	18.0	26.0	35.0	970	1300	1900	77.6	83.2	86.3	48	48	49	2.8	3.3	4.5
PTTrCCs	93	5	6	7	1.10	1.20	1.30	37.0	66.5	143.0	930	990	1100	77.1	80.2	93.2	43	45	49	3.2	4.0	4.9
PTTrCCvs	11	5	5	8	2.70	2.70	3.90	17.0	17.0	22.0	1000	1000	1100	71.0	71.0	161.0	43	43	45	3.5	3.5	4.4
EJd	11	6	6	6	1.10	1.10	1.20	5.5	5.5	7.8	430	430	460	38.0	38.0	51.0	23	23	24	1.2	1.2	2.2
MJt	20	5	5	6	1.50	1.60	2.60	10.0	10.0	11.0	720	780	830	94.1	96.6	159.0	49	50	51	3.3	3.5	5.1
muTrTs	37	5	7	8	3.40	3.80	4.10	13.0	15.0	22.0	760	950	1000	76.3	82.8	89.5	36	46	49	3.0	3.6	3.8
uTrTt	156	7	8	10	1.90	2.30	2.70	12.0	15.0	18.0	770	820	940	62.9	69.5	89.4	35	39	42	2.2	2.8	3.3
uTrTv	14	7	7	14	0.80	0.80	1.00	8.3	8.3	9.2	360	360	470	40.0	40.0	46.0	26	26	27	0.8	0.8	0.8
FORM	N	Cr			Co			Hf			Fe			La			Lu			Mo		
		90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th
FORM	N																					
PTTrCCb	18	150	160	180	28	30	44	4	4	4	9.30	12.00	26.50	20.00	21.00	21.00	0.5	0.5	0.6	4	4	9
PTTrCCl	23	150	160	160	22	25	33	2	3	4	6.60	7.50	11.00	20.00	23.00	23.00	0.3	0.4	0.6	8	10	10
PTTrCCs	93	110	110	120	21	22	23	3	3	4	5.80	7.10	10.00	23.00	23.00	24.00	0.5	0.5	0.6	15	22	26
PTTrCCvs	11	350	350	370	27	27	35	2	2	3	5.00	5.00	5.60	19.00	19.00	20.00	0.3	0.3	0.4	5	5	16
EJd	11	57	57	100	10	10	11	1	1	1	1.70	1.70	1.90	12.00	12.00	12.00	0.2	0.2	0.2	6	6	7
MJt	20	93	100	100	18	19	22	4	4	4	4.90	5.00	6.40	25.00	26.00	29.00	0.5	0.5	0.5	6	7	14
muTrTs	37	120	140	140	20	24	26	2	2	3	4.50	6.40	6.70	17.00	20.00	23.00	0.3	0.4	0.5	15	18	28
uTrTt	156	120	140	160	18	20	23	2	2	3	4.30	4.90	7.30	18.00	19.00	21.00	0.4	0.4	0.5	8	12	18
uTrTv	14	67	67	110	10	10	14	1	1	1	2.60	2.60	2.80	13.00	13.00	14.00	0.3	0.3	0.4	6	6	6
FORM	N	Ni			Rb			Sm			Sc			Na			Ta			Tb		
		90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th
FORM	N																					
PTTrCCb	18	110	120	150	67	72	77	4.4	4.6	4.8	23.8	24.1	25.7	1.40	1.50	1.60	0.6	0.7	0.7	0.8	0.8	0.9
PTTrCCl	23	57	65	99	51	59	69	4.5	4.9	4.9	19.0	21.2	22.8	1.40	1.80	1.80	0.7	0.7	0.7	0.6	0.7	0.8
PTTrCCs	93	75	88	100	55	65	75	4.8	5.1	5.8	22.0	23.0	25.2	1.50	1.70	2.40	0.6	0.6	0.6	0.8	0.9	0.9
PTTrCCvs	11	200	200	420	58	58	68	4.5	4.5	4.6	22.4	22.4	24.4	2.03	2.03	2.28	0.5	0.5	0.7	0.7	0.7	0.8
EJd	11	24	24	26	23	23	36	2.5	2.5	2.7	10.0	10.0	11.0	1.00	1.00	1.20	0.5	0.5	0.5	0.5	0.5	0.5
MJt	20	74	100	110	43	44	47	5.5	5.8	6.0	20.0	20.2	21.1	2.00	2.03	2.84	0.5	0.6	0.6	0.6	0.9	1.0
muTrTs	37	58	60	60	46	51	67	3.7	4.5	4.5	20.0	23.7	23.8	1.50	1.60	1.70	0.6	0.6	0.6	0.5	0.6	0.7
uTrTt	156	57	66	80	38	44	51	3.9	4.1	4.8	20.1	22.3	23.9	1.50	1.80	2.21	0.5	0.5	0.6	0.6	0.8	0.8
uTrTv	14	22	22	27	16	16	21	3.2	3.2	3.2	12.0	12.0	12.0	0.77	0.77	1.20	0.5	0.5	0.5	0.6	0.6	0.8
FORM	N	Th			W			U			Yb											
		90th	95th	98th	90th	95th	98th	90th	95th	98th	90th	95th	98th									
FORM	N																					
PTTrCCb	18	5.3	5.4	5.7	1	1	1	2.8	2.8	3.1	4	4	4									
PTTrCCl	23	5.1	5.1	5.1	1	2	4	3.9	5.1	7.1	2	3	4									
PTTrCCs	93	4.8	5.0	5.2	1	1	1	3.6	4.0	4.7	3	4	4									
PTTrCCvs	11	4.6	4.6	5.1	1	1	1	2.7	2.7	2.8	2	2	2									
EJd	11	2.1	2.1	2.6	1	1	1	2.5	2.5	3.7	1	1	1									
MJt	20	4.5	5.6	5.8	1	2	2	3.0	5.5	7.2	3	4	4									
muTrTs	37	3.8	4.6	4.8	1	1	1	3.7	5.3	6.5	2	3	3									
uTrTt	156	3.5	3.8	3.9	1	1	2	2.6	3.0	4.3	2	3	3									
uTrTv	14	2.1	2.1	2.1	1	1	1	1.2	1.2	3.5	2	2	2									

Threshold Table

FORM	N	Bi 90th	Bi 95th	Bi 98th	Cd 90th	Cd 95th	Cd 98th	Co 90th	Co 95th	Co 98th	Cu 90th	Cu 95th	Cu 98th	F 90th	F 95th	F 98th	Fe 90th	Fe 95th	Fe 98th
PTrCCb	18	0.2	0.2	0.2	1.4	1.6	1.8	22	24	29	64	70	71	360	400	450	6.40	7.00	8.50
PTrCCl	23	0.2	0.2	0.2	1.6	1.9	2.0	17	17	22	53	57	66	430	440	450	4.50	5.10	8.50
PTrCCs	93	0.2	0.2	0.2	1.8	2.0	2.2	15	17	18	84	92	105	380	420	470	4.40	5.20	8.00
PTrCCvs	11	0.2	0.2	0.2	1.3	1.3	2.0	20	20	24	70	70	78	420	420	440	3.70	3.70	3.90
EJd	11	0.2	0.2	0.2	1.6	1.6	2.2	7	7	9	98	98	166	240	240	250	1.00	1.00	1.20
MJt	20	0.2	0.2	0.2	0.6	0.7	0.8	14	15	16	95	111	250	310	310	310	3.90	4.40	4.50
muTrTs	37	0.2	0.2	0.2	1.5	1.8	2.1	14	16	20	66	75	81	360	360	400	3.00	4.60	5.40
uTrTt	156	0.2	0.2	0.2	1.6	1.7	2.0	12	14	17	90	110	142	310	320	350	2.90	3.60	7.20
uTrTv	14	0.2	0.2	0.2	1.2	1.2	1.2	10	10	10	76	76	93	180	180	200	2.50	2.50	2.60

FORM	N	Pb 90th	Pb 95th	Pb 98th	Mn 90th	Mn 95th	Mn 98th	Hg 90th	Hg 95th	Hg 98th	Mo 90th	Mo 95th	Mo 98th	Ni 90th	Ni 95th	Ni 98th	Se 90th	Se 95th	Se 98th
PTrCCb	18	6	10	13	1100	1680	2500	1900	2400	4150	6	7	9	109	119	146	2.1	2.2	2.5
PTrCCl	23	6	7	7	1170	2640	4800	210	290	810	10	12	14	58	59	87	3.7	4.3	5.8
PTrCCs	93	8	11	11	1400	1700	5050	150	150	180	18	27	33	68	96	103	3.2	4.1	4.2
PTrCCvs	11	7	7	11	510	510	547	300	300	410	6	6	23	288	288	525	4.6	4.6	10.0
EJd	11	2	2	2	224	224	262	290	290	360	8	8	8	24	24	25	9.0	9.0	13.5
MJt	20	4	4	4	1360	1400	1460	260	260	330	9	10	14	82	104	105	2.1	2.3	2.7
muTrTs	37	5	8	11	695	1620	1850	180	200	210	13	22	39	54	59	66	7.1	11.5	12.5
uTrTt	156	3	4	4	543	1050	1800	310	380	430	11	14	20	52	60	74	9.5	11.0	15.0
uTrTv	14	3	3	3	940	940	960	280	280	290	6	6	8	22	22	23	2.8	2.8	11.5

FORM	N	Ag 90th	Ag 95th	Ag 98th	V 90th	V 95th	V 98th	Zn 90th	Zn 95th	Zn 98th
PTrCCb	18	0.6	0.9	1.3	88	93	104	244	295	420
PTrCCl	23	0.5	0.5	0.6	62	73	135	282	322	480
PTrCCs	93	0.6	0.6	0.8	76	88	89	282	317	433
PTrCCvs	11	0.3	0.3	0.4	73	73	75	156	156	157
EJd	11	1.0	1.0	1.0	44	44	48	169	169	230
MJt	20	0.3	0.4	0.4	94	95	125	135	149	203
muTrTs	37	0.4	0.4	0.4	59	61	65	212	310	347
uTrTt	156	0.6	0.8	1.0	70	84	96	180	191	216
uTrTv	14	1.1	1.1	1.2	96	96	106	118	118	120

Multi-Element Anomaly Chart: Precious Metals

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	Rep	Form	Au INAA	Au2 INAA	Sb INAA	As INAA	Hg CV-AAS	Ag AAS	Total Rating	0	10	20	Au	Element Rating	Rating	Au2	Sb	As	Hg	Ag
93K09	951002	10	432558	6039933		muTrTs	8	7	0.4	5.4	110	0.2	5				3	2					3	
93K09	951008	10	432205	6047810		muTrTs	4		1.2	5.3	220	0.4	3											
93K09	951009	10	431490	6047826		muTrTs	1		0.1	31.0	10	0.2	3									3		
93K09	951017	10	434522	6059567		MPCv	1		0.5	103.0	30	0.4	3											3
93K09	951022	10	429840	6062157		uTrTt	6	6	1.5	9.4	280	1.2	3											
93K16	951034	10	433553	6073339		uTrTt	8	7	1.4	14.0	180	0.4	4				2	1				1		
93K16	951035	10	434231	6073501		uTrTt	7	11	1.2	12.0	180	0.5	5				1	3				1		1
93K16	951039	10	427834	6082196		uTrTt	8	6	0.9	9.2	270	0.6	3				2							
93K16	951046	10	429755	6093918		uTrTv	3		1.0	9.2	110	0.2	6				3	3			3	3		
93K16	951047	10	425854	6094264		EJd	6	8	0.5	2.5	160	0.5	6											
93K16	951050	10	420336	6094008		uTrTv	5		0.7	8.3	290	1.1	7									2	3	2
93K16	951053	10	427014	6088955		uTrTt	17	15	0.9	7.6	110	0.4	6				3	3				3		
93K16	951059	10	421471	6079484		uTrTt	4		0.8	18.0	90	0.4	3										2	2
93K16	951085	10	421511	6067536		uTrTt	5		1.7	7.0	410	0.9	4				3	2	2		1	2	3	
93K16	951086	10	421733	6068589		uTrTt	10	9	2.3	12.0	380	1.0	13											
93K16	951097	10	416643	6075034		uTrTt	1		1.6	18.0	210	0.5	3											3
93K16	951105	10	414184	6080846		uTrTt	4		1.1	6.4	210	1.0	3				2				2			3
93K16	951115	10	417136	6094897		uTrTv	7	6	0.8	3.1	270	1.2	7				3	3				2		
93K16	951119	10	419336	6093170		uTrTv	14	15	0.6	5.8	280	0.4	8									3	3	
93K16	951122	10	419601	6089516		EJd	4		0.7	2.8	360	1.0	6											
93K16	951123	10	420254	6087668		EJd	1		1.2	7.8	70	0.2	6				2				3	3		
93K16	951124	10	418360	6086491		uTrTt	8	8	0.6	5.5	180	0.4	4				1	1				2	3	
93K16	951127	10	419384	6084476		uTrTt	7	7	1.0	6.3	410	2.0	7				3				2	2		
93K16	951128	10	417791	6082277		EJd	6	5	1.1	5.5	200	0.4	7											
93K16	951131	10	413973	6069528		uTrTt	7	10	3.7	15.0	230	0.5	9				1	3			3	2		
93K09	951153	10	408402	6052165		PTCCb	1		5.3	64.9	220	0.2	4								1	3		
93K09	951154	10	406510	6053528		PTCCb	5		8.4	12.0	4150	0.4	6								3		3	
93K10	951156	10	402570	6054777		PTCCb	4		5.4	12.0	2400	0.5	4								2		2	
93K10	951157	10	398998	6057197		PTCCl	5		3.6	10.0	810	0.2	6								3			3
93K10	951167	10	397090	6064009		PTCCb	1		1.1	26.0	120	1.3	4									1		
93K10	951173	10	394842	6066850		PTCCb	1		0.6	41.0	50	0.6	3									2		1
93K16	951179	10	406955	6083782		uTrTt	1		1.4	3.2	480	0.9	5				3	3				3		2
93K16	951192	10	408541	6086351		uTrTt	11	10	1.4	6.7	200	0.4	6										2	3
93K16	951195	10	413308	6092035		EJd	3		0.6	2.1	290	1.0	5									2		1
93K16	951200	10	414514	6089813		uTrTt	5		0.6	3.7	400	0.7	3											
93K15	951208	10	400251	6094866		uTrTt	10	7	1.3	6.7	170	0.3	4				3	1					3	3
93K15	951212	10	402885	6091061		uTrTt	7	5	2.4	5.2	550	1.2	9				1							
93K15	951216	10	401545	6081971		uTrTt	8	7	2.7	25.0	230	0.5	9				2	1			3	3		
93K16	951224	10	406427	6069844		muTrTs	7	6	4.3	11.0	210	0.2	9				2	1			3			3
93K16	951225	10	407145	6069809		muTrTs	5		4.1	12.0	170	0.6	6											
93K16	951233	10	412317	6070587		uTrTt	10	8	1.7	8.7	160	0.3	5				3	2				1		2
93K16	951234	10	413060	6070026		uTrTt	10	8	2.3	12.0	200	0.8	10				3	2			2	1		1
93K16	951235	10	411663	6069820		uTrTt	7	9	1.9	12.0	210	0.6	6				1	2			3			
93K09	951242	10	413314	6050963		PTCCv	1		3.9	5.4	300	0.4	5									2		
93K09	951248	10	413068	6057855		muTrTs	4		1.0	22.0	160	0.4	3									3		

Multi-Element Anomaly Chart: Precious Metals

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	Rep	Form	Au INAA	Au2 INAA	Sb INAA	As INAA	Hg CV-AAS	Ag AAS	Total Rating	0	10	20	Au	Element Au2	Sb	As	Hg	Ag
93K09	951251	10	406288	6058784		PTCCvs	1		1.3	5.3	410	0.3	3									
93K10	951255	10	400486	6064204		PTCCvs	1		1.1	22.0	70	0.2	3									
93K15	951257	10	397713	6068533		PTCCvs	8	4	1.4	14.0	140	0.2	3				3			3		
93K15	951273	10	395058	6085069		uTrTt	1		1.9	14.0	350	0.4	3						1	1	1	
93K15	951274	10	396111	6082934		uTrTt	12	15	2.4	21.0	310	0.4	12				3	3	2	3	1	
93K15	951277	10	398537	6083749		uTrTt	4		2.5	12.0	320	0.5	4									
93K15	951282	10	391951	6089594		uTrTt	3		1.0	5.2	430	0.2	3						2	1	1	
93K15	951287	10	389633	6091868		uTrTt	8	7	1.9	11.0	210	0.2	4				2	1	1		3	
93K15	951290	10	393565	6095804		uTrTt	4		0.9	17.0	320	0.2	3							2	1	
93K15	951295	10	382865	6095648		uTrTt	1		3.0	22.0	600	0.3	9						3	3	3	
93K15	951297	10	374878	6094515		PTCCl	1		1.7	35.0	290	0.2	7						2	3	2	
93K15	951311	10	376876	6084477		PTCCs	9	5	0.7	7.2	290	0.4	6				3				3	
93K15	951316	10	396895	6078570		muTrTs	1		3.5	13.0	180	0.2	3						1	1	1	
93K15	951317	10	398907	6078151		uTrTt	6	1	3.2	14.0	140	0.3	4						3	1		
93K09	951322	10	410315	6066939		muTrTs	8	6	3.8	14.0	170	0.4	7				3	1	2			
93K10	951342	10	388662	6066768		PTCCs	1		0.1	143.0	30	0.2	3							3		
93K10	951343	10	388950	6066675		PTCCs	1		0.3	316.0	40	0.2	3							3		
93K10	951352	10	392854	6067825		PTCCs	1		0.8	48.0	100	1.2	4							1		3
93K15	951355	10	391532	6068893		PTCCs	1		1.1	6.9	200	0.6	6						1		3	2
93K15	951359	10	388425	6068998		PTCCs	1		0.4	156.0	60	0.2	3							3		
93K15	951376	10	378406	6079733		PTCCl	1		1.2	26.0	70	0.6	5							2		3
93K15	951382	10	378164	6078195		PTCCs	1		1.3	8.8	90	0.2	3						3			
93K15	951385	10	376985	6077339	20	PTCCs	3		1.4	15.0	70	0.2	3							3		
93K15	951389	10	373525	6070168		JKgd	7	9	0.5	5.3	200	0.7	7				2	3				2
93K15	951390	10	373666	6069740		PTCCs	5		0.5	5.9	180	0.6	5									
93K10	951394	10	373455	6067947		PTCCs	7	5	0.8	8.0	130	0.2	3				3				3	2
93K10	951395	10	373997	6067144		PTCCs	7	6	0.8	8.1	140	0.2	5				3	2				
93K10	951398	10	373166	6062666		PTCCs	7	6	1.0	6.8	150	0.6	9				3	2			2	2
93K15	951400	10	377433	6069068		JKgd	6	5	0.7	4.6	120	0.8	3				1					2
93K15	951405	10	377611	6071672		PTCCs	6	6	0.8	24.0	120	0.2	4				2	2				
93K15	951406	10	378000	6073260		PTCCs	1		1.2	8.5	90	0.6	4						2			2
93K15	951408	10	381045	6075115		PTCCs	3		0.9	7.3	100	0.9	3									3
93K15	951411	10	382398	6074193		PTCCs	4		1.5	10.0	150	0.8	8						3		2	3
93K15	951412	10	381902	6073554		PTCCs	6	5	1.3	8.7	70	0.6	7				2		3			2
93K15	951413	10	382908	6072682		PTCCs	3		1.3	7.9	120	0.2	3						3			
93K15	951414	10	383661	6072942		PTCCs	4		1.2	7.8	90	0.6	4							2		2
93K09	951416	10	420492	6067189		uTrTt	9	8	1.5	8.0	400	0.6	7				2	2			2	1
93K10	951454	10	371781	6045729		MJt	6	4	0.7	4.1	330	0.3	6				3				3	
93K10	951455	10	376213	6049478		PTCCs	1		1.3	12.0	70	0.2	3						3			
93K10	951476	10	377608	6042105		MJt	1		1.5	11.0	110	0.4	4						1	3		
93K10	951477	10	378878	6041601		MJt	1		2.6	5.2	110	0.2	3						3			

Multi-Element Anomaly Chart: Base Metals

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	Rep	Form	Cu AAS	Mo AAS	Pb AAS	Zn AAS	Ag AAS	Total Rating	0	10	20	Cu	Mo	Pb	Zn	Ag
93K09	951017	10	434522	6059567	20	MPCv	20	65	2	51	0.4	3								
93K09	951022	10	429840	6062157		uTrTt	43	3	3	310	1.2	6							3	3
93K16	951028	10	433475	6069637		uTrTt	48	21	2	146	0.3	3								
93K16	951045	10	432296	6093893		uTrTv	93	5	2	60	0.4	3								
93K16	951050	10	420336	6094008		uTrTv	57	4	2	118	1.1	4							2	2
93K16	951059	10	421471	6079484	20	uTrTt	45	20	2	86	0.4	3								
93K09	951071	10	431938	6045746		muTrTs	34	2	12	164	0.3	3								
93K09	951072	10	430753	6049792		muTrTs	18	39	3	67	0.3	3								
93K09	951078	10	428732	6055135		uTrTt	14	4	2	391	0.2	3								
93K16	951085	10	421511	6067536		uTrTt	85	4	2	204	0.9	4							2	2
93K16	951086	10	421733	6068589	20	uTrTt	110	4	3	180	1.0	6								
93K16	951105	10	414184	6080846		uTrTt	81	4	3	142	1.0	3								
93K16	951114	10	416334	6094537		uTrTv	63	8	2	76	1.0	3								
93K16	951115	10	417136	6094897		uTrTv	64	3	2	108	1.2	3								
93K16	951118	10	419740	6093386		uTrTv	53	3	2	120	0.5	3								
93K16	951122	10	419601	6089516	20	EJd	98	5	2	230	1.0	8								
93K16	951123	10	420254	6087668		EJd	26	8	2	169	0.2	5								
93K16	951127	10	419384	6084476		uTrTt	125	4	2	182	2.0	6								
93K16	951131	10	413973	6069528		uTrTt	71	6	2	216	0.5	3								
93K09	951138	10	427488	6052244		uTrTt	28	45	2	135	0.2	3								
93K09	951143	10	416173	6043914	20	PTCCb	49	9	2	97	0.4	3								
93K09	951144	10	416171	6043914		PTCCb	44	9	3	93	0.3	3								
93K10	951157	10	398998	6057197		PTCCl	57	2	7	154	0.2	5								
93K10	951158	10	399715	6057458		PTCCb	62	2	13	151	0.4	3								
93K10	951163	10	402421	6060500		PTCCvs	54	6	2	157	0.3	5								
93K10	951165	10	399007	6060384	20	PTCCb	71	6	2	153	0.4	4								
93K10	951167	10	397090	6064009		PTCCb	70	5	6	420	1.3	9								
93K10	951169	10	396585	6064478		PTCCb	61	5	4	295	0.9	4								
93K16	951179	10	406955	6083782		uTrTt	160	4	2	130	0.9	5								
93K16	951190	10	410852	6085279		uTrTt	156	16	2	65	0.3	5								
93K16	951194	10	410646	6090624	20	uTrTt	142	8	3	114	0.5	3								
93K16	951195	10	413308	6092035		EJd	166	6	2	41	1.0	6								
93K16	951197	10	415595	6092541		uTrTv	76	6	2	64	0.4	4								
93K16	951199	10	414241	6090978		EJd	94	8	2	58	0.4	3								
93K16	951200	10	414514	6089813		uTrTt	125	7	2	61	0.7	3								
93K16	951205	10	405640	6090748	20	uTrTt	45	39	2	37	0.2	3								
93K15	951210	10	403243	6090647		uTrTt	70	16	2	85	0.6	3								
93K15	951212	10	402885	6091061		uTrTt	165	9	2	135	1.2	6								
93K15	951214	10	403118	6085529		uTrTt	90	20	2	122	0.2	4								
93K16	951224	10	406427	6069844		muTrTs	81	9	2	183	0.2	3								
93K16	951225	10	407145	6069809	20	muTrTs	75	7	3	200	0.6	5								
93K09	951240	10	415632	6051133		PTCCvs	53	3	11	152	0.3	3								
93K09	951250	10	408981	6057654		PTCCvs	29	23	2	37	0.2	3								
93K09	951251	10	406288	6058784		PTCCvs	70	3	2	156	0.3	4								
93K10	951256	10	398129	6067372		PTCCvs	78	4	6	144	0.3	3								

Multi-Element Anomaly Chart: Base Metals

Map	Sample ID	UTM Zone	UTM East NAD27	UTM North NAD27	Rep	Form	Cu AAS	Mo AAS	Pb AAS	Zn AAS	Ag AAS	Total Rating	0	10	20	Element Rating					
																	Cu	Mo	Pb	Zn	Ag
93K15	951262	10	391851	6079559		muTrTs	56	22	2	347	0.2	5									
93K15	951274	10	396111	6082934		uTrTt	82	12	2	2600	0.4	4								3	
93K15	951290	10	393565	6095804		uTrTt	60	39	3	109	0.2	3								3	
93K15	951295	10	382865	6095648		uTrTt	75	3	6	143	0.3	3									
93K15	951298	10	375932	6092734		PTrCCl	49	14	2	171	0.2	3							3		
93K15	951311	10	376876	6084477		PTrCCs	105	3	4	71	0.4	3									
93K15	951317	10	398907	6078151		uTrTt	54	11	2	199	0.3	3					3				
93K09	951320	10	405068	6067156		muTrTs	62	3	11	140	0.2	3							1		2
93K09	951322	10	410315	6066939		muTrTs	106	55	6	220	0.4	8								3	
93K10	951331	10	389399	6064769		PTrCCs	61	3	11	222	0.5	3					3	3		1	1
93K10	951334	10	388107	6065681		PTrCCs	44	3	11	256	0.2	3									
93K10	951337	10	391716	6066236		PTrCCs	14	58	2	111	0.2	3								3	
93K10	951349	10	387199	6067796		PTrCCs	21	37	2	112	0.2	3								3	
93K10	951350	10	387674	6067950		PTrCCs	19	33	2	131	0.2	3								3	
93K10	951352	10	392854	6067825		PTrCCs	59	4	2	595	1.2	6								3	
93K15	951355	10	391532	6068893		PTrCCs	75	4	4	306	0.6	3									3
93K15	951362	10	385053	6069081		PTrCCs	46	6	12	179	0.3	3								1	2
93K15	951369	10	384032	6078350		PTrCCl	52	5	7	182	0.2	3								3	
93K15	951375	10	379122	6080163		PTrCCl	53	6	3	322	0.5	3								3	
93K15	951376	10	378406	6079733		PTrCCl	66	10	6	480	0.6	11					1			2	
93K15	951389	10	373525	6070168		JKgd	109	2	5	168	0.7	4					3	1	1	3	3
93K15	951390	10	373666	6069740		PTrCCs	105	2	3	164	0.6	5					2				2
93K15	951391	10	373973	6069357		PTrCCs	106	4	2	998	0.6	8					3				2
93K10	951398	10	373166	6062666		PTrCCs	100	5	5	150	0.6	4					3			3	2
93K15	951400	10	377433	6069068		JKgd	110	7	4	152	0.8	4					2				2
93K15	951406	10	378000	6073260		PTrCCs	74	4	11	183	0.6	5								3	
93K15	951407	10	379968	6074029		PTrCCs	43	2	2	433	0.3	3									2
93K15	951408	10	381045	6075115		PTrCCs	68	4	7	305	0.9	4									
93K15	951411	10	382398	6074193		PTrCCs	71	5	12	230	0.8	6								1	3
93K15	951412	10	381902	6073554		PTrCCs	66	3	10	232	0.6	3								3	3
93K15	951413	10	382908	6072682		PTrCCs	60	2	11	180	0.2	3									2
93K15	951414	10	383661	6072942		PTrCCs	68	3	10	190	0.6	3								3	
93K09	951418	10	422405	6065609		uTrTt	33	3	6	74	0.2	3								1	2
93K09	951429	10	418065	6058258		muTrTs	28	2	2	435	0.2	3								3	
93K10	951443	10	374275	6043677		MJt	111	9	2	149	0.2	5					2				3
93K10	951446	10	376355	6043867		MJt	86	14	2	203	0.3	6									2
93K10	951454	10	371781	6045729		MJt	250	10	2	127	0.3	5								3	3
93K10	951463	10	373642	6053133		PTrCCs	110	7	2	206	0.2	3					3		2		

**Regional Lake Sediment and Water Geochemistry
of Part of the
Fort Fraser Map Area
(93K/9,10,15,16)**

Open File 1996-15

Appendix D

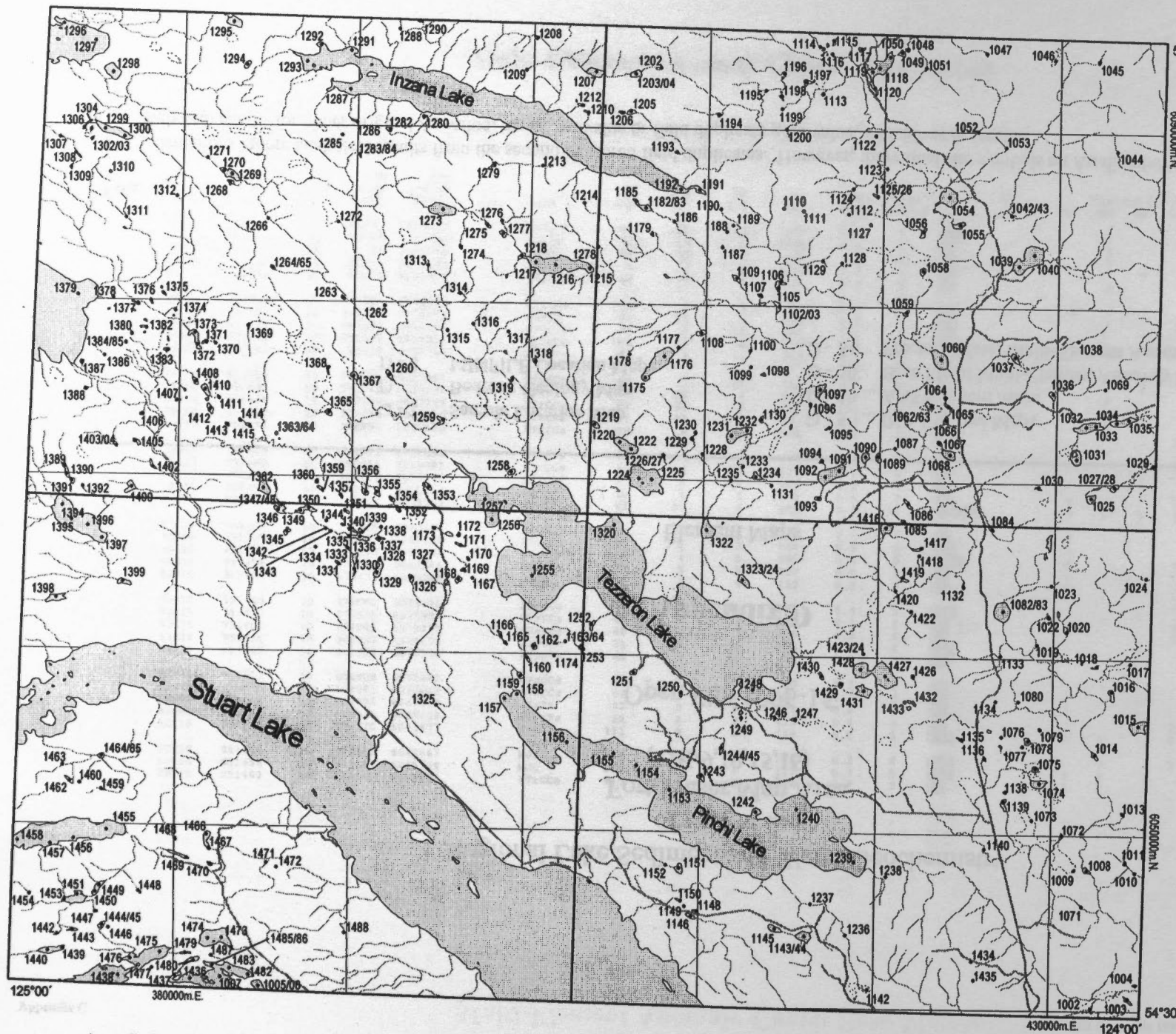
Element Maps

D - 2 Sample Location Map
D - 3 Bedrock Geology Map
D - 4 MINFILE Location Map

D - 5 ... INA Element Maps
D - 30 ... AAS Element Maps
D - 50 Base Metal Multi-Element Anomaly Map
D - 51 Precious Metal Multi-Element Anomaly Map

Notes :

- Calculations ignore analytical results from the second of paired field duplicates. However, individual site symbols on Au distribution map (D-5) incorporate analytical results for either original Au value, repeat Au value or field duplicate gold value, whichever is greater.



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Open File 1996-15

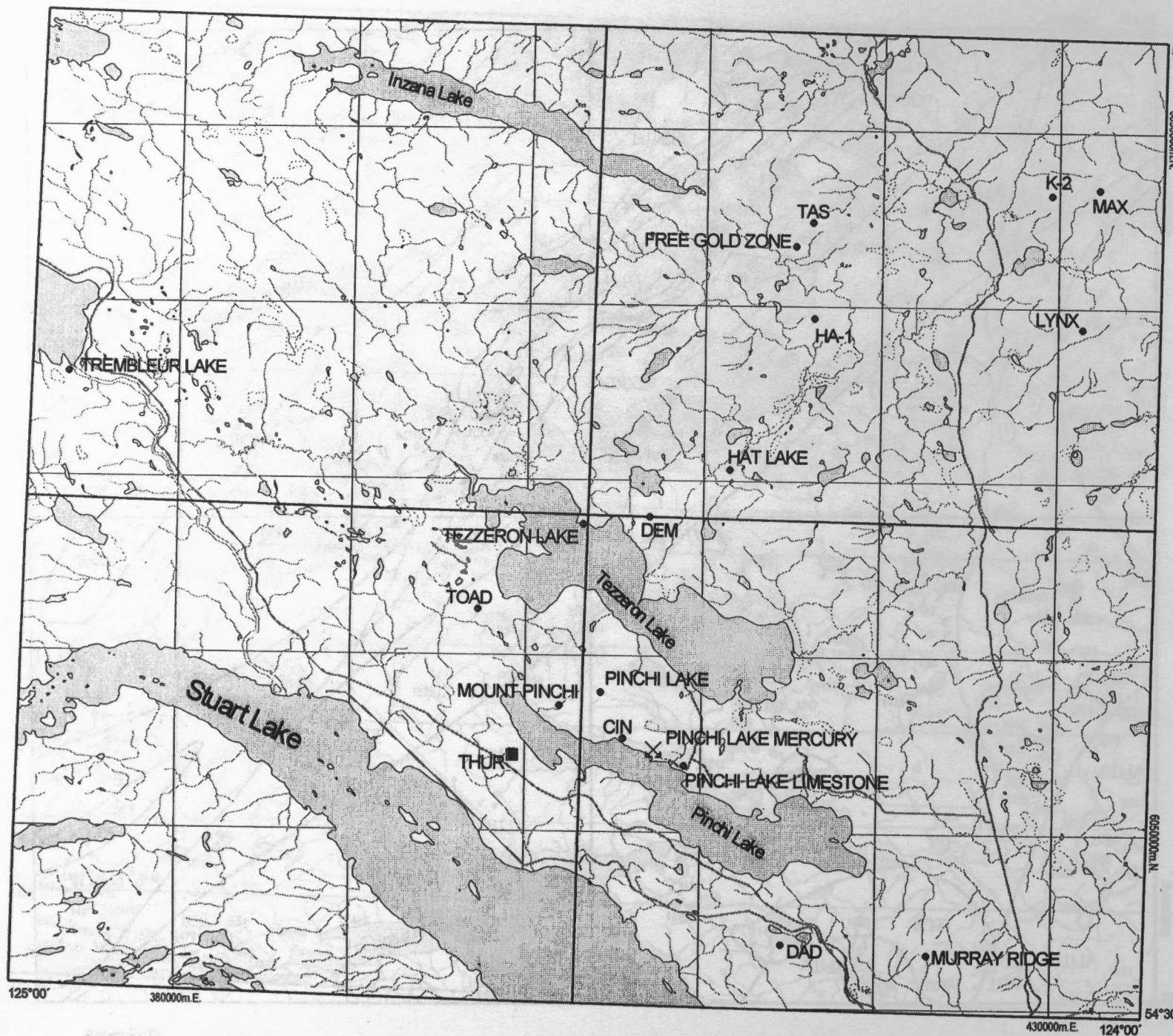
Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Sample Locations



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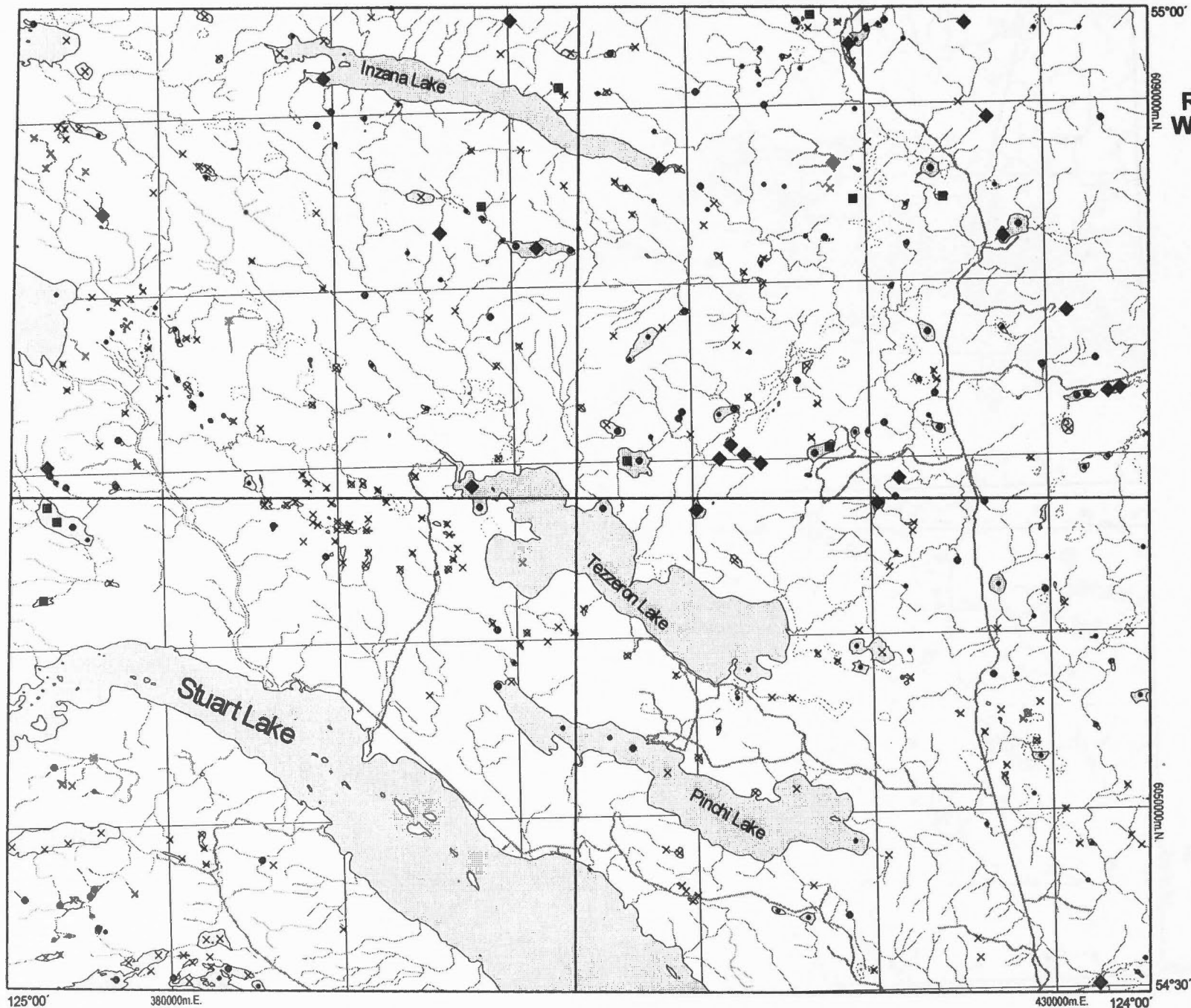
**Regional Lake Sediment and
Water Geochemistry of part of
the Fort Fraser Map Area**
(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

- ✕ Past Producer
- Prospect
- Showing

MINFILE Occurrences



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Gold (ppb) INAA

Lake Sediment	
Concentration	Frequency
8 to 17	◆ n = 24 (5.8%)
7 to 7	■ n = 10 (2.4%)
5 to 6	● n = 63 (15.3%)
3 to 4	• n = 107 (25.9%)
1 to 2	× n = 209 (50.6%)

413 Samples

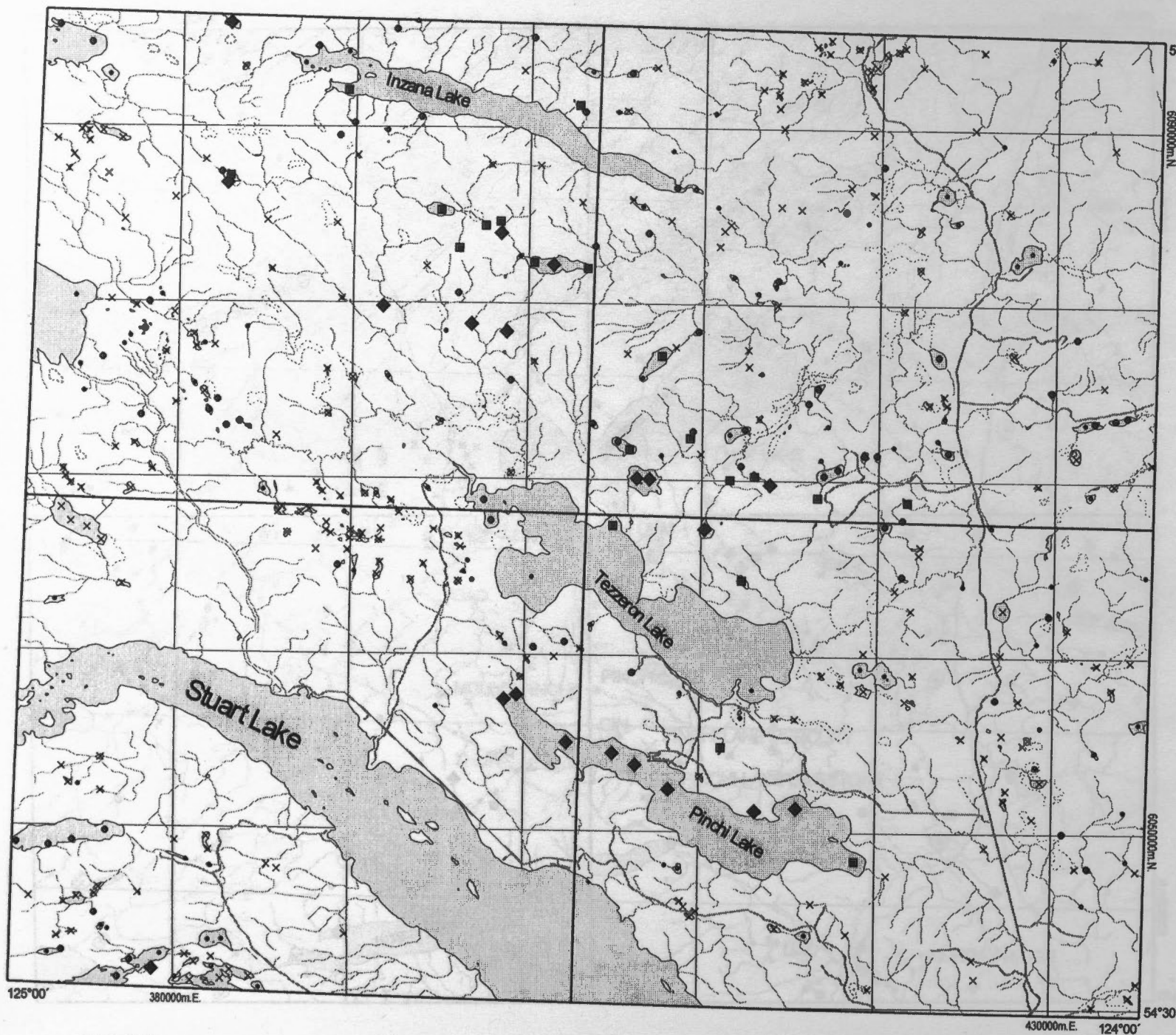
125°00'

380000m.E.

430000m.E.

124°00'

54°30'



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

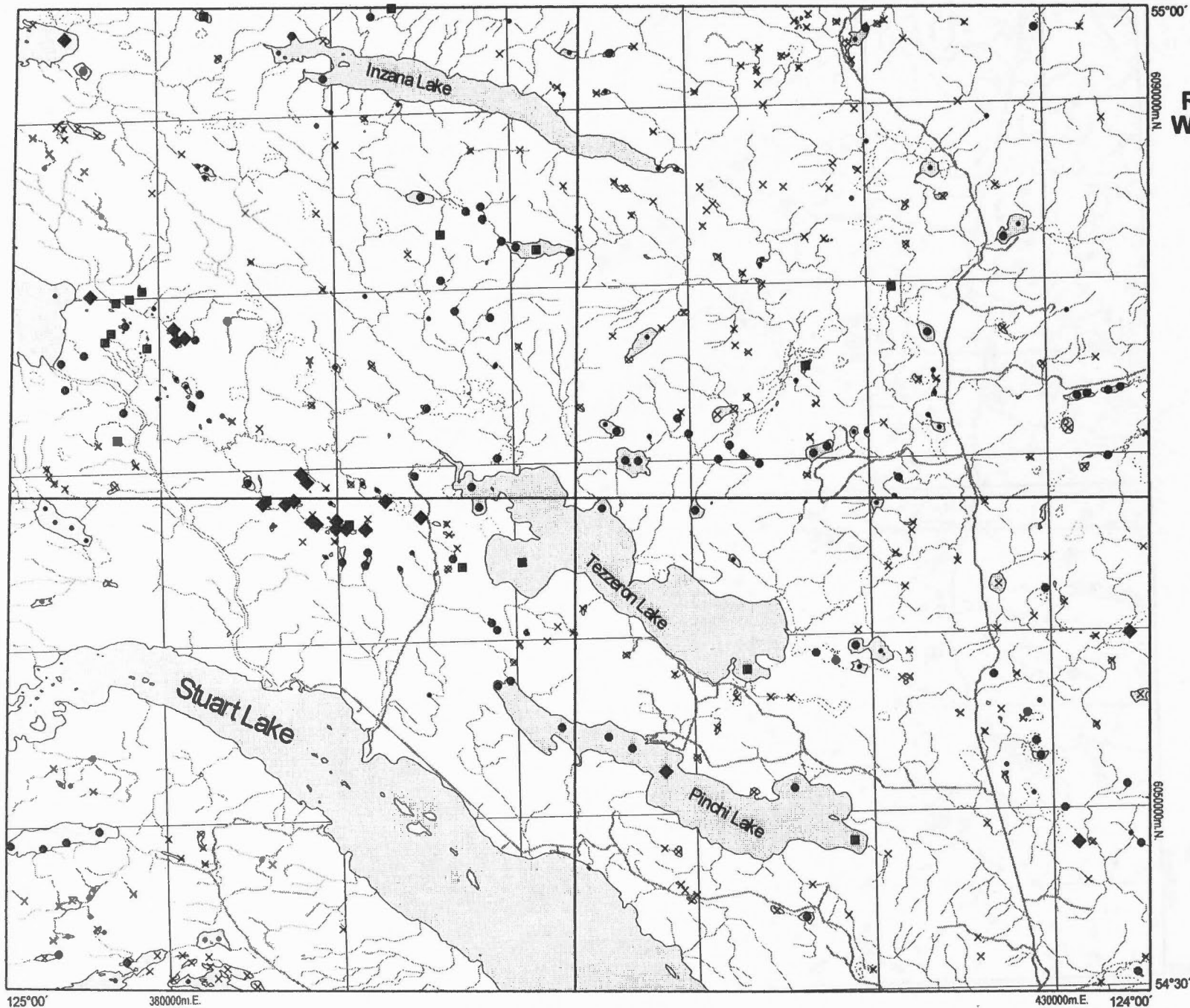
UTM Zone 10
NAD 1983

Antimony (ppm) INAA

Lake Sediment

Concentration	Frequency
2.5 to 8.4	◆ n = 20 (4.8%)
1.8 to 2.4	■ n = 20 (4.8%)
1.2 to 1.7	● n = 67 (16.2%)
0.9 to 1.1	• n = 94 (22.8%)
0.1 to 0.8	× n = 212 (51.3%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Arsenic (ppm) INAA

Lake Sediment

Concentration	Frequency
26.1 to 316.0	◆ n = 21 (5.1%)
16.1 to 26.0	■ n = 19 (4.6%)
8.3 to 16.0	● n = 84 (20.3%)
6.0 to 8.2	• n = 81 (19.6%)
0.9 to 5.9	× n = 208 (50.4%)

413 Samples

125°00'

380000m.E.

430000m.E.

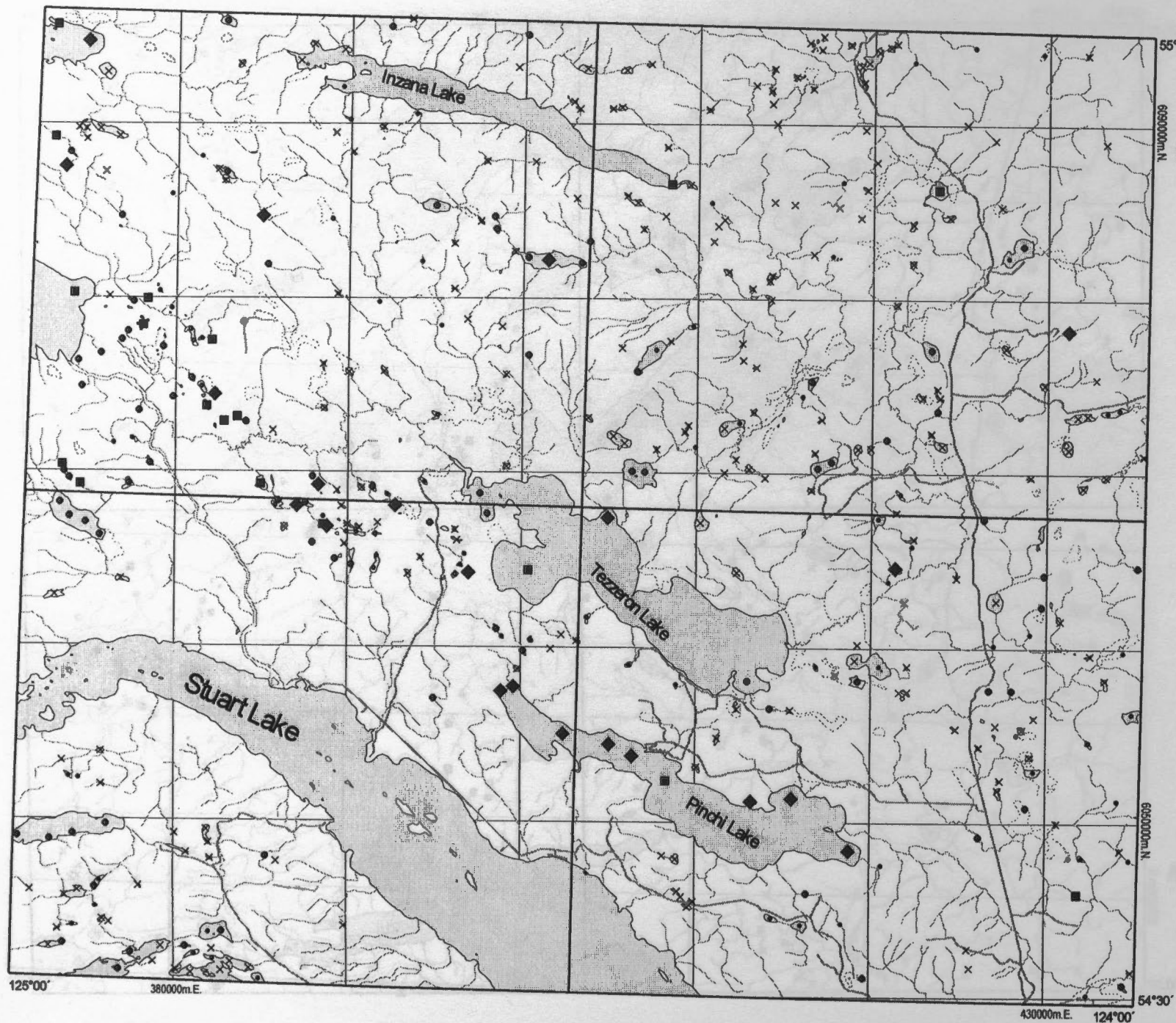
124°00'

54°30'

55°00'

6090000m.N

6050000m.N



55°00'

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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Barium (ppm) INAA

Lake Sediment

Concentration	Frequency
971 to 2400	◆ n = 21 (5.1%)
851 to 970	■ n = 18 (4.4%)
581 to 850	● n = 82 (19.9%)
401 to 580	• n = 80 (19.4%)
50 to 400	× n = 212 (51.3%)

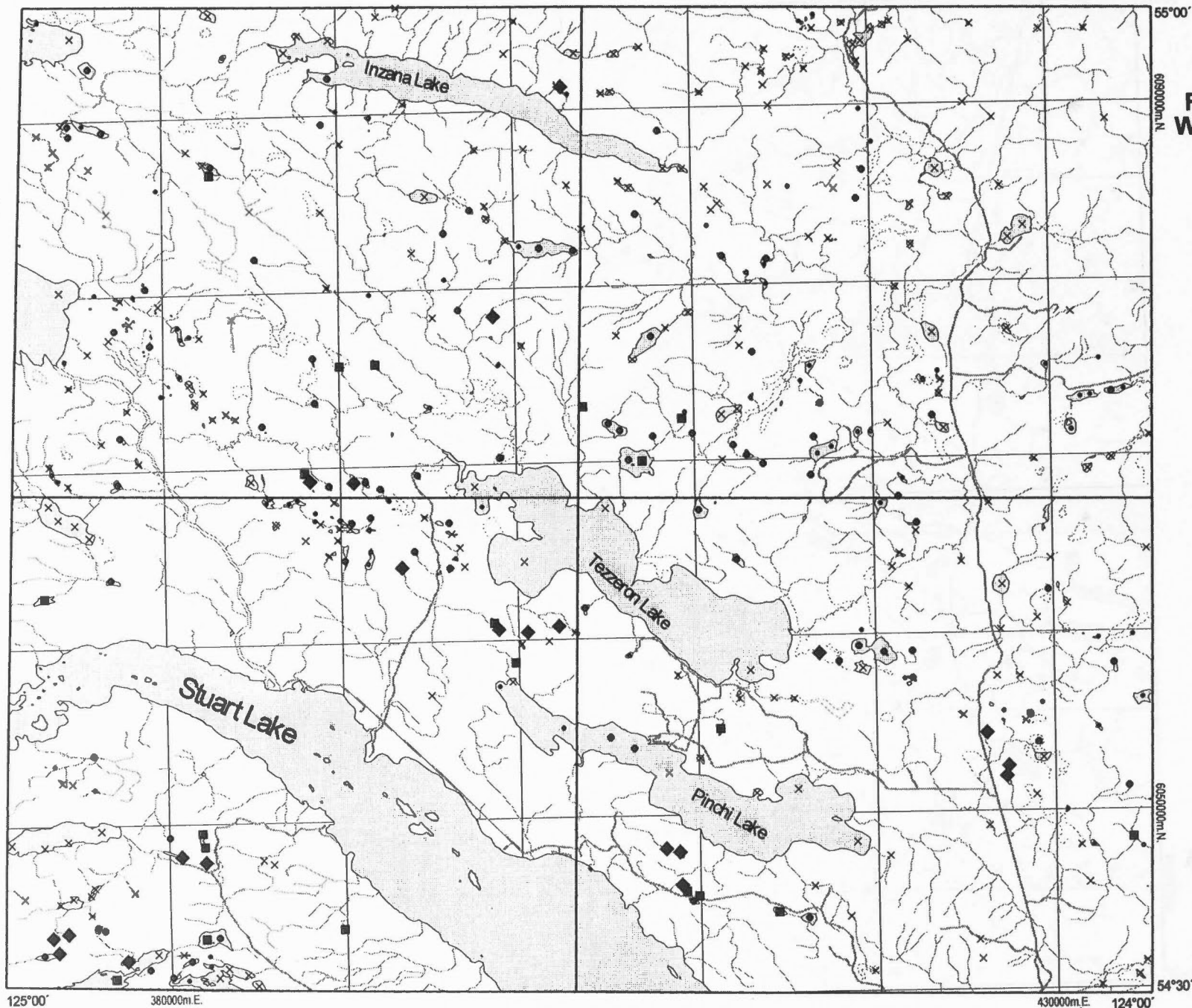
413 Samples

54°30'

430000m.E. 124°00'

380000m.E.

125°00'



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Bromine (ppm) INAA

Lake Sediment

Concentration	Frequency
83.3 to 161.0	◆ n = 21 (5.1%)
71.9 to 83.2	■ n = 20 (4.8%)
51.1 to 71.8	● n = 82 (19.9%)
36.1 to 51.0	• n = 81 (19.6%)
1.6 to 36.0	× n = 209 (50.6%)

413 Samples

125°00'

380000m E.

430000m E.

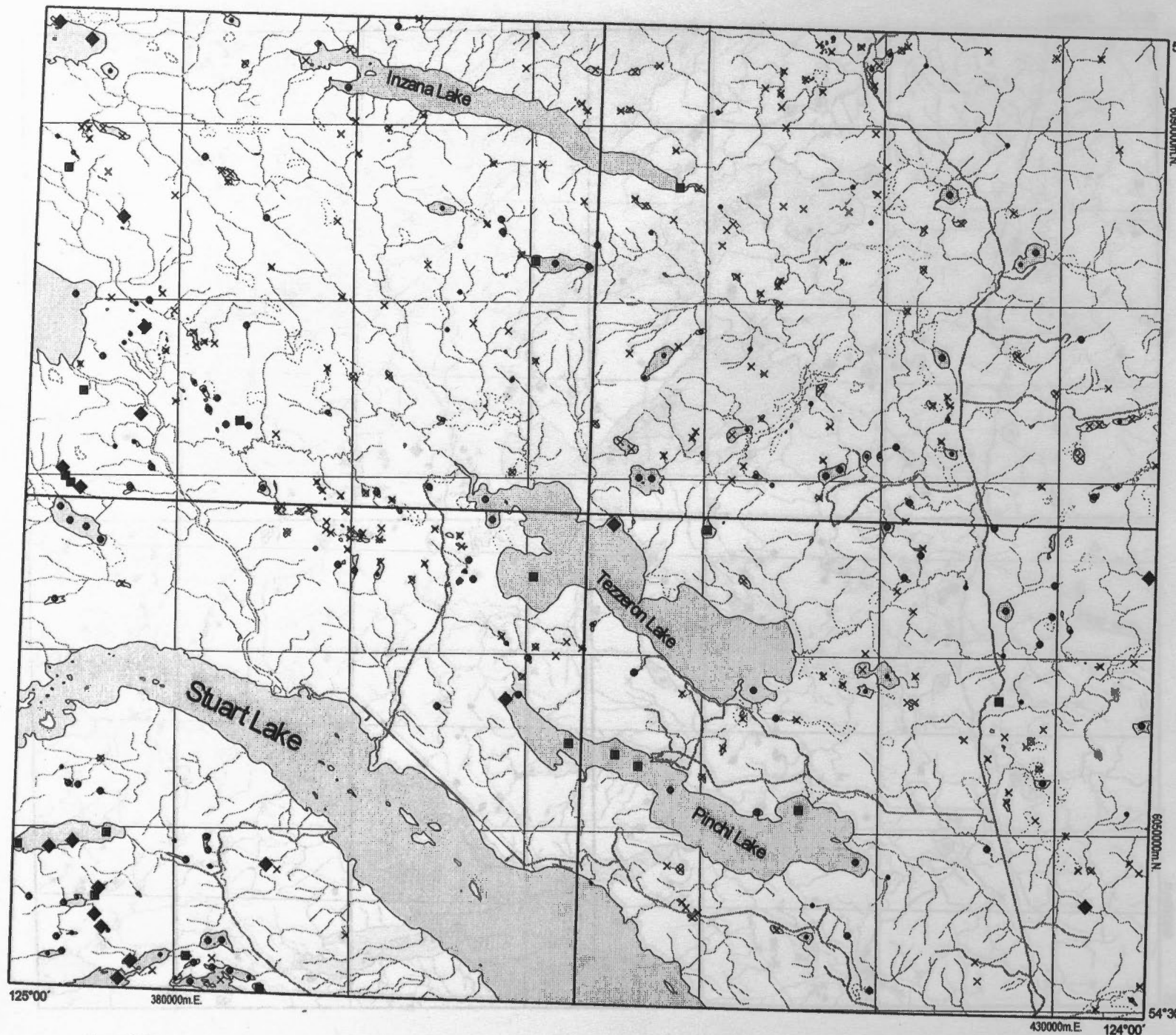
124°00'

54°30'

6150000m N.

6100000m N.

55°00'



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

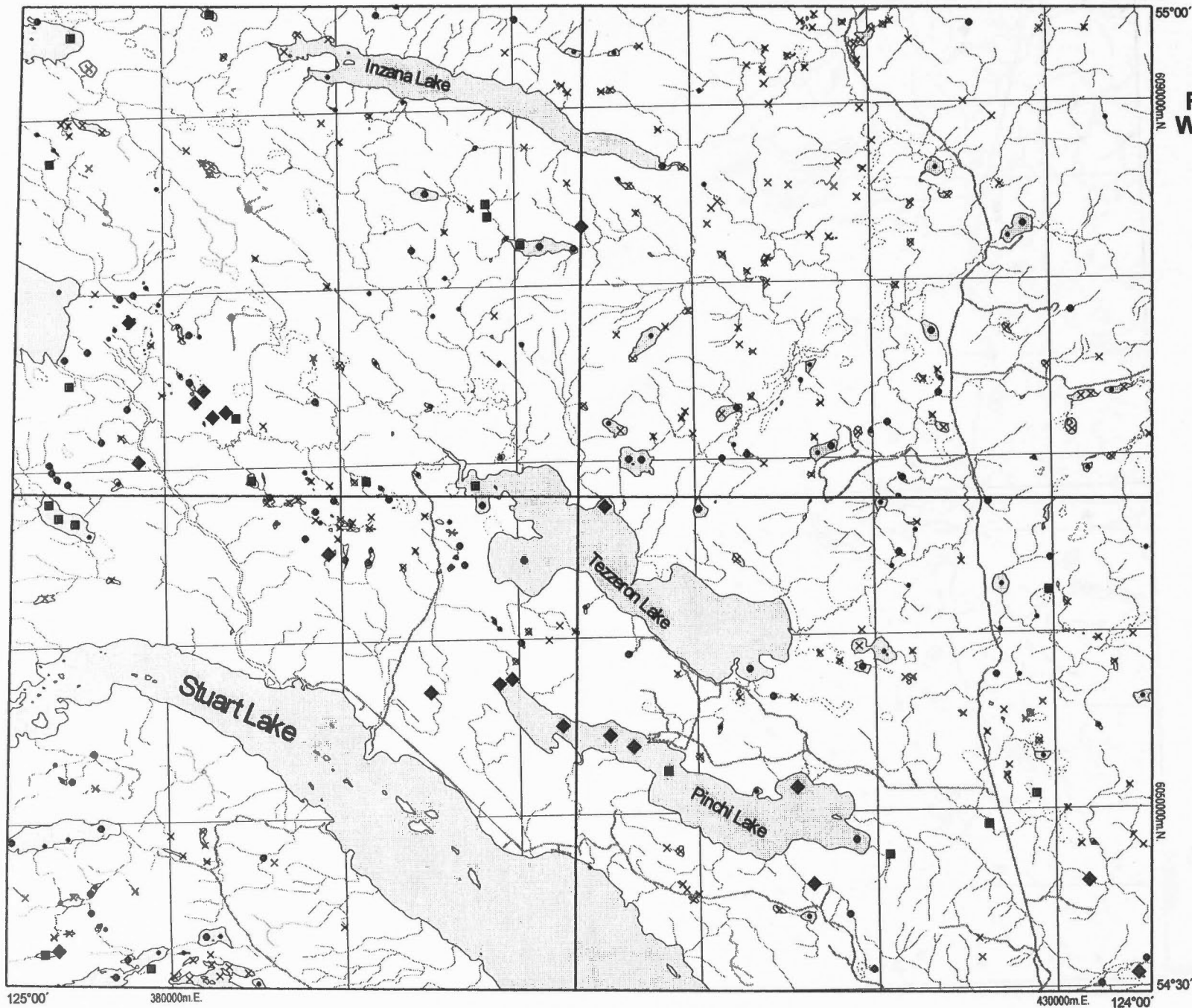
0 5 10 km

UTM Zone 10
NAD 1983

Cerium (ppm) INAA

Lake Sediment	
Concentration	Frequency
47 to 58	◆ n = 19 (4.6%)
43 to 46	■ n = 19 (4.6%)
31 to 42	● n = 84 (20.3%)
22 to 30	• n = 76 (18.4%)
5 to 21	× n = 215 (52.1%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Cesium (ppm) INAA

Lake Sediment	
Concentration	Frequency
3.6 to 6.3	◆ n = 20 (4.8%)
3.0 to 3.5	■ n = 21 (5.1%)
2.0 to 2.9	● n = 72 (17.4%)
1.3 to 1.9	• n = 91 (22.0%)
0.5 to 1.2	× n = 209 (50.6%)

413 Samples

125°00'

380000m.E.

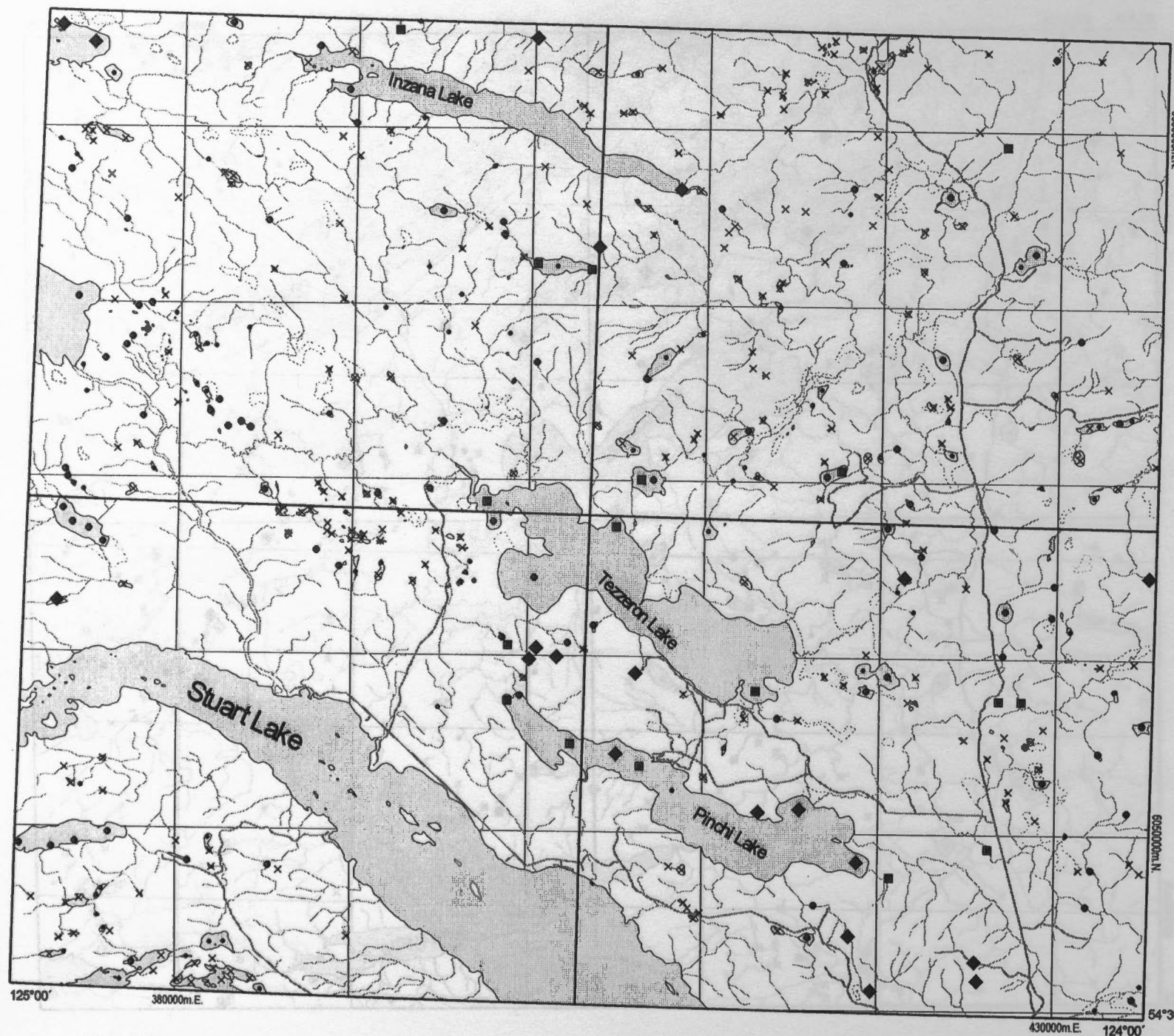
430000m.E.

124°00'

54°30'

6090000m.N.

6050000m.N.



55°00'
6030000m.N
6050000m.N

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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Chromium (ppm) INAA

Lake Sediment	
Concentration	Frequency
151 to 780	◆ n = 20 (4.8%)
121 to 150	■ n = 17 (4.1%)
87 to 120	● n = 84 (20.3%)
58 to 86	• n = 85 (20.6%)
20 to 57	× n = 207 (50.1%)

413 Samples

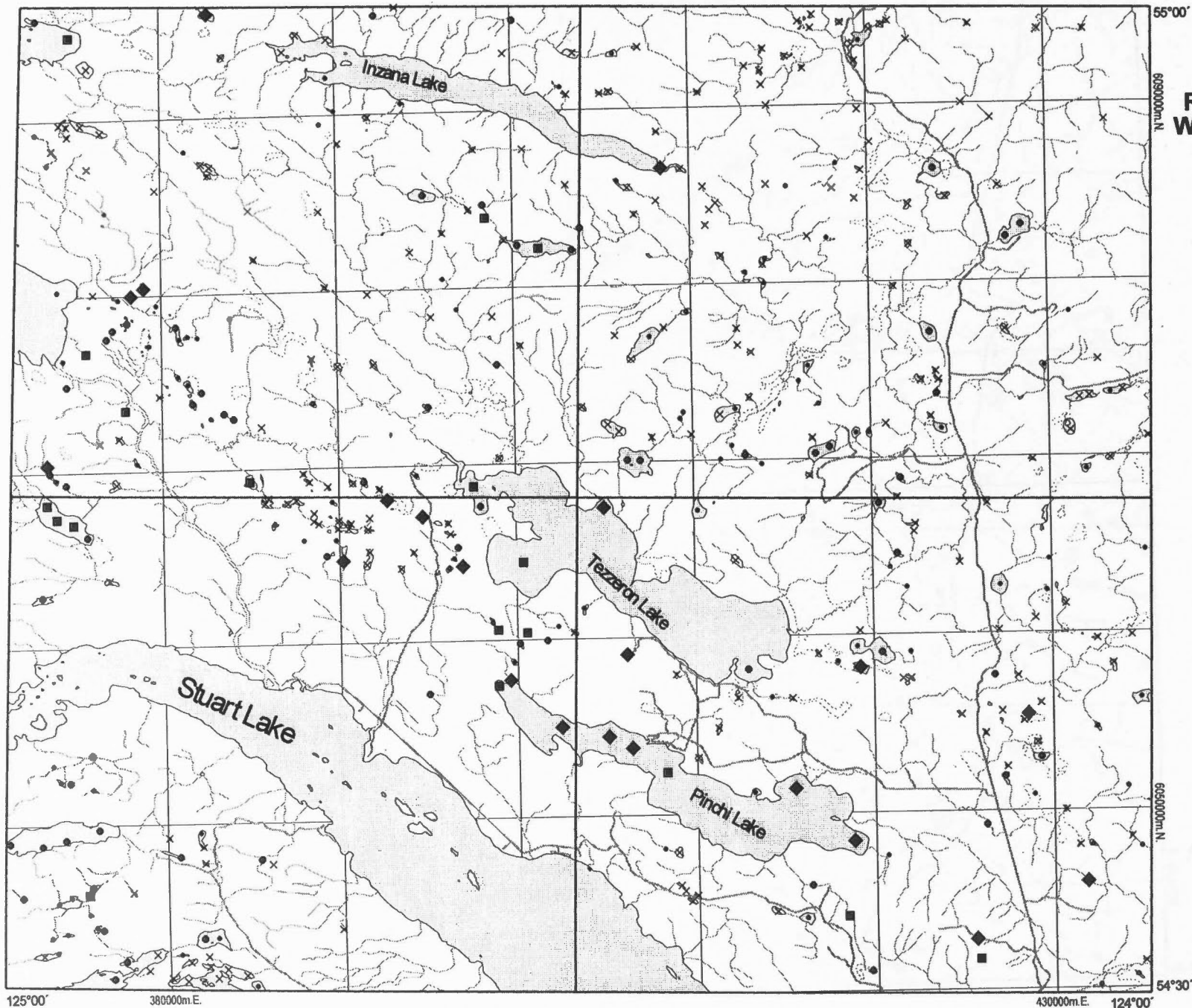
125°00'

380000m.E

430000m.E

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Cobalt (ppm) INAA

Lake Sediment	
Concentration	Frequency
24 to 44	◆ n = 21 (5.1%)
21 to 23	■ n = 18 (4.4%)
16 to 21	● n = 65 (15.7%)
11 to 15	• n = 101 (24.5%)
5 to 10	× n = 208 (50.4%)

413 Samples

125°00'

380000m E.

430000m E.

124°00'

54°30'

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

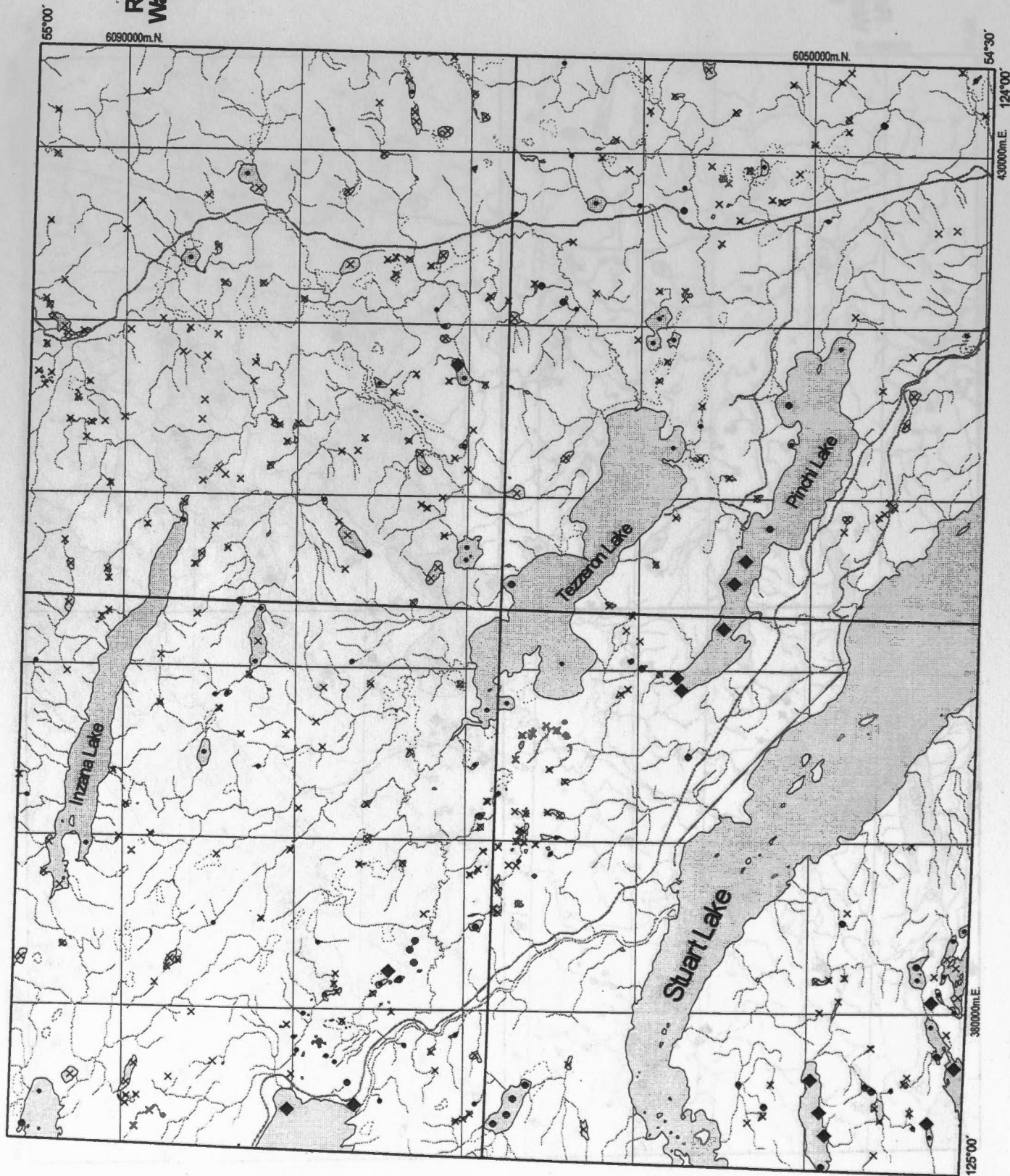


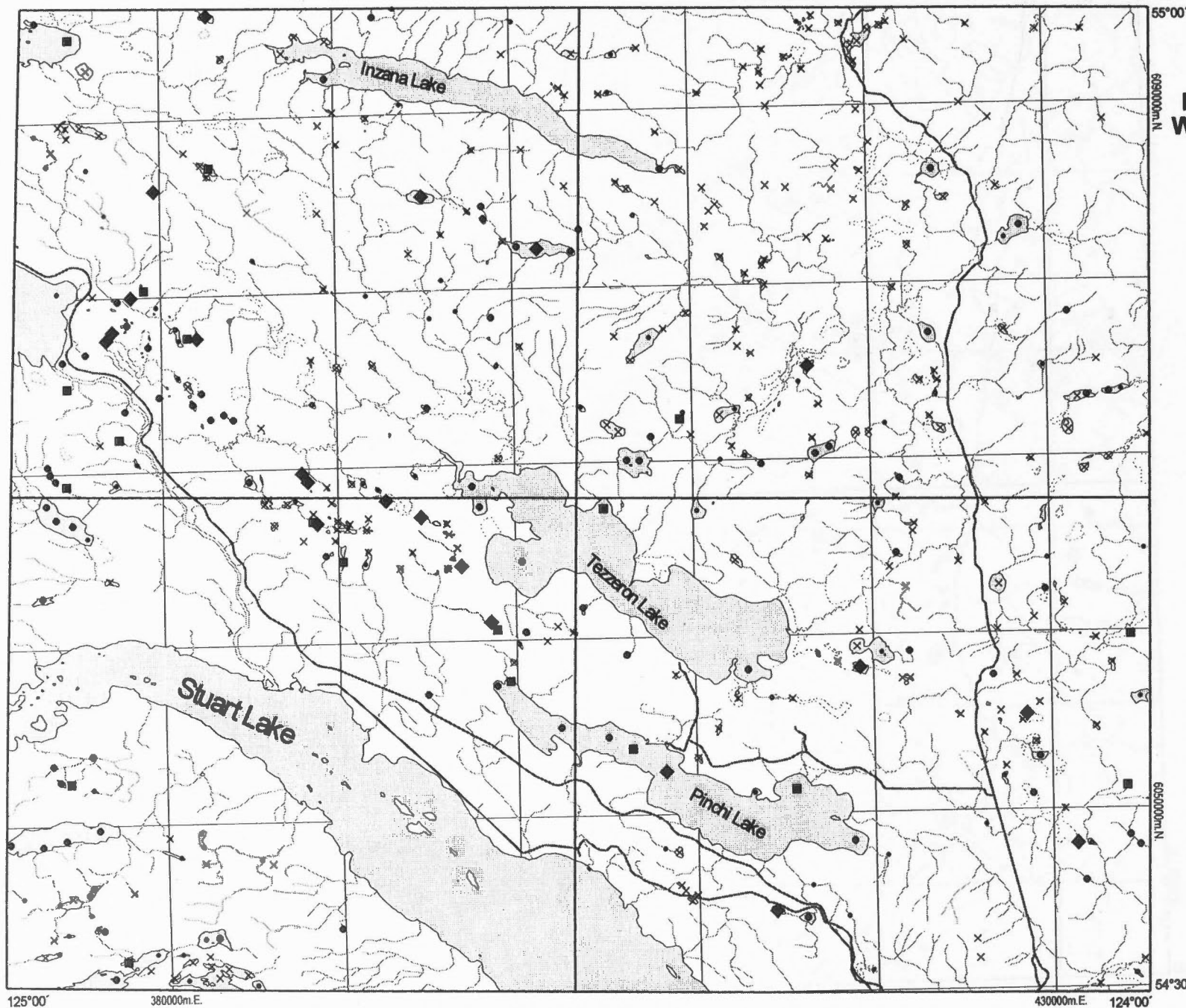
UTM Zone 10
NAD 1983

Hafnium (ppm) INAA

Late Sediment	
Concentration	Frequency
4 to 5	◆ n = 15 (3.6%)
3 to 3	■ n = 0 (0.0%)
2 to 2	● n = 31 (7.5%)
1 to 1	• n = 80 (19.4%)
	× n = 287 (69.5%)

413 Samples





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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Iron (%) INAA

Lake Sediment

Concentration	Frequency
6.7 to 29.9	◆ n = 21 (5.1%)
5.4 to 6.6	■ n = 19 (4.6%)
3.7 to 5.3	● n = 80 (19.4%)
2.7 to 3.6	○ n = 80 (19.4%)
0.2 to 2.6	× n = 213 (51.6%)

413 Samples

125°00'

380000m.E.

430000m.E.

124°00'

54°30'

55°00'

N 4900000.69

N 4900000.69

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

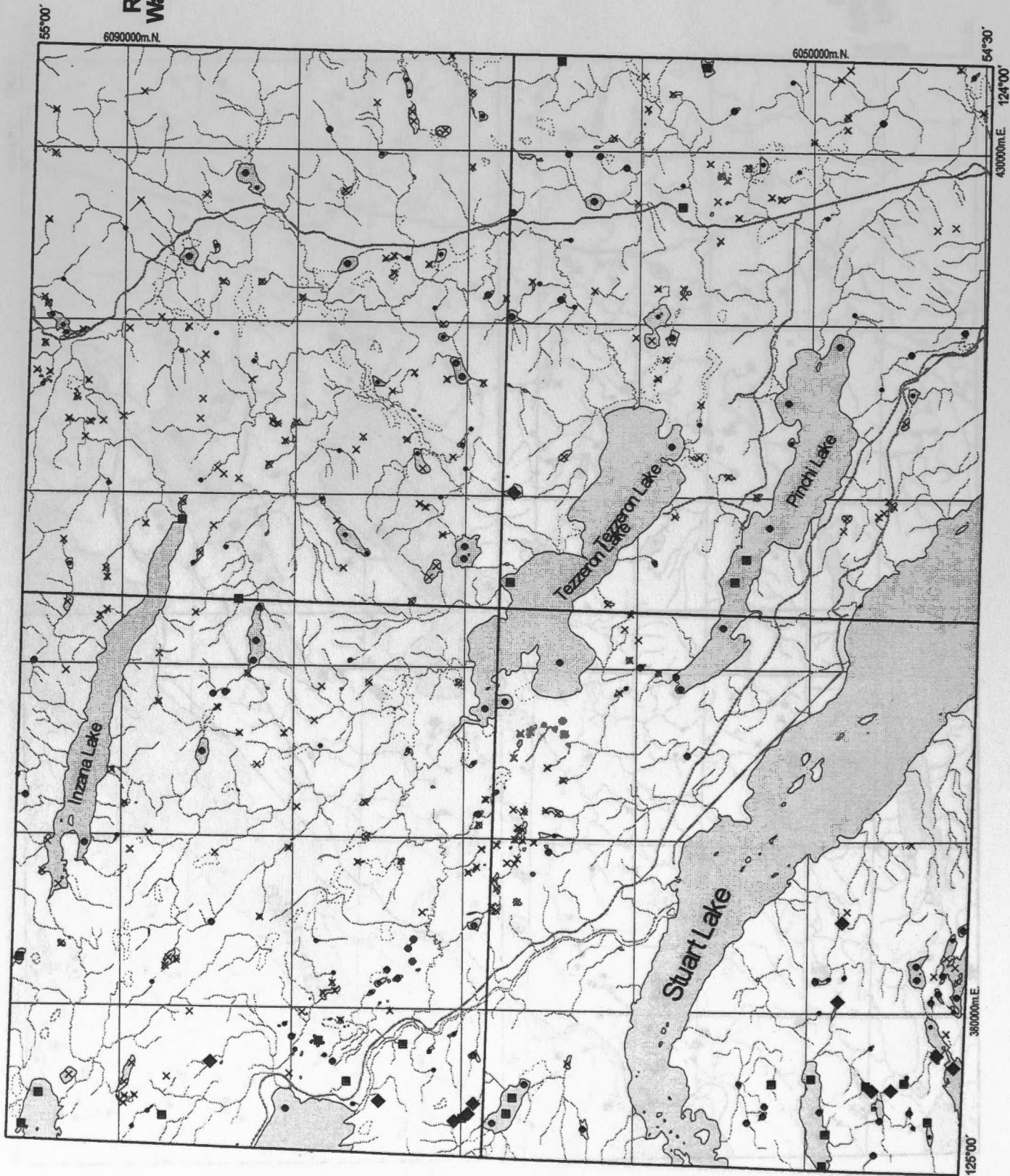


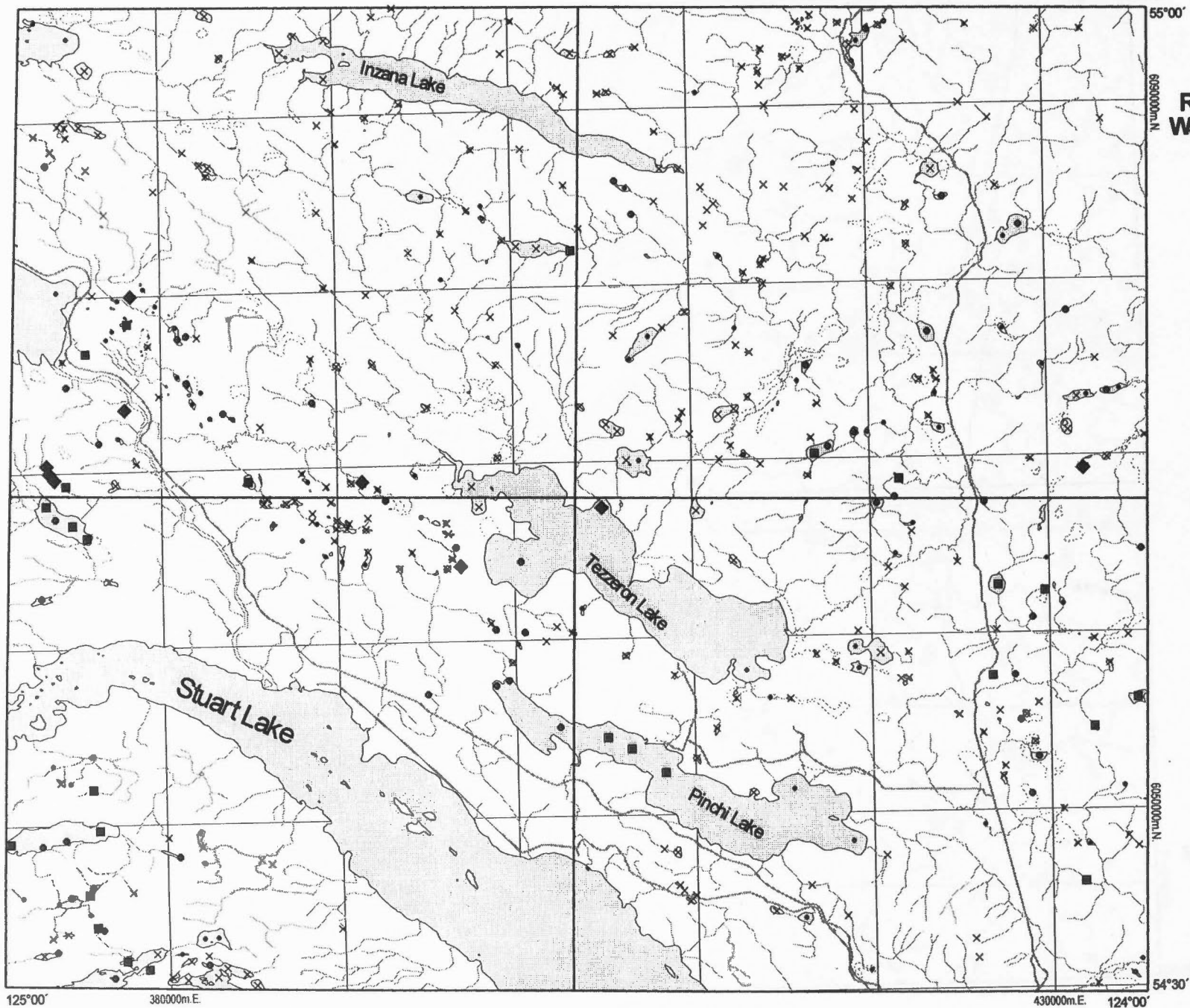
UTM Zone 10
NAD 1983

Lanthanum (ppm) INAA

Concentration	Frequency
24 to 32	n = 12 (2.9%)
21 to 23	n = 25 (6.1%)
16 to 20	n = 74 (17.9%)
12 to 15	n = 88 (21.3%)
2 to 11	n = 214 (51.8%)

413 Samples





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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Lutetium (ppm) INAA

Lake Sediment	
Concentration	Frequency
0.6 to 0.6	◆ n = 9 (2.2%)
0.5 to 0.5	■ n = 26 (6.3%)
0.4 to 0.4	● n = 48 (11.6%)
0.3 to 0.3	• n = 82 (19.9%)
0.2 to 0.2	× n = 248 (60.0%)

413 Samples

125°00'

380000m.E.

430000m.E.

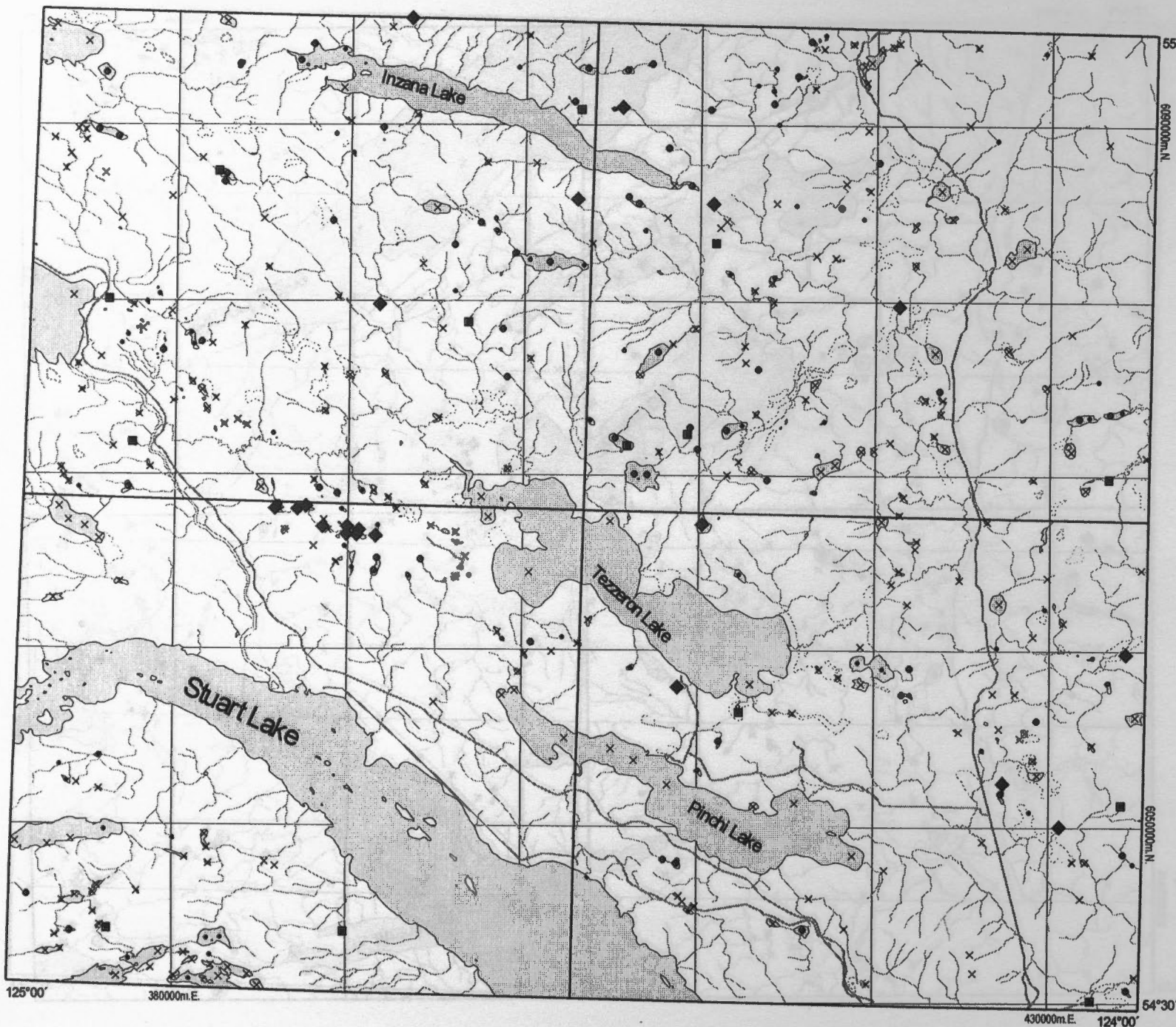
124°00'

54°30'

6050000m.N.

55°00'

6060000m.N.



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

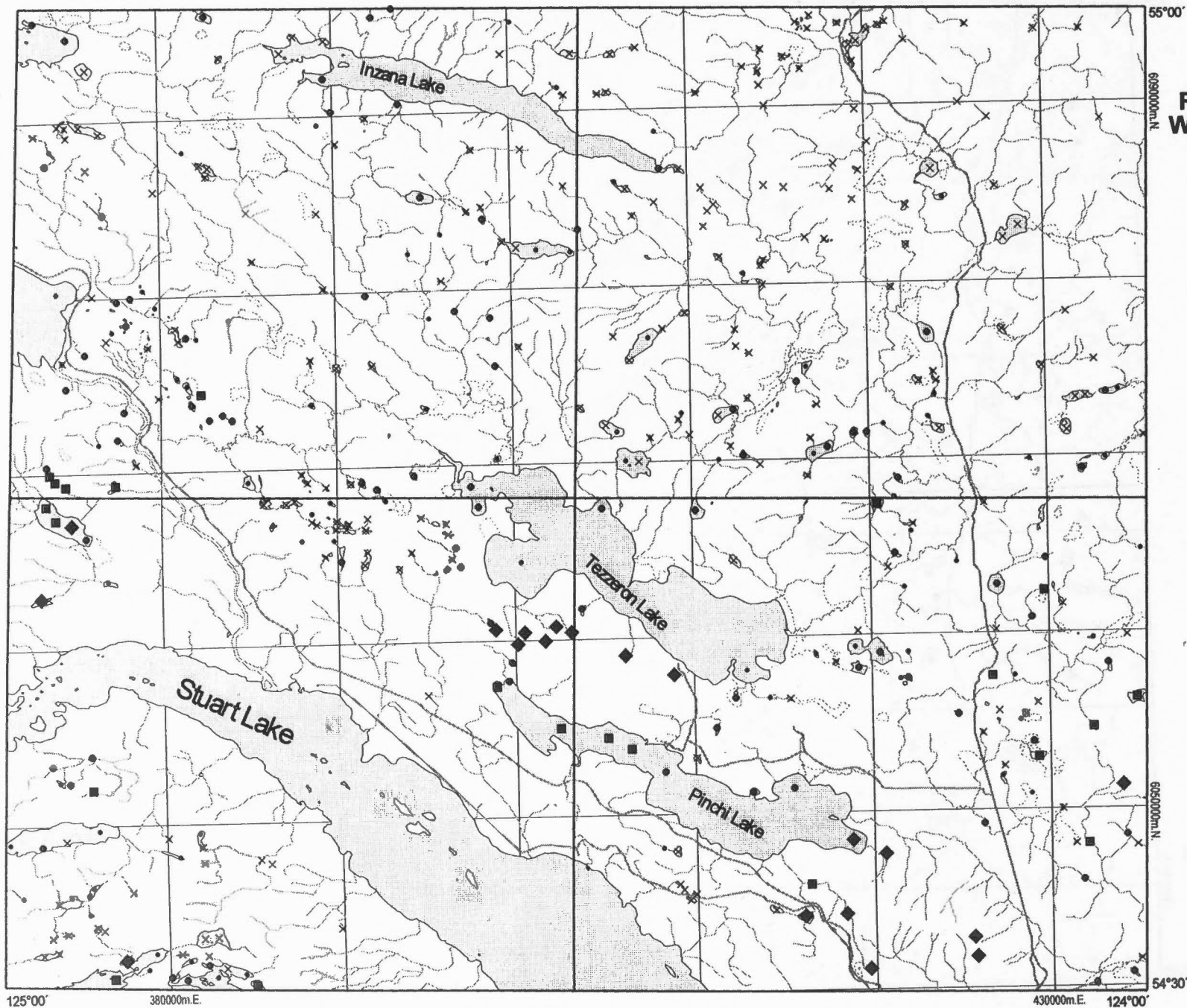
UTM Zone 10
NAD 1983

Molybdenum (ppm) INAA

Lake Sediment

Concentration	Frequency
16 to 62	◆ n = 9 (2.2%)
11 to 15	■ n = 26 (6.3%)
6 to 10	● n = 48 (11.6%)
4 to 5	• n = 82 (19.9%)
1 to 3	× n = 248 (60.0%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

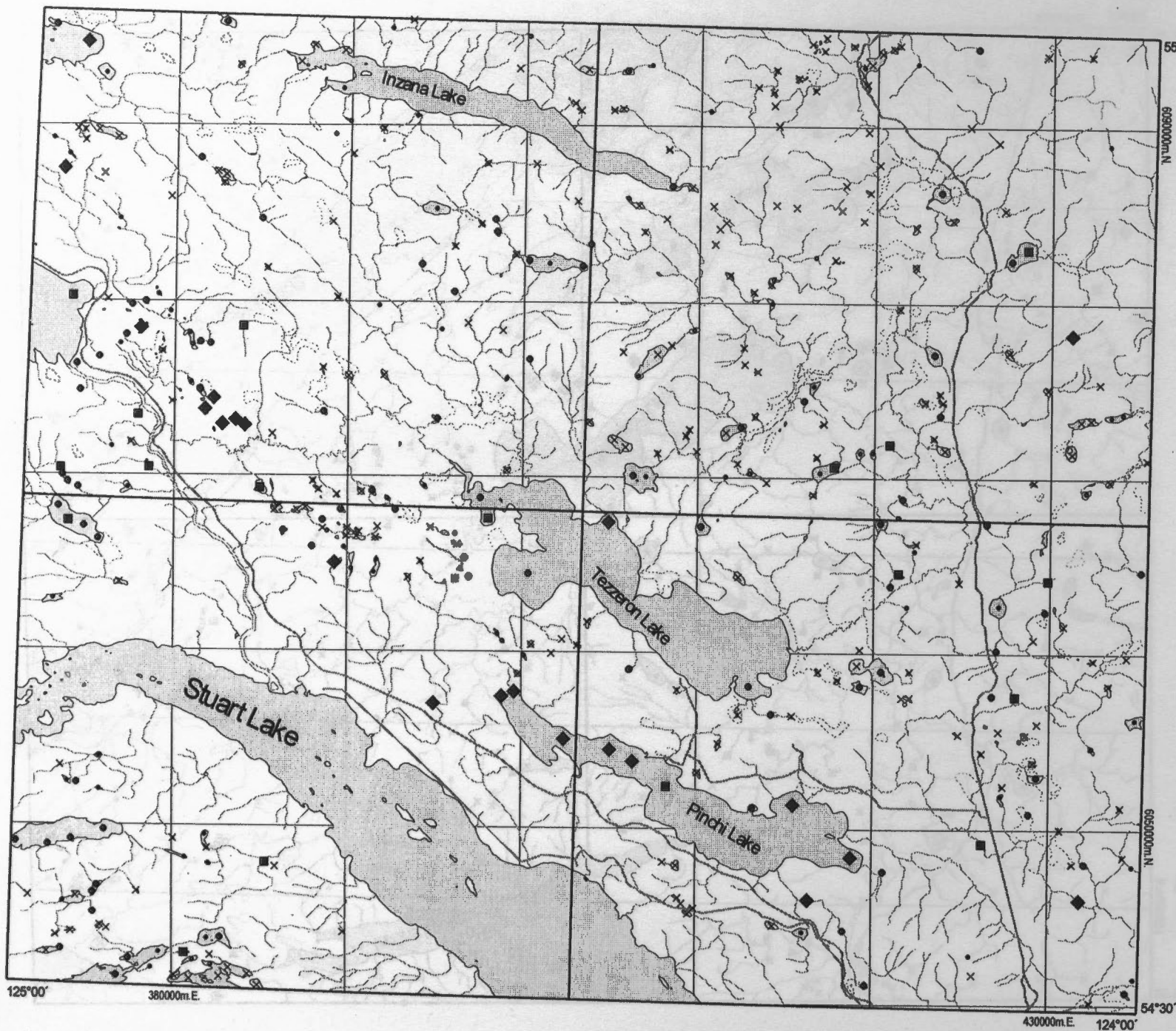
UTM Zone 10
NAD 1983

Nickel (ppm) INAA

Lake Sediment

Concentration	Frequency
101 to 490	◆ n = 19 (4.6%)
77 to 100	■ n = 22 (5.3%)
48 to 76	● n = 83 (20.1%)
35 to 47	• n = 82 (19.9%)
10 to 34	× n = 207 (50.1%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

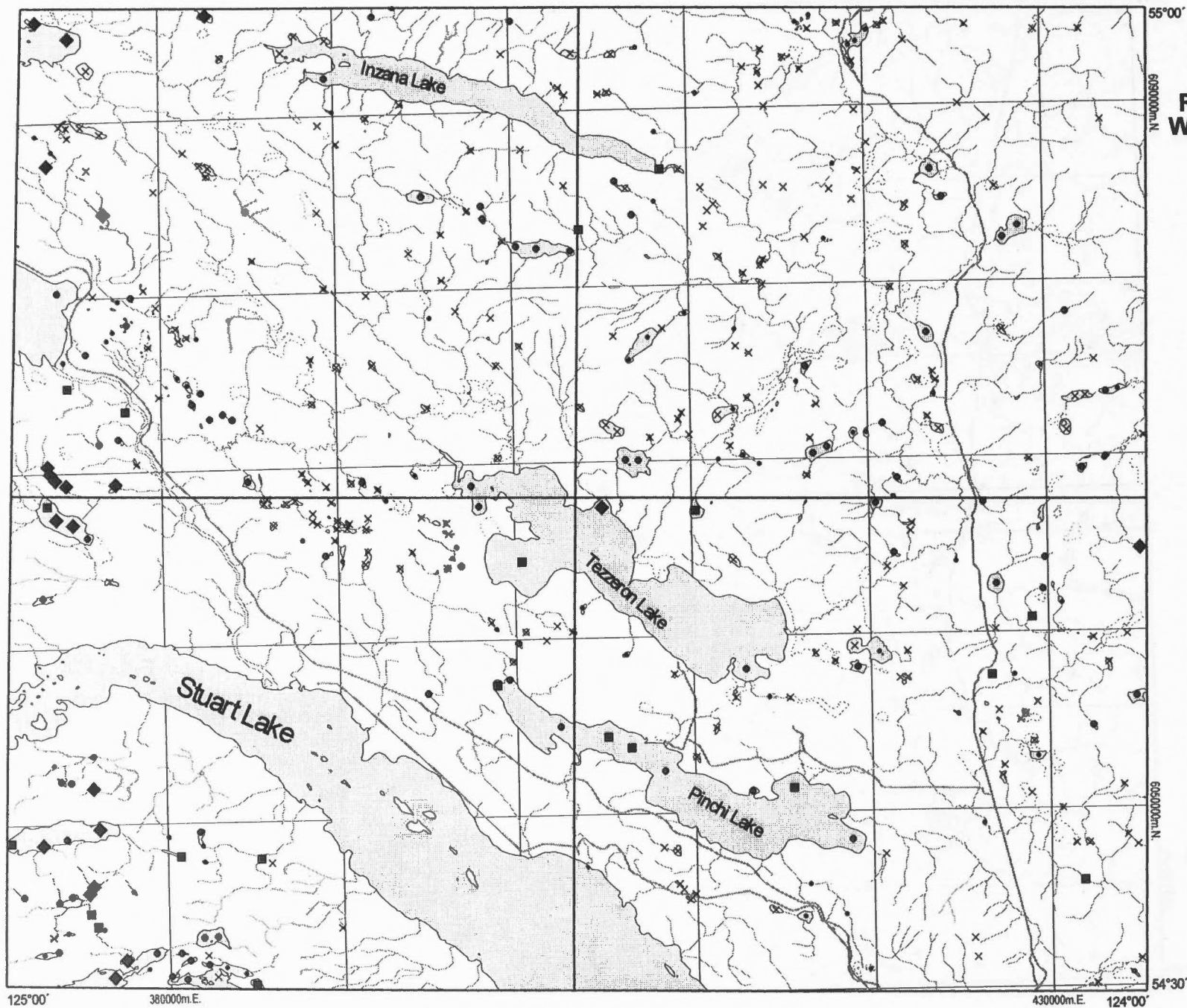
UTM Zone 10
NAD 1983

Rubidium (ppm) INAA

Lake Sediment

Concentration	Frequency
56 to 82	◆ n = 21 (5.1%)
48 to 55	■ n = 18 (4.4%)
32 to 47	● n = 83 (20.1%)
20 to 31	○ n = 82 (19.9%)
5 to 19	× n = 209 (50.6%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

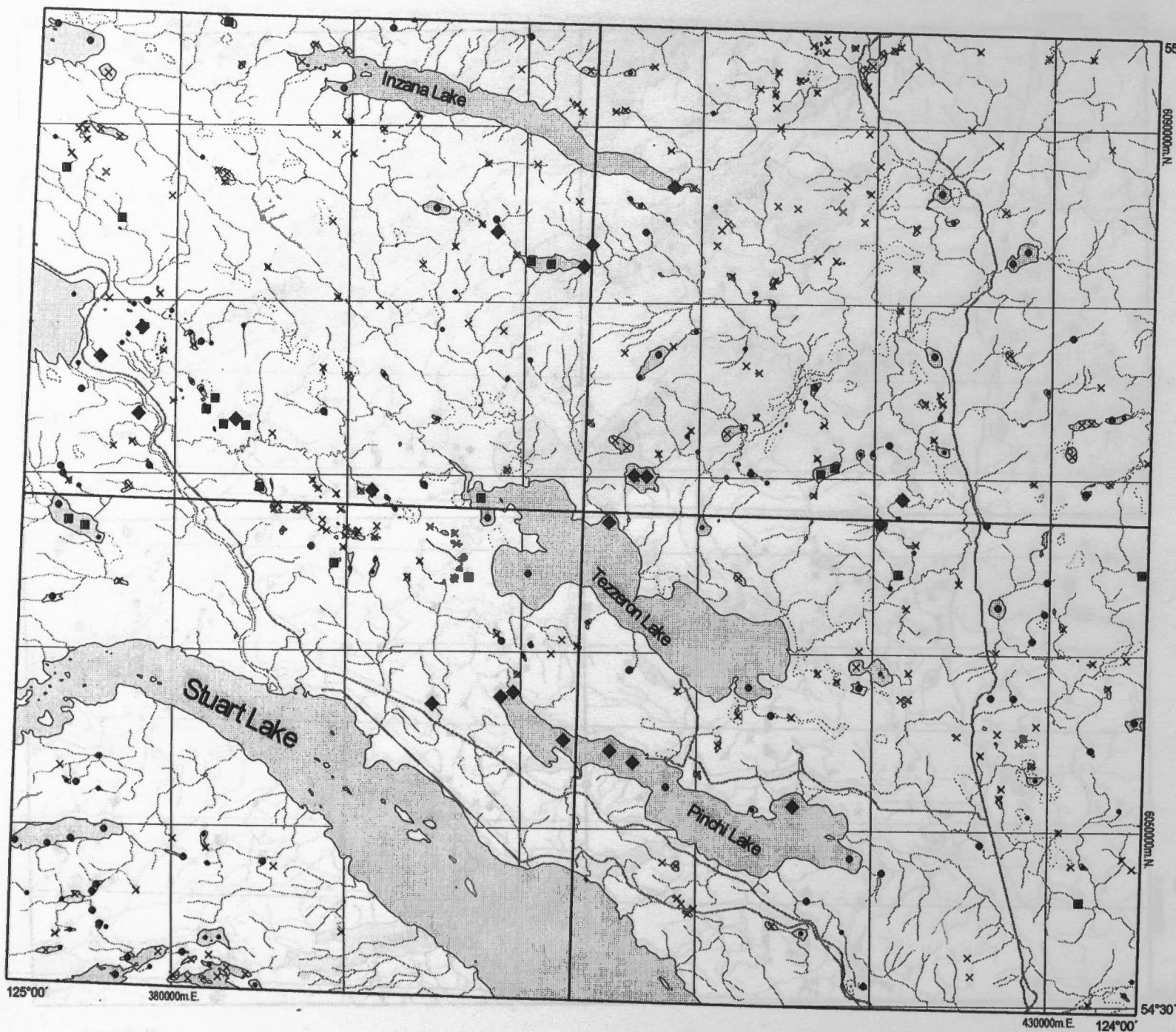
0 5 10 km

UTM Zone 10
NAD 1983

Samarium (ppm) INAA

Lake Sediment	
Concentration	Frequency
4.9 to 8.4	◆ n = 21 (5.1%)
4.5 to 4.8	■ n = 20 (4.8%)
3.3 to 4.4	● n = 80 (19.4%)
2.6 to 3.2	• n = 73 (17.7%)
0.1 to 2.5	× n = 219 (53.0%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Scandium (ppm) INAA

Lake Sediment	
Concentration	Frequency
22.8 to 27.6	◆ n = 21 (5.1%)
21.3 to 22.7	■ n = 20 (4.8%)
16.1 to 21.2	● n = 68 (16.5%)
12.1 to 16.0	• n = 88 (21.3%)
0.3 to 12.0	× n = 216 (52.3%)

413 Samples

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

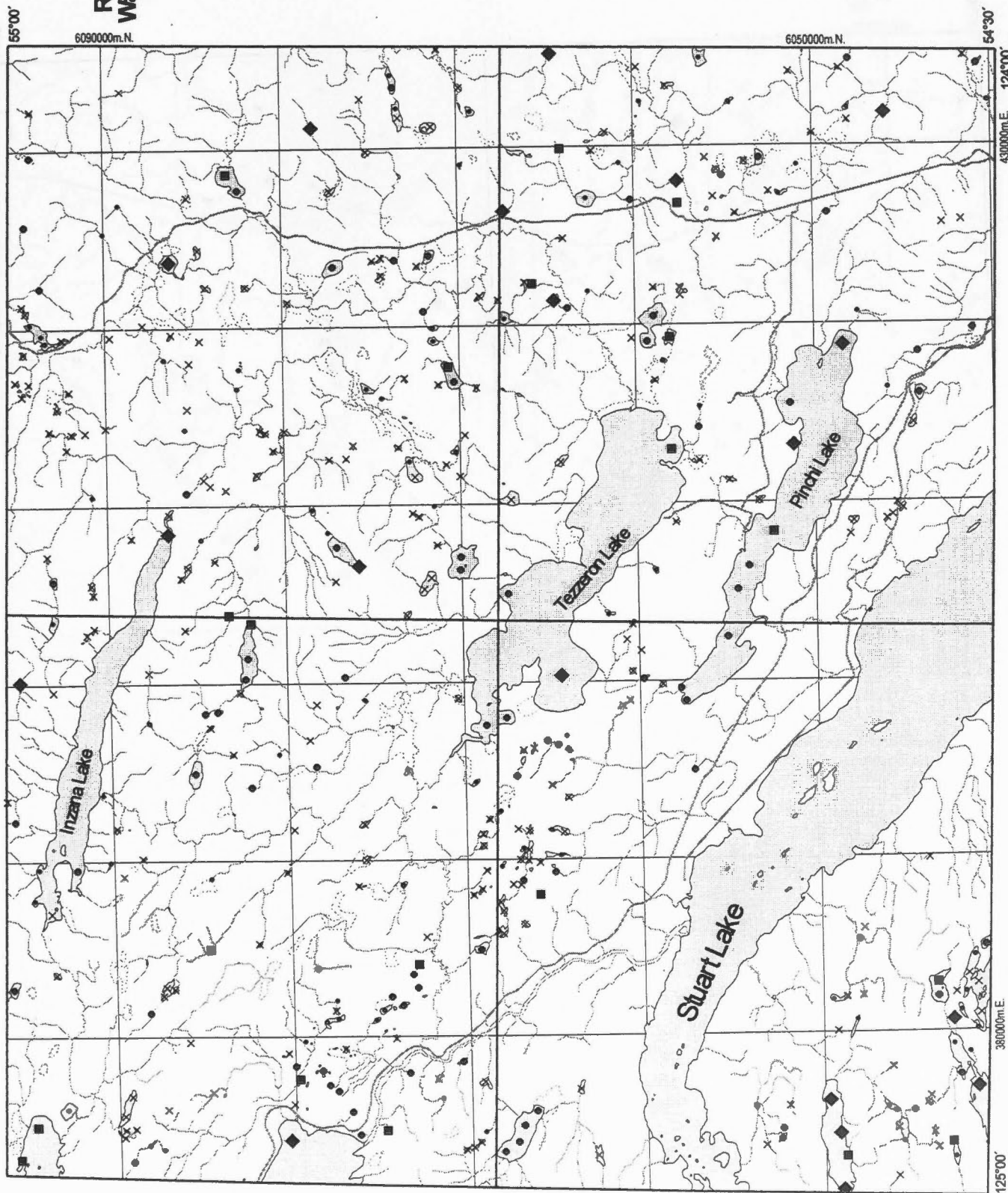


UTM Zone 10
NAD 1983

Sodium (%) INAA

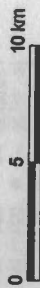
Concentration	Frequency
1.81 to 2.84	◆ n = 19 (4.6%)
1.51 to 1.80	■ n = 20 (4.8%)
0.91 to 1.50	● n = 82 (19.9%)
0.51 to 0.90	• n = 85 (20.6%)
0.02 to 0.50	× n = 207 (50.1%)

413 Samples

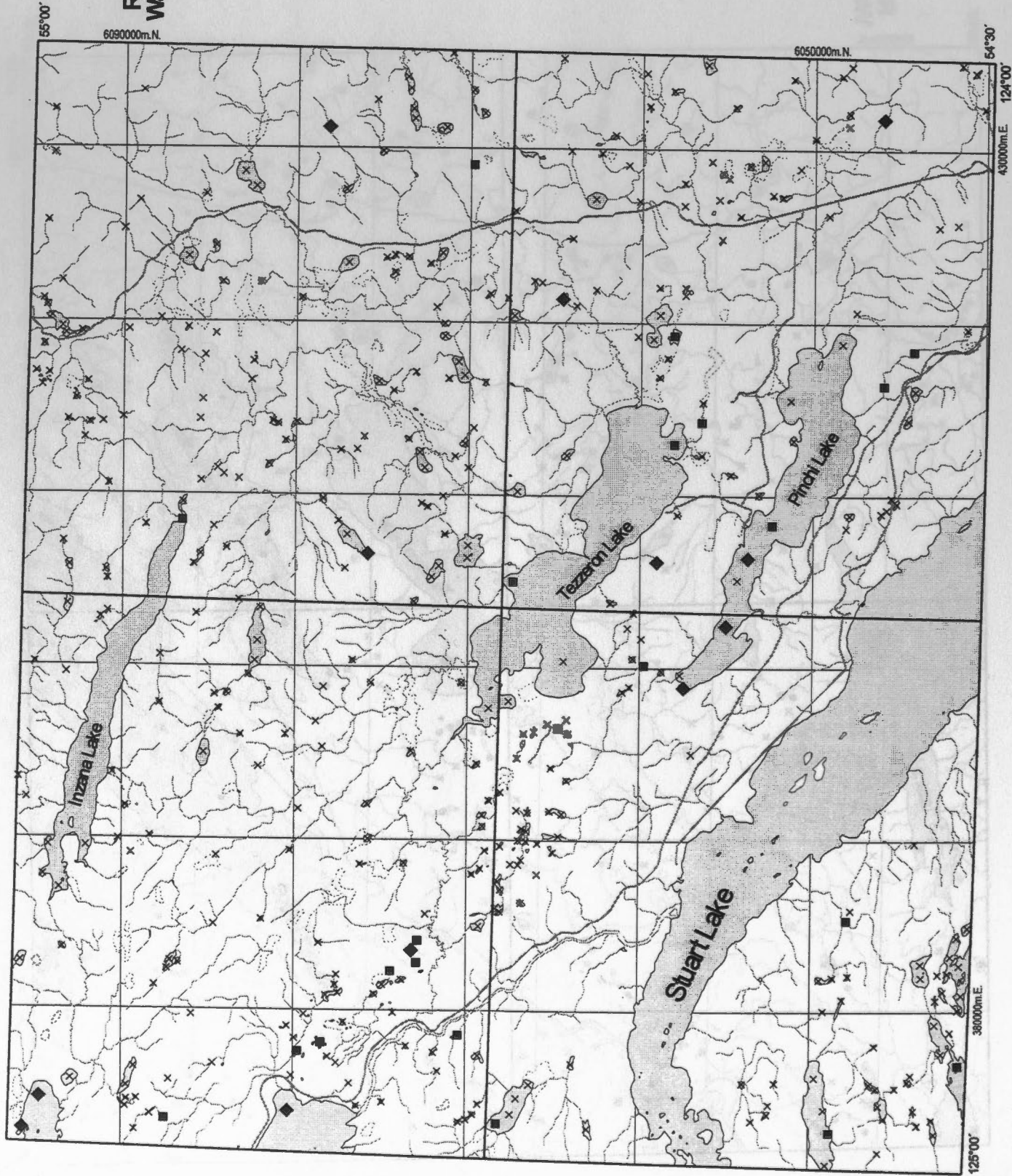


Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)



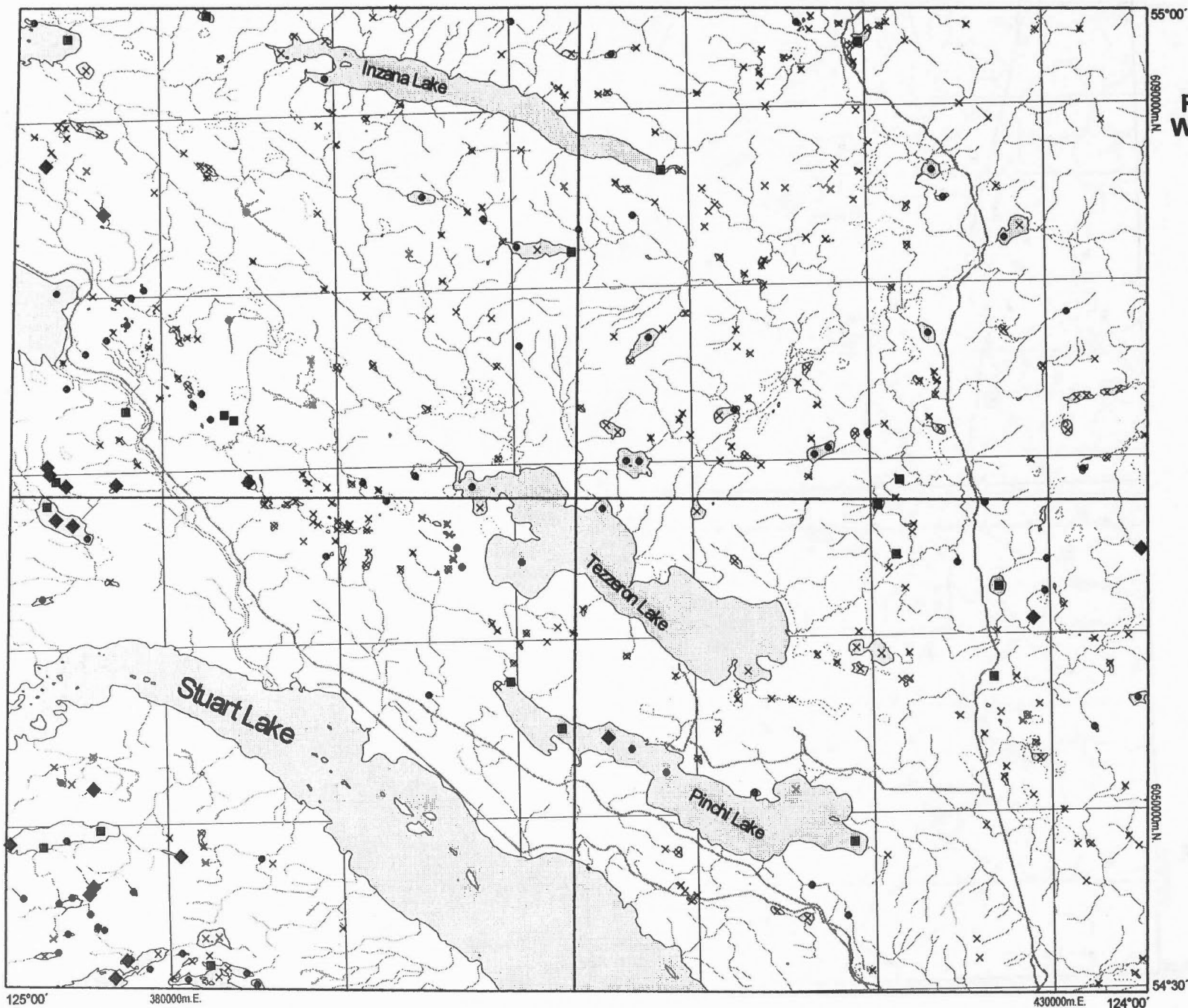
UTM Zone 10
NAD 1983



Tantalum (ppm) INAA

Concentration	Frequency
0.7 to 0.8	◆ n = 12 (2.9%)
0.6 to 0.6	■ n = 22 (5.3%)
0.5 to 0.5	● n = 0 (0.0%)
0.5 to 0.5	× n = 379 (91.8%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

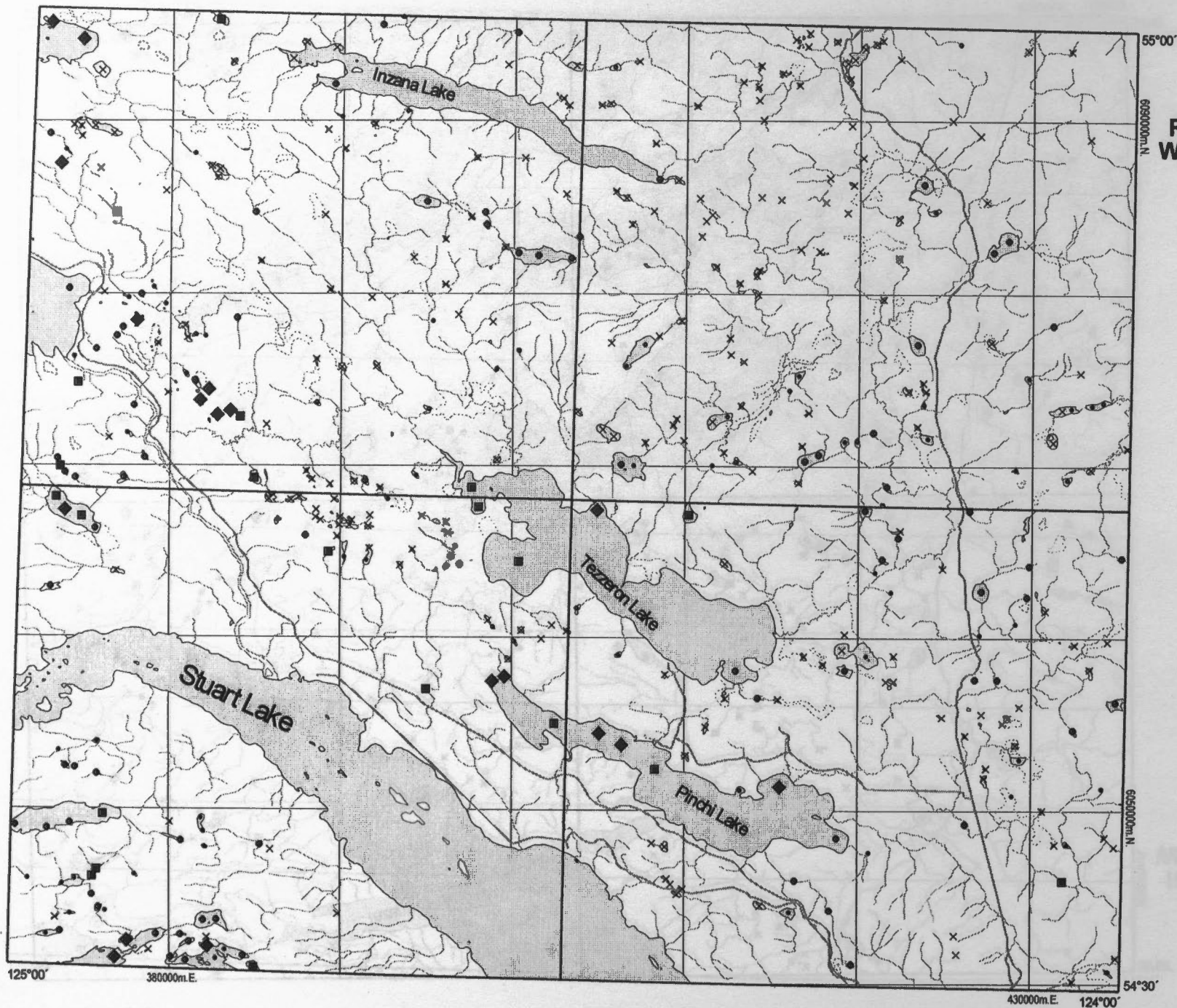
0 5 10 km

UTM Zone 10
NAD 1983

Terbium (ppm) INAA

Lake Sediment	
Concentration	Frequency
0.9 to 1.5	◆ n = 19 (4.6%)
0.8 to 0.8	■ n = 21 (5.1%)
0.6 to 0.7	● n = 76 (18.4%)
0.5 to 0.5	• n = 0 (0.0%)
0.5 to 0.5	× n = 297 (71.9%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

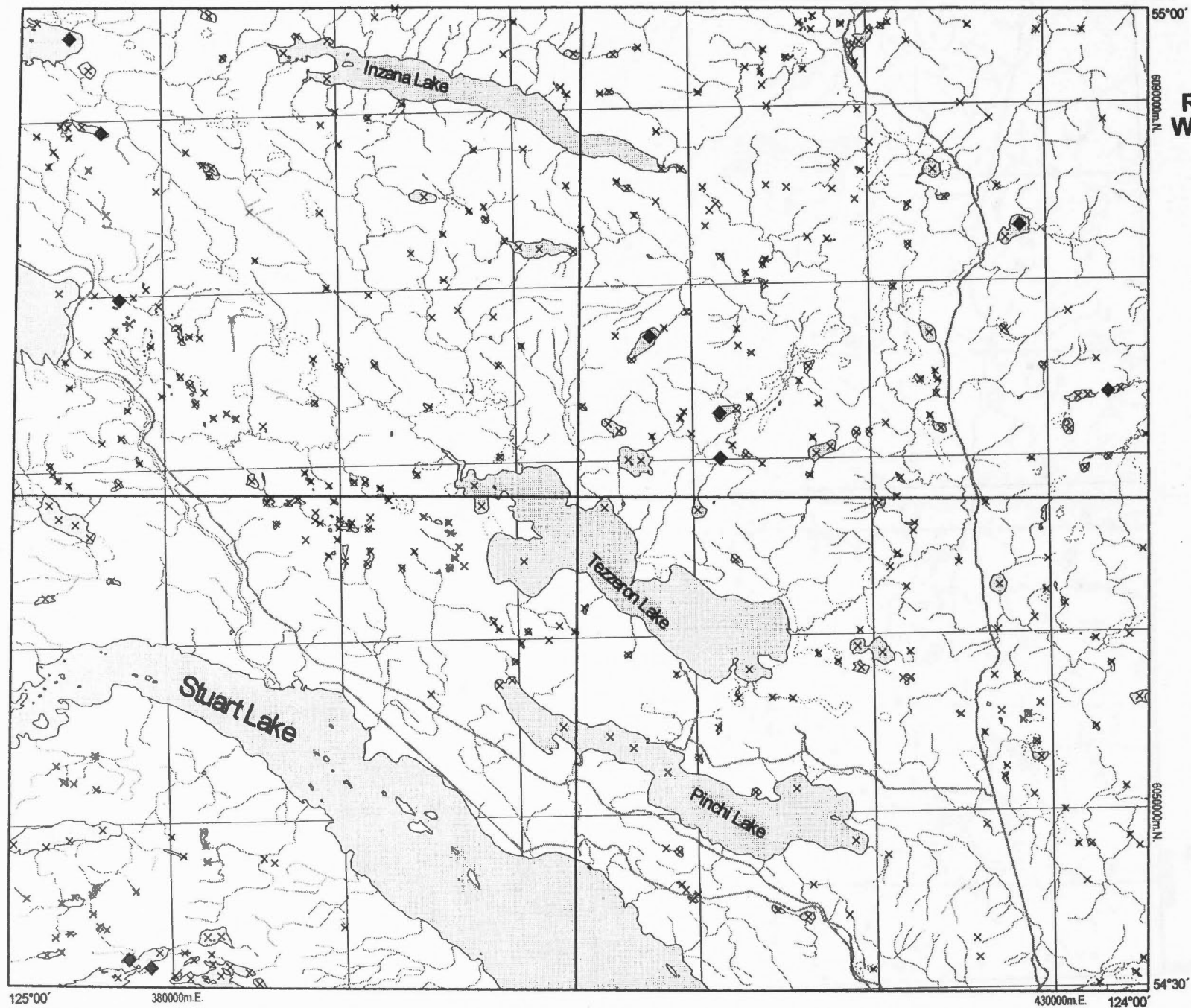
UTM Zone 10
NAD 1983

Thorium (ppm) INAA

Lake Sediment

Concentration	Frequency
4.9 to 5.8	◆ n = 18 (4.4%)
4.2 to 4.8	■ n = 21 (5.1%)
3.1 to 4.1	● n = 81 (19.6%)
2.2 to 3.0	• n = 79 (19.1%)
0.2 to 2.1	× n = 214 (51.8%)

413 Samples



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

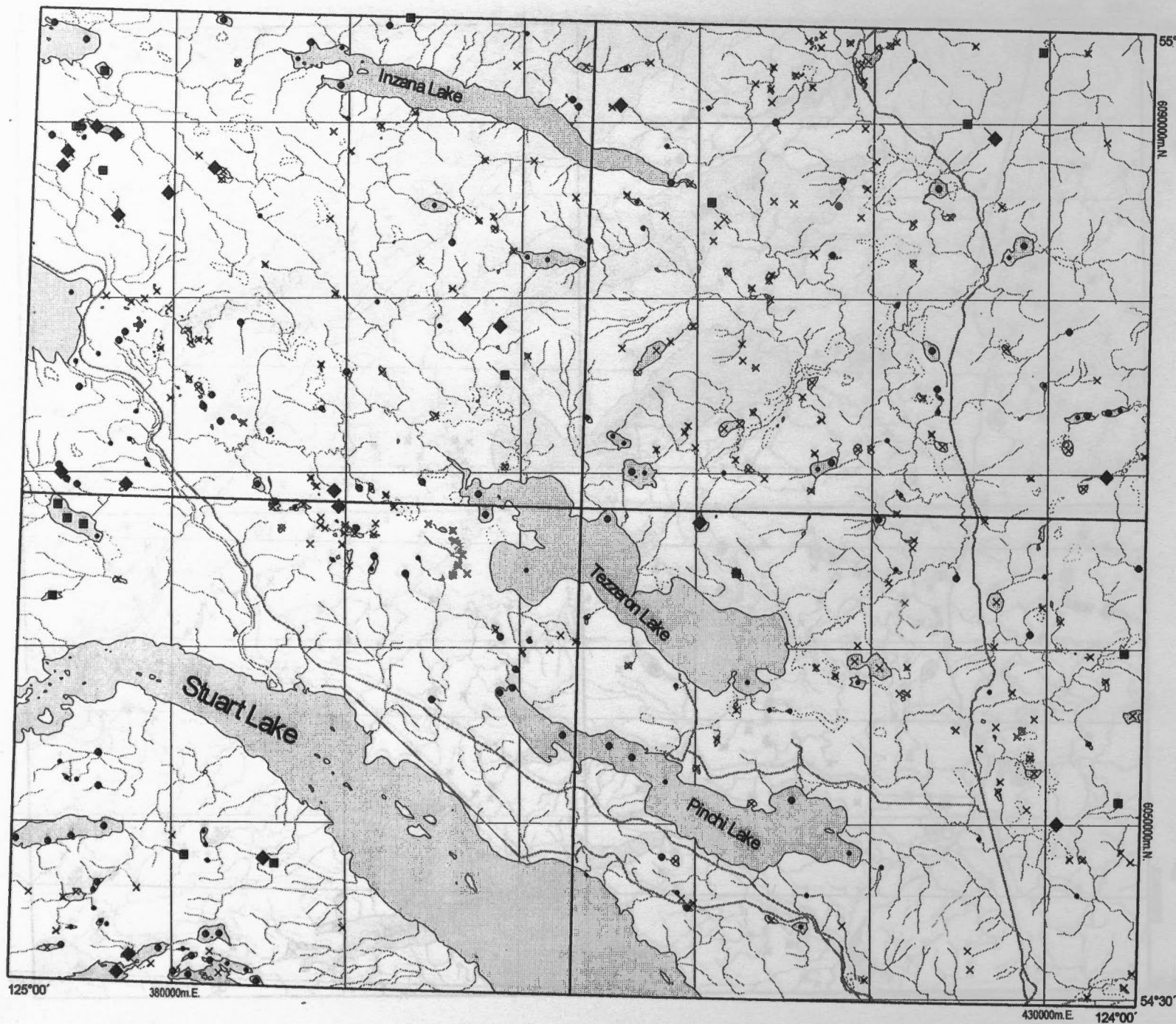
UTM Zone 10
NAD 1983

Tungsten (ppm) INAA

Lake Sediment

Concentration	Frequency
4 to 4	◆ n = 10 (2.4%)
3 to 3	■ n = 0 (0.0%)
2 to 2	● n = 0 (0.0%)
1 to 1	× n = 403 (97.6%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

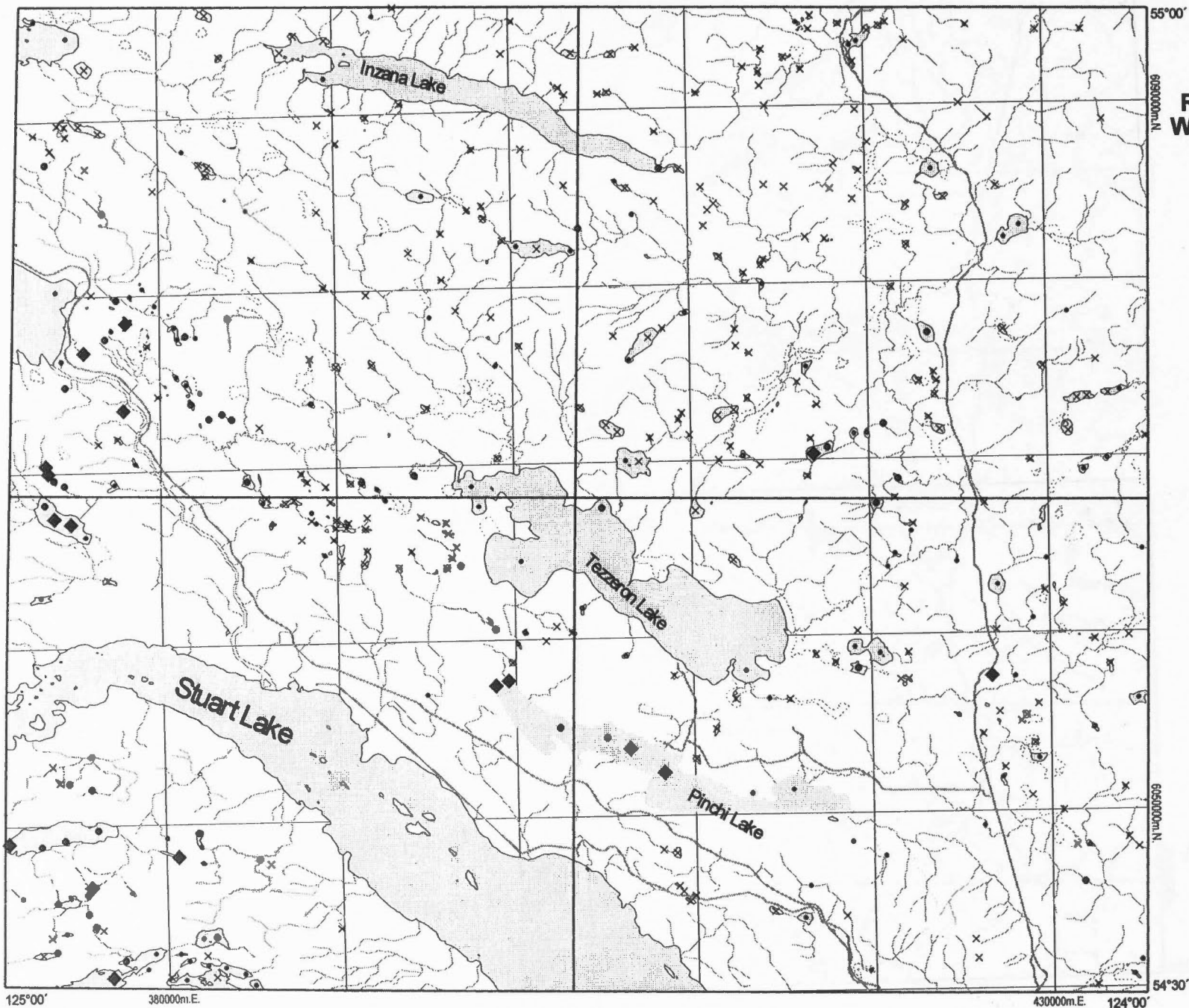
0 5 10 km

UTM Zone 10
NAD 1983

Uranium (ppm) INAA

Lake Sediment	
Concentration	Frequency
3.9 to 11.0	◆ n = 21 (5.1%)
3.2 to 3.8	■ n = 17 (4.1%)
2.3 to 3.1	● n = 80 (19.4%)
1.8 to 2.2	• n = 82 (19.9%)
0.2 to 1.7	× n = 213 (51.6%)

413 Samples



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Ytterbium (ppm) INAA

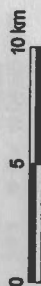
Lake Sediment

Concentration	Frequency
4 to 4	◆ n = 17 (4.1%)
3 to 3	■ n = 0 (0.0%)
2 to 2	● n = 45 (10.9%)
1 to 1	× n = 111 (26.9%)
	× n = 240 (58.1%)

413 Samples

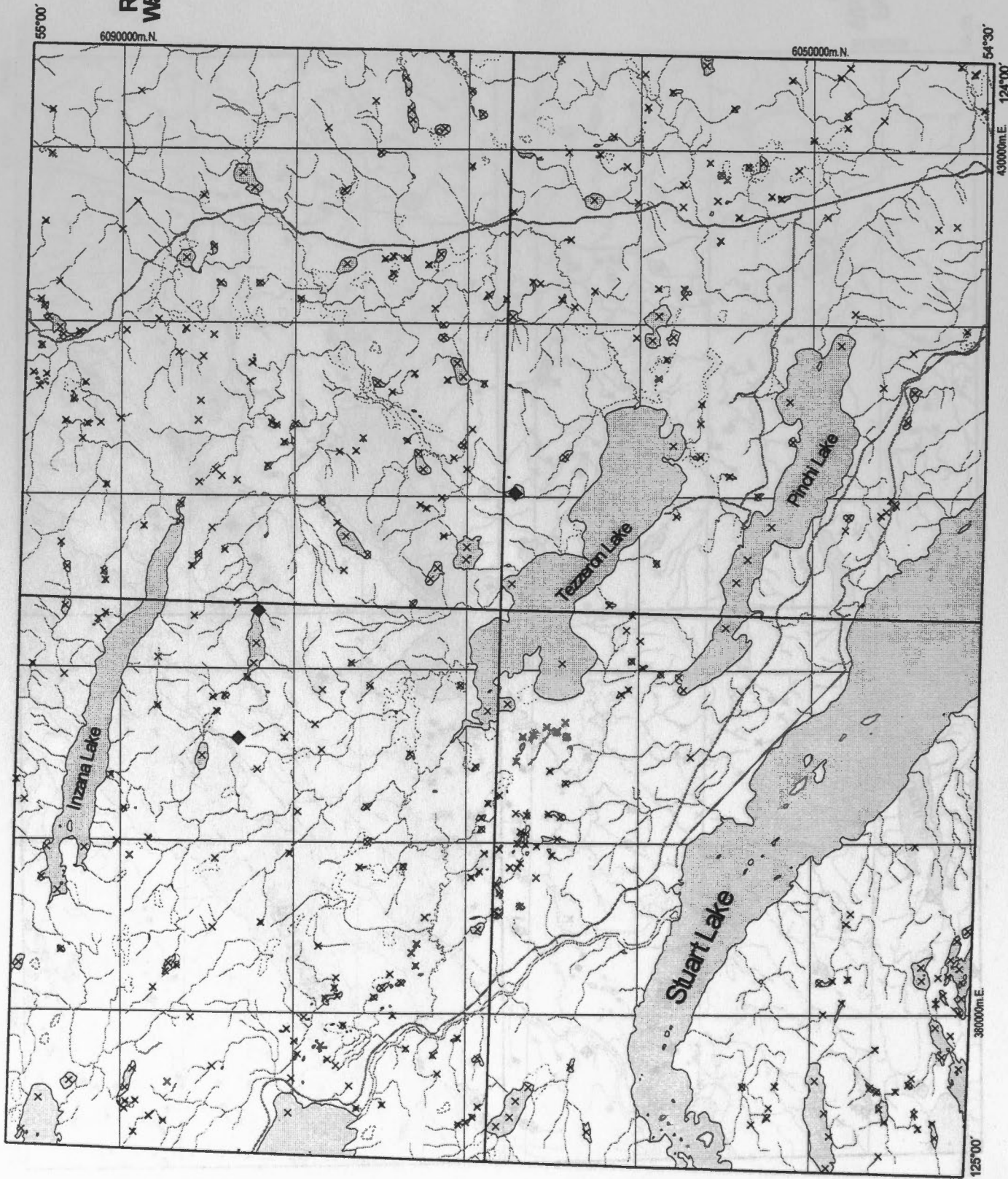
Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

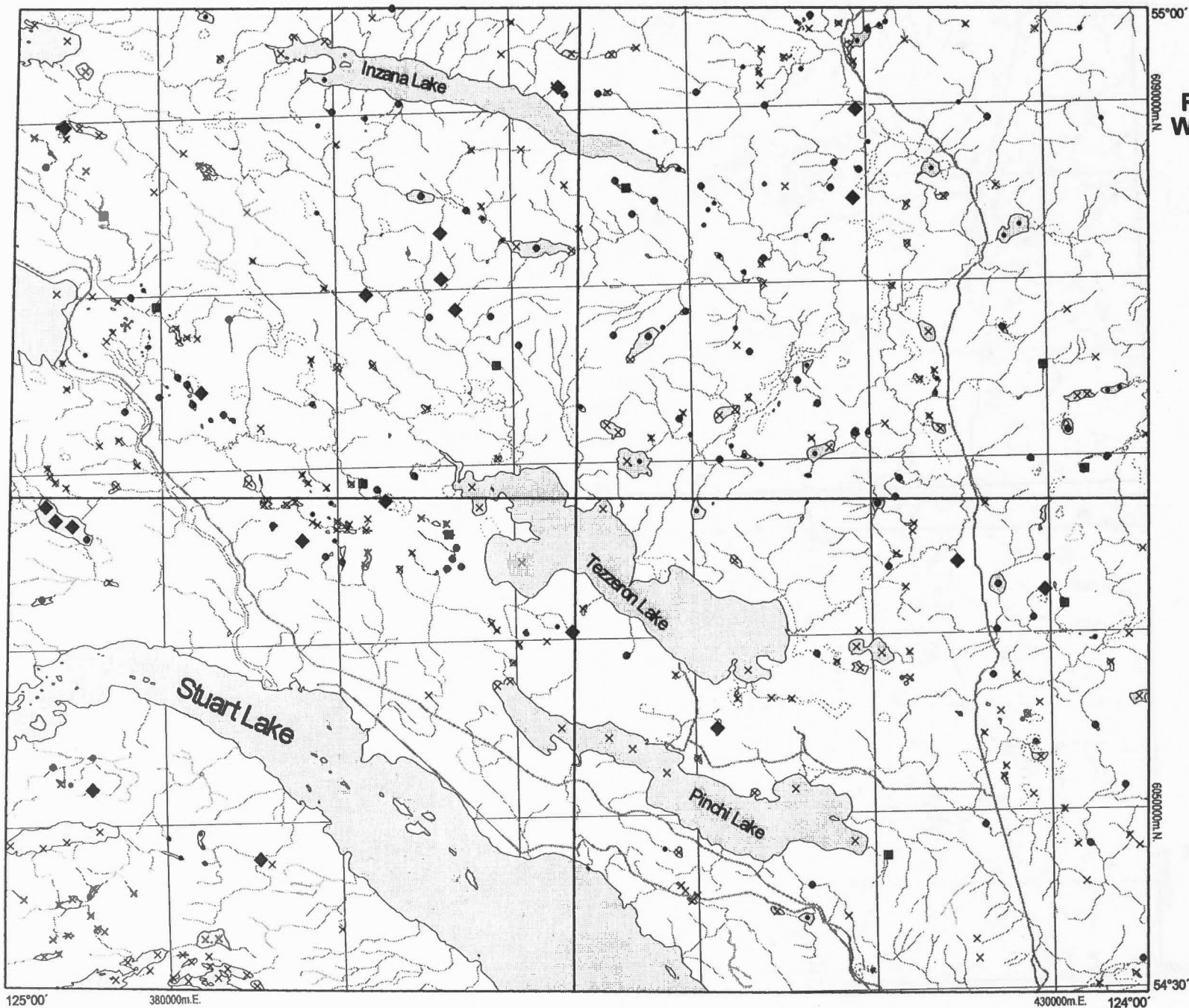
(NTS 93K/09, 10, 15, 16)



UTM Zone 10
NAD 1983

Bismuth (ppm) AAS





B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Cadmium (ppm) AAS

Lake Sediment

Concentration	Frequency
2.0 to 20.0	◆ n = 20 (4.8%)
1.7 to 1.9	■ n = 10 (2.4%)
1.1 to 1.6	● n = 76 (18.4%)
0.8 to 1.0	• n = 76 (18.4%)
0.1 to 0.7	× n = 231 (55.9%)

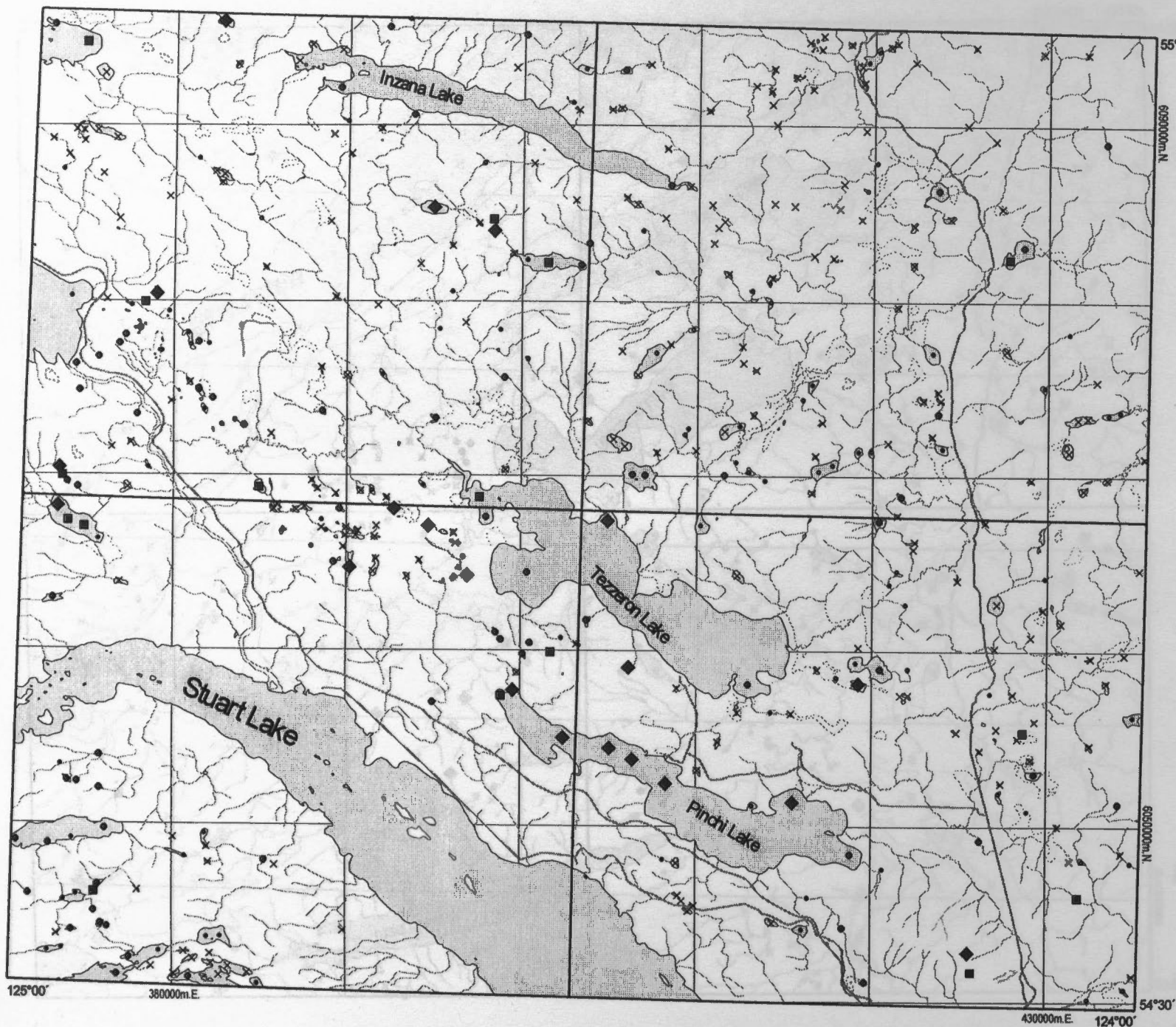
413 Samples

125°00'

380000m.E

430000m.E

124°00'



B.C. Geological Survey Branch
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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

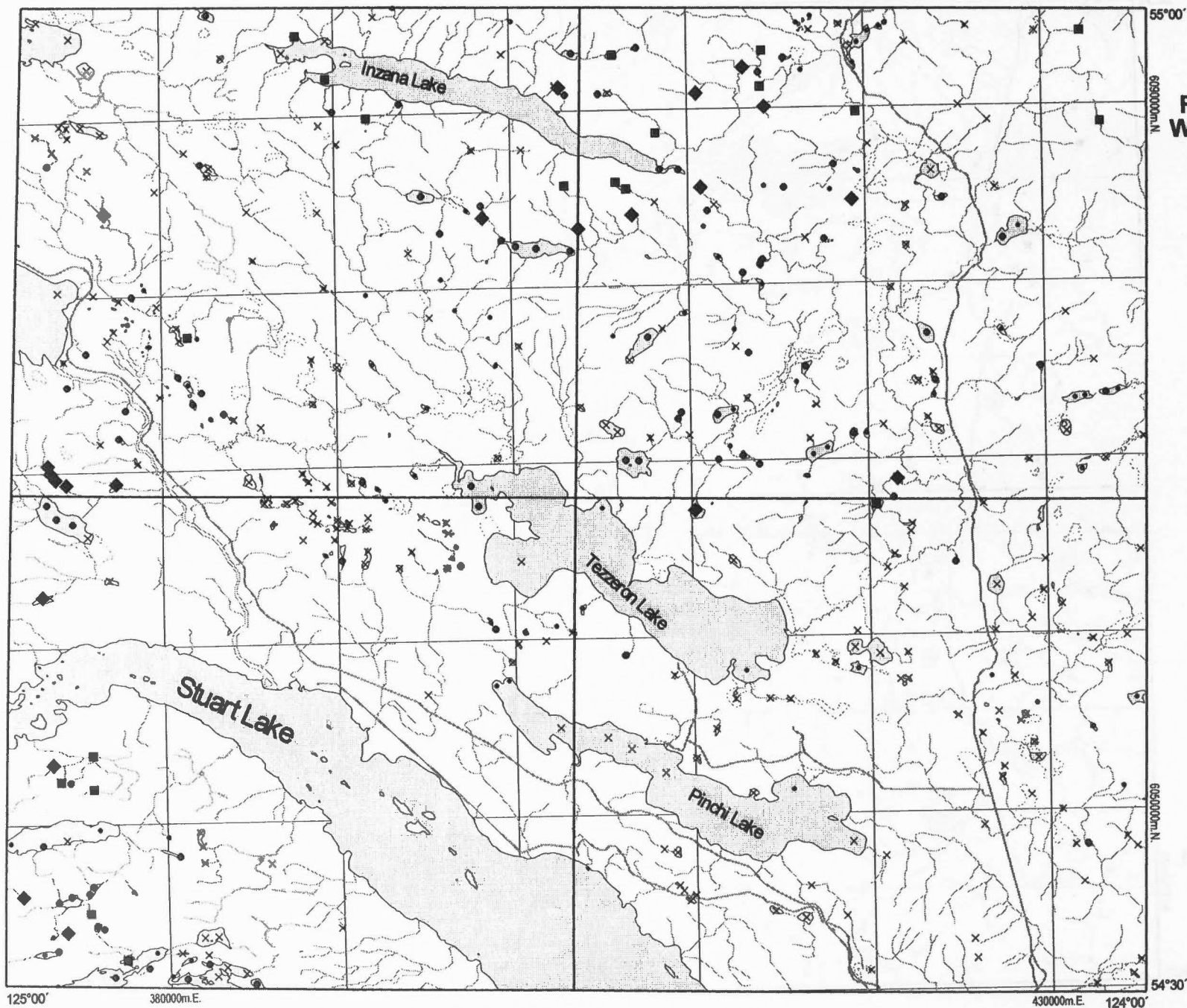
UTM Zone 10
NAD 1983

Cobalt (ppm) AAS

Lake Sediment

Concentration	Frequency
18 to 29	◆ n = 20 (4.8%)
16 to 17	■ n = 18 (3.9%)
12 to 15	● n = 70 (16.9%)
9 to 11	• n = 99 (24.0%)
2 to 8	× n = 208 (50.4%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Copper (ppm) AAS

Lake Sediment

Concentration	Frequency
100 to 250	◆ n = 21 (5.1%)
89 to 99	■ n = 20 (4.8%)
65 to 88	● n = 82 (19.9%)
51 to 64	• n = 80 (19.4%)
5 to 50	× n = 210 (50.8%)

413 Samples

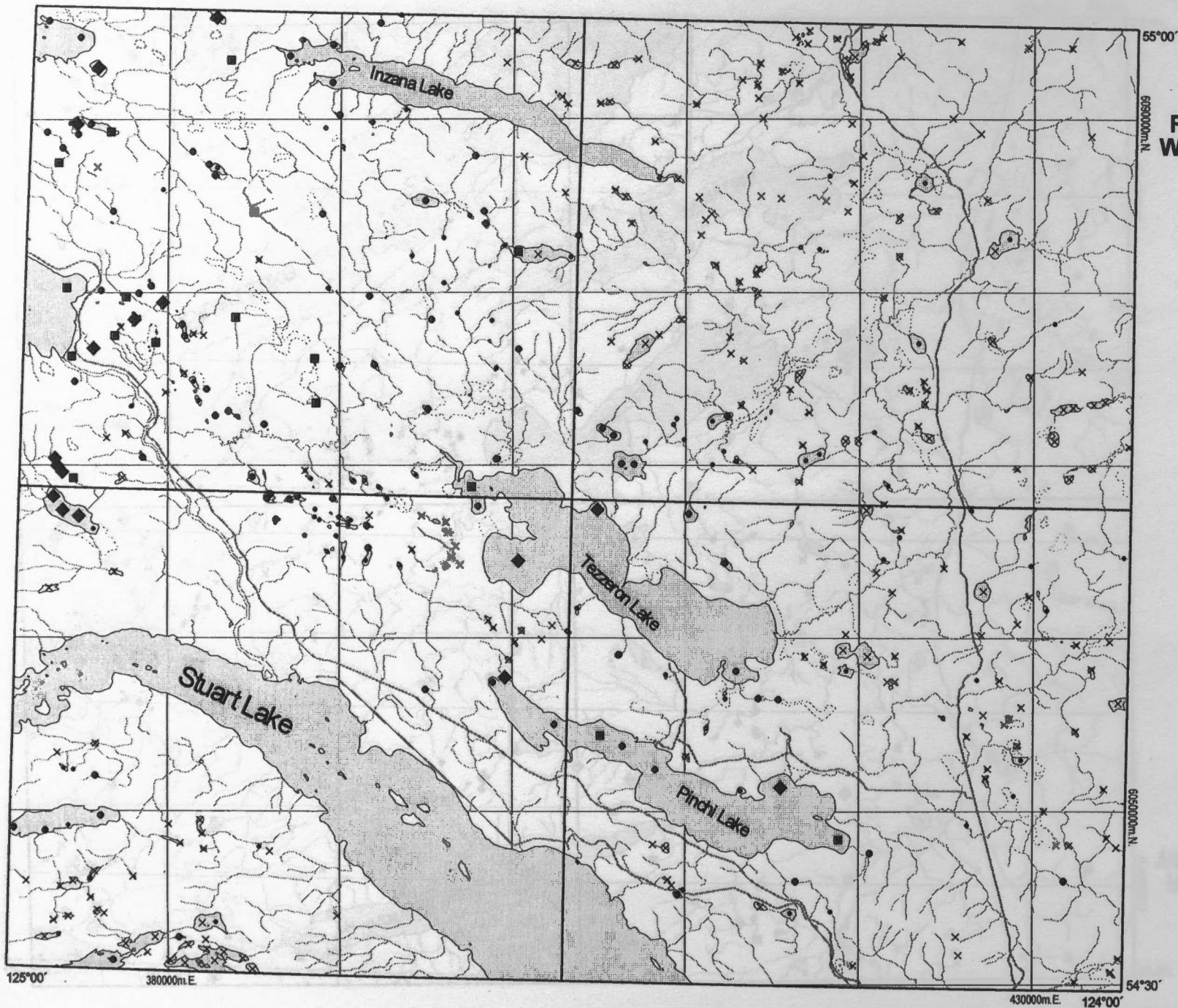
125°00'

380000m.E.

430000m.E.

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

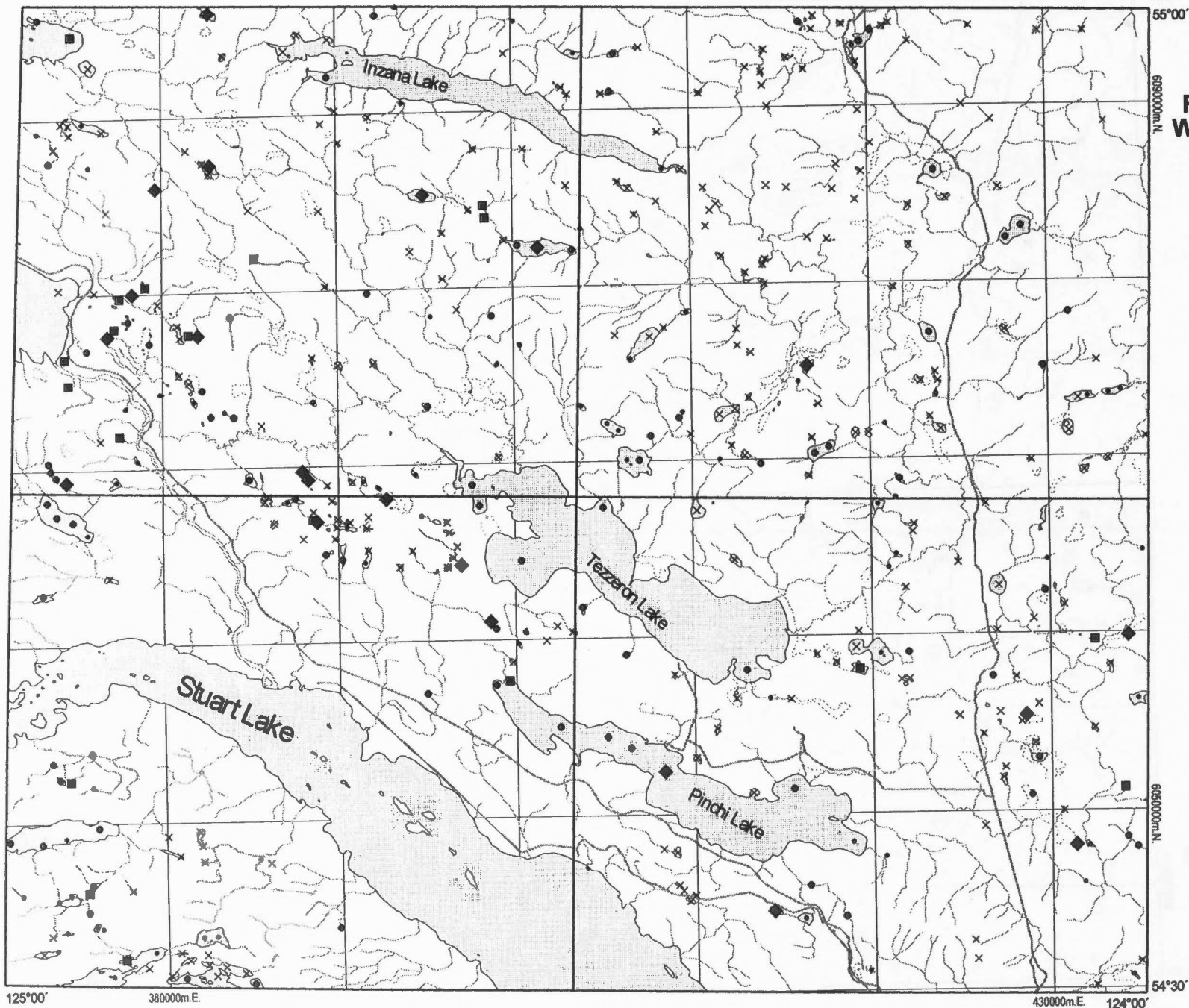
0 5 10 km

UTM Zone 10
NAD 1983

Fluorine (ppm) AAS

Lake Sediment	
Concentration	Frequency
401 to 500	◆ n = 16 (3.9%)
361 to 400	■ n = 17 (4.1%)
301 to 360	● n = 78 (18.4%)
231 to 300	• n = 92 (22.3%)
80 to 230	× n = 212 (51.3%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Iron (%) AAS

Lake Sediment

Concentration	Frequency
5.1 to 21.0	◆ n = 21 (5.1%)
4.0 to 5.0	■ n = 19 (4.6%)
2.3 to 3.9	● n = 79 (19.1%)
1.6 to 2.2	• n = 74 (17.9%)
0.1 to 1.5	× n = 220 (53.3%)

413 Samples

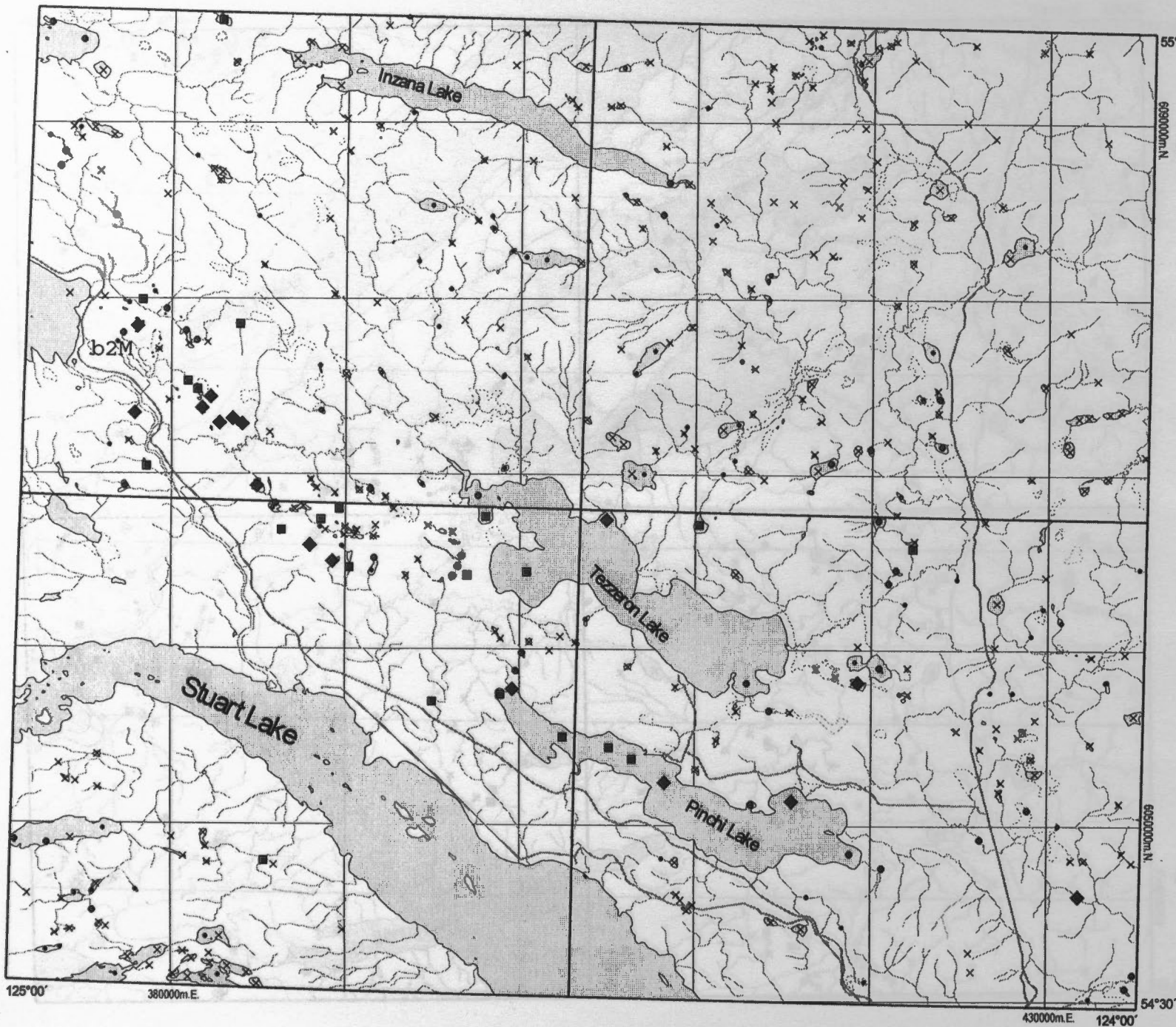
125°00'

380000m.E.

430000m.E.

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

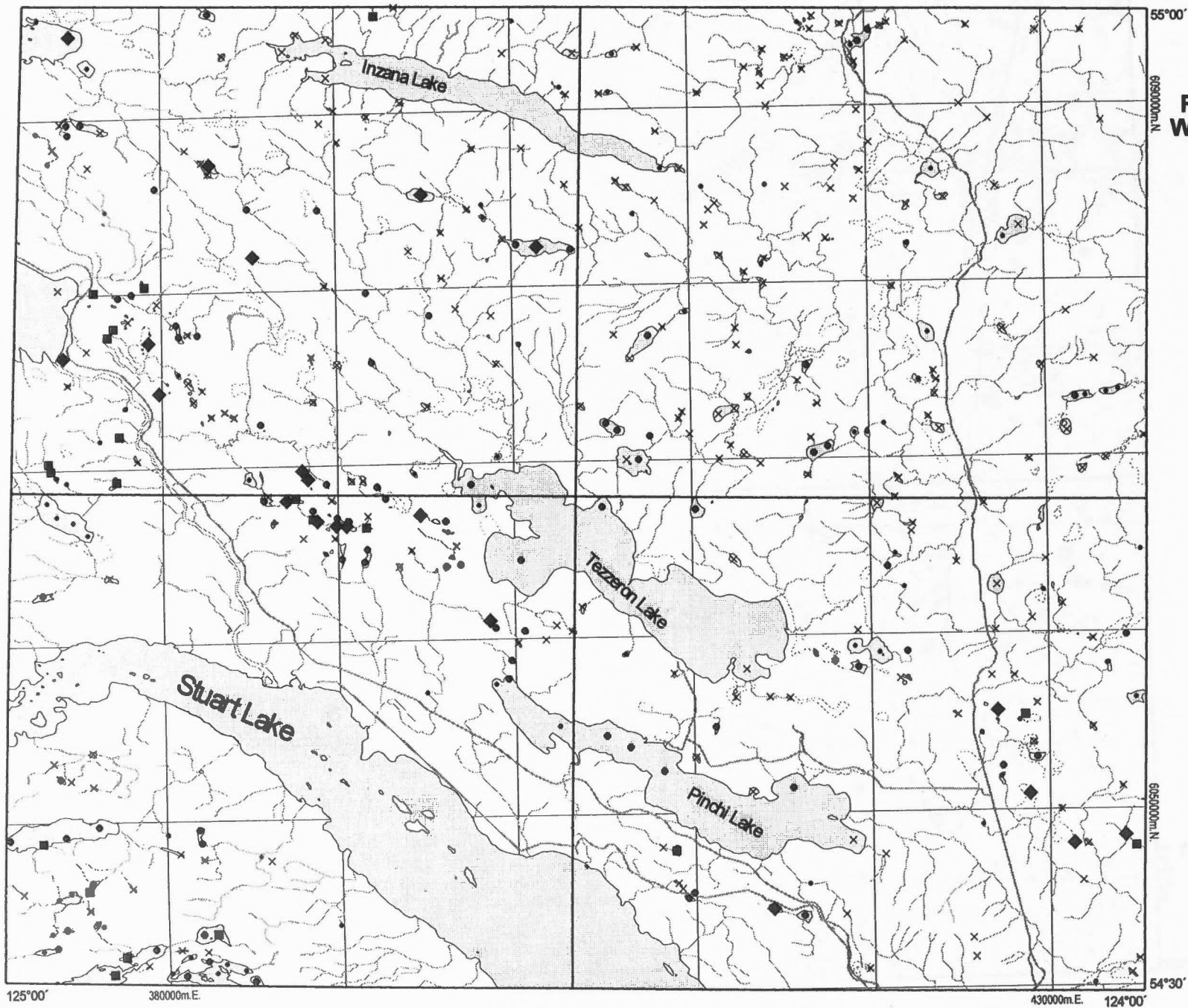
UTM Zone 10
NAD 1983

Lead (ppm) AAS

Lake Sediment

Concentration	Frequency
8 to 13	◆ n = 17 (4.1%)
6 to 7	■ n = 23 (5.6%)
4 to 5	● n = 46 (11.1%)
3 to 3	• n = 82 (19.9%)
2 to 2	× n = 245 (59.3%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Manganese (ppm) AAS

Lake Sediment	
Concentration	Frequency
1461 to 16000	◆ n = 21 (5.1%)
1101 to 1460	■ n = 20 (4.8%)
479 to 1100	● n = 80 (19.4%)
328 to 478	• n = 84 (20.3%)
24 to 327	× n = 208 (50.4%)

413 Samples

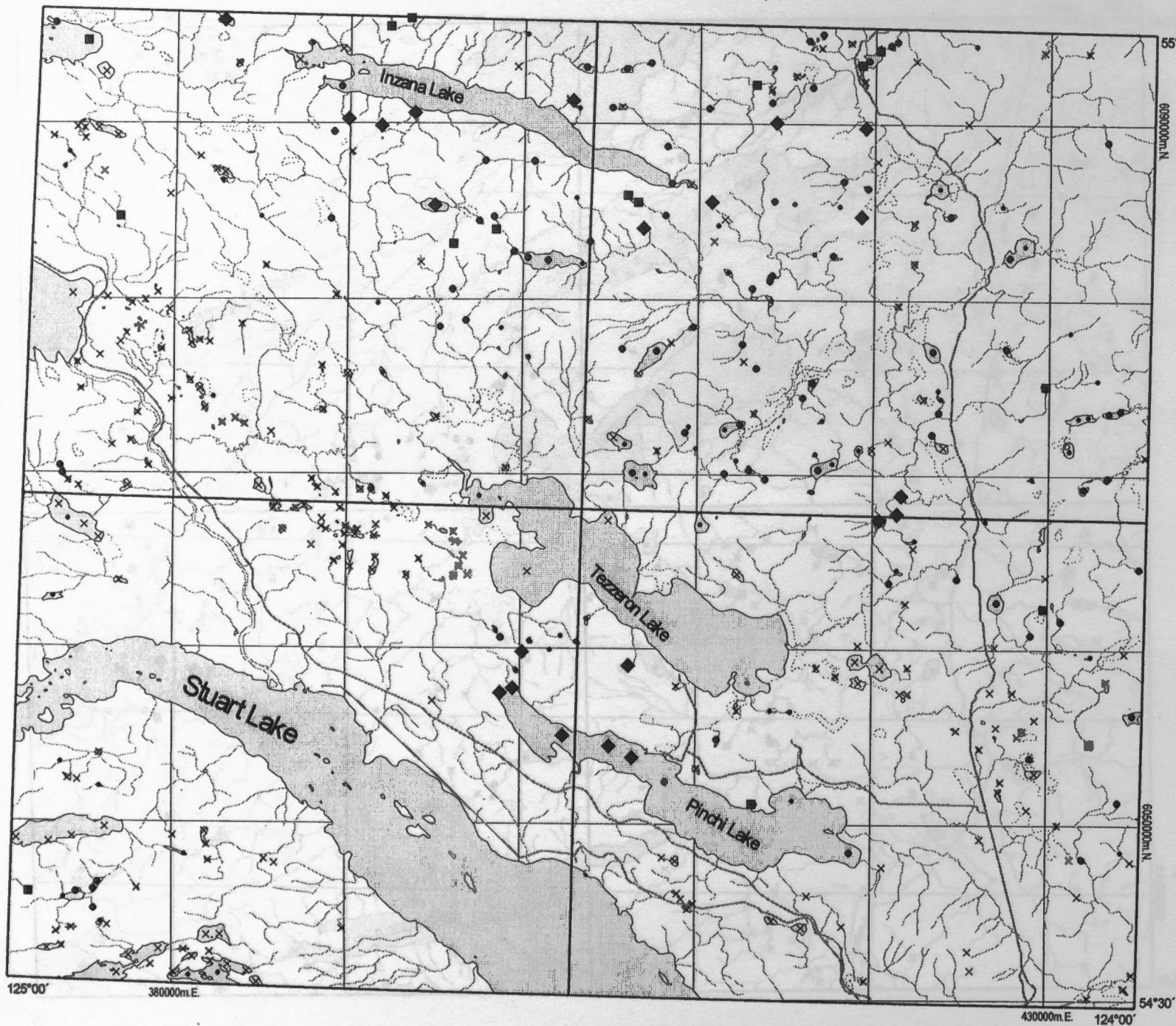
125°00'

380000m.E.

430000m.E.

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

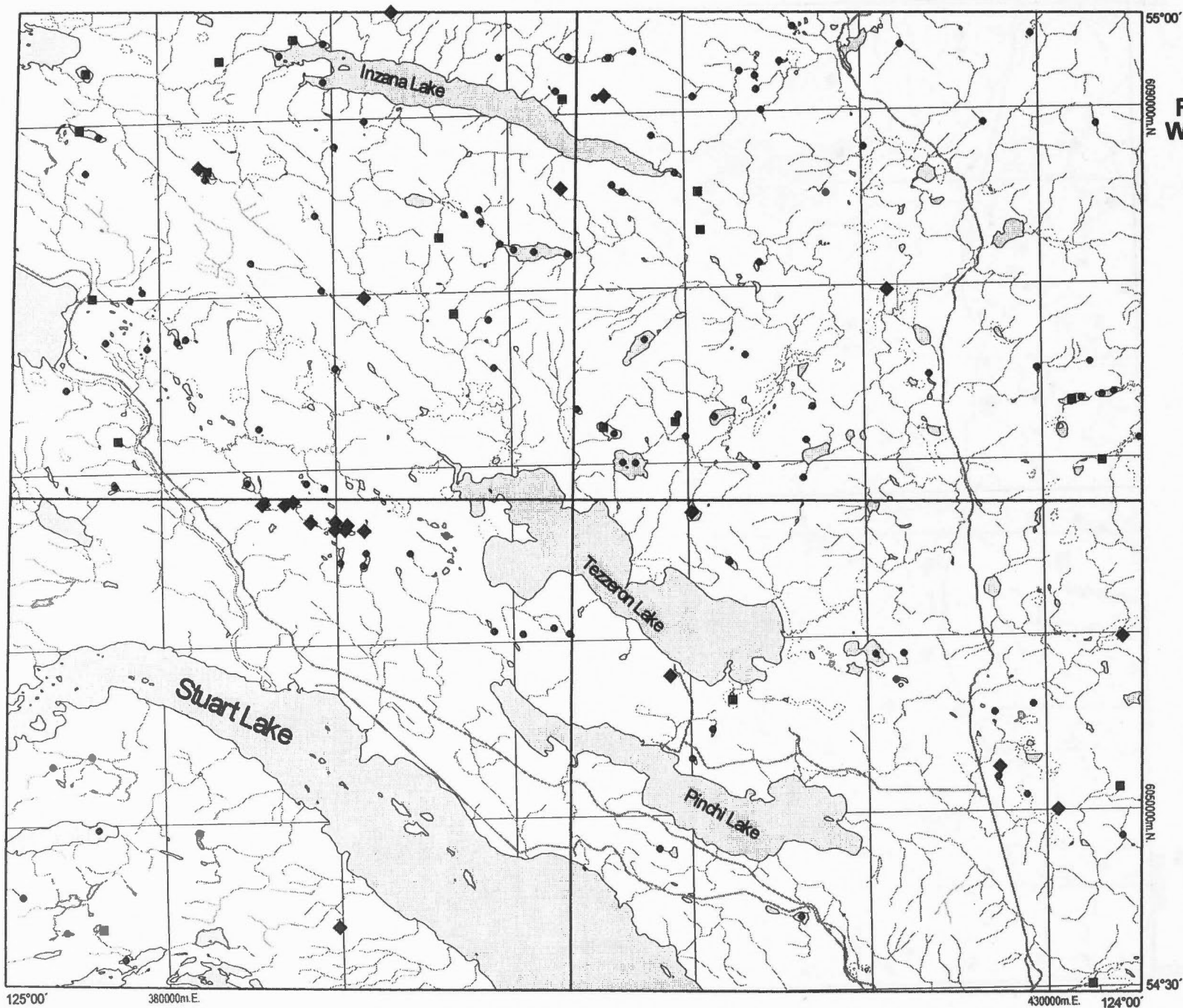
UTM Zone 10
NAD 1983

Mercury (ppb) AAS

Lake Sediment

Concentration	Frequency
331 to 4150	◆ n = 21 (5.1%)
271 to 330	■ n = 16 (3.9%)
171 to 270	● n = 83 (20.1%)
131 to 170	• n = 73 (17.7%)
10 to 130	× n = 220 (53.3%)

413 Samples



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Molybdenum (ppm) AAS

Lake Sediment	
Concentration	Frequency
17 to 65	◆ n = 21 (5.1%)
12 to 16	■ n = 20 (4.8%)
7 to 11	● n = 72 (17.4%)
5 to 6	• n = 89 (21.5%)
2 to 4	× n = 211 (51.1%)

413 Samples

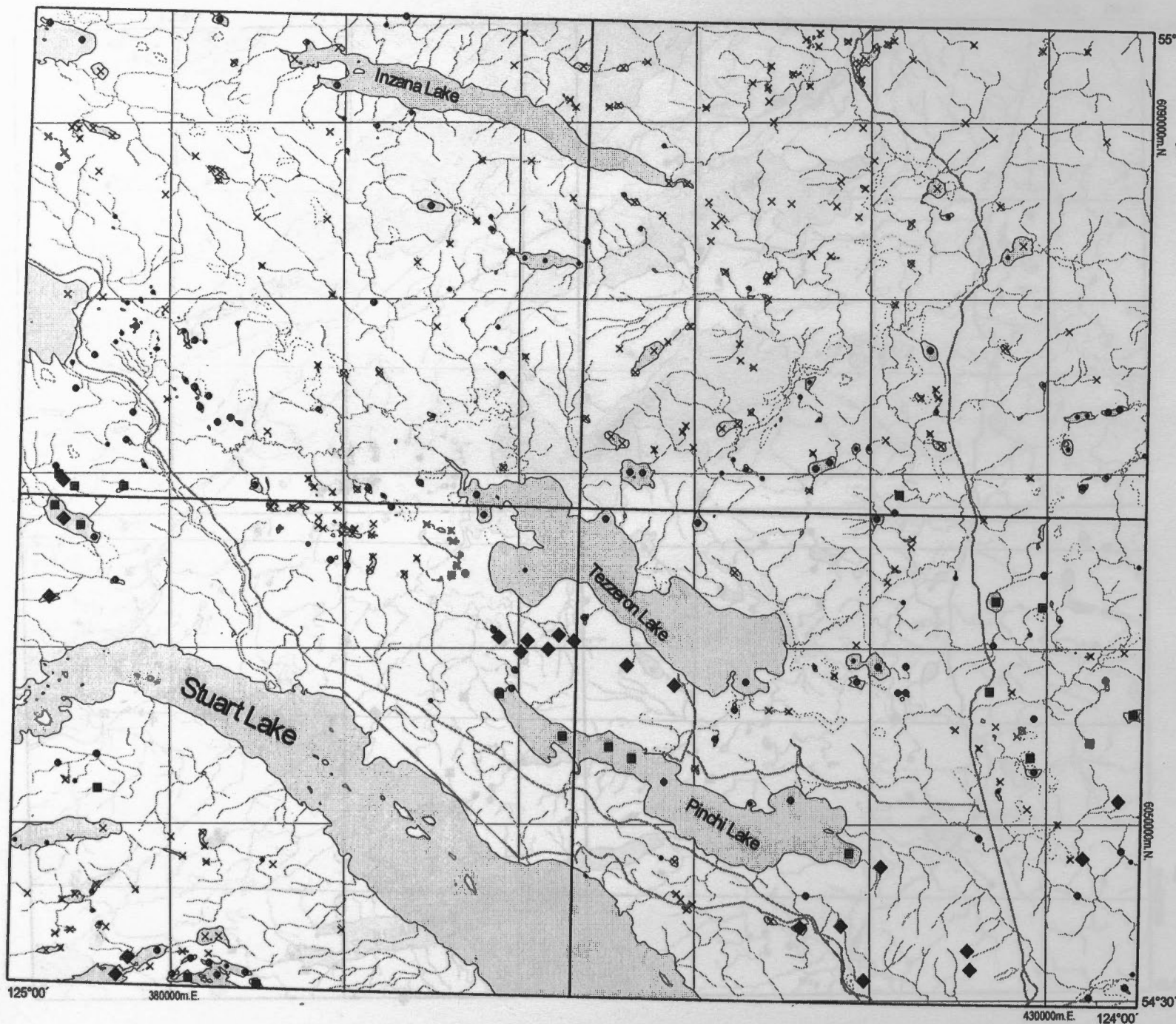
125°00'

380000m.E

430000m.E

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

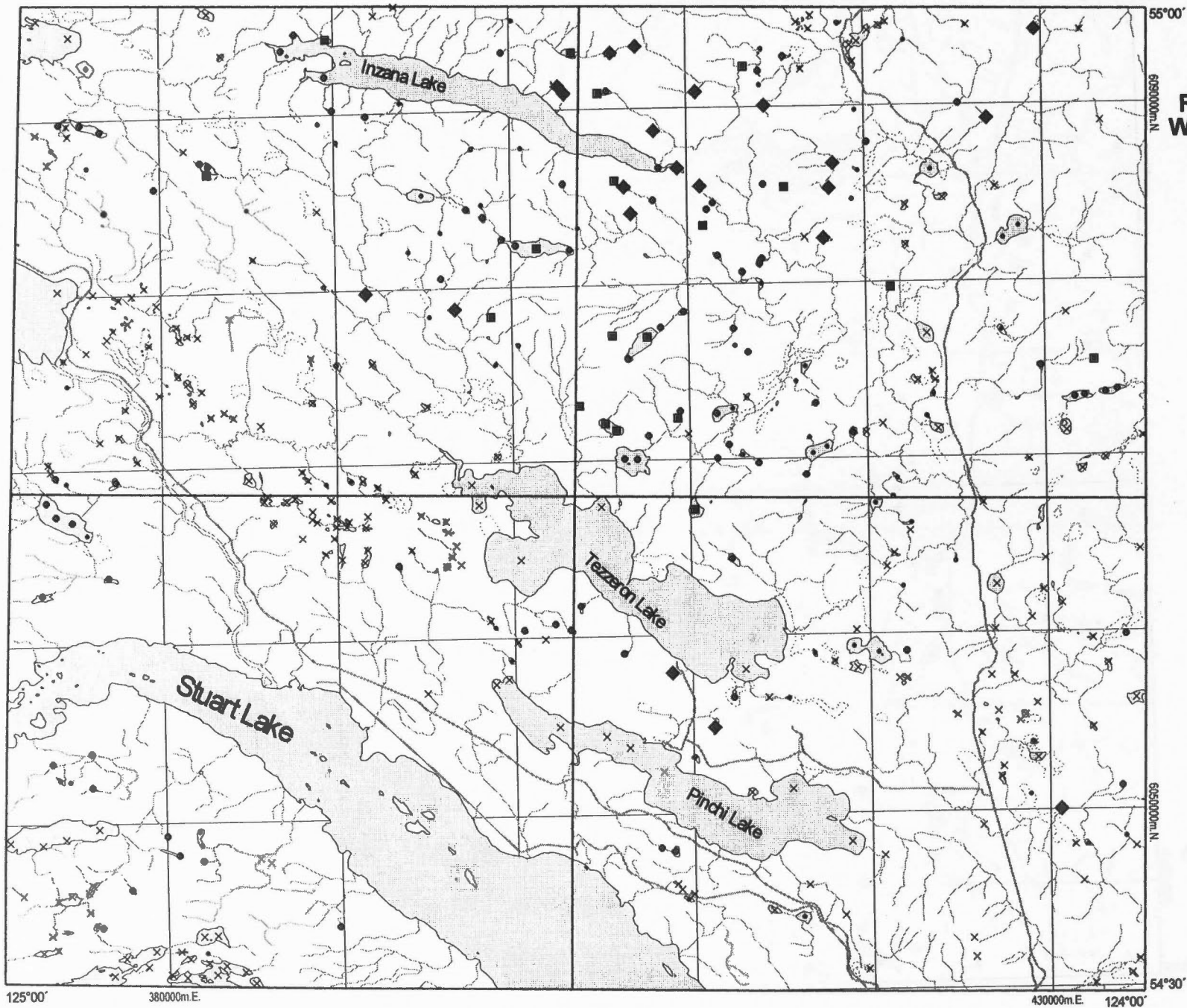
0 5 10 km

UTM Zone 10
NAD 1983

Nickel (ppm) AAS

Lake Sediment	
Concentration	Frequency
99 to 650	◆ n = 21 (5.1%)
72 to 98	■ n = 20 (4.8%)
46 to 71	● n = 78 (18.9%)
36 to 45	• n = 80 (19.4%)
2 to 35	× n = 214 (51.6%)

413 Samples



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Selenium (ppm) AAS

Lake Sediment

Concentration	Frequency
9.6 to 18.0	◆ n = 21 (5.1%)
6.6 to 9.5	■ n = 19 (4.6%)
2.7 to 6.5	● n = 84 (20.3%)
1.6 to 2.6	• n = 73 (17.7%)
0.1 to 1.5	× n = 216 (52.3%)

413 Samples

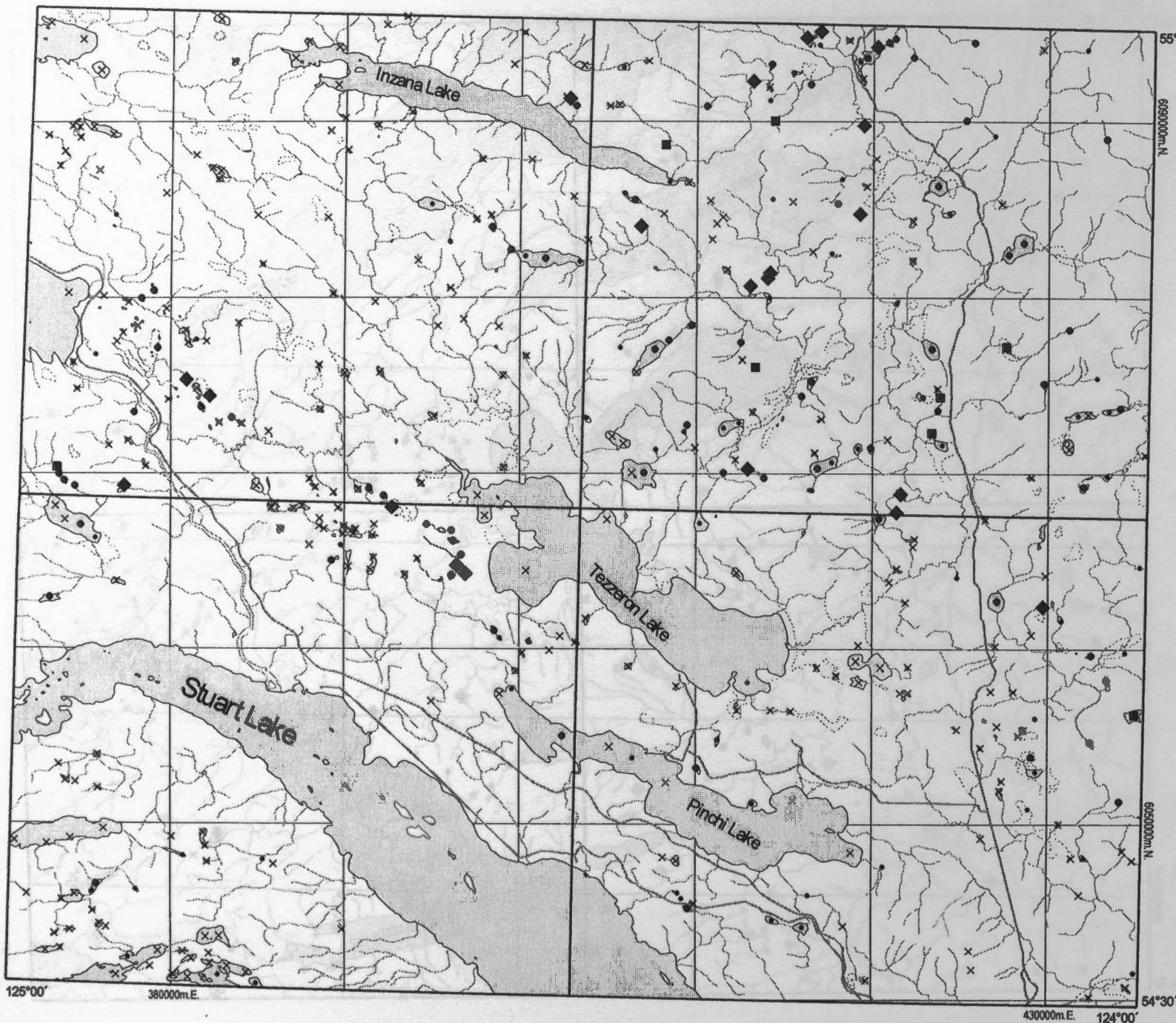
125°00'

380000m.E

430000m.E

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

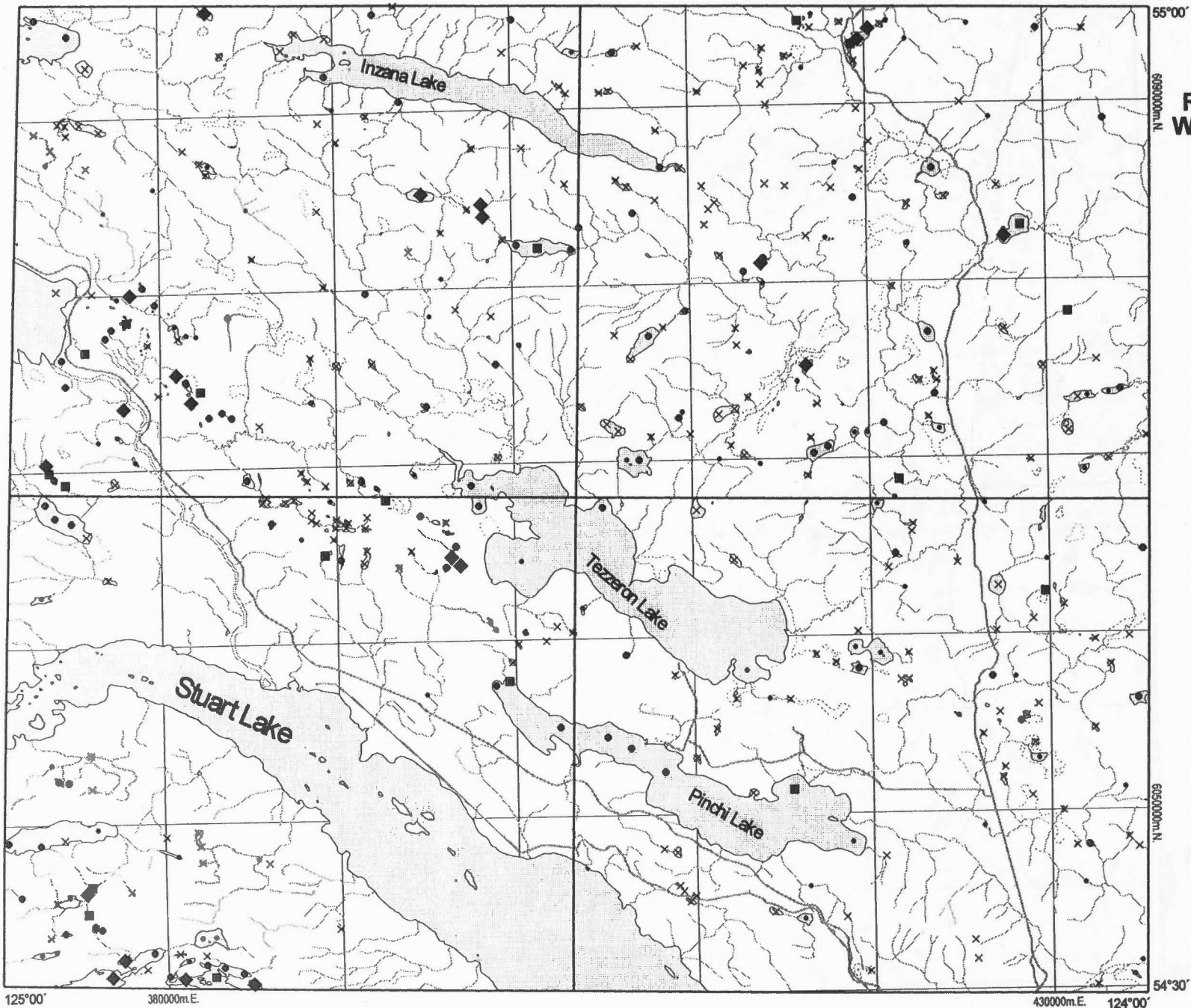
UTM Zone 10
NAD 1983

Silver (ppm) AAS

Lake Sediment

Concentration	Frequency
0.8 to 2.0	◆ n = 21 (5.1%)
0.7 to 0.7	■ n = 8 (1.9%)
0.5 to 0.6	● n = 68 (16.5%)
0.4 to 0.4	• n = 69 (16.7%)
0.2 to 0.3	× n = 247 (59.8%)

413 Samples



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Vanadium (ppm) AAS

Lake Sediment

Concentration	Frequency
89 to 135	◆ n = 21 (5.1%)
75 to 88	■ n = 19 (4.6%)
56 to 74	● n = 82 (19.9%)
43 to 55	• n = 82 (19.9%)
5 to 42	× n = 209 (50.6%)

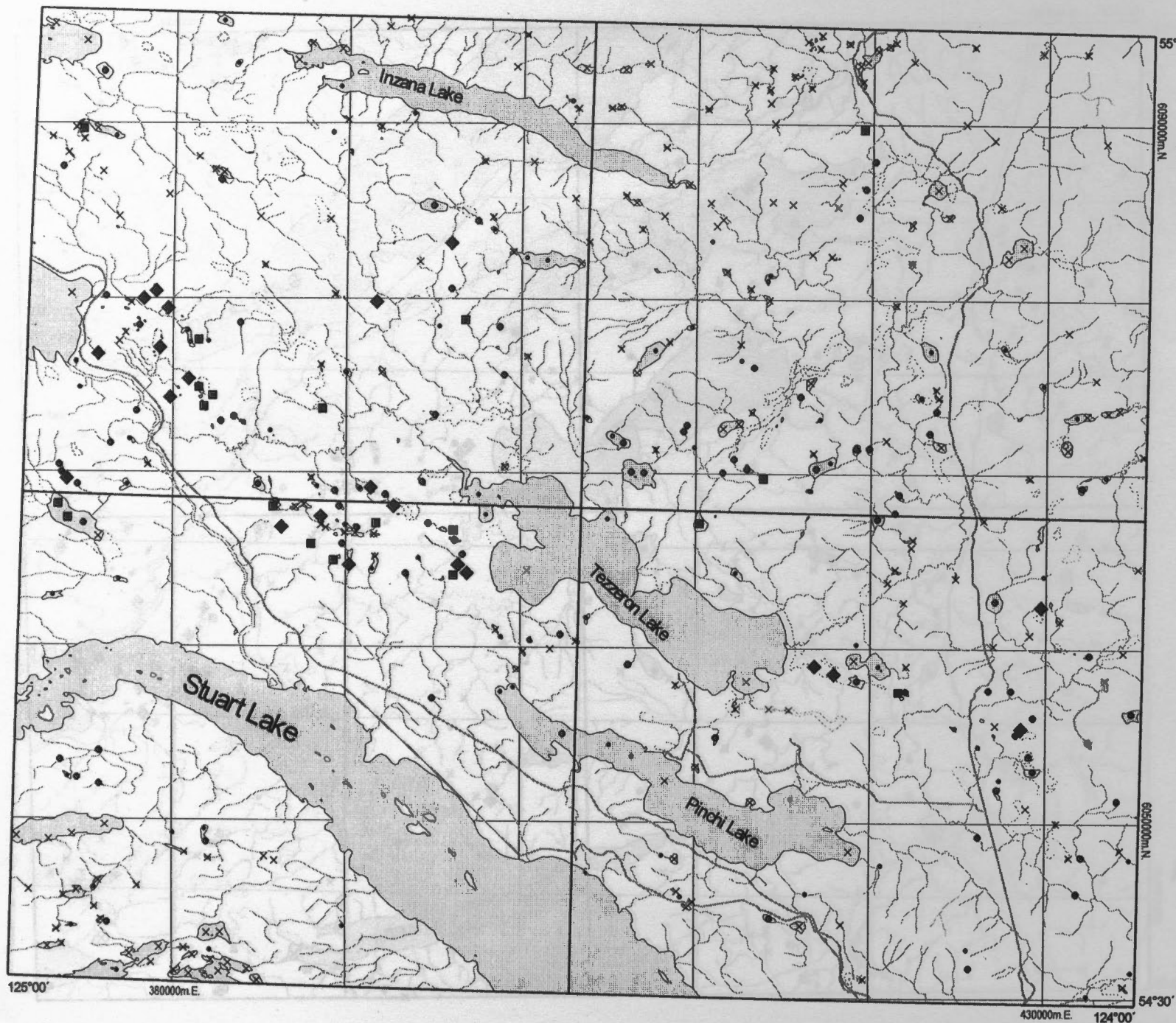
413 Samples

125°00'

380000m.E.

430000m.E.

124°00'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

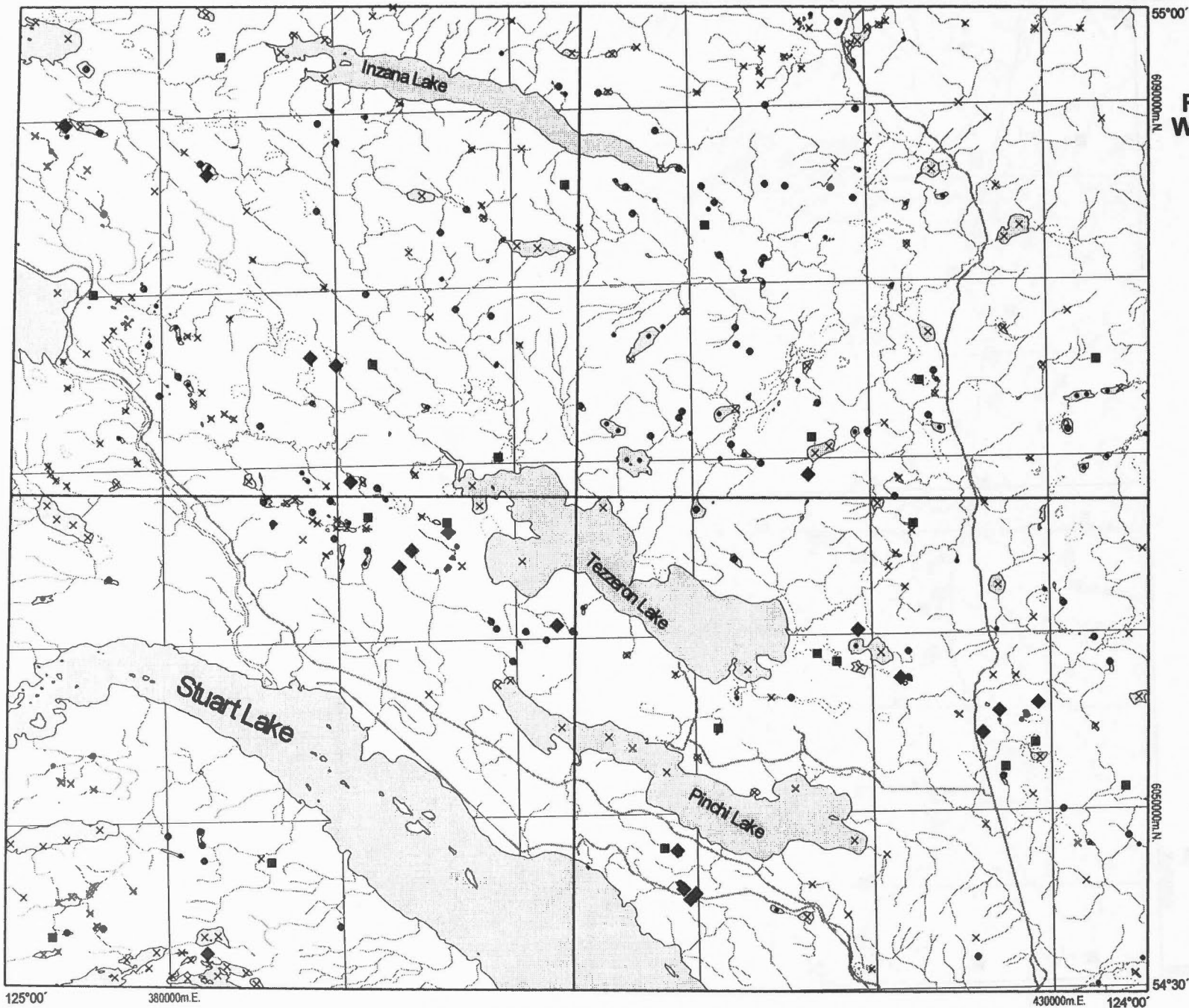
UTM Zone 10
NAD 1983

Zinc (ppm) AAS

Lake Sediment

Concentration	Frequency
286 to 2600	◆ n = 21 (5.1%)
207 to 265	■ n = 19 (4.6%)
155 to 206	● n = 84 (20.3%)
132 to 154	• n = 81 (19.6%)
18 to 131	× n = 208 (50.4%)

413 Samples



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Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Loss on Ignition (%) AAS

Lake Sediment

Concentration	Frequency
76.3 to 94.1	◆ n = 20 (4.8%)
69.7 to 76.2	■ n = 21 (5.1%)
55.4 to 69.6	● n = 83 (20.1%)
45.2 to 55.3	• n = 82 (19.9%)
2.2 to 45.1	× n = 207 (50.1%)

413 Samples

125°00'

380000m.E.

430000m.E.

124°00'

54°30'

55°00'

6030000m.N

6030000m.N

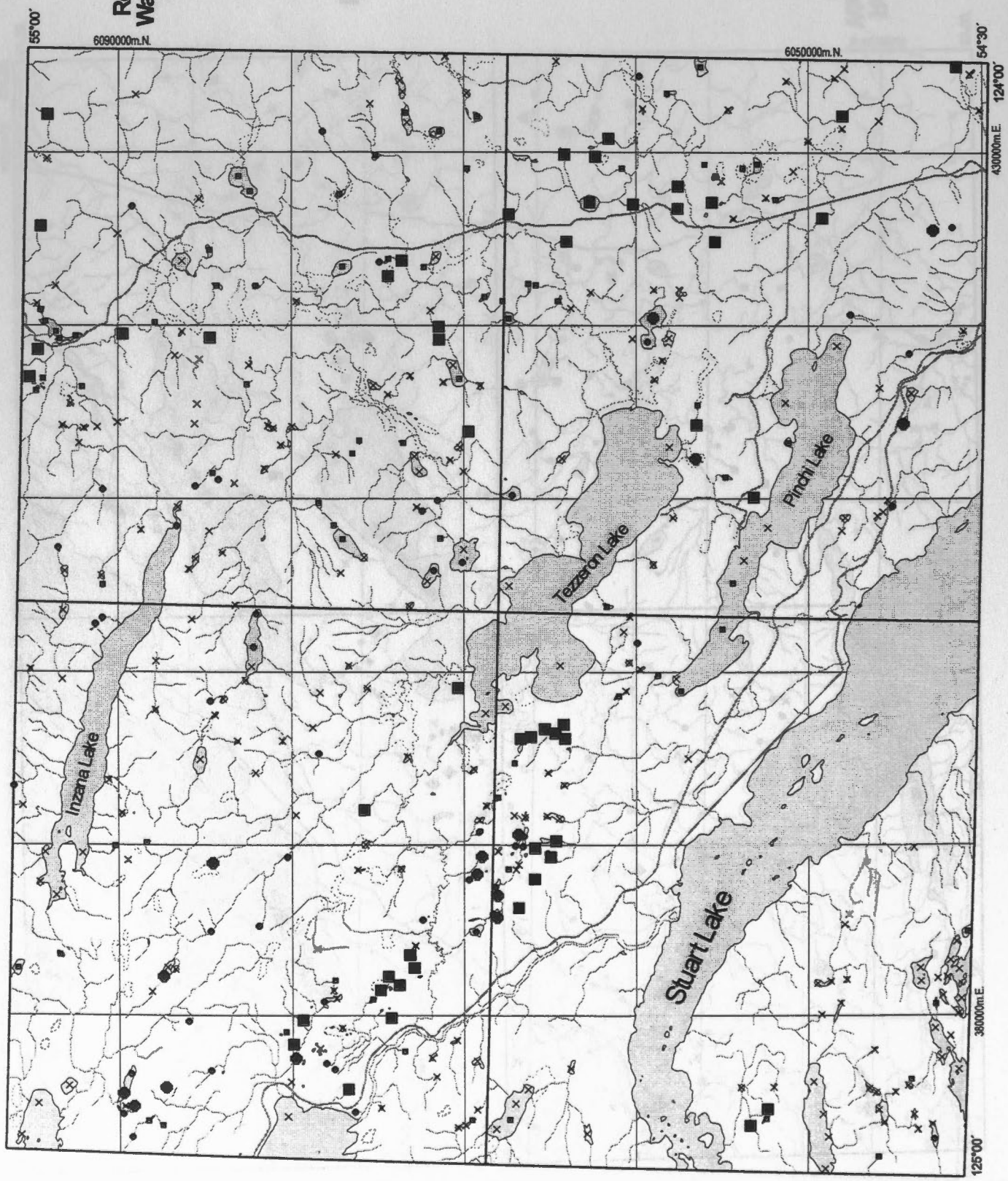
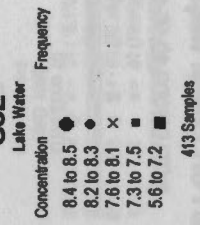
Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

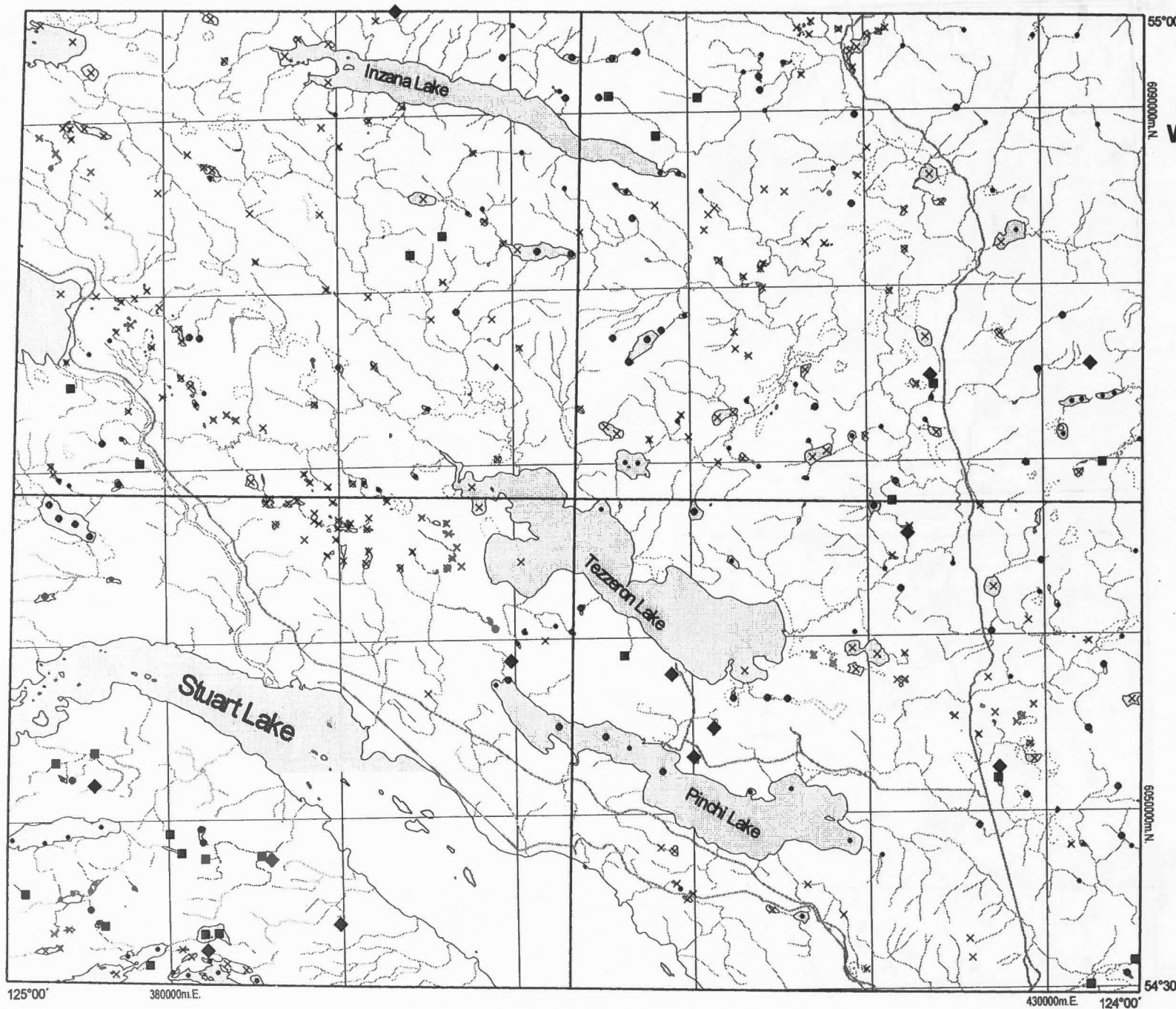
(NTS 93K/08, 10, 15, 16)



UTM Zone 10
NAD 1983

pH
GCE





B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Sulphate (ppm) TURB

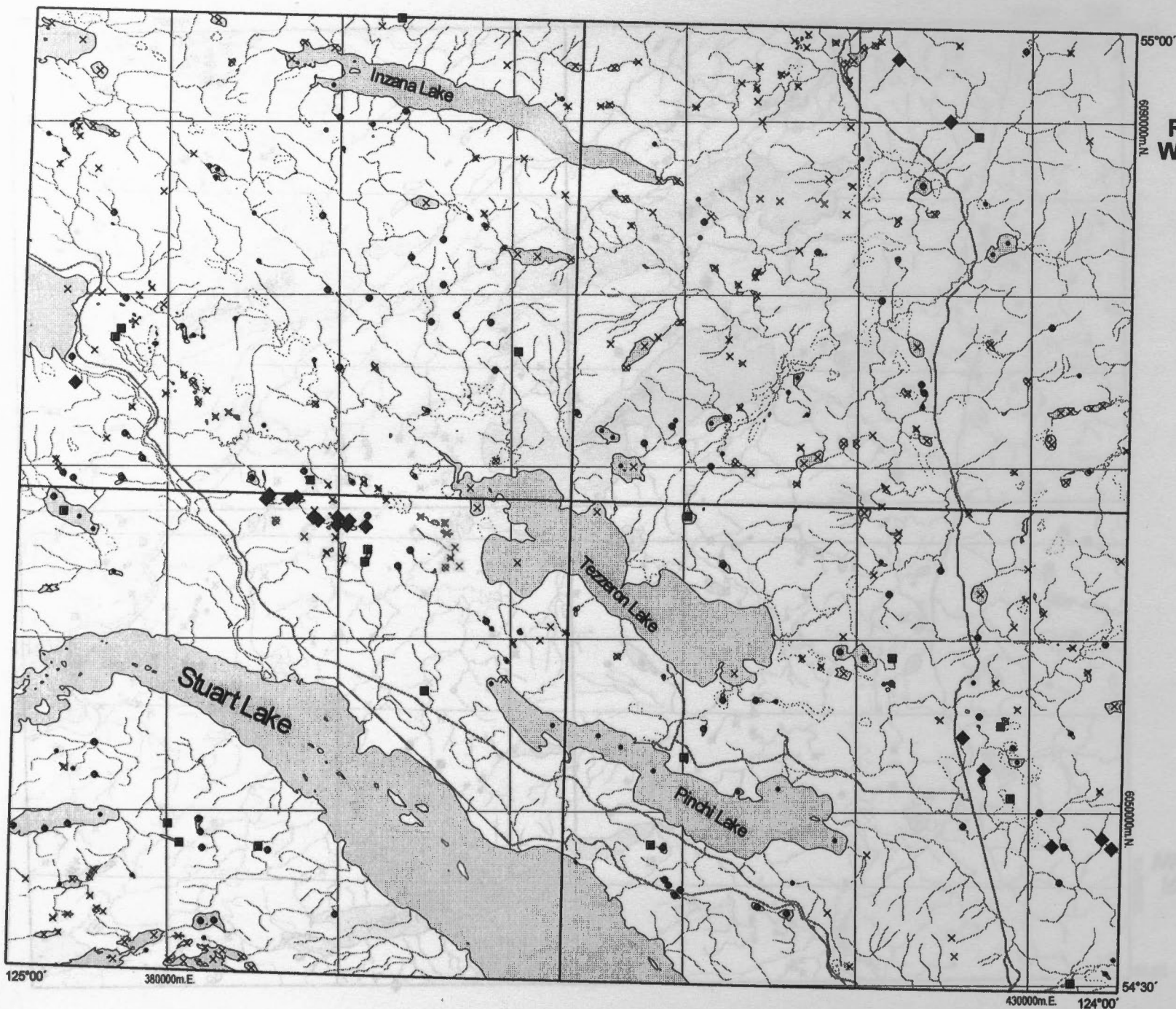
Lake Water	
Concentration	Frequency
11 to 55	◆ n = 13 (3.1%)
8 to 10	■ n = 25 (6.1%)
6 to 7	● n = 58 (14.0%)
4 to 5	• n = 109 (26.4%)
1 to 3	× n = 208 (50.4%)

413 Samples

125°00' 380000m.E.

430000m.E. 124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

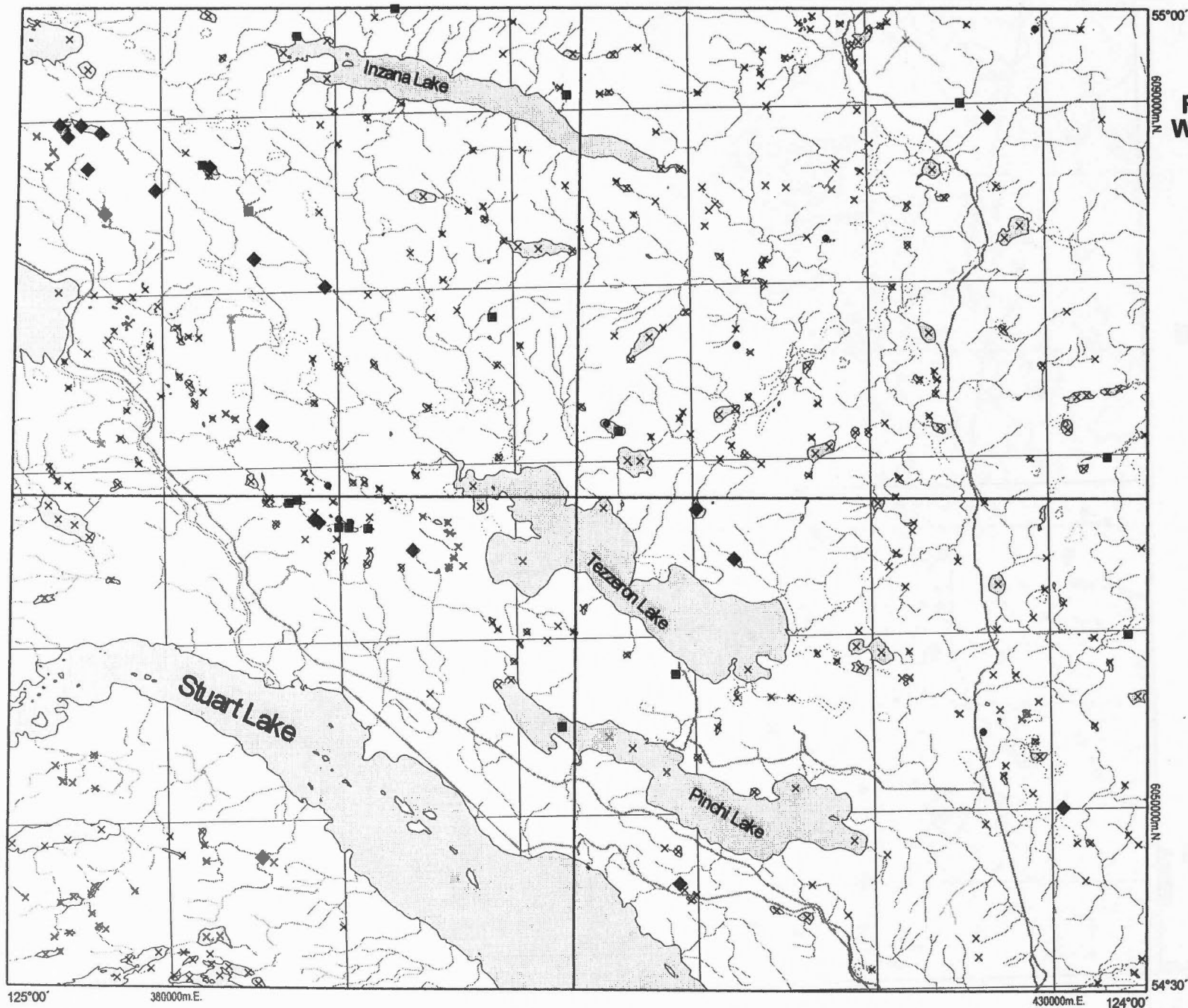
0 5 10 km

UTM Zone 10
NAD 1983

Fluoride (ppb) ION

Lake Water	
Concentration	Frequency
89 to 180	◆ n = 19 (4.6%)
73 to 88	■ n = 20 (4.8%)
57 to 72	● n = 78 (18.9%)
47 to 56	• n = 83 (20.1%)
20 to 46	× n = 213 (51.6%)

413 Samples



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

UTM Zone 10
NAD 1983

Uranium (ppb) LW

Lake Water

Concentration	Frequency
0.11 to 0.84	◆ n = 20 (4.8%)
0.07 to 0.10	■ n = 17 (4.1%)
0.06 to 0.06	● n = 8 (1.9%)
	• n = 0 (0.0%)
0.05 to 0.05	× n = 368 (89.1%)

413 Samples

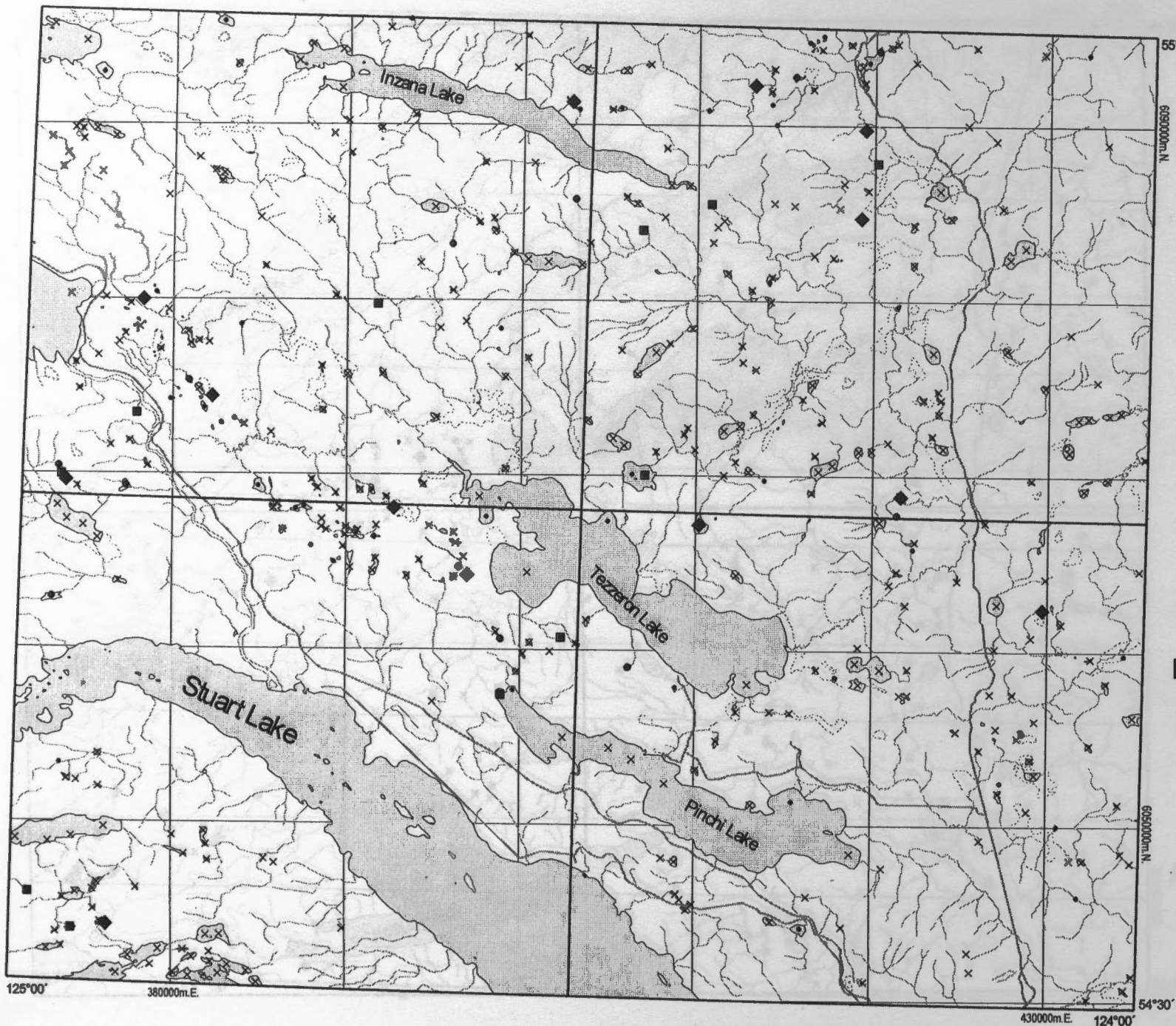
125°00'

380000m.E.

430000m.E.

124°00'

54°30'



B.C. Geological Survey Branch
Open File 1996-15

Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09,10,15,16)

0 5 10 km

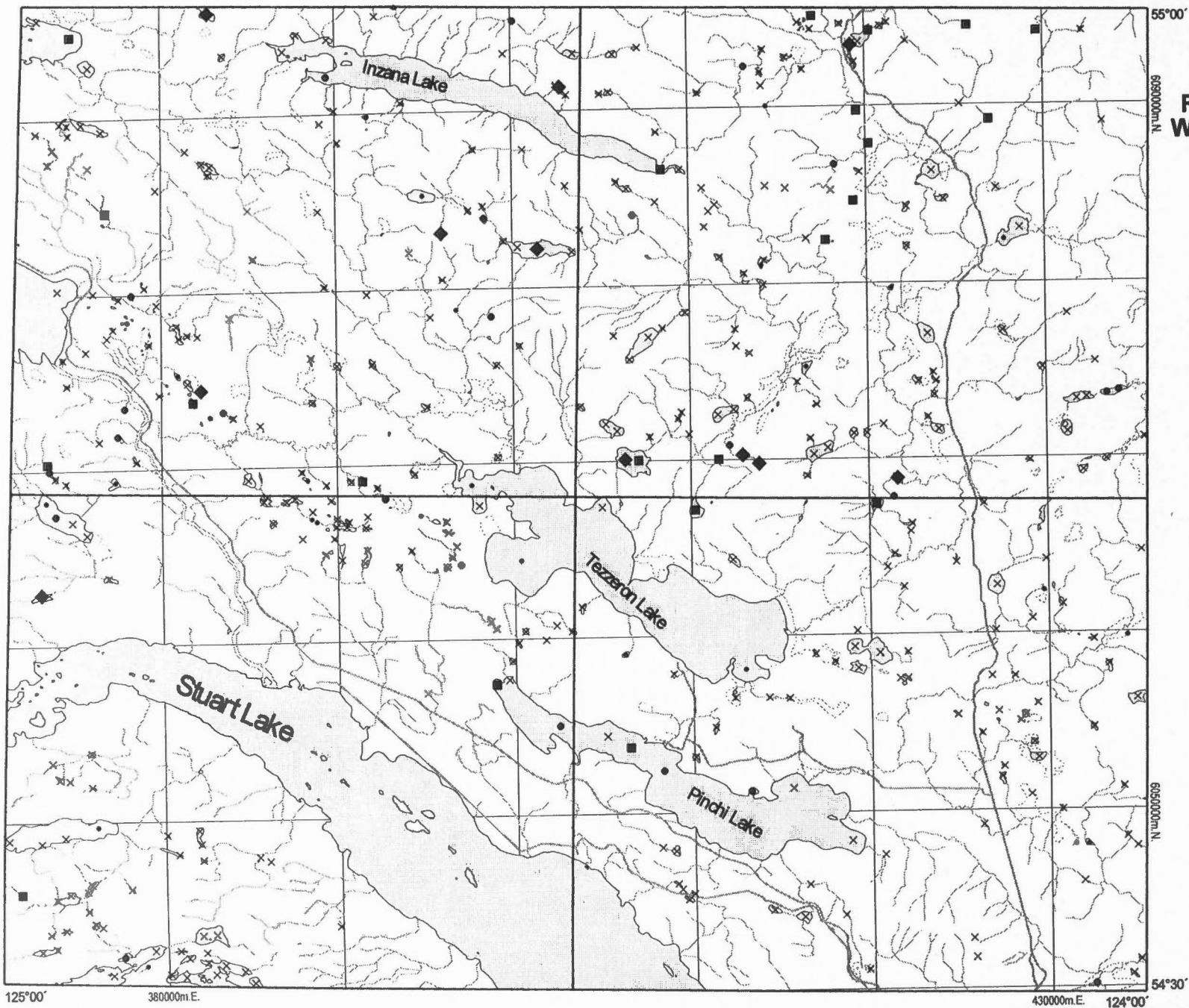
UTM Zone 10
NAD 1983

Base Metal Anomaly Map Cu-Mo-Pb-Zn-Ag

Lake Sediment

Total Rating	Frequency
> 5	◆ n = 13 (3.2%)
5	■ n = 11 (2.7%)
4	● n = 12 (2.9%)
3	• n = 45 (10.9%)
< 3	× n = 332 (80.3%)

413 Samples



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Regional Lake Sediment and Water Geochemistry of part of the Fort Fraser Map Area

(NTS 93K/09, 10, 15, 16)

0 5 10 km

UTM Zone 10
NAD 1983

Precious Metal Anomaly Map Au-Sb-As-Hg-Ag

Lake Sediment

Total Rating	Frequency
> 7	◆ n = 20 (4.8%)
6 - 7	■ n = 13 (3.2%)
4 - 5	● n = 24 (5.8%)
3 - 3	• n = 28 (6.8%)
< 3	× n = 328 (79.4%)

413 Samples

125°00'

380000m E.

430000m E.

124°00'

54°30'