

GEOLOGICAL SURVEY OF CANADA OPEN FILE 2178
(parts of NTS 31M/13 and 32D/4)
CANADA-ONTARIO MINERAL DEVELOPMENT AGREEMENT (1985-1990)

STREAM SEDIMENT AND WATER GEOCHEMICAL INFILL SURVEY DATA
LARDER LAKE REGION, NORTHEASTERN ONTARIO



INDEX MAP

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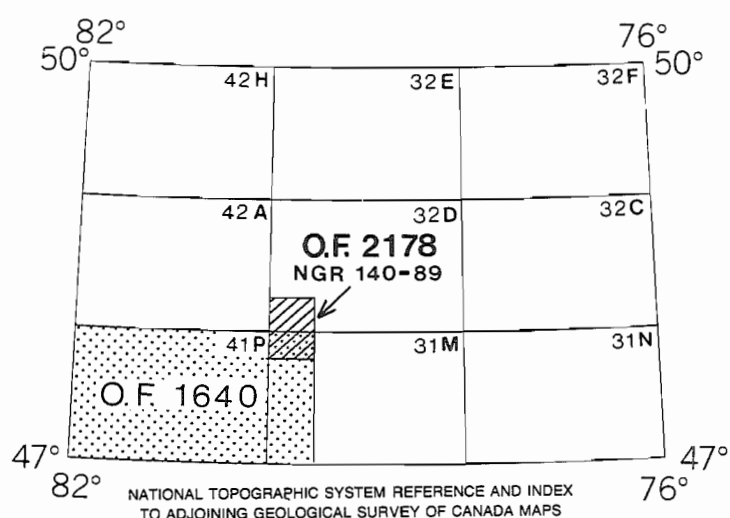
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Survey of Canada
Open File 2178**

August, 1990

**NATIONAL GEOCHEMICAL RECONNAISSANCE
STREAM SEDIMENT AND WATER GEOCHEMICAL INFILL DATA
ONTARIO 1990
GEOLOGICAL SURVEY OF CANADA OPEN FILE 2178, NGR 140-1989
Parts of NTS 31M/13 and 32D/4**



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REGIONAL LAKE SEDIMENT AND WATER GEOCHEMICAL DATA, ONTARIO 1990, GSC OPEN FILE 2177, NGR 139-1989; PARTS OF NTS 42E, 42L AND 52H

INTRODUCTION

Open File 2178, covering an area southeast of Kirkland Lake in northeastern Ontario, was sampled in 1989 as part of the Canada - Ontario Mineral Development Agreement. Open File 2178 contains the results of analyses of stream sediments and waters from this area for 43 elements plus loss-on-ignition. Corresponding waters were analysed for uranium, pH and fluoride.

The reconnaissance survey was undertaken by the Geological Survey of Canada in conjunction with the Ontario Ministry of Northern Development and Mines.

Analytical results and field observations are used to build a national geochemical data base for resource assessment, mineral exploration, geological mapping and environmental studies. Sample collection and preparation procedures and analytical methods are strictly specified and carefully monitored to ensure consistent and reliable results regardless of the area, the year or the analytical laboratory.

CREDITS

E.H.W. Hornbrook directed the survey.

P.W.B. Friske coordinated the operational activities of contract and Geological Survey of Canada staff.

Sample collection was carried out by Alexander C. Bath under the direction of Gerhard Meyer, Regional Geologist, Kirkland Lake, Ministry of Northern Development and Mines.

Preparation: Golder Associates
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M. McCurdy edited open files and coordinated production.

A.C. Galletta managed the digital geochemical data and provided computer processing support.

The personal computer data base and software programs used for data entry, verification, processing and presentation in the publication of reports were designed and programmed by Harry Gross, Geochemical Data Manager for the Exploration Geochemistry Subdivision.

Sample location, gold value and symbol-trend maps were prepared by GSC staff.

Pat Doyle, C.C. Durham and Rob Phillips provided technical assistance.

DESCRIPTION OF SURVEY AND SAMPLE MANAGEMENT

Truck-supported sample collection was carried out during the summer of 1989. Stream sediment and water samples were collected at an average density of one sample per 10 square kilometres throughout the 2 000 square kilometres of the northeastern Ontario survey.

Sample site duplicate samples were routinely collected in each analytical block of twenty samples.

Field observations were recorded on standard forms used by the Geological Survey of Canada (Garrett, 1974).

The sample site positions were marked on appropriate 1:50 000 scale NTS maps in the field. These maps were digitized at the Geological Survey in Ottawa to obtain the sample site UTM coordinates.

In Ottawa, field dried samples were air-dried and sieved through a minus 80 mesh (177 micron) screen, and ball-milled before analyses. At this time, control reference and blind duplicate samples were inserted into each block of twenty sediment samples. For the water samples, only control reference samples were inserted into the block. There were no blind duplicate water samples.

The sample site coordinates were checked as follows: a sample location map was produced on a Calcomp 1051 drum plotter using the digitized coordinates; the original sample location map produced in the field was then overlain on the Calcomp map; the two sets of points were checked for coincidence. The dominant rock types in the stream catchment basins were identified on appropriate geological maps used as the bedrock geological base on NGR maps.

Thorough inspections of the field and analytical data were made to check for any missing information and/or gross errors.

Quality control and monitoring of the geochemical data was undertaken by a standard method used by the Exploration Geochemistry Subdivision at the Geological Survey of Canada.

ANALYTICAL PROCEDURES

Instrumental Neutron Activation Analysis (INAA)

The weighed sample (generally 10 to 40 g) is irradiated epithermally for 20 minutes in a neutron flux with an approximate density of 1×10^{11} neutrons/cm²/second. Counting begins seven days after irradiation. The counting time is somewhat variable (6 to 11 minutes) and is matrix dependent. Counting is done on a germanium-lithium co-axial counter. The counting data is accumulated on a VAX computer and is subsequently converted to concentrations. Numerous international reference samples are irradiated with each batch of routine samples. Elements determined by INA analyses include: Na, Sc, Cr, Fe, Co, Ni, Zn, As, Se, Br, Rb, Zr, Mo, Ag, Cd, Sn, Sb, Te, Cs, Ba, La, Ce, Sm, Eu, Tb, Yb,

Lu, Hf, Ta, W, Ir, Au, Th, and U. The sample weight is also reported. Data for Zn, Se, Zr, Ag, Cd, Sn, Te, and Ir are not published because of inadequate detection limits and/or precision.

Atomic Absorption Spectroscopy (AAS) and Other Analyses

For the determination of Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, Cd and As, a 1 gram sample is reacted with 3 mL concentrated HNO_3 in a test tube overnight at room temperature. After digestion, the test tube is immersed in a hot water bath at room temperature and brought up to 90°C and held at this temperature for 30 minutes with periodic shaking. One mL of concentrated HCl is added and heating continues for another 90 minutes. The sample solution is then diluted to 20 mL with metal-free water and mixed. Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe and Cd are determined by atomic absorption spectroscopy using an air-acetylene flame. Background corrections are made for Pb, Ni, Co, Ag, and Cd.

Arsenic is determined by atomic absorption using a hydride evolution method wherein the hydride (AsH_3) is evolved and passed through a heated quartz tube in the light path of an atomic absorption spectrophotometer. The method is described by Aslin (1976).

Molybdenum and vanadium are determined by atomic absorption spectroscopy using a nitrous oxide acetylene flame. A 0.5 gram sample is reacted with 1.5 mL concentrated HNO_3 at 90°C for 30 minutes. At this point, 0.5 mL concentrated HCl is added and the digestion continued at 90°C for an additional 90 minutes. After cooling, 8 mL of 1250 ppm Al solution are added and the sample solution diluted to 10 mL before aspiration.

Mercury is determined by the Hatch and Ott procedure with some modifications. The method is described by Jonasson *et al.* (1973). A 0.5 gram sample is reacted with 20 mL concentrated HNO_3 and 1 mL concentrated HCl in a test tube for 10 minutes at room temperature prior to two hours of digestion with mixing at 90°C in a hot water bath. After digestion, the sample solutions are cooled and diluted to 100 mL with metal-free water. The Hg present is reduced to the elemental state by the addition of 10 mL 10% w/v SnSO_4 in $\text{M H}_2\text{SO}_4$. The Hg vapour is then flushed by a stream of air into an absorption cell mounted in the light path of an atomic absorption spectrophotometer. Absorption measurements are made at 253.7 nm.

Loss-on-ignition is determined using a 500 mg sample. The sample, weighed into a 30 mL beaker, is placed in a cold muffle furnace and brought up to 500°C over a period of two to three hours. The sample is held at this temperature for four hours, then allowed to cool to room temperature for weighing.

Uranium is determined using a neutron activation method with delayed neutron counting. A detailed description of the method is provided by Boulanger *et al.* (1975). In brief, a 1 gram sample is weighed in a 7 dram polyethylene vial, capped and sealed. The irradiation is provided by the Slowpoke reactor with an operating flux of 10^{12} neutrons/cm²/second. The samples are pneumatically transferred from an automatic loader to the reactor, where each sample is irradiated for 60 seconds.

After irradiation, the sample is again transferred pneumatically to the counting facility where after a 10 second delay the sample is counted for 60 seconds with six BF_3 detector tubes embedded in paraffin. Following counting, the samples are automatically ejected into a shielded storage container. Calibration is carried out twice a day as a minimum, using natural materials of known uranium concentration.

Antimony is determined as described by Aslin (1976). A 500 mg sample is placed in a test tube; 3 mL concentrated HNO_3 and 9 mL concentrated HCl are added and the mixture allowed to stand overnight at room temperature. The mixture is heated slowly to 90°C and maintained at this temperature for at least 90 minutes. The solution is cooled and diluted to 10 mL. A one mL aliquot of this solution is diluted to 10 mL with 1.8 mL HCl. The antimony in an aliquot of this dilute solution is then determined by hydride evolution- atomic absorption spectrometry.

Fluorine is determined as described by Ficklin (1970). A 250 mg sample is sintered with 1 gram of a flux consisting of two parts by weight sodium carbonate and one part by weight potassium nitrate. The residue is then leached with water. The sodium carbonate is neutralized with 10 mL 10% (w/v) citric acid and the resulting solution diluted to 100 mL with water. The pH of the solution should range from 5.5 to 6.5. The fluoride content of the test solution is measured using a fluoride ion electrode. Standard solutions contain sodium carbonate and citric acid in the same quantities as the sample solution.

Tin in stream sediments is determined by heating a 200 mg sample with NH_4I : the sublimed SnI_4 is dissolved in acid and the tin determined by atomic absorption spectrometry after solvent extraction of the tin into methyl isobutyl ketone containing trioctylphosphine oxide (TOPO). The method is described by E.P. Welsch and T.T. Chao.

Water Analyses

Fluoride in water samples is determined using a fluoride electrode. Prior to measurement an aliquot of the sample is mixed with an equal volume of TISAB II buffer solution (total ionic strength adjustment buffer). The TISAB II buffer solution is prepared as follows: to 50 mL metal-free water add 57 mL glacial acetic acid, 58 g NaCl and 4 g CDTA (cyclohexylene dinitrilo tetraacetic acid). Stir to dissolve and cool to room temperature. Using a pH meter, adjust the pH between 5.0 and 5.5 by slowly adding 5 M NaOH solution. Cool and dilute to one liter in a volumetric flask. Detection limit = 20 ppb.

Hydrogen ion activity (pH) is measured with a combination glass-calomel electrode and a pH meter.

Uranium in waters is determined by a laser-induced fluorometric method using a Scintrex UA-3 uranium analyser. A complexing agent, known commercially as Fluran and composed of sodium pyrophosphate and sodium monophosphate (Hall, 1979) is added to produce the uranyl pyrophosphate species which fluoresces when exposed to the laser. Since organic matter in the sample can cause unpredictable behaviour, a standard addition method is used. Further, the reaction of uranium with Fluran can be delayed or sluggish; for this reason an

arbitrary 24 hour time delay between the addition of the Fluran and the actual reading is incorporated into this method. In practice, 500 μL of Fluran solution are added to a 5 mL sample and allowed to stand for 24 hours. At the end of this period fluorescence readings are made with the addition of 0.0, 0.2 and 0.4 ppb U. For high samples the additions are 0.0, 2.0 and 4.0 (20 μL aliquots of either 55 or 550 ppb U are used). All readings are taken against a sample blank.

Table 1 provides a summary of analytical data and methods.

PRESENTATION AND INTERPRETATION OF GOLD DATA

The following discussion reviews the format used to present the Au geochemical data and outlines some important points to consider when interpreting this data. This discussion is included in recognition of the special geochemical behaviour and mode of occurrence of Au in nature and the resultant difficulties in obtaining and analyzing samples which reflect the actual concentration level at a given site.

To correctly interpret Au geochemical data from regional stream sediment or lake sediment surveys requires an appreciation of the unique chemical and physical characteristics of Au and its mobility in the surficial environment. Key properties of gold that distinguish its geochemical behaviour from most other elements include (Harris, 1982):

- 1) Gold occurs most commonly in the native form which is chemically and physically resistant. A significant proportion of the metal is dispersed in micron-sized particulate form, and the high specific gravity of gold results in heterogeneous distribution, especially in stream sediment and clastic-rich (low LOI) lake sediment environments. Gold distribution appears to be more homogeneous in organic-rich fluvial and lake sediments.
- 2) Gold typically occurs at low concentrations in the ppb range. Whereas gold concentrations of only a few ppm may represent economic deposits, background levels encountered from stream and centre-lake sediments seldom exceed 10 ppb, and commonly are near the detection limit of 2 ppb.

These factors result in a particle sparsity effect wherein very low concentrations of gold are heterogeneously enriched in the surficial environment. Hence, a major problem facing the geochemist is to obtain a representative sample. In general, areas where concentrations of gold in sediments are low, and/or grain sizes of the gold present relatively high require proportionally larger samples to reduce the uncertainty between subsample analytical values and actual values. Conversely, as actual gold concentrations increase or grain size decreases, the number of gold particles to be shared in random subsamples increases and variability of results decreases (Clifton *et al.*, 1969; Harris, 1982). The limited amount of material collected during the rapid, reconnaissance-style regional surveys and the need to analyze for a broad spectrum of elements, precludes the use of a significantly large sample weight

for the gold analyses. Therefore, to obtain representative samples, grain size is reduced by sieving and ball milling of the dried sediments.

The following control methods are currently employed to evaluate and monitor the sampling and analytical variability which are inherent in the analysis of gold in geochemical media:

- (1) For each block of 20 samples:
 - (a) random insertion of a standard reference sample to control analytical accuracy and long-term precision;
 - (b) collection of a field duplicate (two samples from one site) to measure sampling variance;
 - (c) analysis of a second subsample (blind duplicate) from one sample to measure and control short-term precision.
- (2) For both stream and lake sediments, routine repeat analyses on a second subsample are performed for all samples having values that are statistically above approximately the 90th percentile of the total data set.
- (3) For lake sediments only, a routine repeat analysis on a second subsample is performed on those samples with LOI values below 10%, indicating a large clastic component. Ongoing studies suggest that the gold distribution in these samples is more likely to be variable than in samples with a higher LOI content.

The presentation of gold data, statistical treatment and the value map format are different than for other elements. Gold data listed in the open file may include initial analytical results, values determined from repeat analyses, together with sample weights and corresponding detection limits for all analyzed samples. The gold, statistical parameters and regional symbol-trend plots are determined using only the first analytical value. Gold values less than the detection limit are set to half that limit. On the value map, initial values are followed by a comma and a value obtained by a second analysis, where determined. Sample weights used can be found in the text. Following are possible variations in data presentation on a value map.

+ *	No data
+27	Single analysis
+27,14	Repeat analysis
+ <1	Single analysis, less than detection limit

TABLE 1. Summary of Analytical Data and Methods

ELEMENT	DETECTION LEVEL	METHOD
SEDIMENTS:		
Zn Zinc	2 ppm	AAS
Cu Copper	2 ppm	AAS
Pb Lead	2 ppm	AAS
Ni Nickel	2 ppm	AAS
Co Cobalt	2 ppm	AAS
Ag Silver	0.2 ppm	AAS
Mn Manganese	5 ppm	AAS
As Arsenic	1 ppm	HY-AAS
Mo Molybdenum	2 ppm	AAS
Fe Iron	0.02 pct	AAS
U Uranium	0.5 ppm	NADNC
Hg Mercury	10 ppb	CV-AAS
F Fluorine	20 ppm	AAS
V Vanadium	5 ppm	AAS
Cd Cadmium	0.2 ppm	AAS
Sb Antimony	0.2 ppm	HY-AAS
LOI Loss-on-ignition	1 pct	GRAV
Sn Tin	1 ppm	AAS
Na Sodium	0.02 pct	INAA
Sc Scandium	0.2 ppm	INAA
Cr Chromium	20 ppm	INAA
Fe Iron	0.2 pct	INAA
Co Cobalt	5 ppm	INAA
Ni Nickel	10 ppm	INAA
As Arsenic	0.5 ppm	INAA
Br Bromine	0.5 ppm	INAA
Rb Rubidium	5 ppm	INAA
Mo Molybdenum	1 ppm	INAA
Sb Antimony	0.1 ppm	INAA
Cs Cesium	0.5 ppm	INAA
Cs Barium	50 ppm	INAA
La Lanthanum	2 ppm	INAA
Ce Cerium	5 ppm	INAA
Sm Samarium	0.10 ppm	INAA
Eu Europium	1 ppm	INAA
Tb Terbium	0.5 ppm	INAA
Yb Ytterbium	2 ppm	INAA
Lu Lutetium	0.2 ppm	INAA
Hf Hafnium	1 ppm	INAA
Ta Tantalum	0.5 ppm	INAA
W Tungsten	1 ppm	INAA
Th Thorium	0.2 ppm	INAA
U Uranium	0.2 ppm	INAA
Wt Weight	0.01 g	-
Au Gold	2 ppb	INAA
WATERS:		
F Fluoride	20 ppb	ISE
pH Hydrogen ion activity	- -	GCM
U Uranium	0.05 ppb	LIF

AAS - atomic absorption spectrometry
 GCM - glass Calomel electrode and pH meter
 GRAV - gravimetry
 ISE - ion selective electrode
 LIF - laser-induced fluorescence
 NADNC - neutron activation, delayed neutron counting
 HY-AAS - atomic absorption using hydride evolution
 CV-AAS - cold vapour (flameless) atomic absorption

In summary, geochemical follow-up investigations for gold should be based on a careful consideration of all geological and geochemical information, and especially a careful appraisal of gold geochemical data and its variability. In some instances, prospective follow-up areas may be indirectly identified by pathfinder element associations in favourable geology, although a complementary gold response due to natural variability may be lacking. Once an anomalous area has been identified, field investigations should be designed to include detailed geochemical follow-up surveys and collection of large representative samples. Subsequent repeat subsample analyses will increase the reliability of results and permit a better understanding of natural variability which can then be used to improve sampling methods and interpretation.

FIELD DATA LEGEND

Table 2 describes the field and map information appearing on the following pages preceeding the analytical data for each sample site.

REFERENCES

- Aslin, G.E.M.** (1976) The determination of arsenic and antimony in geological materials by flameless atomic absorption spectrophotometry; *Journal of Geochemical Exploration*, Vol. 6, pp. 321-330.
- Boulanger, A., Evans, D.J.R. and Raby, B.F.** (1975) Uranium analysis by neutron activation delayed neutron counting; *Proceedings of the 7th Annual Symposium of Canadian Mineral Analysts*, Thunder Bay, Ontario, September 22-23, 1975.
- Clifton, H.E., Hunter, R.E., Swanson, F.J. and Phillips, R.L.** (1969) Sample size and meaningful gold analysis; *U.S. Geological Survey Professional Paper* 625-C.
- Ficklin, W.H.** (1970) A rapid method for the determination of fluoride in rocks and soils, using an ion selective electrode; *U.S. Geol. Surv. Paper* 700C, pp. C186-188.
- Garrett, R.G.** (1974) Field data acquisition methods for applied geochemical surveys at the Geological Survey of Canada; *Geol. Surv. Can. Paper* 74-52.
- Hall, G.E.M.** (1979) A study of the stability of uranium in waters collected from various geological environments in Canada; *in* *Current Research, Part A*, *Geol. Surv. Can. Paper* 79-1A, pp. 361-365.
- Harris, J.F.** (1982) Sampling and analytical requirements for effective use of geochemistry in exploration for gold; *in* *Levinson, A.A., Editor, Precious Metals in the Northern Cordillera*, proceedings of a symposium sponsored by the Association of Exploration Geochemists and the Cordilleran Section of the Geological Association of Canada, pp. 53-67.
- Jonasson, I.R., Lynch, J.J. and Trip, L.J.** (1973) Field and laboratory methods used by the Geological Survey of Canada in geochemical surveys; No. 12, *Mercury in Ores, Rocks, Soils, Sediments and Water*, *Geol. Surv. Can. Paper* 73-21.
- Welsch, E.P. and Chao, T.T.** (1976) Determination of trace amounts of tin in geological materials by atomic absorption spectrometry; *Anal. Chim. Acta.*, Vol. 82, pp. 337-342.

TABLE 2. Field Observations Legend

FIELD RECORD	DEFINITION	TEXT CODE
MAPSHEET	National Topographic System (NTS); lettered quadrangle (1:50 000 scale)	31M or 32D
SAMPLE ID	Remainder of sample number: Year of collection Field crew Sample sequence number	89 1 or 3 001-999
REP STAT	Replicate status; relationship of the sample to others within the survey: Routine sample site First of a duplicate pair Second of a duplicate pair	 00 10 20
UTM	Universal Transverse Mercator UTM co-ordinate system; digitized sample location co-ordinates	
ZN	Zone 7 to 22	
EASTING	UTM Easting in metres	
NORTHING	UTM Northing in metres	
ROCK UNIT	Major rock type of stream catchment area: PALEOZOIC LOWER AND MIDDLE SILURIAN Thornloe Formation: limestone, dolomite, sandstone Wabi Formation: limestone, shale MIDDLE AND UPPER ORDOVICIAN Dawson Point Formation: shale Farr Formation: limestone Bucke Formation: limestone, shale Guigues Formation: sandstone PRECAMBRIAN MIDDLE PRECAMBRIAN (PROTEROZOIC) Mafic Intrusive Rocks diabase, granophyre Huronian Supergroup Cobalt Group Lorrain Formation: quartzite, arkose Gowganda Formation: Coleman Member - conglomerate, arkose, greywacke, quartzite, argillite . EARLY PRECAMBRIAN (ARCHEAN) Felsic Intrusive Rocks quartz porphyry, quartz-feldspar porphyry, feldspar porphyry, granophyre, felsite; trondhemite, granodiorite, quartz monzonite syenite, monzonite, feldspar porphyry Metamorphosed Mafic and Ultramafic Rocks gabbro, diorite, lamprophyre peridotite, dunite, pyroxenite, serpentinite Metasediments conglomerate, greywacke, siltstone, slate, argillite greywacke, siltstone, slate, argillite, and minor pebble conglomerate Metavolcanics alkalic metavolcanics: trachyte, leucitic trachyte; flows, tuff, breccia felsic metavolcanics: pyroclastic rocks, flows intermediate and mafic volcanics: intermediate flows; intermediate pyroclastic rocks; mafic flows and pyroclastic rocks iron formation: and feruginous chert (occurs as members of stratigraphic units 1, 2, 4 and 5)	 STW ODFB PMI PHCL PHCG AFIQ AFIS AMM AMU AMC MMG AAM AFM AIMM AIF

FIELD RECORD	DEFINITION	TEXT CODE
ROCK AGE	Stratigraphic age of dominant rock type in catchment basin: Silurian Ordovician Proterozoic Archean	20 15 04 02
SAMPLE TYPE	Sample material collected: Stream bed sediment only Spring or sediment seep Heavy mineral concentrate Stream water only Natural groundwater, spring seep Simultaneous stream sediment and water Simultaneous spring or seep water and sediment	SedOnly SpgSedOnly HvMnCn Strm GrWat Sed/Water SpgSep/Sed
STREAM WIDTH	Stream width in decimetres	
STREAM DEPTH	Stream depth in decimetres	
SAMPLE CONT.	Contamination, human or natural: None Possible Probable Definite Mining activity Industrial sources Agricultural Domestic or household Forestry activities Burned areas	Possible Probable Definite Mining Industry Agricult Domestic Forestry Burn
BANK TYPE	Bank type; the general nature of the bank material adjacent to the sample site: Alluvial Colluvial (bare rock, residual or mountain soils) Glacial till Glacial outwash sediments Bare rock Talus scree Organic predominant (debris, peat, muskeg, swamp) ..	Alluv Colluv Till Outwash Bare Rk Tal/Scr Organic
WATER COLOUR	Water colour; the general colour and suspended load of the sampled water: Clear Brown transparent White cloudy Brown cloudy	Clear BnTrans WhCl'dy BnCl'dy
STREAM FLOW	Water flow rate: Stagnant Slow Moderate Fast Torrential	Stagnt Slow Modert Fast Torrmnt
SAMPLE COLOUR	Predominant sediment colour: Red-brown White-buff Black Yellow Green Grey, blue grey Pink Buff to brown Brown	Rd-Bn Wh-Bf Black Yellow Green Gy-Blu Pink Bf-Bn Brown

FIELD RECORD	DEFINITION	TEXT CODE
SAMPLE COMP.	<p>Sediment composition; description of the bulk mechanical composition of the collected sample on a scale of 1 to 3, the total of the column must add up to 3 or 4 or 5: Size fractions are divided as follows:</p> <p>Column 1 >0.125 mm (sand) Column 2 <0.125 mm (fines - organic silt, clay) Column 3 organic material</p> <p>Amount of size fraction: sum of amounts = 3 4 5</p> <p>Absent 0 0 0 0 Minor <33% 25% 20% 1 Medium 33-67% 50% 40% 2 Major >67% 75% 60% 3</p>	
BOTTOM PCPT	<p>Precipitate or stain; the presence of any coatings on pebbles, boulders or stream bottoms:</p> <p>None - Red-brown Rd-Bn White or buff Wh-Bf Black Black Yellow Yellow Green Green Grey Grey Pink Pink Buff to brown Bf-Bn</p>	
BANK PCPT	<p>Distinctive precipitate, stains or weathering on rocks in immediate area of catchment basin or stream bank:</p> <p>None - Red, brown (eg. Fe) Rd-Bn White, buff (eg. CO₃, Zn) Wh-Bf Black (e.g. Fe, Mn, sulphides) Black Yellow (e.g. Pb, U, Fe, Mo, REE) Yellow Green (Cu, Ni, U, Mo, As, Fe) Green Bluish (Zn, P) Blue Pink (Co, As) Pink</p>	
STREAM PHYSIOG	<p>General physiography of the drainage basin:</p> <p>Plain Plain Muskeg, swampland Swamp Peneplain, plateau Penpln Hilly, undulating Hill Mountainous, mature Moun/M Mountainous, youthful (precipitous) Moun/Y</p>	
STREAM DRAINAGE	<p>Drainage pattern:</p> <p>Poorly defined, haphazard Poor Dendritic Dendrc Herringbone Herrbn Rectangular Rectln Trellis Trellis Discontinuous shield type (chains of lakes) Discnt Basinal Closed Others Other</p>	
STREAM TYPE	<p>Stream type:</p> <p>Undefined Undfnd Permanent, continuous Permnt Intermittent, seasonal Intermitt Re-emergent, discontinuous Re-emerg</p>	

FIELD RECORD	DEFINITION	TEXT CODE
STREAM CLASS	Classification based on proximity to source: Undefined Primary Secondary Tertiary Quaternary	Undfnd Pri'ary Sec'ary Ter'ary Qua'ary
STREAM SOURCE	Source of water: Unknown Groundwater Snow melt or spring run-off Recent precipitation Ice-cap or glacier meltwater	Unknown Ground Sp'gMelt RecRain Glacier
Miscellaneous	Missing data in any field	*

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D
Field Data

Map Sheet	Sample ID	Rep Stat	UTM Zn	UTM Easting	UTM Northing	Rock Unit	Age	Sample Type	Stream Width	Stream Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour	Sample Comp	Bottom Pcpt	Bank Pcpt	Stream Physiol.	Drainage	Type	Stream Class	Source
031M	891002	00	17	601097	5310942	PHCG	04	Sed/Water	10	1	Possible	Alluv	Clear	Slow	Rd-Bn	212	-	-	Hill	Discont	Intermit	Pri'ary	Ground
031M	891003	00	17	600531	5309274	PHCG	04	Sed/Water	33	5	-	Alluv	Clear	Modert	Gy-Blu	221	-	-	Hill	Poor	Permt	Sec'ary	Ground
031M	891004	00	17	599947	5306706	PHCG	04	Sed/Water	9	2	Probable	Alluv	Clear	Modert	Gy-Blu	311	-	-	Hill	Discont	Permt	Pri'ary	Ground
031M	891005	00	17	598661	5304588	AIHM	02	SedOnly	-	-	-	Colluv	Clear	Modert	Rd-Bn	022	-	-	Hill	Poor	Intermit	Pri'ary	Unknown
031M	891006	00	17	596489	5301964	PHCG	04	Sed/Water	12	2	Possible	Alluv	Clear	Modert	Rd-Bn	013	-	-	Hill	Discont	Permt	Pri'ary	Ground
031M	891007	00	17	596858	5303353	PHCG	04	Sed/Water	30	6	-	Outwash	Clear	Modert	Gy-Blu	131	-	-	Moun/Y	Discont	Permt	Sec'ary	Ground
031M	891008	00	17	594748	5303739	PHCG	04	Sed/Water	15	5	-	Outwash	Clear	Fast	Gy-Blu	131	-	-	Hill	Discont	Permt	Sec'ary	Ground
031M	891009	00	17	589453	5309217	AIHM	02	Sed/Water	1	1	-	Outwash	Clear	Slow	Wh-Bf	130	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891010	00	17	589561	5305085	AIHM	02	Sed/Water	10	1	-	Outwash	Clear	Stagnt	Gy-Blu	031	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891011	00	17	593462	5306433	AIHM	02	Sed/Water	2	1	-	Outwash	BnTrans	Slow	Wh-Bf	311	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891012	00	17	593610	5306493	AIHM	02	Sed/Water	20	15	-	Outwash	Clear	Fast	Gy-Blu	221	-	-	Hill	Discont	Permt	Sec'ary	Ground
031M	891013	00	17	593461	5306103	AIHM	02	Sed/Water	3	1	-	Outwash	Clear	Slow	Wh-Bf	131	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891014	00	17	591626	5304195	PHCG	04	SedOnly	-	-	-	Outwash	Clear	Slow	Wh-Bf	210	-	-	Hill	Dendrc	Intermit	Pri'ary	Unknown
031M	891015	10	17	591269	5304103	AIHM	02	Sed/Water	4	1	-	Outwash	Clear	Slow	Gy-Blu	310	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891016	20	17	591269	5304103	AIHM	02	Sed/Water	4	1	-	Outwash	Clear	Slow	Gy-Blu	310	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891017	00	17	593709	5300058	PHI	04	Sed/Water	9	4	-	Outwash	Clear	Slow	Gy-Blu	022	-	-	Hill	Poor	Permt	Pri'ary	Ground
031M	891019	00	17	596116	5297069	PHI	04	Sed/Water	14	2	Possible	Outwash	Clear	Modert	Gy-Blu	221	-	-	Hill	Discont	Permt	Pri'ary	Ground
031M	891020	00	17	595810	5296920	PHI	04	Sed/Water	2	1	Possible	Outwash	Clear	Modert	Gy-Blu	221	-	-	Hill	Poor	Intermit	Pri'ary	Ground
031M	891022	00	17	597323	5298467	PHI	04	Sed/Water	25	12	-	Organic	Clear	Slow	Rd-Bn	013	-	-	Swamp	Discont	Permt	Pri'ary	Ground
031M	891023	00	17	596994	5298484	PHI	04	Sed/Water	20	3	-	Outwash	Clear	Slow	Rd-Bn	122	-	-	Swamp	Discont	Permt	Pri'ary	Ground
031M	891025	10	17	604690	5300103	PHI	04	Sed/Water	12	7	-	Outwash	Clear	Slow	Gy-Blu	211	-	-	Hill	Poor	Intermit	Pri'ary	Ground
031M	891026	20	17	604690	5300103	PHI	04	Sed/Water	12	7	-	Outwash	Clear	Slow	Gy-Blu	211	-	-	Hill	Poor	Intermit	Pri'ary	Ground
031M	891027	00	17	595539	5294491	PHI	04	Sed/Water	12	2	Possible	Outwash	Clear	Modert	Gy-Blu	211	-	-	Plain	Discont	Permt	Pri'ary	Ground
031M	891028	00	17	595777	5294657	PHI	04	Sed/Water	2	2	Possible	Outwash	Clear	Modert	Gy-Blu	311	-	-	Plain	Poor	Permt	Pri'ary	Ground
031M	891029	00	17	607000	5302410	PHCG	04	Sed/Water	13	2	-	Outwash	Clear	Stagnt	Rd-Bn	311	-	-	Hill	Poor	Intermit	Pri'ary	Rec Rain
031M	891030	00	17	607613	5302666	PHCG	04	Sed/Water	27	9	-	Outwash	BnTrans	Slow	Gy-Blu	031	-	-	Hill	Dendrc	Permt	Sec'ary	Ground
031M	891031	00	17	608430	5304755	PHCG	04	Sed/Water	4	2	-	Outwash	Clear	Slow	Rd-Bn	031	-	-	Hill	Discont	Intermit	Pri'ary	Ground
031M	891032	00	17	607694	5305739	PHCG	04	Sed/Water	1	1	-	Outwash	Clear	Modert	Gy-Blu	211	-	-	Hill	Poor	Intermit	Pri'ary	Ground
031M	891033	00	17	607389	5306012	PHCG	04	Sed/Water	12	3	-	Outwash	Clear	Modert	Gy-Blu	121	-	-	Hill	Poor	Permt	Pri'ary	Ground
031M	891034	00	17	607532	5307085	PHCG	04	Sed/Water	10	2	-	Outwash	Clear	Modert	Gy-Blu	031	-	-	Hill	Poor	Permt	Pri'ary	Ground
031M	891035	00	17	607048	5312948	PHCG	04	Sed/Water	8	1	Possible	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Discont	Permt	Pri'ary	Ground
031M	891036	00	17	607199	5312950	PHCG	04	Sed/Water	10	1	Possible	Outwash	Clear	Modert	Rd-Bn	310	-	-	Hill	Discont	Permt	Pri'ary	Ground
031M	891037	00	17	607352	5311546	PHCG	04	Sed/Water	4	2	Forestry	Outwash	BnTrans	Slow	Rd-Bn	122	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891038	00	17	606664	5311531	PHCG	04	Sed/Water	13	4	Forestry	Alluv	Clear	Slow	Rd-Bn	311	-	-	Hill	Discont	Permt	Pri'ary	Sp'ghelt
031M	891039	00	17	606836	5311641	PHCG	04	Sed/Water	8	2	Forestry	Till	Clear	Slow	Gy-Blu	221	-	-	Hill	Discont	Permt	Sec'ary	Ground
031M	891040	00	17	606167	5311477	PHCG	04	Sed/Water	5	3	Forestry	Outwash	Clear	Slow	Gy-Blu	221	-	-	Hill	Discont	Intermit	Pri'ary	Ground
031M	891042	00	17	605555	5309757	PHCG	04	Sed/Water	20	6	Forestry	Outwash	Clear	Modert	Gy-Blu	131	-	-	Hill	Discont	Permt	Sec'ary	Ground
031M	891043	00	17	605399	5309676	PHCG	04	Sed/Water	8	3	Forestry	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Intermit	Pri'ary	Ground
031M	891045	00	17	604050	5309105	PHCG	04	Sed/Water	60	10	-	Outwash	Clear	Slow	Gy-Blu	032	-	-	Hill	Dendrc	Permt	Sec'ary	Ground
031M	891046	00	17	604250	5309248	PHCG	04	Sed/Water	22	6	Forestry	Outwash	Clear	Slow	Gy-Blu	031	-	-	Hill	Dendrc	Permt	Sec'ary	Ground

Variable:		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	Sn	
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit:		2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	1	
Analytical Method:		AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	AAS	
031M	891002	00	169	44	30	124	22	<	1593	4	2	3.38	23	32.7	1.8	252	37	1.7	0.2	6
031M	891003	00	21	6	3	27	5	0.4	195	<	<	1.20	52	2.4	0.7	145	14	0.3	<	2
031M	891004	00	34	25	7	57	7	0.3	184	<	<	1.32	22	11.0	1.4	123	19	<	1.2	<
031M	891005	00	686	102	41	121	25	0.5	2082	8	3	2.76	23	37.1	2.1	152	29	1.8	0.4	10
031M	891006	00	198	71	451	47	158	0.6	>>	98	6	4.27	29	66.2	1.3	104	29	5.6	5.0	2
031M	891007	00	37	10	4	30	8	0.4	400	1	<	1.86	22	4.0	0.9	175	20	<	<	5
031M	891008	00	83	15	8	42	15	0.2	1657	1	<	2.59	25	7.7	1.1	263	32	<	<	8
031M	891009	00	67	26	10	42	14	<	743	1	2	3.24	36	4.7	1.2	304	36	<	<	8
031M	891010	00	46	19	7	30	9	0.2	488	1	<	2.28	25	4.8	1.2	260	29	<	<	5
031M	891011	00	38	8	5	18	5	0.3	209	<	<	1.50	34	4.7	1.0	250	19	<	<	3
031M	891012	00	46	10	8	25	8	0.5	297	<	<	1.75	22	6.2	1.1	170	21	<	<	2
031M	891013	00	54	14	5	29	10	<	431	<	2	2.16	11	4.4	1.0	283	29	<	<	2
031M	891014	00	25	11	5	21	6	0.5	278	<	<	1.84	40	4.0	1.1	190	24	<	<	3
031M	891015	10	18	8	3	14	4	<	300	<	<	1.67	18	1.7	0.8	350	21	<	<	2
031M	891016	20	20	9	4	18	6	0.2	319	<	<	1.73	29	2.3	1.0	185	25	<	<	2
031M	891017	00	80	21	9	43	14	<	1623	1	2	3.43	36	11.3	1.8	327	35	<	<	3
031M	891019	00	60	22	7	43	12	0.2	666	1	<	2.90	25	5.3	1.4	290	41	<	<	5
031M	891020	00	25	8	2	23	6	0.2	309	<	<	1.76	31	2.5	0.9	174	23	<	<	6
031M	891022	00	95	97	21	80	21	0.2	1052	9	3	2.70	14	70.3	7.9	95	30	0.8	0.3	6
031M	891023	00	95	24	17	55	16	0.3	968	2	2	2.66	25	21.3	2.2	331	33	0.5	<	3
031M	891025	10	70	14	6	30	12	0.4	461	1	<	2.32	<	6.7	1.2	280	32	<	0.2	4
031M	891026	20	54	10	7	26	9	<	438	<	2	2.16	<	4.8	1.0	211	26	<	<	2
031M	891027	00	34	11	4	29	8	<	492	<	2	1.73	27	2.9	1.1	210	29	<	<	6
031M	891028	00	31	8	3	26	5	0.4	581	<	<	1.80	<	4.0	1.0	240	21	<	<	4
031M	891029	00	87	16	9	35	13	0.2	696	1	<	2.89	<	7.1	1.6	285	37	<	<	2
031M	891030	00	86	19	8	37	15	0.4	791	1	2	2.98	<	7.3	1.5	328	39	<	0.2	2
031M	891031	00	98	28	11	41	18	<	1229	1	2	3.37	<	12.9	3.5	249	40	0.2	<	7
031M	891032	00	119	21	11	46	25	0.2	1714	1	2	3.14	<	10.1	2.1	346	41	0.7	<	3
031M	891033	00	108	17	10	39	20	<	1636	1	2	2.70	32	8.1	1.8	348	40	0.5	<	5
031M	891034	00	109	20	11	44	24	0.5	1415	1	2	3.19	43	8.9	1.9	305	41	0.4	<	4
031M	891035	00	90	32	13	48	25	0.2	991	2	2	4.14	18	8.1	2.1	293	55	<	0.3	4
031M	891036	00	53	21	11	36	13	0.2	567	4	2	3.19	122	7.5	1.3	190	41	<	0.2	5
031M	891037	00	217	25	22	52	22	<	522	3	3	4.49	<	24.8	4.7	306	47	0.9	0.2	4
031M	891038	00	104	22	9	43	24	<	698	2	2	3.44	25	8.9	2.4	342	51	0.3	<	5
031M	891039	00	122	23	10	51	31	<	1331	2	2	2.62	115	8.1	2.3	296	48	0.7	0.2	8
031M	891040	00	96	36	14	54	25	0.4	1431	2	2	4.52	173	9.2	2.4	396	62	<	<	5
031M	891042	00	99	31	11	52	24	<	1137	1	2	3.70	29	7.7	2.4	334	51	0.2	<	9
031M	891043	00	92	29	13	49	22	<	1532	2	2	3.95	18	12.1	2.9	462	57	<	0.2	3
031M	891045	00	96	29	11	48	19	<	1103	1	2	3.47	13	9.8	2.7	381	53	<	0.2	3
031M	891046	00	97	39	16	56	23	<	1613	5	2	4.34	22	8.9	1.7	453	58	<	0.2	6

Analytical Data

Variable:		Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb
Units:		pct	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit:		0.02	0.2	20	0.2	5	10	0.5	0.5	5	1	0.1
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
031M	891002	00	1.00	9.0	220	2.8	25	130	7.2	33.0	65	< 0.4
031M	891003	00	2.24	8.2	220	1.8	8	51	1.1	1.7	51	< 0.1
031M	891004	00	2.00	9.0	300	1.8	13	76	1.6	6.4	42	< 0.2
031M	891005	00	1.00	13.0	140	2.8	34	130	14.0	66.7	41	< 0.4
031M	891006	00	0.31	3.8	78	4.0	210	27	154.0	75.9	16	3 2.5
031M	891007	00	2.04	9.0	170	2.2	12	42	1.2	2.1	65	< 0.1
031M	891008	00	1.80	10.0	150	2.8	20	64	2.1	4.3	73	< 0.2
031M	891009	00	1.90	10.0	110	3.0	20	54	2.2	1.9	97	< 0.1
031M	891010	00	2.02	9.1	120	2.6	12	41	1.5	2.0	82	< 0.1
031M	891011	00	2.00	7.9	130	1.9	12	28	1.2	2.0	72	<
031M	891012	00	1.70	7.6	91	1.9	12	47	1.8	2.0	61	< 0.1
031M	891013	00	1.80	8.5	120	2.5	15	48	1.6	1.7	86	< 0.1
031M	891014	00	2.04	8.5	120	2.3	12	37	1.4	2.0	76	< 0.1
031M	891015	10	2.12	8.2	150	2.4	11	32	0.9	1.6	69	< 0.1
031M	891016	20	2.15	8.6	190	2.7	9	30	1.2	1.8	68	< 0.1
031M	891017	00	1.60	11.0	150	3.3	17	58	2.4	4.4	97	< 0.2
031M	891019	00	2.35	12.0	200	3.4	24	64	2.3	2.3	110	< 0.2
031M	891020	00	2.06	7.9	150	2.0	10	41	1.2	1.2	58	< 0.1
031M	891022	00	0.29	7.5	140	2.0	22	90	15.0	24.0	26	2 0.5
031M	891023	00	1.30	8.5	280	2.5	17	78	3.9	7.0	63	< 0.2
031M	891025	10	2.04	11.0	160	2.7	19	53	2.8	2.4	84	< 0.2
031M	891026	20	2.21	10.0	130	2.5	17	41	1.9	2.0	77	< 0.2
031M	891027	00	2.14	9.0	200	2.3	12	46	1.8	1.5	65	< 0.1
031M	891028	00	2.24	10.0	210	2.3	12	36	1.3	2.3	64	< 0.1
031M	891029	00	1.90	12.0	140	3.3	17	51	1.8	2.4	87	< 0.2
031M	891030	00	1.90	12.0	130	3.6	21	49	2.4	1.6	110	< 0.2
031M	891031	00	1.80	11.0	120	3.5	26	56	3.1	4.6	87	< 0.2
031M	891032	00	1.80	11.0	140	3.5	32	44	2.6	2.9	93	< 0.2
031M	891033	00	2.00	11.0	130	3.3	26	47	2.6	2.7	99	< 0.2
031M	891034	00	2.01	11.0	130	3.5	32	59	3.3	4.6	93	< 0.2
031M	891035	00	1.30	9.3	120	3.3	26	53	2.8	5.8	86	< 0.1
031M	891036	00	1.70	8.5	140	3.0	17	55	6.0	8.1	61	< 0.2
031M	891037	00	1.20	10.0	110	3.8	27	65	6.4	13.0	85	< 0.2
031M	891038	00	1.90	12.0	140	3.8	32	59	3.9	2.6	94	< 0.2
031M	891039	00	2.03	13.0	150	4.0	37	68	3.5	3.6	110	< 0.2
031M	891040	00	1.80	14.0	150	4.9	37	64	4.4	2.6	120	< 0.2
031M	891042	00	1.90	14.0	150	4.5	33	56	3.4	2.7	110	< 0.2
031M	891043	00	1.70	14.0	150	4.8	30	65	4.9	3.4	130	< 0.2
031M	891045	00	1.70	13.0	140	4.2	27	57	2.6	3.2	120	< 0.2
031M	891046	00	1.60	11.0	140	3.8	29	65	10.0	2.9	130	< 0.3

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Variable:		Analytical Data																F-W		U-W		
Units:		Cs	Ba	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Th	U	Au	Wt	Au1	Au1/Wt	pH	F-W	U-W
Detection Limit:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	-	ppb	ppb
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	0.01	1	0.01	-	20	0.05
031M	891002	00	2.1	570	20	44	3.3	<	<	<	2	<	<	5.7	1.4	<2	16.03	-	-	6.9	50.	<
031M	891003	00	1.0	500	11	27	2.5	<	<	0.2	5	0.8	<	3.0	0.7	5	27.89	-	-	7.2	50.	<
031M	891004	00	0.7	430	16	30	3.2	<	<	0.2	3	0.5	<	2.7	1.4	5	24.15	-	-	7.3	60.	<
031M	891005	00	2.7	380	50	110	7.9	1	0.9	0.4	2	<	<	4.0	1.8	<2	19.73	-	-	ns	ns	ns
031M	891006	00	0.5	310	14	37	1.9	<	<	<	<	<	<	1.9	1.0	5	14.27	6	14.11	5.6	40.	<
031M	891007	00	1.6	500	14	32	2.8	<	<	<	4	0.6	<	4.0	0.9	2	25.38	-	-	7.4	50.	<
031M	891008	00	2.3	560	21	53	3.7	<	<	0.3	4	0.6	<	6.3	1.2	3	22.92	-	-	7.2	60.	<
031M	891009	00	2.9	660	26	60	4.3	<	<	0.2	4	0.8	<	8.3	1.1	<2	24.28	-	-	7.7	70.	0.46
031M	891010	00	1.7	590	19	42	3.5	<	0.7	<	4	0.6	<	6.1	1.1	<2	24.31	-	-	7.9	90.	1.83
031M	891011	00	1.5	550	16	36	3.2	<	0.5	0.2	6	0.7	<	6.1	0.9	<2	26.00	-	-	6.5	60.	<
031M	891012	00	1.5	490	14	32	2.9	<	<	<	4	<	<	4.4	1.0	3	23.82	-	-	6.5	50.	<
031M	891013	00	2.7	710	19	43	3.9	<	0.5	<	5	0.7	<	6.9	1.1	<2	27.51	-	-	6.7	40.	<
031M	891014	00	1.8	570	18	40	3.4	<	0.5	0.2	4	0.7	<	5.4	1.0	3	24.41	-	-	ns	ns	ns
031M	891015	10	1.1	540	16	37	3.2	<	<	<	5	0.7	<	5.1	0.8	41	23.59	3	18.75	7.5	50.	0.25
031M	891016	20	1.0	520	19	38	3.6	1	0.5	0.3	7	0.9	<	6.4	1.0	12	26.47	180	21.33	7.5	50.	0.19
031M	891017	00	2.8	600	28	58	4.5	1	0.5	0.2	4	0.8	<	8.3	1.7	<2	17.97	-	-	7.1	60.	<
031M	891019	00	3.1	750	29	57	4.8	<	<	0.3	4	0.8	<	9.1	1.6	3	26.01	-	-	7.3	70.	<
031M	891020	00	1.0	470	12	26	2.6	<	<	<	3	0.6	<	3.4	0.9	<2	22.99	-	-	7.7	60.	0.38
031M	891022	00	1.1	200	33	68	4.8	1	<	0.2	<	<	<	4.2	7.1	<2	15.34	<2	14.81	6.9	60.	<
031M	891023	00	2.7	480	17	39	3.0	<	<	<	3	<	<	6.2	2.2	8	18.43	-	-	6.7	50.	<
031M	891025	10	2.1	560	17	36	3.2	<	<	0.3	5	0.8	<	5.8	1.3	<2	23.81	-	-	6.6	60.	<
031M	891026	20	1.7	530	15	31	2.8	1	<	0.2	3	<	<	4.8	1.1	<2	25.23	-	-	6.6	60.	<
031M	891027	00	1.4	550	18	39	3.2	<	0.6	0.2	5	<	<	5.6	1.0	<2	21.59	-	-	7.4	70.	0.07
031M	891028	00	1.3	510	17	40	3.3	<	<	0.2	4	0.8	<	4.0	1.1	<2	29.04	-	-	7.4	80.	<
031M	891029	00	3.2	620	23	52	3.8	<	<	0.2	4	0.8	<	8.5	1.5	<2	13.03	-	-	6.9	80.	<
031M	891030	00	2.9	620	25	57	4.2	<	0.7	0.3	4	0.8	<	9.0	1.5	<2	15.98	-	-	6.8	70.	<
031M	891031	00	3.1	610	29	64	4.8	<	<	0.2	3	0.7	1	8.3	3.4	<2	17.51	-	-	6.8	100.	<
031M	891032	00	2.8	650	30	75	4.8	<	0.6	0.3	3	0.9	<	9.2	2.0	<2	14.79	-	-	7.2	80.	<
031M	891033	00	2.9	610	23	53	3.9	<	0.6	<	3	0.9	<	8.1	1.5	4	16.76	-	-	6.9	70.	<
031M	891034	00	3.2	690	29	64	4.6	<	0.7	0.3	3	0.6	1	8.5	1.9	<2	18.41	-	-	6.7	80.	<
031M	891035	00	3.2	570	19	49	3.7	<	<	<	2	0.8	<	9.1	1.6	<2	21.42	-	-	5.5	60.	<
031M	891036	00	1.8	510	12	29	2.9	<	<	<	4	0.6	<	5.6	1.4	4	28.82	-	-	5.0	50.	<
031M	891037	00	4.2	550	18	35	2.9	<	<	<	2	0.7	<	7.4	4.4	4	10.14	-	-	6.8	40.	<
031M	891038	00	3.2	640	29	71	4.7	<	0.6	0.3	4	0.8	<	10.0	2.3	<2	23.47	-	-	6.9	60.	0.11
031M	891039	00	3.1	660	30	70	4.7	1	0.6	0.3	3	0.9	<	10.0	2.4	<2	18.05	-	-	6.8	50.	<
031M	891040	00	4.9	780	43	110	6.0	<	0.7	0.3	3	0.7	2	14.0	2.4	<2	11.83	-	-	7.6	60.	0.56
031M	891042	00	4.1	710	38	94	5.7	<	0.8	0.4	4	1.0	2	12.0	2.4	<2	20.80	-	-	6.9	60.	<
031M	891043	00	4.3	670	50	120	7.0	4	0.8	0.3	3	0.9	<	13.0	2.7	<2	19.65	-	-	7.7	80.	0.63
031M	891045	00	4.0	680	42	99	6.2	1	0.7	0.4	4	1.0	<	12.0	3.0	<2	20.40	-	-	7.2	90.	<
031M	891046	00	4.4	740	35	77	5.4	<	0.8	<	2	0.8	<	13.0	1.7	<2	18.86	-	-	7.2	110.	<

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D
Field Data

Map Sheet	Sample ID	Sample Rep Stat	UTM Zn Easting	UTM Northing	Rock Unit Age	Sample Type	Stream Width Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour Comp	Bottom Pcpt	Bank Pcpt	Stream Physiog. Drainage	Type	Stream Class	Source
031M	891047	00	17 594492	5303772	PHCG 04	Sed/Water	23 6	-	Outwash	Clear	Modert	Gy-Blu	-	-	Hill	Discnt	Sec'ary	Ground
031M	891048	00	17 593971	5303191	PHCG 04	Sed/Water	3 3	Possible	Outwash	Clear	Slow	Gy-Blu	122	-	Hill	Discnt	Pri'ary	Ground
031M	891049	00	17 592751	5304017	PHCG 04	Sed/Water	4 2	-	Outwash	Clear	Slow	Rd-Bn	131	-	Moun/Y	Discnt	Pri'ary	Ground
031M	891050	10	17 596171	5310723	AIHM 02	Sed/Water	11 10	-	Alluv	Clear	Slow	Rd-Bn	121	-	Hill	Discnt	Pri'ary	Ground
031M	891051	20	17 596171	5310723	AIHM 02	Sed/Water	11 10	-	Alluv	Clear	Slow	Rd-Bn	121	-	Hill	Discnt	Pri'ary	Ground
031M	891052	00	17 596307	5310747	AIHM 02	Sed/Water	3 1	-	Outwash	Clear	Slow	Gy-Blu	121	-	Hill	Discnt	Pri'ary	Ground
031M	891053	00	17 597516	5312142	AFM 02	Sed/Water	40 3	Possible	Alluv	Clear	Modert	Rd-Bn	031	-	Hill	Discnt	Sec'ary	Ground
031M	891054	00	17 595988	5314836	AFIQ 02	Sed/Water	3 1	-	Outwash BnTrans	Clear	Slow	Rd-Bn	121	-	Hill	Discnt	Pri'ary	Ground
031M	891055	00	17 598990	5312081	AIHM 04	Sed/Water	12 5	-	Outwash	Clear	Modert	Gy-Blu	310	-	Hill	Dendrc	Sec'ary	Ground
031M	891056	00	17 598685	5311998	PHCG 04	Sed/Water	40 7	-	Outwash	Clear	Modert	Gy-Blu	131	-	Hill	Discnt	Sec'ary	Ground
031M	891057	00	17 601073	5302466	PHCG 04	Sed/Water	4 1	-	Outwash	Clear	Slow	Wh-Bf	310	-	Hill	Poor	Pri'ary	Ground
031M	891058	00	17 602522	5302754	PHCG 04	Sed/Water	4 2	-	Outwash	Clear	Slow	Wh-Bf	310	-	Hill	Poor	Pri'ary	Ground
031M	891059	00	17 596415	5300838	PHCG 04	Sed/Water	3 1	-	Outwash	Clear	Slow	Wh-Bf	310	-	Hill	Discnt	Pri'ary	Ground
031M	891060	00	17 596153	5292455	PMI 04	Sed/Water	10 1	-	Outwash	Clear	Modert	Gy-Blu	130	-	Hill	Dendrc	Pri'ary	Ground
031M	891062	00	17 595516	5293431	PMI 04	Sed/Water	30 2	Probable	Outwash	Clear	Modert	Gy-Blu	130	-	Hill	Dendrc	Sec'ary	Ground
031M	891063	00	17 594909	5293297	PMI 04	Sed/Water	4 1	Probable	Outwash	Clear	Modert	Gy-Blu	130	-	Hill	Dendrc	Pri'ary	Ground
031M	891064	00	17 591180	5296145	PMI 04	Sed/Water	20 3	Possible	Outwash	Clear	Modert	Gy-Blu	130	-	Hill	Dendrc	Sec'ary	Ground
031M	891065	00	17 590370	5296520	PMI 04	Sed/Water	2 1	-	Outwash	Clear	Slow	Gy-Blu	130	-	Hill	Dendrc	Pri'ary	Ground
031M	891066	00	17 589933	5298652	PMI 04	Sed/Water	4 1	-	Outwash	Clear	Modert	Gy-Blu	130	-	Hill	Dendrc	Sec'ary	Ground
031M	891067	10	17 604380	5308433	PHCG 04	Sed/Water	3 1	-	Outwash	Clear	Slow	Gy-Blu	031	-	Hill	Poor	Pri'ary	Ground
031M	891068	20	17 604380	5308433	PHCG 04	Sed/Water	3 1	-	Outwash	Clear	Slow	Gy-Blu	031	-	Hill	Poor	Pri'ary	Ground
031M	891069	00	17 604484	5308302	PHCG 04	Sed/Water	20 10	Possible	Outwash	*	*	Gy-Blu	131	-	Hill	Poor	Pri'ary	Ground
031M	891070	00	17 606445	5308960	PHCG 04	Sed/Water	2 1	Possible	Outwash BnTrans	Clear	Slow	Rd-Bn	031	-	Hill	Dendrc	Pri'ary	Ground
031M	891071	00	17 606562	5308948	PHCG 04	Sed/Water	25 10	-	Outwash	Clear	Slow	Gy-Blu	131	-	Hill	Dendrc	Sec'ary	Ground
031M	891072	00	17 591605	5297630	PMI 04	Sed/Water	3 1	Probable	Outwash	Clear	Slow	Gy-Blu	220	-	Hill	Dendrc	Pri'ary	Ground
031M	891073	00	17 593717	5297803	PMI 04	Sed/Water	20 2	-	Outwash BnTrans	Clear	Modert	Gy-Blu	310	-	Hill	Poor	Sec'ary	Ground
031M	891075	00	17 593261	5309759	AIHM 02	Sed/Water	8 3	-	Organic	Clear	Slow	Rd-Bn	013	-	Hill	Discnt	Pri'ary	Ground
031M	891076	00	17 595271	5305852	AIHM 02	Sed/Water	8 3	Forestry	Outwash	Clear	Slow	Gy-Blu	130	-	Hill	Discnt	Pri'ary	Ground
031M	891077	00	17 595088	5306017	AIHM 02	Sed/Water	12 3	Possible	Alluv	Clear	Slow	Gy-Blu	130	-	Hill	Discnt	Pri'ary	Ground
031M	891078	00	17 594784	5305945	AIHM 02	Sed/Water	5 4	Possible	Alluv	Clear	Slow	Gy-Blu	130	-	Hill	Discnt	Pri'ary	Ground
031M	891079	00	17 604640	5316620	PHCG 04	Sed/Water	3 1	-	Organic BnTrans	Clear	Stagnt	Rd-Bn	013	-	Hill	Discnt	Sec'ary	Ground
031M	891080	00	17 604578	5299684	PMI 04	Sed/Water	4 2	Possible	Outwash	Clear	Modert	Gy-Blu	121	-	Hill	Dendrc	Pri'ary	Ground
031M	891082	00	17 601141	5297901	PMI 04	Sed/Water	24 3	Possible	Outwash	Clear	Slow	Rd-Bn	221	-	Hill	Discnt	Sec'ary	Ground
031M	891083	10	17 600964	5295245	PMI 04	Sed/Water	35 12	-	Outwash	Clear	Slow	Gy-Blu	211	-	Hill	Discnt	Sec'ary	Ground
031M	891084	20	17 600964	5295245	PMI 04	Sed/Water	35 12	-	Outwash	Clear	Slow	Gy-Blu	211	-	Hill	Discnt	Sec'ary	Ground
031M	891085	00	17 604870	5295472	PMI 04	Sed/Water	45 10	-	Alluv	Clear	Slow	Rd-Bn	211	-	Swamp	Dendrc	Ter'ary	Ground
031M	891086	00	17 604697	5295410	PMI 04	Sed/Water	6 3	-	Organic BnTrans	Clear	Slow	Rd-Bn	022	-	Swamp	Poor	Pri'ary	Ground

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 0320 Analytical Data

[illegible]

Variable:
Units:
Detection Limit:
Analytical Method:

	Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb
	pct	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.02	0.2	20	0.2	5	10	0.5	0.5	5	1	0.1
	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
031M 891047 00	2.10	8.1	130	2.0	11	45	1.1	1.8	61	<	0.1
031M 891048 00	1.50	11.0	170	3.8	26	66	2.6	4.5	100	<	0.2
031M 891049 00	2.24	7.8	110	2.6	10	23	3.0	4.3	58	<	0.2
031M 891050 10	2.01	10.0	310	2.6	15	60	2.1	3.9	61	<	0.2
031M 891051 20	1.90	10.0	280	2.5	14	65	2.2	4.0	54	<	0.2
031M 891052 00	1.90	12.0	300	3.7	22	64	2.7	2.2	84	<	0.2
031M 891053 00	2.10	9.5	180	2.3	13	55	2.2	4.5	66	<	0.2
031M 891054 00	<	<	160	<	<	<	<	<	<	<	<
031M 891055 00	2.17	8.4	280	1.8	10	54	1.1	1.2	47	<	0.1
031M 891056 00	2.13	10.0	190	2.5	13	56	1.3	2.0	66	<	0.1
031M 891057 00	1.90	11.0	240	2.9	15	46	2.2	4.3	69	<	0.2
031M 891058 00	1.40	10.0	160	3.6	28	64	5.9	7.4	85	<	0.3
031M 891059 00	2.28	9.3	260	2.2	13	41	1.4	1.6	63	<	0.1
031M 891060 00	2.26	10.0	220	2.6	12	46	1.6	1.3	72	<	0.2
031M 891062 00	2.29	8.4	170	2.0	10	43	1.1	0.8	53	<	0.1
031M 891063 00	2.28	8.1	140	2.2	8	30	0.6	1.6	62	<	<
031M 891064 00	2.20	10.0	150	2.6	14	41	1.4	1.0	74	<	0.1
031M 891065 00	1.90	9.3	120	2.9	15	57	2.0	1.9	84	<	0.2
031M 891066 00	2.26	10.0	250	2.8	12	44	1.3	1.3	58	<	0.1
031M 891067 10	1.40	12.0	110	4.3	24	56	5.2	3.4	120	<	0.3
031M 891068 20	1.50	13.0	130	4.3	25	64	5.6	3.8	120	<	0.3
031M 891069 00	1.60	8.9	170	2.8	17	62	2.7	2.3	84	<	0.2
031M 891070 00	1.30	11.0	110	3.9	24	41	5.6	3.8	120	<	0.3
031M 891071 00	2.00	12.0	120	3.5	19	48	3.7	2.4	96	<	0.2
031M 891072 00	2.33	8.1	110	1.9	10	42	1.0	1.1	54	<	0.1
031M 891073 00	2.07	13.0	620	3.2	13	57	1.5	1.4	54	<	0.1
031M 891075 00	0.06	2.2	21	0.3	<	11	2.3	20.0	<	<	0.2
031M 891076 00	2.02	11.0	150	3.0	17	53	1.8	2.1	84	<	0.2
031M 891077 00	1.90	12.0	170	3.3	22	61	2.4	2.7	85	<	0.2
031M 891078 00	1.80	11.0	170	3.1	21	48	2.5	2.4	63	<	0.2
031M 891079 00	0.14	4.2	<	0.4	<	<	2.7	14.0	<	<	0.4
031M 891080 00	1.20	11.0	140	3.7	22	40	4.4	4.5	100	<	0.3
031M 891082 00	1.20	8.9	350	2.8	20	75	13.0	18.0	31	<	0.3
031M 891083 10	2.06	8.5	190	2.0	10	54	1.7	1.9	47	<	0.1
031M 891084 20	2.24	8.8	200	2.2	10	55	1.4	1.6	52	<	0.1
031M 891085 00	1.40	11.0	240	3.8	18	62	3.9	13.0	77	<	0.2
031M 891086 00	0.58	8.2	140	1.8	6	37	10.0	22.0	18	<	0.4

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D
Field Data

Map Sheet	Sample ID	Sample Rep Stat	UTM, Zn Easting	UTM, Northing	Rock Unit	Age	Sample Type	Stream Width	Stream Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour	Bottom Pcpt	Bank Pcpt	Stream Physiol. Drainage	Type	Stream Class	Source
032D	891002	00	17 589739	5328922	AMH	02	Sed/Water	30	2	Mining	Outwash	Clear	Modert	Bf-Bn	121	-	Penpln	Permt	Sec'ary	Ground
032D	891003	00	17 587366	5328585	AFIS	02	Sed/Water	20	3	-	Organic BnTrans	Clear	Slow	Bf-Bn	032	-	Swamp	Permt	Sec'ary	Ground
032D	891004	00	17 584291	5329163	AIHM	02	Sed/Water	5	4	-	Outwash BnTrans	BnTrans	Slow	Bf-Bn	311	-	Swamp	Permt	Pri'ary	Ground
032D	891005	00	17 583472	5327578	AIHM	02	Sed/Water	1	1	-	Outwash	Clear	Modert	Rd-Bn	121	-	Hill	Permt	Pri'ary	Ground
032D	891006	00	17 583636	5327590	AIHM	02	Sed/Water	90	10	-	Outwash BnTrans	BnTrans	Fast	Wh-Bf	310	-	Hill	Permt	Sec'ary	Ground
032D	891007	00	17 586605	5330107	AMH	02	Sed/Water	10	3	-	Outwash	BnTrans	Modert	Rd-Bn	311	-	Hill	Permt	Pri'ary	Ground
032D	891008	00	17 587153	5326900	AFIS	02	Sed/Water	40	7	-	Outwash	Clear	Fast	Wh-Bf	311	-	Hill	Permt	Sec'ary	Ground
032D	891010	10	17 584993	5337341	AIHM	02	Sed/Water	5	2	Possible	Outwash BnTrans	BnTrans	Slow	Rd-Bn	121	-	Hill	Permt	Pri'ary	Ground
032D	891011	20	17 584993	5337341	AIHM	02	Sed/Water	5	2	Possible	Outwash BnTrans	BnTrans	Slow	Rd-Bn	121	-	Hill	Permt	Pri'ary	Ground
032D	891012	00	17 590948	5336100	AIHM	02	Sed/Water	40	8	Possible	Outwash	Clear	Fast	Rd-Bn	211	-	Hill	Permt	Sec'ary	Ground
032D	891013	00	17 591752	5334949	AIHM	02	Sed/Water	160	7	Possible	Outwash	Clear	Modert	Rd-Bn	211	-	Hill	Permt	Sec'ary	Ground
032D	891014	00	17 593039	5330045	AMC	02	Sed/Water	40	4	-	Outwash	Clear	Modert	Rd-Bn	211	-	Hill	Permt	Sec'ary	Ground
032D	891015	00	17 597098	5331584	AIHM	02	Sed/Water	9	6	Possible	Alluv	Clear	Slow	Rd-Bn	131	-	Hill	Intermit	Pri'ary	Ground
032D	891016	00	17 597580	5331008	AMC	02	Sed/Water	6	2	-	Alluv	Clear	Slow	Rd-Bn	131	-	Hill	Intermit	Pri'ary	Ground
032D	891017	00	17 598471	5332341	AIHM	02	Sed/Water	3	2	Possible	Outwash	Clear	Slow	Rd-Bn	121	-	Hill	Intermit	Pri'ary	Ground
032D	891018	00	17 601438	5337066	AIHM	02	Sed/Water	20	10	-	Outwash	Clear	Slow	Rd-Bn	131	-	Hill	Permt	Pri'ary	Ground
032D	891019	00	17 604252	5335852	AIHM	02	Sed/Water	7	5	Forestry	Outwash BnTrans	BnTrans	Slow	Rd-Bn	031	-	Hill	Intermit	Pri'ary	Ground
032D	891020	00	17 605051	5335693	AIHM	02	Sed/Water	6	4	-	Organic	Clear	Modert	Rd-Bn	022	-	Swamp	Permt	Pri'ary	Ground
032D	891022	10	17 605859	5337675	AIHM	02	Sed/Water	40	16	-	Till	Clear	Modert	Rd-Bn	022	-	Hill	Permt	Pri'ary	Ground
032D	891023	20	17 605859	5337675	AIHM	02	Sed/Water	40	16	-	Till	Clear	Modert	Rd-Bn	022	-	Hill	Permt	Pri'ary	Ground
032D	891024	00	17 607715	5336612	AIHM	02	Sed/Water	10	3	-	Outwash BnTrans	BnTrans	Modert	Rd-Bn	211	-	Hill	Intermit	Sec'ary	Ground
032D	891025	00	17 607105	5336641	AIHM	02	Sed/Water	50	6	-	Outwash	Clear	Slow	Rd-Bn	013	-	Swamp	Intermit	Pri'ary	Ground
032D	891026	00	17 608526	5334892	AMC	02	Sed/Water	10	4	-	Alluv	Clear	Modert	Rd-Bn	022	-	Hill	Undefnd	Pri'ary	Ground
032D	891028	00	17 598708	5324217	AFIS	02	Sed/Water	4	6	-	Outwash BnTrans	BnTrans	Modert	Rd-Bn	031	-	Hill	Permt	Pri'ary	Ground
032D	891029	00	17 598864	5323319	AMC	02	Sed/Water	4	6	Probable	Outwash BnTrans	BnTrans	Modert	Gy-Blu	121	-	Hill	Permt	Pri'ary	Ground
032D	891030	00	17 605044	5320729	PHCG	04	Sed/Water	4	2	-	Outwash	BnTrans	Modert	Rd-Bn	211	-	Hill	Permt	Pri'ary	Ground
032D	891031	00	17 606020	5320163	PHCG	04	Sed/Water	400	20	Definite	Outwash	Clear	Fast	Gy-Blu	311	-	Hill	Permt	Undefnd	Ground
032D	891032	00	17 607011	5321506	PHCG	04	Sed/Water	6	3	-	Colluv	Clear	Modert	Rd-Bn	131	-	Hill	Permt	Pri'ary	Ground
032D	891033	00	17 606964	5321866	PHCG	04	Sed/Water	10	5	-	Outwash	Clear	Fast	Gy-Blu	221	-	Hill	Permt	Pri'ary	Ground
032D	891034	00	17 601985	5322678	PHCG	04	Sed/Water	10	5	-	Outwash BnTrans	BnTrans	Modert	Gy-Blu	301	-	Hill	Permt	Sec'ary	Ground
032D	891035	00	17 603144	5321886	AMH	02	Sed/Water	8	4	-	Outwash BnTrans	BnTrans	Slow	Gy-Blu	031	-	Hill	Permt	Pri'ary	Ground
032D	891036	00	17 603824	5320638	PHCG	04	Sed/Water	10	6	-	Outwash BnTrans	BnTrans	Modert	Rd-Bn	221	-	Hill	Permt	Pri'ary	Ground
032D	891037	00	17 603551	5320773	AFIS	02	Sed/Water	3	1	-	Alluv	Clear	Slow	Rd-Bn	122	-	Hill	Intermit	Pri'ary	Ground
032D	891038	00	17 605116	5327166	PHCG	04	Sed/Water	50	11	-	Alluv	Clear	Fast	Gy-Blu	121	-	Moun/M	Permt	Sec'ary	Ground
032D	891039	00	17 593957	5331421	AMC	02	Sed/Water	4	1	-	Outwash	Clear	Slow	Gy-Blu	031	-	Hill	Permt	Pri'ary	Ground
032D	891040	00	17 594825	5333546	AIHM	02	Sed/Water	7	2	-	Outwash	Clear	Modert	Rd-Bn	131	-	Hill	Permt	Pri'ary	Ground
032D	891042	00	17 594872	5333134	AIHM	02	Sed/Water	10	2	Possible	Organic	Clear	Modert	Rd-Bn	031	-	Hill	Permt	Sec'ary	Ground
032D	891043	00	17 594406	5333090	AIHM	02	Sed/Water	4	1	-	Outwash	Clear	Stagnt	Rd-Bn	022	-	Hill	Intermit	Pri'ary	Ground
032D	891044	00	17 595116	5332144	AIHM	02	Sed/Water	6	8	Possible	Outwash	Clear	Slow	Gy-Blu	031	-	Hill	Permt	Pri'ary	Ground
032D	891045	00	17 594962	5331752	AMC	02	Sed/Water	8	5	-	Outwash	Clear	Slow	Gy-Blu	031	-	Hill	Permt	Pri'ary	Ground

	Variable:																Sb	ppm	ppm	ppm
	Units:																			
	Detection Limit:																			
	Analytical Method:																			
	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	ppm	ppm	ppm
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	1	1	1
	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	AAS	AAS	AAS
032D 891002 00	24	9	4	9	4	<	184	1	<	0.83	20	1.6	0.7	149	15	<	<	1	<	1
032D 891003 00	28	6	3	7	6	<	1140	2	2	1.35	32	6.7	0.8	122	14	<	<	1	<	1
032D 891004 00	16	3	2	9	4	<	85	<	<	0.71	16	2.4	0.8	114	13	<	<	3	<	3
032D 891005 00	72	20	9	28	10	<	1603	2	2	1.50	64	13.0	1.2	150	21	0.5	<	2	<	2
032D 891006 00	20	6	2	10	4	<	170	<	<	0.76	16	2.4	0.7	139	13	<	<	2	<	2
032D 891007 00	21	6	<	9	5	<	251	1	<	0.98	18	4.2	0.8	154	13	<	<	1	<	1
032D 891008 00	12	4	<	6	4	<	133	<	<	0.65	10	1.5	0.7	113	11	<	<	<	<	<
032D 891010 10	15	5	4	9	3	<	69	1	<	0.88	14	4.3	0.6	88	13	<	<	1	<	1
032D 891011 20	18	6	6	10	3	<	91	1	2	0.96	24	6.0	0.7	100	14	<	<	1	<	1
032D 891012 00	19	7	2	8	5	<	238	<	<	0.68	10	1.5	<	110	11	<	<	<	<	<
032D 891013 00	28	11	2	11	5	<	338	<	<	0.92	16	1.8	0.7	126	14	<	<	<	<	<
032D 891014 00	25	9	5	13	6	<	463	1	<	1.06	22	5.6	0.8	123	17	<	<	<	<	<
032D 891015 00	54	16	8	24	11	<	1080	2	2	2.05	48	10.4	1.4	228	29	<	<	5	<	5
032D 891016 00	59	16	7	19	9	<	745	1	<	1.65	38	7.2	1.0	151	25	<	<	3	<	3
032D 891017 00	57	15	9	27	13	<	1912	2	<	2.27	44	8.7	1.0	198	30	<	<	4	<	4
032D 891018 00	53	17	7	23	10	<	648	2	2	1.87	42	10.3	1.0	170	24	<	0.2	2	<	2
032D 891019 00	59	16	5	21	10	<	1682	2	2	2.08	46	9.4	1.3	176	26	<	0.2	3	<	3
032D 891020 00	79	26	11	8	11	<	837	3	2	1.57	136	38.2	1.2	152	22	0.5	0.2	7	<	7
032D 891022 10	62	23	10	29	11	<	891	2	2	2.47	40	12.6	1.0	200	41	<	0.2	4	<	4
032D 891023 20	56	20	8	20	8	<	526	2	2	1.83	40	13.0	1.0	235	29	<	<	2	<	2
032D 891024 00	40	8	8	10	5	<	207	3	<	0.85	32	8.9	0.6	108	15	0.3	<	3	<	3
032D 891025 00	72	24	10	20	9	<	698	3	2	1.73	120	33.0	1.6	197	25	0.6	0.2	3	<	3
032D 891026 00	57	66	8	17	7	0.2	1024	3	<	1.56	36	7.5	1.0	175	23	<	<	5	<	5
032D 891028 00	71	14	13	21	12	<	850	2	<	1.85	50	12.0	1.1	241	26	0.3	<	4	<	4
032D 891029 00	75	22	10	38	11	<	1100	2	2	2.80	52	13.4	1.9	294	40	<	<	2	<	2
032D 891030 00	71	22	10	35	12	<	939	1	2	2.81	54	13.3	2.2	281	39	<	<	4	<	4
032D 891031 00	104	120	6	232	16	<	331	64	2	1.75	42	11.8	1.1	188	29	<	3.2	2	<	2
032D 891032 00	47	32	36	15	5	0.2	159	14	2	2.35	146	48.0	1.2	148	24	0.2	0.3	<	<	<
032D 891033 00	79	17	6	27	12	<	1500	2	2	2.21	16	6.1	1.1	240	34	<	<	2	<	2
032D 891034 00	87	17	9	32	18	<	999	1	2	2.92	16	6.8	1.7	265	46	<	<	<	<	<
032D 891035 00	69	12	9	27	10	<	241	2	2	2.39	43	3.7	1.3	259	34	<	<	1	<	1
032D 891036 00	41	10	11	21	6	<	202	1	2	1.63	36	6.8	0.8	212	24	<	<	3	<	3
032D 891037 00	79	18	15	29	17	<	468	4	2	2.73	64	15.1	1.3	207	33	0.3	<	3	<	3
032D 891038 00	87	21	6	32	19	0.2	1176	2	2	2.30	30	4.8	1.3	224	34	<	<	4	<	4
032D 891039 00	14	5	4	9	5	<	238	<	2	0.78	16	1.9	0.7	133	15	<	<	3	<	3
032D 891040 00	35	11	7	14	9	0.2	842	1	2	1.50	40	7.1	0.9	290	19	<	<	2	<	2
032D 891042 00	95	49	43	24	12	<	490	7	3	1.52	164	64.5	1.3	108	22	3.5	<	3	<	3
032D 891043 00	47	19	7	25	9	<	1061	2	2	2.16	60	11.6	1.3	200	31	<	<	2	<	2
032D 891044 00	50	18	7	20	8	<	832	1	2	1.98	80	18.4	1.5	256	24	<	<	3	<	3
032D 891045 00	50	14	4	20	9	0.2	1659	2	2	2.20	48	8.3	1.2	221	26	<	<	3	<	3

Variable: Units: Detection Limit: Analytical Method:		Analytical Data													
		Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb			
		pct	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
		0.02 INA	0.2 INA	20 INA	0.2 INA	5 INA	10 INA	0.5 INA	0.5 INA	5 INA	1 INA	0.1 INA			
032D	891002	00	2.43	9.0	60	1.8	8	<	1.2	1.5	50	3	<		
032D	891003	00	2.18	7.8	38	2.1	15	<	2.4	3.9	39	4	0.1		
032D	891004	00	2.13	7.7	55	1.6	10	11	0.6	1.5	40	4	<		
032D	891005	00	1.90	9.5	67	2.3	17	31	2.9	11.0	33	4	0.2		
032D	891006	00	2.31	7.9	48	1.6	6	<	0.9	1.1	43	3	<		
032D	891007	00	2.22	7.7	43	1.6	12	<	1.3	2.4	42	3	<		
032D	891008	00	2.30	7.6	46	1.4	<	15	0.5	1.2	36	3	<		
032D	891010	10	2.30	6.8	44	1.5	7	<	1.0	2.8	36	3	<		
032D	891011	20	2.19	6.4	33	1.7	6	14	2.1	5.8	37	2	0.1		
032D	891012	00	1.90	5.4	30	1.0	6	20	0.6	1.3	41	3	<		
032D	891013	00	2.00	6.5	38	1.6	7	18	0.9	2.2	44	3	<		
032D	891014	00	2.09	8.5	56	1.8	10	19	1.8	4.7	34	3	0.1		
032D	891015	00	1.80	11.0	62	2.8	18	24	3.3	3.7	44	4	0.2		
032D	891016	00	2.06	10.0	58	2.3	15	35	2.2	3.5	46	4	0.2		
032D	891017	00	1.80	11.0	70	2.8	21	30	2.1	3.1	43	4	0.1		
032D	891018	00	1.90	11.0	55	2.5	17	24	2.0	4.0	45	4	0.2		
032D	891019	00	1.80	11.0	71	2.8	18	32	2.9	3.1	39	5	0.2		
032D	891020	00	1.10	9.2	48	1.9	14	33	5.0	8.7	34	4	0.2		
032D	891022	10	1.80	12.0	65	3.0	20	29	3.2	3.1	64	4	0.2		
032D	891023	20	1.70	9.4	48	2.3	13	23	2.9	3.5	41	4	0.2		
032D	891024	00	2.00	6.7	41	1.4	9	33	4.4	4.7	31	2	0.1		
032D	891025	00	1.30	10.0	48	2.1	13	<	4.4	8.3	29	4	0.3		
032D	891026	00	2.19	10.0	60	2.4	14	18	3.0	3.4	39	3	0.2		
032D	891028	00	1.80	11.0	66	2.7	20	24	2.8	4.2	47	3	0.2		
032D	891029	00	1.60	13.0	84	3.5	23	35	3.4	2.7	64	3	0.2		
032D	891030	00	1.70	13.0	81	3.7	21	47	2.3	3.4	63	4	0.2		
032D	891031	00	2.00	11.0	65	2.3	28	180	82.7	7.3	28	3	2.2		
032D	891032	00	0.81	6.3	51	3.5	7	17	25.0	41.0	30	5	0.4		
032D	891033	00	2.11	12.0	62	3.2	24	24	3.6	4.0	43	3	0.2		
032D	891034	00	1.60	12.0	76	3.7	26	37	2.5	1.7	68	3	0.1		
032D	891035	00	1.60	10.0	64	2.9	18	38	1.5	0.6	54	2	0.1		
032D	891036	00	1.80	8.8	66	2.1	12	25	1.9	2.7	44	3	0.2		
032D	891037	00	1.60	10.0	65	3.2	29	47	5.9	5.5	43	3	0.3		
032D	891038	00	2.24	13.0	81	3.3	37	20	4.4	2.8	67	2	0.2		
032D	891039	00	2.41	8.2	50	1.8	6	13	1.1	1.8	44	2	<		
032D	891040	00	2.05	10.0	57	2.1	13	14	1.8	3.3	46	3	0.1		
032D	891042	00	0.36	6.4	<	1.5	13	21	7.8	32.0	11	6	0.4		
032D	891043	00	2.00	11.0	62	2.7	16	22	2.7	5.2	52	2	0.2		
032D	891044	00	1.60	9.1	49	2.3	13	22	1.6	3.9	45	3	0.1		
032D	891045	00	1.80	10.0	50	2.5	16	32	2.8	3.0	52	3	0.2		

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D

Variables:		Analytical Data															
Units:		Cs	Ba	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Th	U	Au	Wt
Detection Limit:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	0.01
032D	891002	00	1.0	480	17	25	2.7	<	<	<	6	0.6	<	4.3	0.8	8	37.57
032D	891003	00	1.0	430	14	14	2.3	1	<	<	5	0.6	<	2.9	0.8	3	21.73
032D	891004	00	1.1	420	15	23	2.1	<	<	<	6	0.7	<	3.9	0.7	<2	23.85
032D	891005	00	1.3	490	34	41	4.6	1	<	0.2	5	0.6	<	3.7	1.2	4	23.17
032D	891006	00	1.2	460	15	17	2.4	<	0.6	<	5	<	<	3.2	0.8	10	26.85
032D	891007	00	1.1	450	16	21	2.3	<	<	<	4	<	<	3.3	0.7	11	29.26
032D	891008	00	0.6	410	15	20	2.4	<	<	<	5	0.6	<	3.1	0.7	<2	33.49
032D	891010	10	<	410	13	14	2.1	<	<	<	4	0.5	<	2.2	0.5	3	29.84
032D	891011	20	0.8	440	13	15	2.3	<	<	0.2	4	0.5	<	2.0	0.6	<2	32.41
032D	891012	00	0.7	420	10	15	1.7	<	<	<	3	<	<	2.3	0.6	5	30.42
032D	891013	00	1.1	470	13	14	2.3	<	<	<	4	0.6	<	3.0	0.6	8	30.32
032D	891014	00	0.7	380	13	14	2.2	<	<	<	2	<	<	2.7	0.6	<2	24.60
032D	891015	00	2.2	420	23	34	2.9	<	0.5	<	3	0.6	<	5.4	1.4	89	18.39
032D	891016	00	2.0	550	19	30	2.6	<	<	<	4	<	<	4.0	1.0	6	25.83
032D	891017	00	1.8	600	19	26	2.7	<	<	<	3	0.6	<	4.8	1.1	<2	20.51
032D	891018	00	1.8	470	24	32	3.0	<	<	0.2	4	<	<	5.1	1.0	<2	18.89
032D	891019	00	2.4	550	21	26	2.7	<	<	<	3	0.6	<	5.0	0.9	3	16.90
032D	891020	00	1.7	340	20	32	2.4	<	<	<	1	<	<	3.8	0.9	3	11.27
032D	891022	10	2.4	450	29	48	3.2	<	<	<	3	0.5	<	5.9	0.9	<2	27.21
032D	891023	20	1.9	390	21	33	2.8	<	<	<	3	0.5	<	4.5	0.9	4	21.63
032D	891024	00	0.9	360	8	10	1.7	<	<	<	3	<	<	1.5	0.6	3	25.79
032D	891025	00	1.8	340	23	36	3.0	<	<	<	3	0.6	1	4.2	1.5	10	12.24
032D	891026	00	1.0	410	19	24	2.8	<	0.7	<	4	<	<	3.2	0.9	8	21.58
032D	891028	00	2.0	400	19	24	2.5	<	<	<	3	<	<	4.6	1.1	<2	20.65
032D	891029	00	2.8	500	39	60	4.3	1	0.7	<	3	0.8	<	8.1	1.7	3	19.71
032D	891030	00	3.3	490	38	60	4.2	<	0.7	<	3	0.8	<	8.1	2.2	<2	16.53
032D	891031	00	1.1	350	19	24	2.6	<	<	<	3	<	1	3.2	0.9	326	23.73
032D	891032	00	2.0	220	12	18	1.3	<	<	<	1	<	<	3.0	1.1	7	9.37
032D	891033	00	1.8	460	24	41	3.2	1	<	0.2	4	0.6	<	4.9	1.0	3	28.48
032D	891034	00	3.5	490	23	32	2.8	<	<	<	3	0.8	<	7.2	1.4	<2	19.56
032D	891035	00	2.9	470	22	29	3.1	1	0.7	<	3	<	<	6.6	1.1	<2	26.39
032D	891036	00	1.8	410	13	20	2.1	<	<	<	3	<	<	3.6	0.8	<2	24.26
032D	891037	00	2.2	500	23	35	3.1	<	<	<	3	<	<	5.4	1.0	<2	16.76
032D	891038	00	2.7	590	29	39	3.7	1	<	<	4	<	<	6.9	1.3	9	27.75
032D	891039	00	1.3	460	15	25	2.4	<	<	<	5	0.6	<	3.5	0.7	2	37.07
032D	891040	00	1.4	450	19	25	2.7	1	0.6	<	4	0.6	<	4.1	0.9	<2	23.85
032D	891042	00	0.8	180	13	20	1.7	<	<	<	<	<	<	2.0	0.8	4	7.83
032D	891043	00	1.7	440	31	42	3.7	<	0.7	<	3	0.6	<	5.2	1.3	14	25.91
032D	891044	00	1.8	410	28	37	3.2	<	<	<	3	<	<	4.9	1.3	<2	23.06
032D	891045	00	1.8	480	22	29	3.1	<	<	<	4	0.7	<	5.0	1.1	3	24.23

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D
Field Data

Map Sheet	Sample ID	Sample Rep Stat	UTM Zn Easting	UTM Northing	Rock Unit Age	Sample Type	Stream Width Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour Comp	Bottom Pcpt	Bank Pcpt	Stream Physiog. Drainage	Type	Stream Class	Source
032D	891046	00	17 609529	5326996	PHCG 04	Sed/Water	5	2	-	Clear	Slow	Rd-Bn 022	-	-	Hill	Dendrc Intermit	Sec'ary	Ground
032D	891047	00	17 609502	5326815	PHCG 04	Sed/Water	5	2	Possible	Clear	Modert	Rd-Bn 013	-	-	Hill	Dendrc Permnt	Pri'ary	Ground
032D	891048	00	17 609643	5329301	PHCG 04	Sed/Water	4	2	-	Clear	Modert	Rd-Bn 211	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891049	10	17 609768	5329379	PHCG 04	Sed/Water	5	1	Possible	Clear	Slow	Rd-Bn 121	-	-	Hill	Dendrc Permnt	Pri'ary	Ground
032D	891050	20	17 609768	5329379	PHCG 04	Sed/Water	5	1	Possible	Clear	Slow	Rd-Bn 121	-	-	Hill	Dendrc Permnt	Pri'ary	Ground
032D	891051	00	17 609959	5332992	PHCG 04	Sed/Water	10	3	Possible	Clear	Stagnt	Wh-Bf 221	-	-	Hill	Dendrc Permnt	Sec'ary	Ground
032D	891052	00	17 608816	5331623	PHCG 04	Sed/Water	12	3	Possible	Clear	Slow	Rd-Bn 221	-	-	Hill	Dendrc Permnt	Sec'ary	Ground
032D	891053	00	17 606055	5333803	AAM 02	Sed/Water	44	5	Possible	Clear	Slow	Gy-Blu 031	-	-	Hill	Dendrc Permnt	Ter'ary	Ground
032D	891054	00	17 600387	5329905	AMC 02	Sed/Water	8	2	Possible	Clear	Slow	Rd-Bn 131	-	-	Hill	Discnt Intermit	Pri'ary	Ground
032D	891055	00	17 605308	5333464	AAM 02	Sed/Water	38	6	-	Clear	Slow	Gy-Blu 031	-	-	Hill	Discnt Permnt	Ter'ary	Ground
032D	891056	00	17 606963	5334765	AAM 02	Sed/Water	35	9	-	Clear	Modert	Gy-Blu 031	-	-	Hill	Discnt Permnt	Ter'ary	Ground
032D	891057	00	17 606901	5334387	AAM 02	Sed/Water	35	8	-	Clear	Modert	Gy-Blu 031	-	-	Hill	Discnt Permnt	Sec'ary	Ground
032D	891058	00	17 593428	5317399	A1MM 02	Sed/Water	3	1	-	Clear	Slow	Wh-Bf 310	-	Rd-Bn	Hill	Trellis Permnt	Pri'ary	Ground
032D	891060	00	17 593897	5317319	A1MM 02	Sed/Water	30	6	-	Clear	Slow	Gy-Blu 031	-	-	Hill	Dendrc Permnt	Sec'ary	Ground
032D	891062	00	17 594265	5335546	A1MM 02	Sed/Water	13	4	-	Clear	Modert	Rd-Bn 031	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891063	00	17 595531	5336225	AFIS 02	Sed/Water	6	1	-	Clear	Modert	Gy-Blu 221	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891064	10	17 595699	5336809	A1MM 02	Sed/Water	3	1	-	Clear	Slow	Rd-Bn 031	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891065	20	17 595699	5336809	A1MM 02	Sed/Water	3	1	-	Clear	Slow	Rd-Bn 031	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891066	00	17 597863	5329236	AFIS 02	Sed/Water	60	5	Mining	Clear	Slow	Gy-Blu 131	-	-	Hill	Discnt Permnt	Sec'ary	Ground
032D	891067	00	17 599292	5328580	AMC 02	Sed/Water	5	2	Possible	Clear	Slow	Gy-Blu 131	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891068	00	17 600364	5330397	AMC 02	Sed/Water	9	4	-	Clear	Modert	Rd-Bn 130	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891069	00	17 601622	5332573	AFIS 02	Sed/Water	4	1	Possible	Clear	Modert	Rd-Bn 311	-	-	Hill	Discnt Permnt	Sec'ary	Ground
032D	891070	00	17 603392	5332830	A1MM 02	Sed/Water	10	2	-	Clear	Modert	Rd-Bn 022	-	Wh-Bf	Hill	Discnt Permnt	Pri'ary	Ground
032D	891071	00	17 600595	5330231	AMC 02	Sed/Water	20	4	-	Clear	Slow	Gy-Blu 131	-	-	Hill	Discnt Permnt	Pri'ary	Ground
032D	891072	00	17 589646	5327792	AFIS 02	Sed/Water	15	10	Definite	Clear	Stagnt	Rd-Bn 031	-	-	Hill	Poor Intermit	Sec'ary	Ground
032D	891074	00	17 588113	5326561	AFIS 02	Sed/Water	25	6	-	Clear	Modert	Gy-Blu 210	-	-	Hill	Dendrc Permnt	Ter'ary	Ground
032D	891075	00	17 587131	5326742	AFIS 02	Sed/Water	60	5	Mining	Clear	Modert	Gy-Blu 311	-	-	Hill	Dendrc Permnt	Ter'ary	Ground
032D	891076	00	17 598594	5319550	AMC 02	Sed/Water	13	9	Forestry	Clear	Slow	Gy-Blu 131	-	-	Hill	Dendrc Permnt	Pri'ary	Ground
032D	891077	00	17 598464	5319584	AMC 02	Sed/Water	12	6	Forestry	Clear	Modert	Rd-Bn 212	-	-	Hill	Dendrc Permnt	Pri'ary	Ground
032D	891078	00	17 606140	5317976	PHCG 04	Sed/Water	20	2	-	Clear	Slow	Gy-Blu 310	-	-	Moun/M	Poor Permnt	Sec'ary	Ground
032D	891079	00	17 606827	5318159	PHCG 04	Sed/Water	5	2	-	Clear	Modert	Rd-Bn 311	-	-	Moun/M	Discnt Permnt	Pri'ary	Ground
032D	891080	00	17 607153	5318211	PHCG 04	Sed/Water	10	4	-	Clear	Modert	Rd-Bn 121	-	-	Moun/M	Dendrc Permnt	Sec'ary	Ground
032D	891082	00	17 597058	5321834	AMC 02	Sed/Water	20	12	Possible	Clear	Modert	Gy-Blu 131	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891083	10	17 597336	5320637	AMC 02	Sed/Water	3	2	-	Clear	Slow	Gy-Blu 131	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891084	20	17 597336	5320637	AMC 02	Sed/Water	3	2	-	Clear	Slow	Gy-Blu 131	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891085	00	17 597226	5333424	A1MM 02	Sed/Water	20	5	-	Clear	Slow	Rd-Bn 122	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891086	00	17 597341	5333529	A1MM 02	Sed/Water	20	3	-	Clear	Slow	Rd-Bn 122	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891087	00	17 596663	5334399	A1MM 02	Sed/Water	20	10	-	Clear	Slow	Gy-Blu 031	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891088	00	17 596727	5334502	A1MM 02	Sed/Water	15	6	-	Clear	Slow	Gy-Blu 131	-	-	Hill	Poor Permnt	Pri'ary	Ground
032D	891089	00	17 601475	5317779	AMC 02	Sed/Water	5	1	-	Clear	Slow	Rd-Bn 031	-	-	Hill	Rectln Undefnd	Sec'ary	Ground

Variable: Units: Detection Limit: Analytical Method:	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb	Sn
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm
	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	1
	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	MADNC	ISE	AAS	AAS	AAS	AAS
0320 891046 00	87	51	13	24	8	<	167	2	2	1.51	42	10.0	3.4	168	25	<	<	4
0320 891047 00	272	48	82	32	29	0.2	411	19	3	2.14	164	51.2	1.1	102	26	5.3	<	4
0320 891048 00	17	13	4	13	5	<	156	4	2	1.62	36	6.8	0.9	192	20	<	<	2
0320 891049 10	16	9	4	11	6	<	169	2	2	1.07	18	3.1	0.8	160	15	<	<	4
0320 891050 20	18	9	5	11	6	<	185	2	<	1.13	24	4.7	0.8	128	15	<	<	2
0320 891051 00	19	5	<	8	2	<	89	<	2	0.76	18	2.8	0.6	115	12	<	<	1
0320 891052 00	34	6	4	12	8	<	177	1	<	1.19	22	3.2	0.8	152	17	<	<	2
0320 891053 00	34	12	3	22	8	<	599	4	2	1.52	28	3.8	0.8	163	23	<	<	1
0320 891054 00	90	81	16	56	28	0.5	505	35	3	3.62	96	22.6	1.6	201	41	0.6	1.0	3
0320 891055 00	34	11	4	11	6	0.3	764	4	<	1.41	26	4.2	0.9	158	21	<	<	3
0320 891056 00	31	8	<	12	7	0.2	587	2	2	1.18	24	3.2	0.7	120	20	<	<	2
0320 891057 00	30	5	<	8	5	<	236	1	<	0.83	16	1.7	0.7	118	14	<	<	4
0320 891058 00	17	3	<	8	5	0.3	110	<	<	0.80	20	2.2	0.7	136	14	<	<	3
0320 891060 00	46	20	5	25	8	<	666	2	2	1.99	26	5.0	1.1	314	30	<	<	7
0320 891062 00	51	14	5	19	9	<	825	2	2	1.98	44	9.2	1.3	202	30	<	<	4
0320 891063 00	22	8	4	10	5	0.3	616	1	2	1.12	30	4.3	0.9	129	19	<	<	3
0320 891064 10	65	18	10	24	15	0.2	291	2	<	2.61	60	16.2	1.3	208	33	<	<	6
0320 891065 20	66	19	13	26	14	<	2050	2	2	2.55	58	14.3	1.3	213	28	0.2	<	6
0320 891066 00	54	19	6	24	10	0.2	520	56	2	1.95	40	6.3	1.5	313	32	<	1.2	3
0320 891067 00	30	14	4	16	7	<	696	5	2	1.56	28	5.0	0.9	139	28	<	<	3
0320 891068 00	80	14	10	30	13	<	1039	3	2	2.34	60	20.6	1.1	187	36	<	<	8
0320 891069 00	248	93	55	38	17	0.6	303	11	2	2.91	112	33.3	1.3	180	35	2.2	<	3
0320 891070 00	94	24	19	18	11	0.5	1120	5	2	2.03	100	27.1	1.2	135	27	0.6	<	9
0320 891071 00	73	32	8	44	17	0.4	1277	4	2	3.04	42	9.3	1.5	218	53	<	0.2	4
0320 891072 00	57	32	17	15	6	0.2	205	1	3	1.14	88	37.7	1.0	191	20	0.5	<	4
0320 891074 00	24	9	4	12	6	<	235	<	<	1.11	24	2.4	0.9	215	16	<	<	1
0320 891075 00	16	5	2	9	3	<	179	<	<	0.81	18	1.6	0.6	153	15	<	<	3
0320 891076 00	38	8	4	18	5	0.2	335	<	2	1.27	26	2.8	0.8	232	21	<	<	2
0320 891077 00	45	10	4	22	9	0.3	934	2	<	1.45	28	5.3	0.8	239	25	<	<	4
0320 891078 00	40	7	6	15	9	<	226	1	<	1.15	18	2.7	0.8	138	21	<	<	<
0320 891079 00	69	23	12	28	17	0.5	1156	3	2	2.36	40	11.2	1.4	211	45	<	<	2
0320 891080 00	93	14	13	28	30	0.3	1458	2	2	1.89	42	7.9	1.3	223	33	0.8	<	3
0320 891082 00	60	24	8	36	14	0.3	684	2	2	2.53	32	7.2	1.2	386	41	<	<	9
0320 891083 10	68	17	8	30	10	0.2	1088	2	2	2.33	44	8.8	1.3	287	32	<	<	3
0320 891084 20	64	15	6	34	12	<	702	2	2	2.31	36	6.8	1.2	317	34	<	<	1
0320 891085 00	60	21	8	26	11	0.2	1607	2	2	2.35	72	16.9	1.4	274	31	<	<	5
0320 891086 00	58	17	8	23	12	<	835	2	2	1.96	40	11.3	1.0	240	28	<	<	3
0320 891087 00	47	23	6	27	9	0.3	1335	1	2	2.35	24	5.2	1.1	340	34	<	<	6
0320 891088 00	43	18	4	25	8	<	859	1	2	2.02	32	8.8	1.2	269	31	<	<	3
0320 891089 00	150	22	13	61	33	0.2	2351	5	2	3.29	64	16.6	1.2	255	37	0.4	<	3

	Variable:		Na		Sc		Cr		Fe		Co		Ni		As		Br		Rb		Mo		Sb	
	Units:		pct		ppm		ppm		pct		ppm		ppm		ppm		ppm		ppm		ppm		ppm	
	Detection Limit:		0.02		0.2		20		0.2		5		10		0.5		0.5		5		1		0.1	
	Analytical Method:		INA		INA		INA		INA		INA		INA		INA		INA		INA		INA		INA	
0320	891046	00	1.40	8.0	65	1.6	10	22	2.8	16.0	33	2	0.1											
0320	891047	00	0.34	4.3	24	1.9	38	27	21.0	38.0	14	6	0.4											
0320	891048	00	2.27	10.0	64	2.4	11	17	7.1	11.0	34	2	0.2											
0320	891049	10	2.46	10.0	74	2.1	13	23	2.4	2.6	29	3	0.1											
0320	891050	20	2.27	9.4	68	1.9	12	21	3.0	3.1	26	2	0.1											
0320	891051	00	2.37	9.1	58	1.8	9	<	1.0	1.8	34	2	<											
0320	891052	00	2.36	10.0	51	2.0	14	18	1.1	1.2	34	3	<											
0320	891053	00	2.21	11.0	85	2.4	16	31	5.2	1.9	38	3	0.2											
0320	891054	00	1.30	15.0	110	4.2	46	73	50.5	21.0	41	4	0.5											
0320	891055	00	2.06	10.0	61	2.2	14	21	4.5	2.2	37	2	0.1											
0320	891056	00	2.24	9.0	53	2.0	11	22	3.0	2.0	35	2	<											
0320	891057	00	2.29	8.2	51	1.5	11	16	1.3	1.4	34	2	<											
0320	891058	00	2.14	7.5	63	1.5	9	18	1.1	1.6	43	2	<											
0320	891060	00	2.00	10.0	73	2.6	16	42	3.2	1.8	51	2	0.2											
0320	891062	00	2.05	10.0	59	2.6	17	20	2.5	4.6	54	2	0.1											
0320	891063	00	2.38	10.0	53	2.1	10	17	1.1	3.3	41	2	<											
0320	891064	10	1.60	10.0	56	2.8	21	24	3.3	9.4	43	3	0.2											
0320	891065	20	1.80	11.0	60	3.1	19	36	3.4	8.4	47	2	0.2											
0320	891066	00	2.00	11.0	61	2.7	15	21	76.8	3.3	47	2	0.2											
0320	891067	00	2.23	10.0	68	2.5	14	25	6.0	3.0	45	2	0.2											
0320	891068	00	1.30	10.0	64	2.7	18	24	4.2	4.2	42	3	0.2											
0320	891069	00	0.94	8.6	52	2.7	21	50	18.0	34.0	25	4	0.5											
0320	891070	00	1.30	8.8	47	2.7	19	23	11.0	14.0	29	4	0.3											
0320	891071	00	1.80	13.0	87	3.7	30	51	7.0	3.0	61	3	0.3											
0320	891072	00	1.20	7.3	50	1.7	10	23	2.4	6.0	25	4	0.3											
0320	891074	00	2.38	9.2	50	2.0	11	18	1.0	1.4	42	2	0.1											
0320	891075	00	2.37	7.8	40	1.6	9	15	0.9	1.4	41	3	<											
0320	891076	00	2.22	9.5	89	2.3	15	39	1.3	1.7	47	3	0.1											
0320	891077	00	1.70	7.6	130	2.4	12	38	2.5	2.2	57	2	0.2											
0320	891078	00	1.90	7.3	67	1.9	13	<	1.2	1.3	48	2	0.1											
0320	891079	00	1.50	8.8	87	3.1	20	66	4.7	7.5	52	2	0.2											
0320	891080	00	1.30	6.7	67	2.4	38	34	2.8	2.7	45	1	0.1											
0320	891082	00	1.40	9.3	98	3.1	16	45	2.5	1.4	77	<	0.2											
0320	891083	10	1.50	8.8	110	2.9	19	46	2.8	1.8	56	2	0.1											
0320	891084	20	1.50	9.0	110	3.1	20	51	2.5	1.5	60	1	0.1											
0320	891085	00	1.30	8.4	86	2.6	14	25	2.3	4.9	52	2	0.1											
0320	891086	00	1.50	8.3	81	2.3	12	32	2.3	3.4	53	2	0.1											
0320	891087	00	1.50	8.6	76	2.8	14	48	1.8	1.9	72	1	0.1											
0320	891088	00	1.50	8.3	84	2.5	14	38	1.3	2.1	61	1	0.1											
0320	891089	00	1.30	9.1	110	3.6	41	77	7.4	6.5	55	2	0.2											

Variable:		Cs	Ba	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Th	U	Au	Wt	Au1	Au1/Wt	pH	F-W	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	-	ppb	ppb
Detection Limit:		0.5	50	2	5	0.10	1	0.5	2	0.2	1	0.5	1	0.2	0.2	1	0.01	1	0.01	-	20	0.05
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	-	INA	-	GCM	ISE	LIF
0320	891046	00	1.7	290	42	40	5.5	2	0.7	<	2	0.5	<	3.2	3.1	<2	20.19	-	-	6.9	20.	<
0320	891047	00	0.8	170	23	29	3.1	<	<	<	<	<	<	2.4	0.8	7	10.13	-	-	6.1	30.	<
0320	891048	00	0.9	360	14	20	2.5	<	0.5	<	5	0.6	<	2.3	0.9	3	33.04	-	-	5.8	20.	<
0320	891049	10	0.8	370	15	21	2.7	<	<	<	6	<	<	2.3	0.6	11	43.32	4	28.60	5.6	20.	<
0320	891050	20	<	370	14	19	2.5	<	<	0.2	5	<	<	2.1	0.7	7	34.27	3	26.83	5.6	30.	<
0320	891051	00	0.9	400	12	16	2.2	<	<	<	5	0.6	<	2.0	0.6	<2	38.25	-	-	6.2	30.	<
0320	891052	00	1.1	410	14	17	2.5	<	<	0.2	4	0.6	<	2.6	0.6	3	38.40	-	-	6.0	20.	<
0320	891053	00	1.2	400	18	28	2.7	<	0.5	<	4	0.6	<	3.5	0.8	15	29.14	9	27.22	6.7	20.	<
0320	891054	00	2.6	400	29	36	3.6	<	0.7	<	3	<	<	4.3	1.5	9	27.22	-	-	6.8	<	<
0320	891055	00	1.2	410	17	25	2.6	<	<	<	4	<	<	3.7	0.8	4	29.22	-	-	6.8	<	<
0320	891056	00	0.9	470	14	19	2.3	<	<	<	3	<	<	2.6	0.7	8	35.52	-	-	6.6	20.	<
0320	891057	00	1.1	410	11	14	2.2	<	<	<	4	<	<	1.9	0.5	<2	33.49	-	-	7.1	20.	<
0320	891058	00	1.0	480	15	21	2.6	<	<	<	5	0.6	<	4.2	0.8	21	36.11	<2	28.29	6.4	20.	<
0320	891060	00	2.0	500	26	39	3.4	<	0.7	<	4	0.6	<	5.7	1.1	<2	27.48	-	-	6.6	40.	<
0320	891062	00	1.6	480	28	36	3.4	1	<	<	3	0.5	<	5.7	1.2	13	28.49	3	19.35	7.5	70.	<
0320	891063	00	1.0	480	17	19	2.6	1	<	<	4	0.5	<	3.3	0.9	<2	36.01	-	-	7.3	60.	<
0320	891064	10	2.0	420	22	36	3.0	<	<	<	3	0.7	1	5.0	1.0	<2	25.47	-	-	7.2	50.	<
0320	891065	20	2.0	430	23	33	3.1	<	0.6	<	3	0.6	<	4.9	1.0	5	30.05	-	-	7.1	50.	<
0320	891066	00	2.2	460	23	28	3.2	<	<	<	4	0.5	<	5.7	1.1	7	27.89	-	-	7.4	70.	<
0320	891067	00	1.3	450	18	25	2.7	<	<	<	4	0.6	<	3.5	0.7	<2	30.46	-	-	7.3	40.	<
0320	891068	00	2.6	420	17	19	2.2	<	<	<	2	0.6	<	4.7	1.1	<2	15.93	-	-	6.6	50.	<
0320	891069	00	1.9	400	19	30	2.5	<	0.6	<	1	<	<	4.1	1.1	14	10.80	-	-	6.7	40.	<
0320	891070	00	2.0	430	16	19	2.3	<	<	<	2	<	<	3.7	1.1	7	16.05	-	-	6.4	30.	<
0320	891071	00	2.8	540	34	43	3.9	1	0.7	0.2	3	0.6	1	7.6	1.2	<2	23.43	-	-	6.6	50.	<
0320	891072	00	1.1	260	14	16	1.6	<	<	<	1	<	1	2.5	0.9	50	17.55	49	7.95	5.9	40.	<
0320	891074	00	1.2	470	19	26	2.8	<	<	<	5	<	<	4.2	0.9	<2	32.66	-	-	7.2	70.	<
0320	891075	00	1.0	460	15	22	2.4	<	<	<	5	0.6	<	3.2	0.7	<2	32.74	-	-	7.4	60.	0.18
0320	891076	00	1.2	430	17	26	2.5	<	<	<	4	0.6	<	3.6	0.7	<2	28.70	-	-	7.4	70.	0.13
0320	891077	00	1.7	530	13	30	2.6	<	<	<	4	0.6	<	3.8	0.8	9	33.52	-	-	7.9	50.	0.10
0320	891078	00	1.2	420	10	24	2.4	<	<	<	5	<	<	2.6	0.9	<2	32.82	-	-	6.5	60.	<
0320	891079	00	2.2	410	19	46	3.5	<	0.6	<	3	<	<	5.1	1.3	<2	21.49	-	-	6.7	60.	<
0320	891080	00	2.2	430	12	27	2.7	<	<	<	4	0.5	<	3.8	1.1	<2	23.36	-	-	6.6	80.	<
0320	891082	00	3.7	600	27	56	4.4	<	0.5	<	3	0.7	1	8.6	1.1	3	25.69	-	-	7.3	70.	0.10
0320	891083	10	2.6	540	18	39	3.4	<	<	<	4	0.7	<	6.0	1.1	<2	20.07	-	-	7.2	50.	<
0320	891084	20	2.6	530	19	45	3.5	1	<	<	3	0.6	<	6.3	1.1	<2	24.18	-	-	7.1	50.	<
0320	891085	00	2.2	540	17	39	3.0	<	<	<	4	0.8	<	5.3	1.0	2	21.13	-	-	7.2	50.	<
0320	891086	00	2.2	480	17	36	3.1	<	<	<	4	0.6	<	5.3	1.0	<2	22.40	-	-	6.9	40.	<
0320	891087	00	2.7	530	23	50	3.8	<	<	<	4	0.8	<	6.9	1.0	<2	27.96	-	-	7.2	40.	<
0320	891088	00	2.1	500	20	43	3.4	<	<	<	4	0.8	<	6.0	1.1	2	21.39	-	-	7.4	50.	<
0320	891089	00	3.0	550	16	36	2.9	<	<	<	3	0.7	<	5.0	1.0	<2	16.13	-	-	6.3	40.	<

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D

Field Data

Map Sheet	Sample ID	Sample Rep Stat	UTM Zn Easting	UTM Northing	Rock Unit Age	Sample Type	Stream Width Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour Comp	Bottom Pcpt	Bank Pcpt	Stream Physiolg. Drainage	Type	Stream Class	Source
0320	891090	00	17 601627	5317553	AMC 02	Sed/Water	25	7	Outwash	Clear	Slow	Gy-Blu 031	-	-	Hill	Permt	Pri'ary	Ground
0320	891092	00	17 607390	5324911	PHCG 04	Sed/Water	4	1	Colluv	Clear	Slow	Rd-Bn 310	-	-	Moun/M	Permt	Sec'ary	Ground
0320	891093	00	17 607279	5324751	PHCG 04	Sed/Water	5	1	Outwash	Clear	Modest	Rd-Bn 221	-	-	Moun/M	Permt	Pri'ary	Ground
0320	891094	00	17 608132	5324692	PHCG 04	Sed/Water	40	10	Outwash	Clear	Modest	Rd-Bn 221	-	-	Moun/M	Permt	Sec'ary	Ground
0320	891095	00	17 594988	5320842	AMC 02	Sed/Water	8	2	Alluv	Clear	Slow	Gy-Blu 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891096	00	17 592023	5321700	AMC 02	Sed/Water	3	1	Alluv	Clear	Slow	Rd-Bn 121	-	-	Hill	Permt	Pri'ary	Ground
0320	891097	00	17 591840	5321583	AMC 02	Sed/Water	8	3	Outwash	Clear	Slow	Gy-Blu 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891098	00	17 595029	5324241	A1MM 02	Sed/Water	3	2	Outwash BnTrans	Clear	Slow	Gy-Blu 211	-	-	Hill	Permt	Pri'ary	Ground
0320	891099	00	17 593727	5323120	A1MM 02	Sed/Water	7	6	Alluv	Clear	Slow	Gy-Blu 121	-	-	Hill	Permt	Pri'ary	Ground
0320	891100	00	17 593178	5323006	A1MM 02	Sed/Water	7	3	Outwash	Clear	Slow	Rd-Bn 130	-	-	Hill	Permt	Pri'ary	Ground
0320	891102	00	17 592853	5324382	A1MM 02	Sed/Water	10	7	Outwash	Clear	Slow	Gy-Blu 131	-	-	Plain	Permt	Pri'ary	Ground
0320	891103	00	17 592984	5324276	A1MM 02	Sed/Water	22	5	Outwash	Clear	Modest	Gy-Blu 121	-	-	Discnt	Permt	Sec'ary	Ground
0320	891104	00	17 592858	5327621	A1MM 02	Sed/Water	16	4	Outwash	Clear	Modest	Rd-Bn 211	-	-	Plain	Permt	Pri'ary	Ground
0320	891105	10	17 586612	5322604	AFIS 02	Sed/Water	12	2	Outwash	Clear	Modest	Gy-Blu 130	-	-	Plain	Permt	Pri'ary	Ground
0320	891106	20	17 586612	5322604	AFIS 02	Sed/Water	12	2	Outwash	Clear	Modest	Gy-Blu 130	-	-	Plain	Permt	Pri'ary	Ground
0320	891107	00	17 585695	5321688	AMU 02	Sed/Water	18	2	Outwash	Clear	Slow	Gy-Blu 121	-	-	Plain	Permt	Pri'ary	Ground
0320	891108	00	17 587243	5320389	A1MM 02	Sed/Water	2	1	Outwash	Clear	Modest	Rd-Bn 121	-	-	Plain	Permt	Pri'ary	Ground
0320	891110	00	17 586894	5320542	A1MM 02	Sed/Water	12	3	Alluv	Clear	Modest	Rd-Bn 221	Rd-Bn	-	Discnt	Permt	Pri'ary	Ground
0320	891111	00	17 586579	5321128	AMU 02	Sed/Water	7	2	Outwash	Clear	Slow	Rd-Bn 031	-	-	Hill	Permt	Pri'ary	Ground
0320	891112	00	17 584324	5325719	A1MM 02	Sed/Water	10	3	Outwash	Clear	Modest	Gy-Blu 121	-	-	Hill	Permt	Pri'ary	Ground
0320	891113	00	17 584724	5326291	A1MM 02	Sed/Water	60	8	Outwash	Clear	Modest	Gy-Blu 221	-	-	Hill	Permt	Ter'ary	Ground
0320	891114	00	17 584677	5326110	A1MM 02	Sed/Water	25	3	Outwash	Clear	Modest	Rd-Bn 131	-	-	Hill	Permt	Sec'ary	Ground
0320	891115	00	17 584532	5325629	A1MM 02	Sed/Water	4	2	Outwash	Clear	Slow	Gy-Blu 131	-	-	Hill	Permt	Pri'ary	Ground
0320	891116	00	17 584281	5325545	A1MM 02	Sed/Water	10	4	Outwash	Clear	Slow	Gy-Blu 121	-	-	Hill	Permt	Pri'ary	Ground
0320	891117	00	17 583348	5321942	A1MM 02	Sed/Water	6	3	Alluv	Clear	Slow	Rd-Bn 121	-	-	Hill	Permt	Sec'ary	Ground
0320	891118	00	17 584276	5320098	A1MM 02	Sed/Water	12	2	Outwash	Clear	Slow	Gy-Blu 121	-	-	Moun/M	Permt	Sec'ary	Ground
0320	891119	00	17 584362	5320064	A1MM 02	Sed/Water	10	3	Outwash	Clear	Slow	Gy-Blu 121	-	-	Moun/M	Permt	Sec'ary	Ground
0320	891120	00	17 585038	5319446	A1MM 02	Sed/Water	3	1	Outwash	Clear	Slow	Gy-Blu 131	-	-	Hill	Permt	Pri'ary	Ground
0320	891122	00	17 584797	5319424	A1MM 02	Sed/Water	3	3	Outwash	Clear	Slow	Gy-Blu 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891124	00	17 583160	5320214	A1MM 02	Sed/Water	6	2	Outwash	Clear	Slow	Gy-Blu 221	-	-	Penpln	Permt	Sec'ary	Ground
0320	891125	10	17 583005	5319925	A1MM 02	Sed/Water	3	*	Alluv	Clear	Slow	Rd-Bn 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891126	20	17 583005	5319925	A1MM 02	Sed/Water	3	*	Alluv	Clear	Slow	Rd-Bn 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891127	00	17 585271	5316902	A1MM 02	Sed/Water	5	1	Alluv	Clear	Slow	Rd-Bn 221	-	-	Moun/M	Permt	Pri'ary	Ground
0320	891128	00	17 585417	5317109	A1MM 02	Sed/Water	5	1	Alluv	Clear	Modest	Rd-Bn 221	-	-	Moun/M	Permt	Pri'ary	Ground
0320	891129	00	17 586300	5317176	A1MM 02	Sed/Water	60	2	Outwash	Clear	Modest	Gy-Blu 221	-	-	Hill	Permt	Sec'ary	Ground
0320	891130	00	17 585171	5317524	A1MM 02	Sed/Water	4	1	Outwash	Clear	Slow	Gy-Blu 221	-	-	Hill	Permt	Pri'ary	Ground
0320	891131	00	17 588099	5317319	A1MM 02	Sed/Water	35	6	Outwash	Clear	Modest	Gy-Blu 131	-	-	Hill	Permt	Ter'ary	Ground
0320	891132	00	17 588165	5317393	A1MM 02	Sed/Water	2	1	Outwash	Clear	Slow	Gy-Blu 031	-	-	Hill	Permt	Pri'ary	Ground
0320	891133	00	17 588492	5316826	A1MM 02	Sed/Water	35	6	Outwash	Clear	Modest	Gy-Blu 131	-	-	Hill	Permt	Ter'ary	Ground
0320	891134	00	17 588596	5316866	A1MM 02	Sed/Water	10	2	Outwash	Clear	Modest	Gy-Blu 221	-	-	Hill	Permt	Pri'ary	Ground

Variable:	Units:																	
	Detection Limit:																	
	Analytical Method:																	
		Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V	Cd	Sb
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm	ppm	ppm	ppm
	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5	0.2	0.2	1
	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	GRAV	NADNC	ISE	AAS	AAS	AAS	AAS
032D 891090 00	55	34	5	43	16	<	722	2	2	2.94	22	3.8	1.1	426	45	<	<	7
032D 891092 00	49	14	6	22	15	<	602	2	2	1.74	24	4.6	0.9	251	31	<	<	3
032D 891093 00	57	15	11	19	10	<	285	2	2	1.52	32	6.1	1.0	257	26	<	<	1
032D 891094 00	30	9	3	13	6	<	138	<	2	0.99	16	2.8	0.6	138	19	<	<	1
032D 891095 00	41	9	3	26	9	<	493	<	2	1.47	24	4.8	0.9	210	22	<	<	<
032D 891096 00	72	13	7	27	13	0.3	926	1	2	1.96	26	6.5	1.0	230	30	<	<	1
032D 891097 00	56	25	7	38	13	0.2	964	2	2	2.61	28	6.8	1.2	380	40	<	<	4
032D 891098 00	30	9	3	13	6	<	247	1	2	1.14	20	3.5	0.8	257	20	<	<	1
032D 891099 00	22	8	3	18	6	0.4	233	1	<	1.19	20	2.9	0.8	174	20	<	<	2
032D 891100 00	52	17	4	24	7	<	703	2	2	1.88	36	7.8	0.9	212	28	<	<	<
032D 891102 00	34	11	2	16	8	<	394	1	<	1.51	26	6.0	0.9	183	20	<	<	1
032D 891103 00	23	8	2	10	4	<	387	1	<	1.16	24	4.7	0.8	157	15	<	<	2
032D 891104 00	21	8	2	13	3	<	208	<	<	1.04	18	3.7	0.9	178	20	<	<	3
032D 891105 10	27	11	2	13	4	<	274	1	<	1.17	20	3.0	0.9	192	18	<	<	7
032D 891106 20	31	11	5	15	4	0.2	449	1	2	1.31	22	4.6	0.8	261	19	<	<	4
032D 891107 00	28	14	3	31	5	<	397	<	<	1.40	20	2.4	0.9	208	20	<	<	6
032D 891108 00	18	6	<	8	3	<	177	<	<	0.93	16	2.8	0.7	251	14	<	<	5
032D 891110 00	54	22	7	23	12	0.2	827	2	2	1.42	76	14.2	0.7	135	20	<	<	6
032D 891111 00	38	16	4	25	5	<	335	1	2	1.38	36	7.9	1.1	213	20	<	<	3
032D 891112 00	31	11	5	17	4	0.3	328	1	<	1.43	24	4.5	1.1	23	19	<	<	5
032D 891113 00	19	6	2	9	2	<	164	<	<	0.85	14	1.9	0.8	165	15	<	<	4
032D 891114 00	30	11	2	15	5	<	469	<	<	1.26	22	3.9	0.9	228	19	<	<	5
032D 891115 00	77	15	6	28	10	<	1068	1	<	2.04	40	9.7	1.4	370	30	<	<	6
032D 891116 00	42	13	5	20	6	<	737	1	<	1.68	32	6.6	1.2	270	23	<	<	2
032D 891117 00	82	16	10	30	16	<	680	2	2	2.39	62	16.4	1.7	279	26	<	<	4
032D 891118 00	39	9	<	15	5	<	494	<	2	1.40	22	3.8	0.8	211	22	<	<	3
032D 891119 00	64	21	7	43	12	<	2038	2	2	3.31	48	10.2	1.2	316	34	<	<	4
032D 891120 00	53	18	5	42	10	<	1337	1	2	2.25	36	9.3	1.7	281	31	<	<	4
032D 891122 00	54	20	7	33	10	<	1095	2	3	2.29	40	8.2	1.5	345	36	<	<	1
032D 891124 00	54	16	5	21	7	<	518	1	2	1.56	28	7.2	0.9	182	20	<	<	2
032D 891125 10	72	18	9	30	14	<	588	3	4	3.48	52	14.9	1.3	266	35	<	<	1
032D 891126 20	76	17	8	30	16	<	581	3	3	3.85	56	14.8	1.1	289	39	<	<	2
032D 891127 00	66	18	9	28	11	0.2	2067	2	2	2.30	36	9.5	1.3	258	35	<	<	3
032D 891128 00	25	13	2	20	4	<	301	1	2	1.22	16	2.2	0.7	165	19	<	<	2
032D 891129 00	71	15	5	39	11	<	244	3	2	2.24	36	7.0	1.4	233	33	<	<	3
032D 891130 00	22	10	3	18	4	<	232	1	<	1.40	18	2.3	0.8	173	22	<	<	2
032D 891131 00	25	9	2	15	4	<	360	1	2	1.11	16	2.8	0.8	131	18	<	<	<
032D 891132 00	40	15	6	24	9	0.3	1409	2	2	1.93	28	6.3	1.3	257	30	<	<	3
032D 891133 00	28	10	3	18	5	0.4	291	1	2	1.27	20	4.0	1.0	158	19	<	<	1
032D 891134 00	23	10	3	15	5	0.4	439	1	<	1.38	16	2.3	0.8	169	22	<	<	3

Variable: Units: Detection Limit: Analytical Method:		Analytical Data													
		Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb			
		pct	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
		0.02	0.2	20	0.2	5	10	0.5	0.5	5	1	0.1	INA	INA	INA
032D	891090	00	1.70	11.0	95	3.8	19	60	2.0	1.2	79	1	0.1		
032D	891092	00	1.50	8.1	110	2.5	20	33	2.4	5.0	49	<	0.1		
032D	891093	00	1.70	8.5	80	2.3	14	38	2.9	3.4	42	1	0.2		
032D	891094	00	2.00	7.5	64	1.8	7	25	1.1	1.3	43	2	<		
032D	891095	00	1.80	8.2	110	2.1	11	48	1.6	1.5	53	2	0.2		
032D	891096	00	1.70	8.4	88	2.7	19	41	1.7	2.1	66	2	0.1		
032D	891097	00	1.50	9.0	88	3.2	15	56	2.1	1.8	73	<	0.2		
032D	891098	00	1.90	7.4	80	2.1	10	<	1.6	1.2	43	2	0.2		
032D	891099	00	2.00	7.8	99	2.2	11	46	1.4	1.2	54	1	0.1		
032D	891100	00	1.60	7.9	83	2.4	11	39	2.4	2.1	52	<	0.2		
032D	891102	00	1.70	7.1	56	2.0	10	38	1.4	2.4	55	<	0.1		
032D	891103	00	1.50	5.6	62	1.5	9	32	1.6	2.0	45	<	0.1		
032D	891104	00	1.70	6.6	84	1.7	9	38	1.3	1.8	49	1	0.1		
032D	891105	10	1.80	6.5	56	1.9	11	27	1.2	1.7	50	2	0.1		
032D	891106	20	1.80	7.5	57	2.2	8	17	1.4	1.7	59	1	0.1		
032D	891107	00	1.80	7.9	150	2.4	11	56	1.4	2.0	51	2	0.2		
032D	891108	00	1.90	6.4	59	1.7	7	20	0.7	2.5	47	2	<		
032D	891110	00	1.60	8.3	140	2.5	19	47	2.7	8.6	40	2	0.2		
032D	891111	00	1.70	7.3	76	2.0	9	37	1.3	4.2	41	1	0.2		
032D	891112	00	1.90	7.9	82	2.3	9	26	1.1	1.6	66	2	<		
032D	891113	00	2.00	6.4	60	1.5	7	28	0.7	0.9	50	<	<		
032D	891114	00	1.80	6.9	78	2.0	11	29	1.2	1.4	54	1	0.1		
032D	891115	00	1.40	7.8	72	2.7	17	47	2.3	2.8	75	<	0.2		
032D	891116	00	1.80	8.4	76	2.6	14	36	1.7	2.2	57	<	0.2		
032D	891117	00	1.30	8.3	92	3.1	20	42	2.4	5.0	47	2	0.2		
032D	891118	00	1.80	7.6	98	2.1	10	21	1.3	1.8	49	<	0.2		
032D	891119	00	1.50	8.8	140	4.0	18	55	3.3	5.3	55	1	0.2		
032D	891120	00	1.60	10.0	110	3.1	15	34	1.8	2.8	68	<	0.1		
032D	891122	00	1.50	9.2	100	3.3	18	43	1.9	2.2	60	1	0.1		
032D	891124	00	1.70	7.6	91	2.3	12	28	1.5	3.5	52	2	0.1		
032D	891125	10	1.30	8.7	94	4.3	22	38	3.8	4.6	63	3	0.1		
032D	891126	20	1.10	7.5	83	4.1	19	61	4.0	5.2	65	2	0.1		
032D	891127	00	1.40	7.7	99	3.0	16	44	3.5	4.9	59	1	0.2		
032D	891128	00	1.90	7.6	140	2.2	11	44	1.5	2.2	50	1	0.2		
032D	891129	00	1.50	8.6	120	3.1	21	40	3.1	3.5	51	2	0.2		
032D	891130	00	1.80	7.4	130	2.1	10	27	1.2	1.5	47	<	0.1		
032D	891131	00	1.80	6.7	87	1.9	7	25	1.4	1.6	53	1	<		
032D	891132	00	1.60	8.6	100	2.9	16	38	2.7	1.7	68	<	0.1		
032D	891133	00	1.80	7.0	88	2.0	10	19	1.3	1.8	60	1	<		
032D	891134	00	1.70	6.2	74	2.0	8	34	1.7	1.5	52	<	<		

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031W, 032D

Analytical Data

Variable:	Units:															
	Detection Limit:															
	Analytical Method:															
	Cs	Ba	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Th	U	Au	Wt
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm
	0.5	50	2	5	0.10	1	0.5	2	0.2	1	0.5	1	0.2	0.2	1	0.01
	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
032D 891090 00	3.9	600	25	53	4.3	<	<	<	<	3	0.7	<	8.0	0.8	2	23.56
032D 891092 00	1.2	410	13	28	3.2	<	<	<	<	5	0.7	<	4.1	1.0	2	26.80
032D 891093 00	1.5	450	15	33	3.3	<	<	<	<	5	0.6	<	3.3	1.1	4	29.61
032D 891094 00	1.3	440	10	21	2.5	<	<	<	<	5	0.6	<	2.1	0.6	<2	32.99
032D 891095 00	1.7	490	16	33	3.2	<	<	<	0.2	5	0.5	<	4.7	0.9	21	26.95
032D 891096 00	2.1	520	16	36	3.0	<	<	<	<	4	<	<	5.2	1.0	<2	25.95
032D 891097 00	3.1	570	24	48	4.0	<	<	<	<	3	0.8	<	7.7	1.0	4	21.61
032D 891098 00	1.2	510	13	28	2.9	<	<	<	<	5	0.6	<	4.1	0.8	28	30.89
032D 891099 00	1.4	520	13	29	2.9	1	<	<	<	5	<	<	3.9	0.9	5	33.48
032D 891100 00	1.5	490	16	34	3.2	<	<	<	<	4	0.7	<	4.5	0.8	5	24.14
032D 891102 00	1.6	530	14	33	3.0	<	<	<	<	5	0.7	<	4.3	1.0	9	27.05
032D 891103 00	1.5	490	11	24	2.5	<	<	<	<	4	<	<	3.3	0.8	8	30.44
032D 891104 00	1.3	550	12	24	3.1	<	<	<	<	6	0.7	<	3.9	1.0	<2	31.75
032D 891105 10	1.6	540	14	31	2.9	<	<	<	<	5	<	<	4.4	0.9	<2	28.35
032D 891106 20	1.6	530	15	33	3.2	<	0.6	<	0.2	5	0.7	<	4.6	0.9	9	27.37
032D 891107 00	2.0	480	16	33	3.3	<	<	<	<	6	<	<	4.3	1.0	6	30.35
032D 891108 00	1.2	480	11	24	2.3	<	<	<	<	5	<	<	3.4	0.8	<2	33.70
032D 891110 00	1.0	410	12	23	2.5	<	<	<	<	4	<	<	3.4	0.7	39	28.93
032D 891111 00	1.9	450	13	26	2.7	<	<	<	<	5	<	<	3.8	0.9	8	27.14
032D 891112 00	1.6	560	18	36	3.3	<	0.6	<	<	5	0.5	<	5.0	1.0	4	25.43
032D 891113 00	1.4	520	11	26	2.5	<	<	<	<	5	<	<	3.4	0.8	<2	32.82
032D 891114 00	1.2	560	14	34	3.0	<	<	<	<	5	0.6	<	4.4	0.8	3	26.03
032D 891115 00	2.6	560	21	50	4.1	<	<	<	<	4	0.7	<	6.5	1.5	5	27.06
032D 891116 00	2.3	570	18	38	3.6	<	<	<	0.2	5	0.6	<	5.4	1.3	7	31.55
032D 891117 00	2.8	570	17	36	3.0	<	<	<	<	4	0.6	<	5.4	1.5	3	23.55
032D 891118 00	2.1	530	13	26	2.8	<	<	<	<	4	0.5	<	4.0	0.9	4	30.57
032D 891119 00	2.9	590	20	46	3.4	<	<	<	<	4	0.6	<	5.3	1.2	3	23.85
032D 891120 00	2.2	570	26	59	4.6	<	0.6	<	<	5	0.6	<	6.9	1.7	3	27.00
032D 891122 00	2.7	520	25	55	4.2	<	<	<	<	4	0.8	<	6.9	1.3	4	23.59
032D 891124 00	2.2	540	13	31	2.7	<	<	<	<	4	<	<	4.0	0.9	9	28.43
032D 891125 10	3.2	550	17	37	3.0	<	<	<	<	3	0.7	<	5.8	1.3	4	23.62
032D 891126 20	2.9	500	16	32	3.0	<	<	<	<	3	0.7	<	5.8	1.2	9	24.27
032D 891127 00	2.6	600	19	47	4.0	<	0.6	<	<	4	0.5	<	6.4	1.3	3	27.40
032D 891128 00	1.2	520	14	32	3.0	<	<	<	<	4	<	<	3.5	0.8	9	32.67
032D 891129 00	2.0	570	17	44	3.3	<	<	<	<	5	0.6	<	5.5	1.2	5	24.41
032D 891130 00	1.3	570	15	34	3.1	<	<	<	<	5	<	<	4.2	0.9	21	31.30
032D 891131 00	1.5	520	14	30	2.8	<	<	<	<	5	0.6	<	4.2	0.9	3	31.73
032D 891132 00	2.3	510	25	55	4.4	<	<	<	<	5	0.6	<	7.8	1.3	<2	28.64
032D 891133 00	1.5	500	15	28	3.1	<	<	<	<	5	0.7	<	4.5	1.0	<2	33.21
032D 891134 00	1.3	480	14	28	2.9	<	<	<	<	5	0.6	<	4.6	0.9	<2	22.53

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D
Field Data

Map Sheet	Sample ID	Rep Stat	Zn Easting	UTM Northing	Rock Unit	Age	Sample Type	Stream Width	Stream Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour	Sample Comp	Bottom Pcpt	Bank Pcpt	Stream Physiol.	Drainage	Type	Stream Class	Source	
032D	891135	00	17	589718	5321147	AMC	02	Sed/Water	10	6	-	Outwash	Clear	Slow	Gy-Blu	221	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891136	00	17	589756	5320981	AMC	02	Sed/Water	4	1	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891137	00	17	589562	5320824	AMC	02	Sed/Water	4	2	-	Outwash	Clear	Slow	Gy-Blu	211	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891138	00	17	589907	5324194	AFIS	02	Sed/Water	3	1	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Sec'ary	Ground
032D	891139	00	17	589389	5323919	AFIS	02	Sed/Water	4	3	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Sec'ary	Ground
032D	891140	00	17	589273	5323834	AFIS	02	Sed/Water	50	13	Possible	Outwash	Clear	Moder	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Ter'ary	Ground
032D	891142	00	17	589730	5322437	AMM	02	Sed/Water	4	1	-	Outwash	Clear	Moder	Gy-Blu	031	-	-	Hill	Dendrc	Permnt	Sec'ary	Ground
032D	891143	00	17	598187	5336347	AMM	02	Sed/Water	3	6	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891144	00	17	598574	5335585	AMM	02	Sed/Water	3	6	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891145	00	17	598417	5335282	AIMM	02	Sed/Water	3	2	-	Organic	Clear	Slow	Rd-Bn	013	-	-	Swamp	Dendrc	Permnt	Pri'ary	Ground
032D	891146	10	17	598526	5335218	AIMM	02	Sed/Water	2	2	-	Alluv	Clear	Stagnt	Black	013	-	-	Swamp	Dendrc	Intermit	Pri'ary	Ground
032D	891147	20	17	598526	5335218	AIMM	02	Sed/Water	2	2	-	Alluv	Clear	Stagnt	Black	013	-	-	Swamp	Dendrc	Intermit	Pri'ary	Ground
032D	891148	00	17	594553	5317517	AIMM	02	Sed/Water	37	10	Possible	Outwash	Clear	Moder	Gy-Blu	031	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891149	00	17	594519	5318405	AIMM	02	Sed/Water	40	5	-	Alluv	Clear	Moder	Rd-Bn	131	-	-	Plain	Dendrc	Permnt	Pri'ary	Ground
032D	891150	00	17	594800	5318810	AMC	02	Sed/Water	6	2	-	Outwash	Clear	Slow	Gy-Blu	121	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground
032D	891151	00	17	594985	5319039	AMC	02	Sed/Water	6	2	-	Outwash	Clear	Slow	Gy-Blu	131	-	-	Hill	Dendrc	Permnt	Pri'ary	Ground

Analytical Data

Variable:		Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb
Units:		pct	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit:		0.02	0.2	20	0.2	5	10	0.5	0.5	5	1	0.1
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
032D	891135	00	1.70	7.0	77	2.8	13	36	3.5	2.3	58	< 0.1
032D	891136	00	1.50	8.0	81	3.0	16	39	2.7	1.8	81	1 0.1
032D	891137	00	1.50	5.3	68	1.4	6	38	0.9	1.4	52	<
032D	891138	00	1.50	7.1	72	2.3	12	45	1.4	1.7	73	< 0.1
032D	891139	00	1.50	8.5	89	2.9	13	45	1.6	1.9	73	< 0.1
032D	891140	00	1.80	7.2	61	2.1	11	15	1.5	1.8	58	< 0.1
032D	891142	00	1.60	8.3	83	2.5	13	31	1.2	2.0	63	< 0.1
032D	891143	00	1.50	8.7	71	2.7	18	22	2.1	2.5	52	< 0.2
032D	891144	00	1.30	11.0	120	3.7	18	27	2.0	2.3	74	< 0.1
032D	891145	00	0.08	2.1	<	3.9	9	11	11.0	26.0	6	2 0.2
032D	891146	10	0.36	7.1	48	1.3	7	18	1.7	13.0	27	< 0.2
032D	891147	20	0.30	6.3	54	1.1	5	16	1.6	12.0	25	< 0.2
032D	891148	00	1.60	7.8	100	2.2	12	45	1.9	2.5	49	< 0.1
032D	891149	00	1.10	6.7	75	2.4	12	51	3.0	4.8	60	< 0.2
032D	891150	00	1.80	7.8	160	2.4	12	30	1.6	1.2	59	< 0.2
032D	891151	00	1.60	7.6	120	2.3	12	49	1.7	2.2	48	< 0.2

National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data. Ontario, 1990, GSC OF-2178, NGR 140-1990. NTS 031M, 032D

Variable:		Cs	Ba	La	Ce	Sm	Eu	Tb	Yb	Lu	Hf	Ta	W	Th	U	Au	Wt	Au1	Au1/Wt	pH	F-W	U-W
Units:		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	-	ppb	ppb
Detection Limit:		0.5	50	2	5	0.10	1	0.5	2	0.2	1	0.5	1	0.2	0.2	1	0.01	1	0.01	-	20	0.05
Analytical Method:		INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	-	INA	-	GCM	ISE	LIF
0320	891135	00	1.6	530	16	36	3.1	<	<	<	5	0.5	<	4.9	0.9	4	26.83	-	-	6.8	30.	<
0320	891136	00	3.1	610	22	52	4.0	<	<	<	4	0.6	<	7.2	1.2	4	23.32	-	-	7.0	30.	<
0320	891137	00	1.0	500	12	24	2.9	<	<	<	6	<	<	5.0	1.2	31	26.92	-	-	6.9	30.	<
0320	891138	00	2.4	550	17	37	3.7	<	<	<	5	0.7	<	6.1	1.3	2	27.10	-	-	7.3	30.	0.11
0320	891139	00	2.6	580	22	47	4.1	<	<	<	5	<	<	7.1	1.2	<2	24.08	-	-	7.1	30.	<
0320	891140	00	1.9	540	15	36	3.2	<	0.5	<	5	0.5	<	4.9	1.1	3	29.63	-	-	7.2	30.	<
0320	891142	00	2.4	500	21	43	3.7	<	<	<	4	<	<	5.4	1.4	<2	26.57	-	-	7.0	50.	<
0320	891143	00	2.5	480	17	39	3.1	<	<	<	4	0.6	<	5.9	1.2	<2	22.91	-	-	6.8	30.	<
0320	891144	00	4.4	580	35	66	5.7	<	0.5	<	3	0.8	<	10.0	3.0	<2	21.22	-	-	6.5	30.	<
0320	891145	00	0.6	100	8	18	1.2	<	<	<	<	<	<	1.1	0.4	<2	13.95	<2	16.39	6.6	20.	<
0320	891146	10	1.8	250	21	43	2.9	<	<	<	1	<	<	5.5	2.9	<2	19.39	-	-	6.6	20.	<
0320	891147	20	1.8	160	20	43	2.8	<	<	<	1	<	<	5.5	3.1	<2	16.19	-	-	6.5	20.	<
0320	891148	00	1.7	620	14	32	2.8	<	<	<	4	<	<	4.5	0.9	3	28.28	-	-	7.3	30.	<
0320	891149	00	2.8	550	18	38	3.6	<	<	<	3	0.6	<	5.6	1.7	3	20.66	-	-	7.3	40.	<
0320	891150	00	1.7	550	15	32	3.0	<	<	<	5	0.6	<	4.5	0.9	4	29.20	-	-	7.2	40.	<
0320	891151	00	1.6	490	14	31	2.8	<	<	<	4	<	<	4.2	1.0	<2	24.89	-	-	6.9	30.	<

Summary Statistics for Total Data Set

Variable Units Detection Limit Analytical Method	Zn	Cu	Pb	Ni	Co	Ag	Mn	As	Mo	Fe	Hg	LOI	U	F	V
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	pct	ppm	ppm	ppm
	2	2	2	2	2	0.2	5	1	2	0.02	10	1.0	0.5	20	5
Number of Missing Values															
Number of Values	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Values > D.L.	200	200	190	200	200	80	200	158	131	200	187	200	199	200	200
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	60.81	19.05	10.51	29.25	11.23	0.1835	849.14	3.10	1.77	2.07	40.01	11.31	1.30	219.56	27.97
Standard Deviation	58.59	16.68	32.61	21.86	12.20	0.1279	1484.03	9.45	0.7139	0.8871	36.71	14.74	0.7697	81.37	10.66
Skewness	6.65	3.31	12.40	4.82	8.82	1.58	10.86	7.51	1.52	0.6363	2.30	3.15	4.10	0.4293	0.7834
Excess Kurtosis	63.79	13.34	163.59	37.79	101.89	1.86	135.98	62.20	6.02	-0.1641	5.14	10.37	27.36	0.0189	0.2357
Coef. of Var. %	96.35	0.0000	310.44	74.73	108.61	0.0000	174.77	0.0000	0.0000	0.0000	91.74	130.31	0.0000	37.06	38.10
Std Error of the Mean	4.14	1.18	2.31	1.55	0.8629	0.0090	104.94	0.6680	0.0505	0.0627	2.60	1.04	0.0544	5.75	0.0455
Lower 95% limit on Mean	52.64	16.72	5.96	26.20	9.53	0.1657	642.20	1.78	1.67	1.95	34.90	9.26	1.20	208.21	26.48
Upper 95% limit on Mean	68.97	21.38	15.05	32.29	12.94	0.2013	1056.08	4.41	1.87	2.20	45.13	13.37	1.41	230.91	29.46
Geometric Statistics															
Mean	48.82	15.16	6.04	24.52	8.99	0.1527	572.67	1.43	1.64	1.88	29.54	7.16	1.17	202.99	26.06
Log10 Mean	1.69	1.18	0.7811	1.39	0.9535	-0.8161	2.76	0.1552	0.2153	0.2751	1.47	0.8548	0.0689	2.31	1.42
Log10 S.D.	0.2722	0.2779	0.3723	0.2541	0.2700	0.2469	0.3640	0.4013	0.1694	0.1943	0.3369	0.3843	0.1872	0.1851	0.1645
Log10 Std. Error of Mean	0.0192	0.0196	0.0263	0.0180	0.0191	0.0175	0.0257	0.0284	0.0120	0.0137	0.0238	0.0272	0.0132	0.0131	0.0116
Lower 95% limit on Mean	44.74	13.87	5.36	22.60	8.24	0.1411	509.51	1.26	1.55	1.77	26.51	6.33	1.10	191.28	24.72
Upper 95% limit on Mean	53.28	16.57	6.81	26.60	9.80	0.1653	643.66	1.63	1.73	2.01	32.91	8.10	1.24	215.42	27.48
Percentiles															
Min Value	12.00	3.00	1.00	6.00	2.00	0.1000	43.00	0.5000	1.00	0.6000	5.00	1.10	0.2500	23.00	11.00
25th %tile	30.00	10.00	4.00	17.00	6.00	0.1000	303.00	1.00	1.00	1.41	20.00	3.90	0.9000	158.00	20.00
50th %tile	52.00	15.00	6.00	26.00	9.00	0.1000	599.00	1.00	2.00	1.95	28.00	7.10	1.10	210.00	26.00
75th %tile	73.00	22.00	10.00	37.00	13.00	0.2000	1080.00	2.00	2.00	2.61	43.00	11.20	1.40	269.00	34.00
80th %tile	81.00	23.00	11.00	41.00	15.00	0.3000	1156.00	2.00	2.00	2.81	48.00	12.70	1.50	283.00	36.00
90th %tile	97.00	32.00	13.00	47.00	20.00	0.4000	1603.00	4.00	2.00	3.37	77.00	21.30	2.10	331.00	41.00
95th %tile	113.00	48.00	22.00	54.00	24.00	0.5000	1714.00	7.00	3.00	3.77	136.00	38.20	2.50	370.00	48.00
98th %tile	198.00	81.00	41.00	61.00	29.00	0.5000	2067.00	19.00	4.00	4.16	164.00	66.20	3.20	397.00	55.00
99th %tile	248.00	97.00	55.00	121.00	31.00	0.6000	2351.00	56.00	4.00	4.34	176.00	76.50	3.50	426.00	57.00
Max Value	686.00	120.00	451.00	232.00	158.00	0.7000	20000	98.00	6.00	4.52	184.00	89.60	7.90	462.00	62.00

Summary Statistics for Total Data Set

Variable Units	Sb	Sn	Na	Sc	Cr	Fe	Co	Ni	As	Br	Rb	Mo	Sb	Cs	Ba	La
Detection Limit	ppm 0.2	ppm 1	pct 0.02	ppm 0.2	ppm 20	pct 0.2	ppm 5	ppm 10	ppm 0.5	ppm 0.5	ppm 5	ppm 1	ppm 0.1	ppm 0.5	ppm 50	ppm 2
Analytical Method	AAS	AAS	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA
Number of Values	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Values > D.L.	42	180	199	199	197	199	196	189	199	199	197	103	173	197	199	199
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0.1935	3.39	1.73	9.04	108.21	2.58	16.98	39.12	4.82	5.37	57.31	1.56	0.1853	1.96	495.33	20.04
Standard Deviation	0.4774	2.26	0.4793	2.16	70.01	0.8000	15.75	22.12	13.87	9.29	23.75	1.30	0.2370	0.9351	119.71	9.46
Skewness	7.71	1.15	-1.37	-0.3303	2.75	0.2076	9.30	1.94	8.01	4.70	0.6566	1.03	7.76	0.6803	-1.15	3.15
Excess Kurtosis	64.32	1.96	2.45	1.65	13.99	0.3630	110.03	9.07	73.17	26.57	0.7815	0.2706	68.75	0.0018	2.74	18.99
Coef. of Var. %	0.0000	0.0000	0.0000	23.91	64.70	0.0000	0.0000	0.0000	0.0000	0.0000	41.44	0.0000	0.0000	0.0000	24.17	0.0000
Std Error of the Mean	0.0338	0.1595	0.0339	0.1528	4.95	0.0566	1.11	1.56	0.9807	0.6566	1.68	0.0916	0.0168	0.0661	8.46	0.6690
Lower 95% limit on Mean	0.1269	3.08	1.66	8.74	98.45	2.47	14.78	36.03	2.89	4.07	54.00	1.38	0.1522	1.83	478.64	18.72
Upper 95% limit on Mean	0.2601	3.71	1.79	9.34	117.97	2.69	19.18	42.20	6.75	6.66	60.62	1.74	0.2183	2.09	512.02	21.36
Geometric Statistics																
Mean	0.1262	2.63	1.57	8.62	91.50	2.42	14.47	32.90	2.45	3.12	51.17	1.10	0.1436	1.73	470.58	18.38
Log10 Mean	-0.8988	0.4197	0.1958	0.9355	1.96	0.3836	1.16	1.52	0.3893	0.4948	1.71	0.0418	-0.8427	0.2376	2.67	1.26
Log10 S.D.	0.2575	0.3411	0.2663	0.1785	0.2574	0.1807	0.2309	0.2829	0.3754	0.3804	0.2457	0.3629	0.2779	0.2296	0.1709	0.1849
Log10 Std. Error of Mean	0.0182	0.0241	0.0188	0.0126	0.0182	0.0128	0.0163	0.0200	0.0265	0.0269	0.0174	0.0257	0.0197	0.0162	0.0121	0.0131
Lower 95% limit on Mean	0.1162	2.36	1.44	8.14	84.24	2.28	13.43	30.05	2.17	2.77	47.29	0.9800	0.1314	1.61	445.46	17.32
Upper 95% limit on Mean	0.1371	2.93	1.71	9.13	99.38	2.56	15.58	36.03	2.76	3.53	55.37	1.24	0.1571	1.86	497.12	19.50
Percentiles																
Min Value	0.1000	0.5000	0.0100	0.1000	10.00	0.1000	2.50	5.00	0.2500	0.2500	2.50	0.5000	0.0500	0.2500	25.00	1.00
25th %tile	0.1000	2.00	1.50	7.80	62.00	2.00	11.00	24.00	1.40	1.80	43.00	0.5000	0.1000	1.20	440.00	14.00
50th %tile	0.1000	3.00	1.80	8.80	88.00	2.50	14.00	38.00	2.30	2.50	53.00	1.00	0.2000	1.80	500.00	18.00
75th %tile	0.1000	4.00	2.04	10.00	140.00	3.10	20.00	50.00	3.30	4.50	68.00	2.00	0.2000	2.60	570.00	23.00
80th %tile	0.2000	5.00	2.10	11.00	150.00	3.30	21.00	54.00	3.80	4.90	73.00	3.00	0.2000	2.70	580.00	25.00
90th %tile	0.2000	6.00	2.24	12.00	170.00	3.70	27.00	62.00	6.00	11.00	87.00	3.00	0.3000	3.20	620.00	30.00
95th %tile	0.3000	8.00	2.31	13.00	240.00	3.90	32.00	66.00	11.00	21.00	100.00	4.00	0.4000	3.90	660.00	38.00
98th %tile	1.20	9.00	2.38	13.00	300.00	4.30	38.00	78.00	25.00	34.00	120.00	4.00	0.5000	4.20	710.00	42.00
99th %tile	3.20	9.00	2.41	14.00	310.00	4.50	41.00	130.00	76.80	41.00	120.00	5.00	0.5000	4.40	740.00	50.00
Max Value	5.00	14.00	2.46	15.00	620.00	4.90	210.00	180.00	154.00	75.90	130.00	6.00	2.50	4.90	780.00	95.00

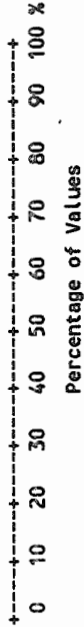
Summary Statistics for Total Data Set

Variable Units Detection Limit Analytical Method	Ce ppm 5 INA	Sm ppm 0.10 INA	Eu ppm 1 INA	Tb ppm 0.5 INA	Yb ppm 2 INA	Lu ppm 0.2 INA	Hf ppm 1 INA	Ta ppm 0.5 INA	W ppm 1 INA	Th ppm 0.2 INA	U ppm 0.2 INA	Au ppb 1 INA	Wt gm 0.01 -	Au1 ppb 1 INA	u1/Wt gm 0.01 -	pH - GCM	F-W ppb 20 ISE	U-W ppb 0.05 LIF
Number of Values	200	200	200	200	200	200	200	200	200	200	200	26	200	26	25	198	198	198
Values > D.L.	200	200	23	54	1	53	193	134	13	200	200	17	200	17	25	198	196	32
Number of Missing Values	0	0	0	0	0	0	0	0	0	0	0	174	0	174	175	2	2	2
Mean	38.94	3.33	0.5825	0.3530	1.00	0.1400	3.82	0.5330	0.5475	5.34	1.24	23.75	23.84	23.75	19.90	6.88	48.64	0.0931
Standard Deviation	20.16	1.12	0.3201	0.1787	0.0707	0.0750	1.32	0.2228	0.2103	2.48	0.7159	73.42	6.49	73.42	6.44	0.5455	21.84	0.2783
Skewness	2.10	2.10	7.16	1.35	13.93	1.83	-0.1882	-0.0286	5.43	1.22	3.80	3.79	-0.0824	3.79	-0.1785	-0.7899	0.6712	6.74
Excess Kurtosis	6.42	8.55	66.11	0.2841	193.03	2.49	1.48	-1.05	32.23	1.68	23.09	14.10	-0.0345	14.10	-1.21	1.05	1.15	52.89
Coef. of Var. %	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	309.13	27.22	309.13	32.34	7.93	0.0000	0.0000
Std Error of the Mean	1.43	0.0794	0.0226	0.0126	0.0050	0.0053	0.0931	0.0158	0.0149	0.1751	0.0506	14.40	0.4588	14.40	1.29	0.0388	1.55	0.0198
Lower 95% limit on Mean	36.12	3.17	0.5379	0.3281	0.9951	0.1295	3.63	0.5019	0.5182	5.00	1.14	-5.91	22.94	-5.91	17.25	6.80	45.58	0.0541
Upper 95% limit on Mean	41.75	3.49	0.6271	0.3779	1.01	0.1505	4.00	0.5641	0.5768	5.69	1.34	53.41	24.75	53.41	22.56	6.96	51.70	0.1321
Geometric Statistics																		
Mean	35.01	3.17	0.5490	0.3198	1.00	0.1266	3.48	0.4801	0.5285	4.83	1.12	3.14	22.84	3.14	18.76	6.86	43.59	0.0368
Log10 Mean	1.54	0.5016	-0.2604	-0.4951	0.0015	-0.8977	0.5414	-0.3186	-0.2769	0.6841	0.0497	0.4967	1.36	0.4967	1.27	0.8362	1.64	-1.43
Log10 S.D.	0.1962	0.1318	0.1232	0.1804	0.0213	0.1793	0.2211	0.2087	0.0971	0.1970	0.1812	0.7774	0.1336	0.7774	0.1597	0.0359	0.2123	0.4153
Log10 Std. Error of Mean	0.0139	0.0093	0.0087	0.0128	0.0015	0.0127	0.0156	0.0148	0.0069	0.0139	0.0128	0.1525	0.0094	0.1525	0.0319	0.0026	0.0151	0.0295
Lower 95% limit on Mean	32.87	3.04	0.5277	0.3018	0.9966	0.1195	3.24	0.4490	0.5123	4.54	1.06	1.52	21.89	1.52	16.12	6.78	40.70	0.0322
Upper 95% limit on Mean	37.28	3.31	0.5712	0.3389	1.01	0.1341	3.73	0.5134	0.5453	5.15	1.19	6.47	23.85	6.47	21.84	6.94	46.68	0.0421
Percentiles																		
Min Value	10.00	1.20	0.5000	0.2500	1.00	0.1000	0.5000	0.2500	0.5000	1.10	0.4000	0.5000	7.83	0.5000	7.95	4.80	10.00	0.0250
25th %tile	26.00	2.70	0.5000	0.2500	1.00	0.1000	3.00	0.2500	0.5000	3.60	0.9000	0.5000	19.82	0.5000	14.93	6.60	30.00	0.0250
50th %tile	35.00	3.10	0.5000	0.2500	1.00	0.1000	4.00	0.6000	0.5000	4.90	1.00	3.00	23.85	3.00	19.35	6.90	50.00	0.0250
75th %tile	44.00	3.70	0.5000	0.5000	1.00	0.2000	5.00	0.7000	0.5000	6.50	1.40	7.00	28.28	7.00	26.11	7.30	60.00	0.0250
80th %tile	50.00	3.90	0.5000	0.5000	1.00	0.2000	5.00	0.7000	0.5000	7.10	1.50	8.00	28.93	8.00	26.13	7.30	70.00	0.0250
90th %tile	60.00	4.60	1.00	0.7000	1.00	0.3000	5.00	0.8000	0.5000	8.30	2.00	11.00	32.66	49.00	28.29	7.50	80.00	0.1900
95th %tile	75.00	5.40	1.00	0.7000	1.00	0.3000	6.00	0.8000	1.00	10.00	2.40	130.00	33.49	130.00	28.60	7.70	80.00	0.4400
98th %tile	100.00	6.20	1.00	0.8000	1.00	0.4000	6.00	0.9000	1.00	13.00	3.00	360.00	37.07	360.00	29.72	7.80	90.00	0.8100
99th %tile	110.00	7.00	2.00	0.8000	1.00	0.4000	6.00	1.00	2.00	13.00	3.40	360.00	38.25	360.00	29.72	7.90	110.00	1.83
Max Value	150.00	10.40	4.00	0.9000	2.00	0.4000	9.00	1.10	2.00	14.00	7.10	360.00	43.32	360.00	29.72	8.00	150.00	2.78

Statistics per Variable

Variable - Antimony [Sb]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

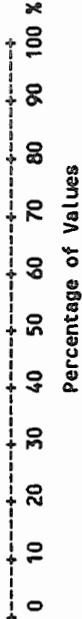
				Total	AIMM	PHCG	AMC	PMI	AFIS
				Number of Values					
				200	73	54	24	21	14
				Number of Values > D.L.					
				42	10	20	3	8	1
				Number of Missing Values					
				0	0	0	0	0	0
				Mean					
				0.19	0.12	0.31	0.27	0.15	0.18
				Standard Deviation					
				0.48	0.047	0.79	0.65	0.075	0.29
				Skewness					
				7.71	3.62	4.87	3.85	0.94	2.98
				Excess Kurtosis					
				64.32	16.10	23.87	14.21	-0.67	7.41
				Coef. of Var. %					
				246.74	40.52	255.90	240.15	49.19	164.63
				Std. Error of the Mean					
				0.03	0	0.11	0.13	0.016	0.079
				Lower 95% Limit on Mean					
				0.13	0.11	0.093	-0	0.12	0
				Upper 95% Limit on Mean					
				0.26	0.13	0.52	0.55	0.19	0.35
				Geometric Statistics					
				0.13	0.11	0.15	0.13	0.14	0.12
				Log10 Mean					
				-0.90	-0.95	-0.81	-0.88	-0.86	-0.92
				Log10 S.D.					
				0.26	0.12	0.35	0.36	0.19	0.29
				Log10 Std. Error of Mean					
				0.02	0.014	0.048	0.074	0.042	0.077
				Lower 95% Limit on Mean					
				0.12	0.10	0.12	0.092	0.11	0.081
				Upper 95% Limit on Mean					
				0.14	0.12	0.19	0.19	0.17	0.18
				Percentiles					
				0.10	0.10	0.10	0.10	0.10	0.10
				Min Value					
				0.10	0.10	0.10	0.10	0.10	0.10
				25th %tile					
				0.10	0.10	0.10	0.10	0.10	0.10
				50th %tile					
				0.10	0.10	0.20	0.10	0.20	0.10
				75th %tile					
				0.20	0.10	0.20	0.10	0.20	0.10
				80th %tile					
				0.20	0.10	0.20	0.10	0.20	0.10
				90th %tile					
				0.20	0.20	0.30	0.20	0.30	0.10
				95th %tile					
				0.30	0.20	1.20	1.00	0.30	1.20
				98th %tile					
				1.20	0.20	3.20	3.20	0.30	1.20
				99th %tile					
				3.20	0.40	5.00	3.20	0.30	1.20
				Max Value					
				5.00	0.40	5.00	3.20	0.30	1.20



Statistics per Variable

Variable - Antimony [Sb]
Number of Values - 200
Units - ppm
Detection Limit - 0.1
Analytical Method - INA

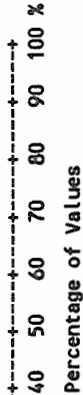
Percentage of Values											
0 10 20 30 40 50 60 70 80 90 100 %											
-----+											



Statistics per Variable

Variable - Arsenic [As]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - AAS

	N	%	Cum %
ppm			
0.1-			
0.2-			
0.5-	42	21.0	21.0
1.0-	72	36.0	57.0
2.0-	49	24.5	81.5
5.0-	24	12.0	93.5
10.0-	6	3.0	96.5
20.0-	3	1.5	98.0
50.0-	1	0.5	98.5
100.0-	3	1.5	100.0

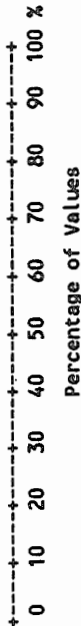


Total		AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	158	57	45	20	14	11
Number of Missing Values	0	0	0	0	0	0
Mean	3.10	1.63	5.12	3.38	1.88	5.89
Standard Deviation	9.45	1.46	15.68	6.86	2.38	14.68
Skewness	7.51	2.61	4.83	4.06	1.91	2.81
Excess Kurtosis	62.20	7.58	23.49	15.82	2.29	6.71
Coef. of Var. %	305.22	89.43	306.25	203.28	126.62	249.12
Std. Error of the Mean	0.67	0.17	2.13	1.40	0.52	3.92
Lower 95% Limit on Mean	1.78	1.29	0.84	0.48	0.80	-2.58
Upper 95% Limit on Mean	4.41	1.97	9.40	6.27	2.97	14.37
Geometric Statistics						
Mean	1.43	1.25	1.69	1.81	1.16	1.66
Log10 Mean	0.16	0.098	0.23	0.26	0.065	0.22
Log10 S.D.	0.40	0.30	0.48	0.41	0.39	0.57
Log10 Std. Error of Mean	0.03	0.035	0.065	0.084	0.085	0.15
Lower 95% Limit on Mean	1.26	1.07	1.25	1.21	0.77	0.78
Upper 95% Limit on Mean	1.63	1.47	2.28	2.70	1.75	3.56
Percentiles						
Min Value	0.50	0.50	0.50	0.50	0.50	0.50
25th %tile	1.00	1.00	1.00	1.00	0.50	1.00
50th %tile	1.00	1.00	1.00	2.00	1.00	1.00
75th %tile	2.00	2.00	2.00	3.00	2.00	2.00
80th %tile	2.00	2.00	3.00	3.00	2.00	4.00
90th %tile	4.00	3.00	4.00	5.00	6.00	11.00
95th %tile	7.00	5.00	19.00	5.00	7.00	56.00
98th %tile	19.00	7.00	64.00	35.00	9.00	56.00
99th %tile	56.00	8.00	98.00	35.00	9.00	56.00
Max Value	98.00	8.00	98.00	35.00	9.00	56.00

Statistics per Variable

Variable - Arsenic [As]
Number of Values - 200
Units - ppm
Detection Limit - 0.5
Analytical Method - INA

ppm	N	%	Cum %
0.1 -	2	1.0	1.0
0.2 -	14	7.0	8.0
0.5 -	74	37.0	45.0
1.0 -	83	41.5	86.5
2.0 -	15	7.5	94.0
5.0 -	6	3.0	97.0
10.0 -	2	1.0	98.0
20.0 -	3	1.5	99.5
50.0 -	1	0.5	100.0
100.0 -			
200.0 -			



Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21
Number of Values > D.L.	199	73	54	24	21
Number of Missing Values	0	0	0	0	0
Mean	4.82	2.54	8.20	4.85	3.53
Standard Deviation	13.87	2.30	23.26	9.88	4.03
Skewness	8.01	3.17	5.17	4.10	1.81
Excess Kurtosis	73.17	10.94	27.54	16.03	1.94
Coef. of Var. %	287.69	90.73	283.82	203.81	114.05
Std. Error of the Mean	0.98	0.27	3.17	2.02	0.88
Lower 95% limit on Mean	2.89	2.00	1.85	0.67	1.70
Upper 95% limit on Mean	6.75	3.07	14.55	9.02	5.37
Geometric Statistics					
Mean	2.45	2.02	3.39	2.79	2.34
Log10 Mean	0.39	0.31	0.53	0.45	0.37
Log10 S.D.	0.38	0.27	0.42	0.35	0.37
Log10 Std. Error of Mean	0.03	0.032	0.058	0.072	0.081
Lower 95% limit on Mean	2.17	1.75	2.60	1.98	1.59
Upper 95% limit on Mean	2.76	2.34	4.42	3.94	3.45
Percentiles					
Min Value	0.25	0.60	1.00	0.90	0.60
25th %tile	1.40	1.40	2.10	1.70	1.30
50th %tile	2.30	1.90	2.80	2.50	1.80
75th %tile	3.30	2.70	4.70	3.40	2.80
80th %tile	3.80	3.10	5.60	4.20	3.90
90th %tile	6.00	3.80	7.20	7.00	10.00
95th %tile	11.00	7.80	25.00	7.40	13.00
98th %tile	25.00	11.00	82.70	50.50	76.80
99th %tile	76.80	14.00	154.00	50.50	76.80
Max Value	154.00	14.00	154.00	50.50	76.80

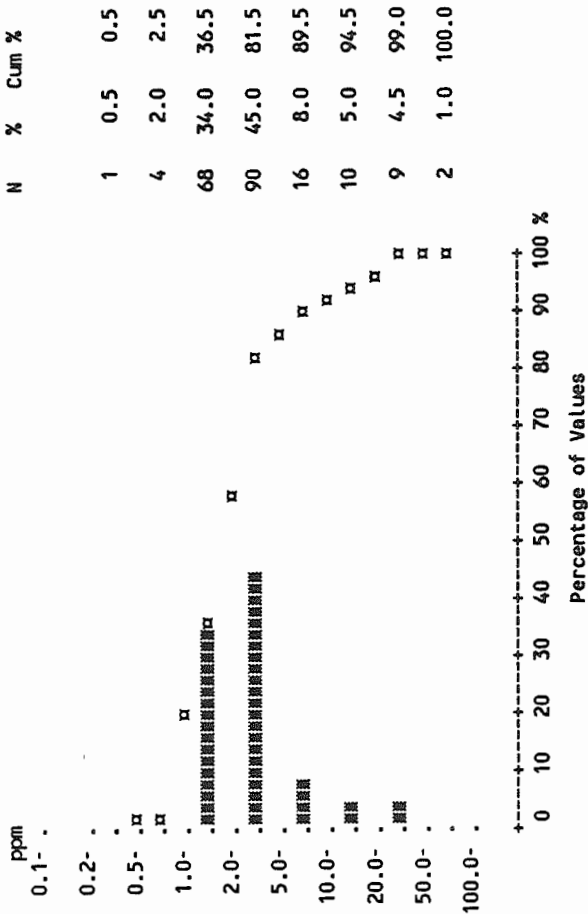
Statistics per Variable

Variable - Barium [Ba]
Number of Values - 200
Units - ppm
Detection Limit - 50
Analytical Method - INA

		N		%		Cum %		Total						
ppm								AIMM						
								PHCG						
								AMC						
								PMI						
								AFIS						
10- .														
20- .														
50- .														
100- .														
200- .														
500- .														
1000- .														

Statistics per Variable

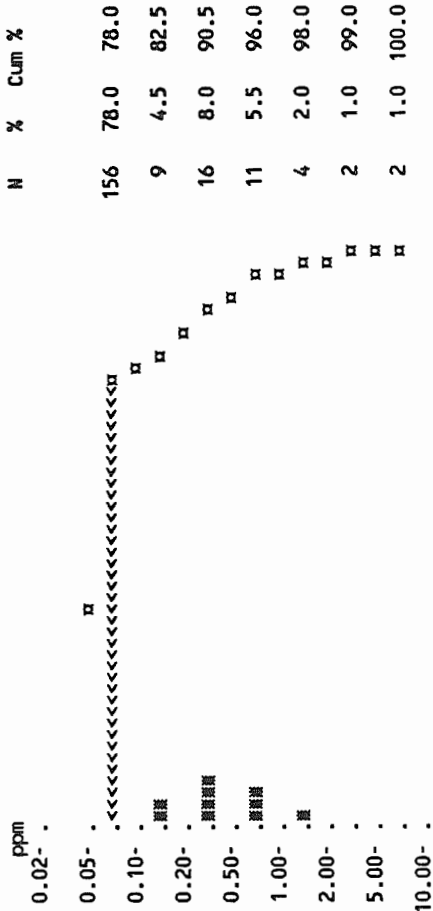
Variable - Bromine [Br]
Number of Values - 200
Units - ppm
Detection Limit - 0.5
Analytical Method - INA



Total		AIMM	PHCG	AMC	PMI	AFIS
Number of Values		200	73	54	24	14
Number of Values > D.L.		199	73	54	24	14
Number of Missing Values		0	0	0	0	0
Mean		5.37	5.21	7.38	3.31	5.47
Standard Deviation		9.29	9.03	12.62	3.97	7.25
Skewness		4.70	4.90	3.70	3.67	1.55
Excess Kurtosis		26.57	27.99	14.97	13.45	0.86
Coef. of Var. %		172.92	173.55	171.03	120.03	132.49
Std. Error of the Mean		0.66	1.06	1.72	0.81	1.58
Lower 95% limit on Mean		4.07	3.10	3.94	1.63	2.17
Upper 95% limit on Mean		6.66	7.31	10.83	4.99	8.77
Geometric Statistics						
Mean		3.12	3.15	4.12	2.52	2.89
Log10 Mean		0.49	0.50	0.61	0.40	0.48
Log10 S.D.		0.38	0.36	0.40	0.27	0.46
Log10 Std. Error of Mean		0.03	0.042	0.054	0.056	0.10
Lower 95% limit on Mean		2.77	2.59	3.21	1.93	1.77
Upper 95% limit on Mean		3.53	3.82	5.28	3.28	4.97
Percentiles						
Min Value		0.25	0.90	1.20	1.20	1.20
25th %tile		1.80	1.80	2.40	1.70	1.70
50th %tile		2.50	2.50	3.40	2.20	1.90
75th %tile		4.50	4.60	5.80	3.00	4.20
80th %tile		4.90	4.90	7.40	3.50	5.50
90th %tile		11.00	9.40	14.00	4.70	6.00
95th %tile		21.00	20.00	38.00	6.50	34.00
98th %tile		34.00	32.00	41.00	21.00	34.00
99th %tile		41.00	66.70	75.90	24.00	34.00
Max Value		75.90	66.70	75.90	24.00	34.00

Statistics per Variable

Variable - Cadmium [Cd]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

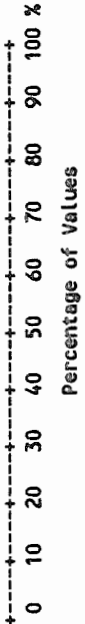


Total		A1MM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	44	12	19	2	5	4
Number of Missing Values	0	0	0	0	0	0
Mean	0.27	0.23	0.43	0.13	0.29	0.31
Standard Deviation	0.64	0.46	1.04	0.12	0.41	0.56
Skewness	6.16	5.43	4.24	3.14	1.96	2.75
Excess Kurtosis	42.91	32.91	17.54	8.79	2.40	6.47
Coef. of Var. %	234.56	205.28	241.28	87.54	143.15	181.71
Std. Error of the Mean	0.05	0.054	0.14	0.024	0.089	0.15
Lower 95% Limit on Mean	0.18	0.12	0.15	0.084	0.100	-0.015
Upper 95% Limit on Mean	0.36	0.33	0.71	0.18	0.47	0.63
Geometric Statistics						
Mean	0.15	0.13	0.18	0.11	0.16	0.16
Log10 Mean	-0.84	-0.87	-0.74	-0.94	-0.79	-0.79
Log10 S.D.	0.36	0.32	0.44	0.20	0.40	0.40
Log10 Std. Error of Mean	0.03	0.038	0.060	0.040	0.088	0.11
Lower 95% Limit on Mean	0.13	0.11	0.14	0.094	0.11	0.096
Upper 95% Limit on Mean	0.16	0.16	0.24	0.14	0.25	0.28
Percentiles						
Min Value	0.10	0.10	0.10	0.10	0.10	0.10
25th %tile	0.10	0.10	0.10	0.10	0.10	0.10
50th %tile	0.10	0.10	0.20	0.10	0.10	0.30
75th %tile	0.10	0.10	0.40	0.10	0.30	0.30
80th %tile	0.20	0.10	0.40	0.10	0.80	0.50
90th %tile	0.50	0.70	1.70	0.40	1.40	2.20
95th %tile	0.90	1.80	5.30	0.60	1.40	2.20
98th %tile	1.80	3.50	5.60	0.60	1.40	2.20
99th %tile	3.50	3.50	5.60	0.60	1.40	2.20
Max Value	5.60	3.50	5.60	0.60	1.40	2.20

Statistics per Variable

Variable - Cerium [Ce]
Number of Values - 200
Units - ppm
Detection Limit - 5
Analytical Method - INA

ppm	N	%	Cum %
2- .	1	0.5	0.5
5- .			
10- .	21	10.5	11.0
20- .	139	69.5	80.5
50- .	35	17.5	98.0
100- .	4	2.0	100.0
200- .			

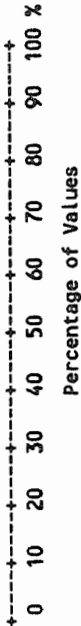


	Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	200	73	54	24	21	14
Number of Missing Values	0	0	0	0	0	0
Mean	38.94	35.36	49.72	34.88	41.19	27.50
Standard Deviation	20.16	14.77	29.08	11.92	13.11	9.22
Skewness	2.10	1.74	1.29	0.50	0.81	0.38
Excess Kurtosis	6.42	6.98	1.39	-0.66	-0.27	-0.81
Coef. of Var. %	51.77	41.78	58.48	34.17	31.83	33.53
Std. Error of the Mean	1.43	1.73	3.96	2.43	2.86	2.46
Lower 95% limit on Mean	36.12	31.91	41.79	29.84	35.22	22.18
Upper 95% limit on Mean	41.75	38.80	57.66	39.91	47.16	32.82
Geometric Statistics						
Mean	35.01	32.63	42.84	32.94	39.38	26.06
Log10 Mean	1.54	1.51	1.63	1.52	1.60	1.42
Log10 S.D.	0.20	0.18	0.24	0.15	0.13	0.15
Log10 Std. Error of Mean	0.01	0.021	0.032	0.031	0.029	0.040
Lower 95% limit on Mean	32.87	29.65	36.92	28.40	34.31	21.36
Upper 95% limit on Mean	37.28	35.92	49.71	38.20	45.21	31.80
Percentiles						
Min Value	10.00	10.00	16.00	14.00	26.00	14.00
25th %tile	26.00	26.00	28.00	25.00	32.00	20.00
50th %tile	35.00	34.00	40.00	32.00	39.00	26.00
75th %tile	44.00	42.00	64.00	39.00	44.00	35.00
80th %tile	50.00	44.00	71.00	48.00	50.00	36.00
90th %tile	60.00	52.00	94.00	53.00	58.00	37.00
95th %tile	75.00	59.00	110.00	56.00	68.00	47.00
98th %tile	100.00	60.00	120.00	60.00	71.00	47.00
99th %tile	110.00	110.00	150.00	60.00	71.00	47.00
Max Value	150.00	110.00	150.00	60.00	71.00	47.00

Statistics per Variable

Variable - Cesium [Cs]
Number of Values - 200
Units - ppm
Detection Limit - 0.5
Analytical Method - INA

ppm	N	%	Cum %
0.1- .			
0.2- .			
0.5- .	4	2.0	2.0
1.0- .	29	14.5	16.5
2.0- .	86	43.0	59.5
5.0- .	81	40.5	100.0

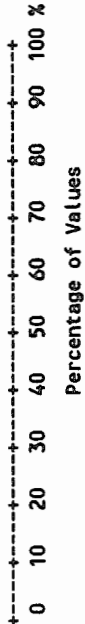


	Total	AIHM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	197	71	54	24	21	14
Number of Missing Values	0	0	0	0	0	0
Mean	1.96	1.78	2.34	2.12	1.77	1.62
Standard Deviation	0.94	0.67	1.17	0.88	0.92	0.63
Skewness	0.68	-0.026	0.28	0.30	0.84	-0.031
Excess Kurtosis	0.00	-0.69	-1.10	-1.04	-0.56	-1.57
Coef. of Var. %	47.78	37.76	50.15	41.57	51.80	38.94
Std. Error of the Mean	0.07	0.079	0.16	0.18	0.20	0.17
Lower 95% Limit on Mean	1.83	1.63	2.02	1.75	1.35	1.26
Upper 95% Limit on Mean	2.09	1.94	2.66	2.49	2.19	1.99
Geometric Statistics						
Mean	1.73	1.62	2.02	1.94	1.58	1.49
Log10 Mean	0.24	0.21	0.31	0.29	0.20	0.17
Log10 S.D.	0.23	0.21	0.25	0.20	0.21	0.19
Log10 Std. Error of Mean	0.02	0.025	0.034	0.040	0.046	0.051
Lower 95% Limit on Mean	1.61	1.45	1.73	1.60	1.26	1.16
Upper 95% Limit on Mean	1.86	1.82	2.37	2.34	1.97	1.92
Percentiles						
Min Value	0.25	0.25	0.50	0.70	0.80	0.60
25th %tile	1.20	1.30	1.30	1.30	1.10	1.00
50th %tile	1.80	1.70	2.20	1.80	1.30	1.60
75th %tile	2.60	2.20	3.20	2.80	2.40	2.20
80th %tile	2.70	2.40	3.40	3.00	2.70	2.20
90th %tile	3.20	2.70	4.10	3.10	3.10	2.40
95th %tile	3.90	2.80	4.30	3.70	3.10	2.60
98th %tile	4.20	2.90	4.40	3.90	4.00	2.60
99th %tile	4.40	3.20	4.90	3.90	4.00	2.60
Max Value	4.90	3.20	4.90	3.90	4.00	2.60

Statistics per Variable

Variable - Chromium [Cr]
Number of Values - 200
Units - ppm
Detection Limit - 20
Analytical Method - INA

		Total		AIMM		PHCG		AMC		PMI		AFIS	
ppm	N	%	Cum %	Number of Values		Standard Deviation		Excess Kurtosis		Coef. of Var. %		Std. Error of the Mean	
				200	73	54	24	24	21	14	14	21	14
2-				197	71	53	24	24	21	14	14	21	14
5-				0	0	0	0	0	0	0	0	0	0
10-				108.21	90.88	120.57	87.96	87.96	206.19	57.07	57.07	206.19	57.07
20-				70.01	55.33	58.06	27.36	27.36	111.38	13.41	13.41	111.38	13.41
50-				2.75	2.07	0.76	0.62	0.62	2.45	0.68	0.68	2.45	0.68
100-				13.99	5.49	0.68	-0.074	-0.074	6.30	-0.043	-0.043	6.30	-0.043
200-				64.70	60.89	48.15	31.11	31.11	54.02	23.49	23.49	54.02	23.49
500-				4.95	6.48	7.90	5.58	5.58	24.30	3.58	3.58	24.30	3.58
1000-				98.45	77.97	104.73	76.40	76.40	155.49	49.33	49.33	155.49	49.33
				117.97	103.79	136.42	99.51	99.51	256.89	64.81	64.81	256.89	64.81
Geometric Statistics													
	93	46.5	58.0	91.50	77.49	105.39	84.04	84.04	188.37	55.69	55.69	188.37	55.69
				1.96	1.89	2.02	1.92	1.92	2.28	1.75	1.75	2.28	1.75
	69	34.5	92.5	0.26	0.26	0.25	0.13	0.13	0.17	0.099	0.099	0.17	0.099
				0.02	0.030	0.034	0.027	0.027	0.038	0.027	0.027	0.038	0.027
	14	7.0	99.5	84.24	67.46	89.96	73.76	73.76	157.10	48.81	48.81	157.10	48.81
				99.38	89.03	123.47	95.76	95.76	225.86	63.54	63.54	225.86	63.54
Percentiles													
				10.00	10.00	10.00	50.00	50.00	110.00	38.00	38.00	110.00	38.00
				62.00	59.00	74.00	64.00	64.00	140.00	50.00	50.00	140.00	50.00
				88.00	80.00	120.00	87.00	87.00	170.00	53.00	53.00	170.00	53.00
				140.00	100.00	150.00	110.00	110.00	220.00	65.00	65.00	220.00	65.00
				150.00	120.00	150.00	110.00	110.00	240.00	66.00	66.00	240.00	66.00
				170.00	140.00	190.00	120.00	120.00	280.00	72.00	72.00	280.00	72.00
				240.00	170.00	240.00	130.00	130.00	350.00	89.00	89.00	350.00	89.00
				300.00	300.00	260.00	160.00	160.00	620.00	89.00	89.00	620.00	89.00
				310.00	310.00	300.00	160.00	160.00	620.00	89.00	89.00	620.00	89.00
				620.00	310.00	300.00	160.00	160.00	620.00	89.00	89.00	620.00	89.00



Statistics per Variable

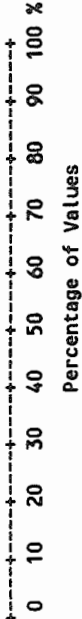
Variable - Cobalt [Co]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

	N	%	Cum %	Total					PMI	AFIS
				Number of Values	Number of Values > D.L.	Number of Missing Values	AIMM	PHCG		
ppm				200	73	54	24	21	14	
0.5-				200	73	54	24	21	14	
1.0-				0	0	0			0	
2.0-				11.23	8.53	17.50	11.29	9.71	7.71	
5.0-				12.20	4.20	20.96	6.91	5.02	4.58	
10.0-				8.82	0.97	5.53	1.72	0.68	1.06	
20.0-				101.89	1.74	34.40	2.71	-0.73	-0.36	
50.0-				108.61	49.25	119.80	61.16	51.69	59.39	
100.0-				0.86	0.49	2.85	1.41	1.10	1.22	
200.0-				9.53	7.55	11.78	8.38	7.43	5.07	
				12.94	9.52	23.22	14.21	12.00	10.36	
Geometric Statistics										
	3	1.5	1.5	8.99	7.53	13.07	9.79	8.57	6.71	
				0.95	0.88	1.12	0.99	0.93	0.83	
	46	23.0	24.5	0.27	0.23	0.32	0.23	0.22	0.23	
				0.02	0.027	0.043	0.047	0.049	0.061	
	75	37.5	62.0	8.24	6.67	10.71	7.82	6.78	4.95	
				9.80	8.51	15.94	12.26	10.83	9.11	
Percentiles										
	1	0.5	100.0	2.00	2.00	2.00	3.00	4.00	3.00	
				6.00	5.00	8.00	7.00	6.00	5.00	
				9.00	9.00	15.00	9.00	8.00	6.00	
				13.00	11.00	22.00	13.00	13.00	10.00	
				15.00	11.00	23.00	14.00	14.00	12.00	
				20.00	14.00	25.00	17.00	16.00	17.00	
				24.00	16.00	30.00	28.00	19.00	17.00	
				29.00	18.00	31.00	33.00	21.00	17.00	
				31.00	25.00	158.00	33.00	21.00	17.00	
				158.00	25.00	158.00	33.00	21.00	17.00	

Statistics per Variable

Variable - Cobalt [Co]
Number of Values - 200
Units - ppm
Detection Limit - 5
Analytical Method - INA

ppm	N	%	Cum %
1- .			
2- .	4	2.0	2.0
5- .			
10- .	42	21.0	23.0
20- .	110	55.0	78.0
50- .	43	21.5	99.5
100- .			
200- .			
500- .	1	0.5	100.0



Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21
Number of Values > D.L.	196	72	53	24	21
Number of Missing Values	0	0	0	0	0
Mean	16.98	13.66	24.32	17.42	14.43
Standard Deviation	15.75	5.26	27.37	9.51	5.01
Skewness	9.30	0.75	5.74	1.66	0.31
Excess Kurtosis	110.03	1.38	36.26	2.31	-1.10
Coef. of Var. %	92.75	38.52	112.52	54.63	34.69
Std. Error of the Mean	1.11	0.62	3.72	1.94	1.09
Lower 95% limit on Mean	14.78	12.44	16.85	13.40	12.15
Upper 95% limit on Mean	19.18	14.89	31.79	21.43	16.71
Geometric Statistics					
Mean	14.47	12.64	19.24	15.53	13.59
Log10 Mean	1.16	1.10	1.28	1.19	1.13
Log10 S.D.	0.23	0.18	0.28	0.21	0.16
Log10 Std. Error of Mean	0.02	0.021	0.038	0.042	0.034
Lower 95% limit on Mean	13.43	11.47	16.18	12.70	11.52
Upper 95% limit on Mean	15.58	13.93	22.88	19.00	16.02
Percentiles					
Min Value	2.50	2.50	2.50	6.00	2.50
25th %tile	11.00	10.00	13.00	12.00	10.00
50th %tile	14.00	13.00	20.00	15.00	11.00
75th %tile	20.00	17.00	28.00	19.00	15.00
80th %tile	21.00	18.00	30.00	19.00	20.00
90th %tile	27.00	21.00	37.00	30.00	21.00
95th %tile	32.00	22.00	38.00	41.00	29.00
98th %tile	38.00	22.00	38.00	46.00	29.00
99th %tile	41.00	34.00	210.00	46.00	29.00
Max Value	210.00	34.00	210.00	46.00	29.00

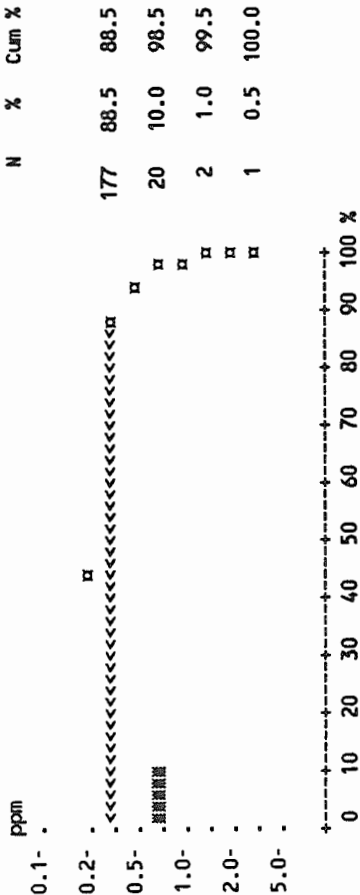
Statistics per Variable

Variable - Copper [Cu]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

Standard Deviation										
Skewness										
Excess Kurtosis										
Coef. of Var. %										
Std. Error of the Mean										
Lower 95% limit on Mean										
Upper 95% limit on Mean										
Geometric Statistics										
Mean										
Log10 Mean										
Log10 S.D.										
Log10 Std. Error of Mean										
Lower 95% limit on Mean										
Upper 95% limit on Mean										
Percentiles										
Min Value										
25th %tile										
50th %tile										
75th %tile										
80th %tile										
90th %tile										
95th %tile										
98th %tile										
99th %tile										
Max Value										

Statistics per Variable

Variable - Europium [Eu]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - INA

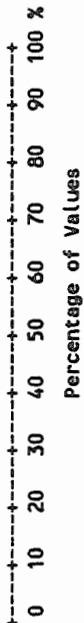


Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	73	54	24	21	14
Number of Values > D.L.	6	9	2	3	2
Number of Missing Values	0	0	0	0	0
Mean	0.54	0.68	0.54	0.57	0.57
Standard Deviation	0.14	0.56	0.14	0.18	0.18
Skewness	2.98	4.37	2.83	1.90	1.83
Excess Kurtosis	6.98	21.29	6.27	1.69	1.45
Coef. of Var. %	25.56	82.74	26.06	31.37	31.77
Std. Error of the Mean	0.016	0.076	0.029	0.039	0.049
Lower 95% Limit on Mean	0.54	0.52	0.48	0.49	0.47
Upper 95% Limit on Mean	0.63	0.83	0.60	0.65	0.68
Geometric Statistics					
Mean	0.55	0.59	0.53	0.55	0.55
Log10 Mean	-0.26	-0.23	-0.28	-0.26	-0.26
Log10 S.D.	0.12	0.18	0.085	0.11	0.11
Log10 Std. Error of Mean	0.01	0.025	0.017	0.024	0.029
Lower 95% Limit on Mean	0.53	0.53	0.49	0.49	0.48
Upper 95% Limit on Mean	0.57	0.66	0.58	0.62	0.64
Percentiles					
Min Value	0.50	0.50	0.50	0.50	0.50
25th %tile	0.50	0.50	0.50	0.50	0.50
50th %tile	0.50	0.50	0.50	0.50	0.50
75th %tile	0.50	0.50	0.50	0.50	0.50
80th %tile	0.50	0.50	0.50	0.50	0.50
90th %tile	1.00	1.00	1.00	1.00	1.00
95th %tile	1.00	2.00	1.00	1.00	1.00
98th %tile	1.00	2.00	1.00	1.00	1.00
99th %tile	2.00	4.00	1.00	1.00	1.00
Max Value	4.00	4.00	1.00	1.00	1.00

Statistics per Variable

Variable - Fluoride [F-W]
Number of Values - 198
Units - ppb
Detection Limit - 20
Analytical Method - ISE

	N	%	Cum %
ppb			
2- .			
5- .			
10- .	2	1.0	1.0
20- .	30	15.2	16.2
50- .	87	43.9	60.1
100- .	77	38.9	99.0
200- .	2	1.0	100.0



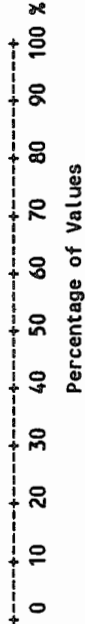
	Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	198	72	53	24	21	14
Number of Values > D.L.	196	72	53	23	21	14
Number of Missing Values	2	1	1	0	0	0
Mean	48.64	44.58	55.28	41.25	63.81	42.86
Standard Deviation	21.84	20.62	21.27	16.76	10.24	18.58
Skewness	0.67	0.51	0.20	0.24	0.040	0.15
Excess Kurtosis	1.15	-0.81	-0.44	-0.99	-1.27	-1.65
Coef. of Var. %	44.90	46.25	38.47	40.64	16.04	43.34
Std. Error of the Mean	1.55	2.43	2.92	3.42	2.23	4.96
Lower 95% limit on Mean	45.58	39.74	49.42	34.17	59.15	32.13
Upper 95% limit on Mean	51.70	49.43	61.14	48.33	68.47	53.58
Geometric Statistics						
Mean	43.59	39.92	50.81	37.63	63.02	38.92
Log10 Mean	1.64	1.60	1.71	1.58	1.80	1.59
Log10 S.D.	0.21	0.21	0.19	0.20	0.071	0.20
Log10 Std. Error of Mean	0.02	0.025	0.026	0.041	0.015	0.054
Lower 95% limit on Mean	40.70	35.65	45.04	30.92	58.52	29.70
Upper 95% limit on Mean	46.68	44.71	57.31	45.79	67.87	50.99
Percentiles						
Min Value	10.00	20.00	20.00	10.00	50.00	20.00
25th %tile	30.00	30.00	40.00	30.00	60.00	30.00
50th %tile	50.00	40.00	60.00	40.00	60.00	40.00
75th %tile	60.00	60.00	70.00	50.00	70.00	60.00
80th %tile	70.00	60.00	80.00	60.00	70.00	60.00
90th %tile	80.00	70.00	80.00	70.00	80.00	70.00
95th %tile	80.00	80.00	90.00	70.00	80.00	70.00
98th %tile	90.00	90.00	100.00	70.00	80.00	70.00
99th %tile	110.00	90.00	110.00	70.00	80.00	70.00
Max Value	150.00	90.00	110.00	70.00	80.00	70.00

Statistics per Variable

Variable - Fluorine [F]

Number of Values - 200
Units - ppm
Detection Limit - 20
Analytical Method - ISE

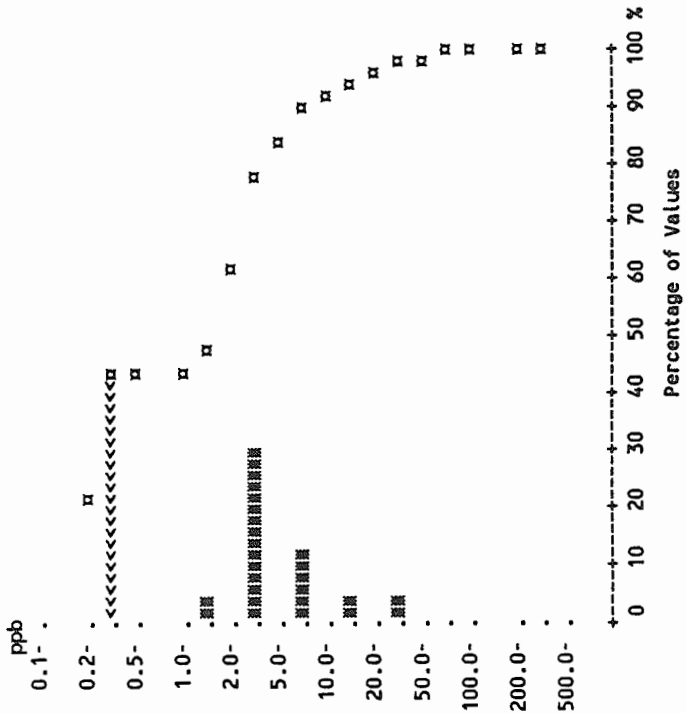
	N	%	Cum %
ppm			
10-			
20-			
50-	2	1.0	1.0
100-	5	2.5	3.5
200-	82	41.0	44.5
500-	111	55.5	100.0



Total		ATMM	PHCG	AMC	PMI	AFIS
Number of Values		73	54	24	21	14
Number of Values > D.L.		73	54	24	21	14
Number of Missing Values		0	0	0	0	0
Mean		206.53	243.24	228.58	219.81	201.86
Standard Deviation		81.37	94.61	79.21	82.31	59.96
Skewness		0.43	0.34	0.97	0.17	0.12
Excess Kurtosis		0.02	-0.67	0.22	-0.76	-1.12
Coef. of Var. %		37.06	38.89	34.65	37.44	29.70
Std. Error of the Mean		5.75	12.87	16.17	17.96	16.02
Lower 95% Limit on Mean		208.21	217.42	195.13	182.34	167.24
Upper 95% Limit on Mean		230.91	269.06	262.04	257.28	236.47
Geometric Statistics						
Mean		202.99	224.20	216.89	203.42	193.24
Log10 Mean		2.31	2.35	2.34	2.31	2.29
Log10 S.D.		0.19	0.18	0.14	0.19	0.14
Log10 Std. Error of Mean		0.01	0.025	0.029	0.040	0.036
Lower 95% Limit on Mean		191.28	199.76	188.98	167.56	161.31
Upper 95% Limit on Mean		215.42	251.63	248.93	246.95	231.48
Percentiles						
Min Value		23.00	66.00	123.00	68.00	113.00
25th %tile		158.00	168.00	175.00	161.00	153.00
50th %tile		210.00	240.00	210.00	207.00	192.00
75th %tile		269.00	305.00	250.00	280.00	241.00
80th %tile		283.00	334.00	287.00	290.00	247.00
90th %tile		331.00	381.00	380.00	327.00	282.00
95th %tile		370.00	404.00	386.00	331.00	313.00
98th %tile		397.00	453.00	426.00	393.00	313.00
99th %tile		426.00	462.00	426.00	393.00	313.00
Max Value		462.00	462.00	426.00	393.00	313.00

Statistics per Variable

Variable - Gold [Au]
Number of Values - 200
Units - ppb
Detection Limit - 1
Analytical Method - INA



N		%	Cum %	Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values		200		73	54	24	21	14	
Number of Values > D.L.		113		47	27	15	9	6	
Number of Missing Values		0		0	0	0	0	0	
Mean		6.74		7.22	8.95	4.90	3.14	5.93	
Standard Deviation		24.84		14.39	44.10	7.19	4.61	13.23	
Skewness		10.92		3.85	6.88	2.38	2.12	2.61	
Excess Kurtosis		134.22		16.22	46.47	5.34	4.17	5.81	
Coef. of Var. %		368.74		199.32	492.53	146.92	146.77	223.23	
Std. Error of the Mean		1.76		1.68	6.00	1.47	1.01	3.54	
Lower 95% limit on Mean		3.27		3.86	-3.08	1.86	1.04	-1.71	
Upper 95% limit on Mean		10.20		10.58	20.99	7.93	5.24	13.57	
Geometric Statistics		2.02		2.54	1.67	2.18	1.38	1.52	
Mean		0.31		0.41	0.22	0.34	0.14	0.18	
Log10 Mean		0.61		0.62	0.60	0.57	0.55	0.66	
Log10 S.D.		0.04		0.072	0.082	0.12	0.12	0.18	
Log10 Std. Error of Mean		1.67		1.82	1.14	1.25	0.77	0.63	
Lower 95% limit on Mean		2.46		3.54	2.44	3.82	2.46	3.67	
Upper 95% limit on Mean									
Percentiles		0.50		0.50	0.50	0.50	0.50	0.50	
Min Value		0.50		0.50	0.50	0.50	0.50	0.50	
25th %tile		3.00		3.00	0.50	3.00	0.50	0.50	
50th %tile		5.00		5.00	5.00	4.00	4.00	3.00	
75th %tile		7.00		8.00	5.00	8.00	4.00	7.00	
80th %tile		11.00		14.00	7.00	9.00	8.00	14.00	
90th %tile		21.00		39.00	12.00	21.00	11.00	50.00	
95th %tile		41.00		67.00	18.00	31.00	19.00	50.00	
98th %tile		67.00		89.00	326.00	31.00	19.00	50.00	
99th %tile		326.00		89.00	326.00	31.00	19.00	50.00	
Max Value									

Statistics per Variable

Variable - Hafnium [Hf]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - INA

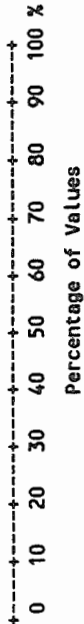
		Total								
		AIMM		PHCG		AMC		PMI		AFIS

Statistics per Variable

Variable - Hydrogen Activity [pH]

Number of Values - 198
Units - -
Detection Limit - -
Analytical Method - GCM

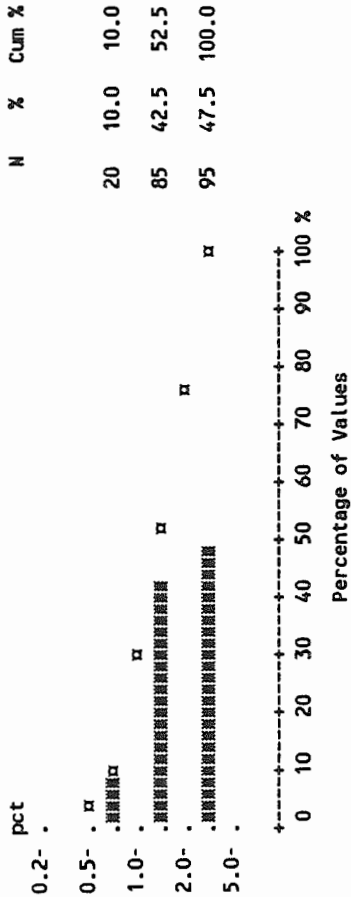
	N	%	Cum %
4.30- .			
4.70- .			
5.00- .	2	1.0	1.0
5.30- .			
5.70- .			
6.00- .			
6.30- .	4	2.0	3.0
6.70- .			
7.00- .	11	5.6	8.6
7.30- .	9	4.5	13.1
7.70- .	29	14.6	27.8
8.00- .	64	32.3	60.1
	42	21.2	81.3
	27	13.6	94.9
	10	5.1	100.0



Total		A1MM	PHCG	AMC	PMI	AFIS
Number of Values	198	72	53	24	21	14
Number of Values > D.L.	198	72	53	24	21	14
Number of Missing Values	2	1	1	0	0	0
Mean	6.88	6.97	6.65	6.94	7.19	6.96
Standard Deviation	0.55	0.44	0.67	0.40	0.54	0.46
Skewness	-0.79	-0.21	-0.81	0.67	-0.84	-0.76
Excess Kurtosis	1.05	-0.70	-0.030	-0.045	0.38	-0.49
Coef. of Var. %	7.93	6.31	10.06	5.83	7.55	6.63
Std. Error of the Mean	0.04	0.052	0.092	0.082	0.12	0.12
Lower 95% limit on Mean	6.80	6.87	6.46	6.77	6.94	6.70
Upper 95% limit on Mean	6.96	7.07	6.83	7.11	7.43	7.23
Geometric Statistics						
Mean	6.86	6.96	6.61	6.93	7.17	6.95
Log10 Mean	0.84	0.84	0.82	0.84	0.86	0.84
Log10 S.D.	0.04	0.028	0.046	0.025	0.034	0.030
Log10 Std. Error of Mean	0.00	0	0	0	0	0
Lower 95% limit on Mean	6.78	6.85	6.42	6.76	6.91	6.68
Upper 95% limit on Mean	6.94	7.06	6.81	7.10	7.43	7.23
Percentiles						
Min Value	4.80	5.90	4.80	6.30	5.70	5.90
25th %tile	6.60	6.60	6.20	6.60	6.90	6.70
50th %tile	6.90	7.00	6.80	6.80	7.30	7.10
75th %tile	7.30	7.30	7.20	7.20	7.60	7.30
80th %tile	7.30	7.40	7.20	7.30	7.60	7.40
90th %tile	7.50	7.50	7.30	7.40	7.70	7.40
95th %tile	7.70	7.60	7.60	7.80	7.80	7.50
98th %tile	7.80	7.70	7.70	7.90	8.00	7.50
99th %tile	7.90	7.90	7.70	7.90	8.00	7.50
Max Value	8.00	7.90	7.70	7.90	8.00	7.50

Statistics per Variable

Variable - Iron [Fe]
Number of Values - 200
Units - pct
Detection Limit - 0.02
Analytical Method - AAS

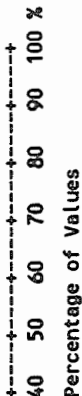


	Total					PHCG	AMC	PMI	AFIS
	Number of Values	Number of Values > D.L.	Number of Missing Values	Mean	Standard Deviation				
Number of Values	200	73	54	24	21	14			
Number of Values > D.L.	200	73	54	24	21	14			
Number of Missing Values	0	0	0	0	0	0			
Mean	2.07	1.81	2.58	2.04	2.37	1.55			
Standard Deviation	0.89	0.71	1.06	0.76	0.72	0.67			
Skewness	0.64	0.45	0.13	0.28	0.79	0.69			
Excess Kurtosis	-0.16	-0.31	-1.12	-0.94	-0.41	-0.73			
Coef. of Var. %	42.82	39.15	41.03	37.14	30.23	43.49			
Std. Error of the Mean	0.06	0.083	0.14	0.15	0.16	0.18			
Lower 95% limit on Mean	1.95	1.64	2.29	1.72	2.04	1.16			
Upper 95% limit on Mean	2.20	1.97	2.86	2.36	2.70	1.94			
Geometric Statistics									
Mean	1.88	1.67	2.34	1.90	2.28	1.42			
Log10 Mean	0.28	0.22	0.37	0.28	0.36	0.15			
Log10 S.D.	0.19	0.18	0.20	0.17	0.12	0.19			
Log10 Std. Error of Mean	0.01	0.021	0.027	0.035	0.027	0.050			
Lower 95% limit on Mean	1.77	1.51	2.06	1.61	2.00	1.11			
Upper 95% limit on Mean	2.01	1.84	2.66	2.25	2.59	1.82			
Percentiles									
Min Value	0.60	0.60	0.76	0.78	1.55	0.65			
25th %tile	1.41	1.27	1.68	1.47	1.76	1.12			
50th %tile	1.95	1.75	2.59	1.96	2.29	1.26			
75th %tile	2.61	2.25	3.38	2.53	2.70	1.95			
80th %tile	2.81	2.30	3.48	2.80	2.88	2.03			
90th %tile	3.37	2.76	4.14	3.04	3.43	2.73			
95th %tile	3.77	3.24	4.34	3.29	3.77	2.91			
98th %tile	4.16	3.48	4.49	3.62	4.01	2.91			
99th %tile	4.34	3.60	4.52	3.62	4.01	2.91			
Max Value	4.52	3.60	4.52	3.62	4.01	2.91			

Statistics per Variable

Variable - Lanthanum [La]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - INA

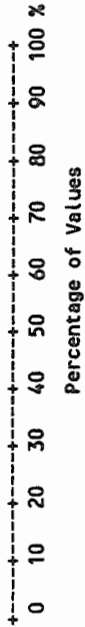
ppm	N	%	Cum %	Standard Deviation	Mean	20.04	18.37	24.02	19.83	19.71	17.57
0.2- .				Skewness	9.46	3.15	1.57	14.04	6.47	3.32	
0.5- .				Excess Kurtosis	3.15	18.99	4.74	2.54	1.23	0.44	
1.0- .	1	0.5	0.5	Coef. of Var. %	18.99	47.21	36.96	9.71	0.76	-1.38	
2.0- .				Std. Error of the Mean	0.67	0.67	0.79	58.46	34.48	18.90	
				Lower 95% limit on Mean	18.72	18.72	16.79	1.91	1.40	0.89	
				Upper 95% limit on Mean	21.36	21.36	19.95	20.19	16.95	15.65	
5.0- .				Geometric Statistics							
	6	3.0	3.5	Mean	18.38	17.31	17.31	21.27	18.89	18.78	
				Log10 Mean	1.26	1.24	1.24	1.33	1.28	1.27	
10.0- .	123	61.5	65.0	Log10 S.D.	0.18	0.15	0.15	0.21	0.13	0.14	
				Log10 Std. Error of Mean	0.01	0.018	0.018	0.028	0.027	0.021	
20.0- .	69	34.5	99.5	Lower 95% limit on Mean	17.32	15.97	15.97	18.68	16.59	15.54	
				Upper 95% limit on Mean	19.50	18.75	18.75	24.21	21.52	19.23	
50.0- .				Percentiles							
	1	0.5	100.0	Min Value	1.00	8.00	8.00	10.00	12.00	14.00	
				25th %tile	14.00	14.00	14.00	14.00	15.00	15.00	
				50th %tile	18.00	18.00	17.00	20.00	17.00	17.00	
				75th %tile	23.00	22.00	22.00	29.00	22.00	19.00	
				80th %tile	25.00	23.00	23.00	32.00	25.00	22.00	
				90th %tile	30.00	26.00	26.00	39.00	29.00	23.00	
				95th %tile	38.00	29.00	29.00	43.00	34.00	23.00	
				98th %tile	42.00	34.00	34.00	50.00	39.00	23.00	
				99th %tile	50.00	50.00	50.00	95.00	39.00	23.00	
				Max Value	95.00	50.00	50.00	95.00	39.00	23.00	



Statistics per Variable

Variable - Lead [Pb]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

	N	%	Cum %
0.2-	10	5.0	5.0
0.5-	17	8.5	13.5
1.0-	64	32.0	45.5
2.0-	67	33.5	79.0
5.0-	30	15.0	94.0
10.0-	9	4.5	98.5
20.0-	2	1.0	99.5
50.0-			
100.0-			
200.0-			
500.0-	1	0.5	100.0



Total		A1MM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	190	70	53	23	21	12
Number of Missing Values	0	0	0	0	0	0
Mean	10.51	6.96	19.52	6.46	9.10	9.43
Standard Deviation	32.61	6.84	60.96	3.40	10.09	14.12
Skewness	12.40	3.70	6.58	0.96	1.77	2.35
Excess Kurtosis	163.59	16.22	43.49	0.70	2.26	4.80
Coef. of Var. %	310.44	98.30	312.34	52.65	110.93	149.74
Std. Error of the Mean	2.31	0.80	8.30	0.69	2.20	3.77
Lower 95% Limit on Mean	5.96	5.36	2.88	5.02	4.50	1.28
Upper 95% Limit on Mean	15.05	8.55	36.16	7.89	13.69	17.58
Geometric Statistics						
Mean	6.04	5.24	9.37	5.61	5.88	4.87
Log10 Mean	0.78	0.72	0.97	0.75	0.77	0.69
Log10 S.D.	0.37	0.32	0.38	0.25	0.39	0.49
Log10 Std. Error of Mean	0.03	0.038	0.052	0.051	0.086	0.13
Lower 95% Limit on Mean	5.36	4.40	7.38	4.40	3.89	2.53
Upper 95% Limit on Mean	6.81	6.23	11.91	7.16	8.89	9.36
Percentiles						
Min Value	1.00	1.00	1.00	1.00	2.00	1.00
25th %tile	4.00	3.00	6.00	4.00	3.00	2.00
50th %tile	6.00	6.00	10.00	5.00	5.00	4.00
75th %tile	10.00	8.00	12.00	8.00	9.00	13.00
80th %tile	11.00	9.00	13.00	8.00	12.00	15.00
90th %tile	13.00	10.00	22.00	10.00	21.00	17.00
95th %tile	22.00	16.00	36.00	13.00	30.00	55.00
98th %tile	41.00	41.00	82.00	16.00	40.00	55.00
99th %tile	55.00	43.00	451.00	16.00	40.00	55.00
Max Value	451.00	43.00	451.00	16.00	40.00	55.00

Statistics per Variable

Variable - Loss-On-Ignition [LOI]

Number of Values - 200

Units - pct

Detection Limit - 1.0

Analytical Method - GRAV

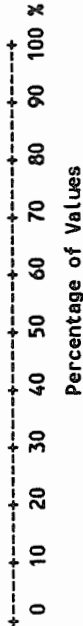
		Total		AIMM	PHCG	AMC	PMI	AFIS
pct	Number of Values	200	73	54	24	21	14	
	Number of Values > D.L.	200	73	54	24	21	14	
	Number of Missing Values	0	0	0	0	0	0	
0.5-	Mean	11.31	12.40	12.38	7.98	13.11	9.94	
1.0-	Standard Deviation	14.74	17.03	15.04	5.30	18.55	11.51	
2.0-	Skewness	3.15	2.97	2.84	1.46	1.95	1.49	
5.0-	Excess Kurtosis	10.37	8.76	7.67	1.30	2.81	0.72	
10.0-	Coef. of Var. %	130.31	137.36	121.43	66.38	141.45	115.80	
20.0-	Std. Error of the Mean	1.04	1.99	2.05	1.08	4.05	3.08	
50.0-	Lower 95% Limit on Mean	9.26	8.43	8.28	5.74	4.67	3.29	
100.0-	Upper 95% Limit on Mean	13.37	16.37	16.49	10.22	21.56	16.58	
Geometric Statistics								
	Mean	7.16	7.46	8.45	6.68	6.39	6.06	
	Log10 Mean	0.85	0.87	0.93	0.82	0.81	0.78	
	Log10 S.D.	0.38	0.41	0.35	0.26	0.51	0.43	
	Log10 Std. Error of Mean	0.03	0.047	0.047	0.053	0.11	0.12	
	Lower 95% Limit on Mean	6.33	6.00	6.80	5.18	3.74	3.41	
	Upper 95% Limit on Mean	8.10	9.28	10.49	8.61	10.91	10.78	
Percentiles								
	Min Value	1.10	1.50	1.90	1.90	1.10	1.50	
	25th %tile	3.90	4.00	6.10	4.80	2.50	3.00	
	50th %tile	7.10	7.20	7.90	6.80	4.70	4.90	
	75th %tile	11.20	11.30	11.30	8.30	15.20	12.00	
	80th %tile	12.70	14.20	12.70	9.30	18.40	15.10	
	90th %tile	21.30	27.10	24.80	16.60	31.00	33.30	
	95th %tile	38.20	64.50	51.20	20.60	56.40	37.70	
	98th %tile	66.20	79.60	66.20	22.60	70.30	37.70	
	99th %tile	76.50	89.60	76.50	22.60	70.30	37.70	
	Max Value	89.60	89.60	76.50	22.60	70.30	37.70	

Percentage of Values

Statistics per Variable

Variable - Lutetium [Lu]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - INA

	N	%	Cum %
ppm			
0.02 - .			
0.05 - .			
0.10 - .	147	73.5	73.5
0.20 - .	31	15.5	89.0
0.50 - .	22	11.0	100.0



	Total	AIMM	PHCG	AMC	PNI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	53	12	26	2	12	0
Number of Missing Values	0	0	0	0	0	0
Mean	0.14	0.12	0.18	0.11	0.18	-
Standard Deviation	0.08	0.059	0.096	0.028	0.087	-
Skewness	1.83	2.71	0.78	2.83	0.78	-
Excess Kurtosis	2.49	7.29	-0.70	6.27	-0.30	-
Coef. of Var. %	53.59	47.83	53.40	26.06	48.24	-
Std. Error of the Mean	0.01	0	0.013	0	0.019	-
Lower 95% limit on Mean	0.13	0.11	0.15	0.096	0.14	-
Upper 95% limit on Mean	0.15	0.14	0.21	0.12	0.22	-
Geometric Statistics						
Mean	0.13	0.12	0.16	0.11	0.16	-
Log10 Mean	-0.90	-0.94	-0.80	-0.97	-0.79	-
Log10 S.D.	0.18	0.14	0.22	0.085	0.20	-
Log10 Std. Error of Mean	0.01	0.017	0.030	0.017	0.044	-
Lower 95% limit on Mean	0.12	0.11	0.14	0.098	0.13	-
Upper 95% limit on Mean	0.13	0.12	0.18	0.12	0.20	-
Percentiles						
Min Value	0.10	0.10	0.10	0.10	0.10	-
25th %tile	0.10	0.10	0.10	0.10	0.10	-
50th %tile	0.10	0.10	0.10	0.10	0.20	-
75th %tile	0.20	0.10	0.30	0.10	0.20	-
80th %tile	0.20	0.10	0.30	0.10	0.20	-
90th %tile	0.30	0.20	0.30	0.10	0.30	-
95th %tile	0.30	0.30	0.40	0.20	0.30	-
98th %tile	0.40	0.30	0.40	0.20	0.40	-
99th %tile	0.40	0.40	0.40	0.20	0.40	-
Max Value	0.40	0.40	0.40	0.20	0.40	-

Statistics per Variable

Variable - Manganese [Mn]
Number of Values - 200
Units - ppm
Detection Limit - 5
Analytical Method - AAS

ppm	N	%	Cum %	Total					
				Number of Values	AIMM	PHCG	AMC	PMI	AFIS
10- .				200	73	54	24	21	14
				Number of Values > D.L.	73	54	24	21	14
20- .				Number of Missing Values	0	0	0	0	0
				Mean	755.04	1232.70	919.88	635.38	482.64
50- .				Standard Deviation	550.06	2717.55	496.02	435.49	293.68
				Skewness	0.89	6.13	1.11	1.36	0.68
100- .	1	0.5	0.5	Excess Kurtosis	-0.24	39.19	1.02	0.85	-0.61
				Coef. of Var. %	72.85	220.45	53.92	68.54	60.85
200- .	3	1.5	2.0	Std. Error of the Mean	64.38	369.81	101.25	95.03	78.49
				Lower 95% limit on Mean	626.69	491.01	710.39	437.15	313.11
500- .	17	8.5	10.5	Upper 95% limit on Mean	883.39	1974.40	1129.36	833.62	652.18
				Geometric Statistics					
1000- .	67	33.5	44.0	Mean	564.13	627.80	803.18	529.37	402.38
				Log10 Mean	2.75	2.80	2.90	2.72	2.60
2000- .	56	28.0	72.0	Log10 S.D.	0.36	0.47	0.24	0.26	0.28
				Log10 Std. Error of Mean	0.03	0.064	0.048	0.057	0.075
5000- .	50	25.0	97.0	Lower 95% limit on Mean	509.51	466.29	638.17	403.34	277.43
				Upper 95% limit on Mean	643.66	844.74	1010.87	694.78	583.59
	5	2.5	99.5	Percentiles					
				Min Value	69.00	43.00	238.00	215.00	133.00
10000- .	1	0.5	100.0	25th %tile	300.00	269.00	505.00	356.00	235.00
				50th %tile	648.00	779.00	852.00	492.00	437.00
20000- .				75th %tile	1068.00	1415.00	1088.00	666.00	625.00
				80th %tile	1201.00	1458.00	1108.00	968.00	772.00
				90th %tile	1607.00	1636.00	1659.00	1097.00	850.00
				95th %tile	1939.00	1714.00	1860.00	1623.00	1140.00
				98th %tile	2067.00	4940.00	2351.00	1786.00	1140.00
				99th %tile	2082.00	20000.00	2351.00	1786.00	1140.00
				Max Value	2082.00	20000.00	2351.00	1786.00	1140.00

Percentage of Values

Statistics per Variable

Variable - Mercury [Hg]
Number of Values - 200
Units - ppb
Detection Limit - 10
Analytical Method - AAS

	N	%	Cum %	Total					AFIS
				Number of Values	Number of Values > D.L.	Number of Missing Values	AIMM	PHCG	
ppb				200	54	24	73	54	21
1- .				187	47	24	72	47	17
				0	0	0	0	0	0
2- .				40.01	43.47	35.83	43.47	42.43	33.57
.<<α				36.71	38.96	18.11	38.96	44.87	36.11
5- .				2.30	2.18	1.62	2.30	1.89	2.32
				5.14	4.27	2.68	4.27	2.51	5.49
10- .				91.74	89.63	50.54	89.63	105.77	107.56
	13	6.5	6.5	2.60	4.56	3.70	4.56	6.11	7.88
	2	1.0	7.5	34.90	34.38	28.18	34.38	30.18	17.13
				45.13	52.56	43.48	52.56	54.67	50.01
	42	21.0	28.5	Geometric Statistics					
				29.54	33.16	32.49	33.16	27.56	22.16
20- .				1.47	1.52	1.51	1.52	1.44	1.35
	105	52.5	81.0	0.34	0.31	0.41	0.31	0.41	0.41
50- .				0.02	0.036	0.039	0.036	0.056	0.090
	23	11.5	92.5	26.51	28.14	27.04	28.14	21.30	14.39
100- .				32.91	39.07	39.04	39.07	35.65	34.12
	15	7.5	100.0	Percentiles					
				5.00	5.00	16.00	5.00	5.00	10.00
				20.00	20.00	24.00	20.00	18.00	14.00
				28.00	32.00	30.00	32.00	29.00	25.00
				43.00	46.00	42.00	46.00	42.00	36.00
				48.00	60.00	48.00	60.00	52.00	43.00
				77.00	80.00	60.00	80.00	122.00	56.00
				136.00	162.00	64.00	162.00	164.00	90.00
				164.00	176.00	96.00	176.00	173.00	164.00
				176.00	182.00	96.00	182.00	184.00	164.00
				184.00	182.00	96.00	182.00	184.00	164.00

Statistics per Variable

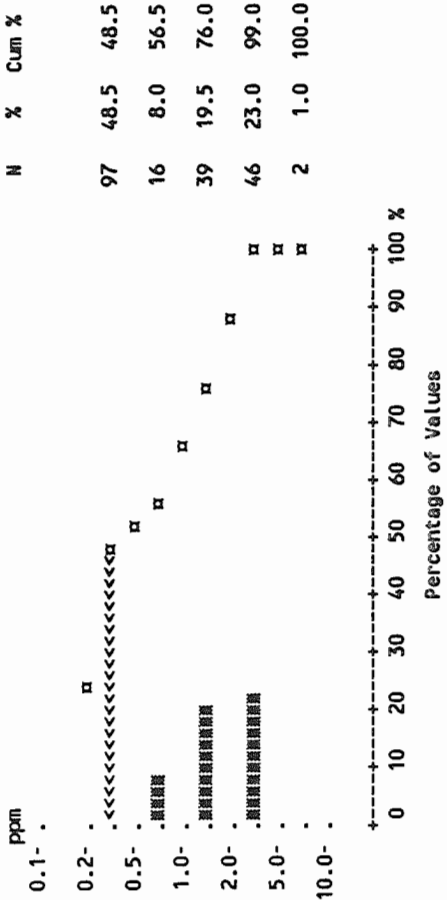
Variable - Molybdenum [Mo]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

				Total	A1MM	PHCG	AMC	PMI	AFIS
ppm									
0.2-				200	73	54	24	21	14
	Number of Values > D.L.			131	46	40	19	10	9
	Number of Missing Values			0	0	0	0	0	0
0.5-	Mean			1.77	1.77	1.91	1.83	1.57	1.71
	Standard Deviation			0.71	0.74	0.83	0.48	0.68	0.61
1.0-	Skewness			1.52	1.00	2.30	-0.46	0.68	0.15
	Excess Kurtosis			6.02	1.35	9.22	0.31	-0.77	-0.91
2.0-	Coef. of Var. %			40.33	41.67	43.53	26.27	43.03	35.66
	Std. Error of the Mean			0.05	0.086	0.11	0.098	0.15	0.16
	Lower 95% Limit on Mean			1.67	1.60	1.68	1.63	1.26	1.36
	Upper 95% Limit on Mean			1.87	1.94	2.13	2.04	1.88	2.07
5.0-	Geometric Statistics								
	Mean			1.64	1.63	1.77	1.76	1.45	1.61
	Log10 Mean			0.22	0.21	0.25	0.25	0.16	0.21
	Log10 S.D.			0.17	0.18	0.17	0.13	0.18	0.17
	Log10 Std. Error of Mean			0.01	0.021	0.023	0.027	0.039	0.044
	Lower 95% Limit on Mean			1.55	1.48	1.59	1.55	1.20	1.29
	Upper 95% Limit on Mean			1.73	1.79	1.97	2.00	1.74	2.00
10.0-	Percentiles								
	Min Value			1.00	1.00	1.00	1.00	1.00	1.00
	25th %tile			1.00	1.00	1.00	2.00	1.00	1.00
	50th %tile			2.00	2.00	2.00	2.00	1.00	2.00
	75th %tile			2.00	2.00	2.00	2.00	2.00	2.00
	80th %tile			2.00	2.00	2.00	2.00	2.00	2.00
	90th %tile			2.00	2.00	2.00	2.00	2.00	2.00
	95th %tile			3.00	3.00	3.00	2.00	3.00	3.00
	98th %tile			4.00	4.00	4.00	3.00	3.00	3.00
	99th %tile			4.00	4.00	6.00	3.00	3.00	3.00
	Max Value			6.00	4.00	6.00	3.00	3.00	3.00

Percentage of Values

Statistics per Variable

Variable - Molybdenum [Mo]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - INA

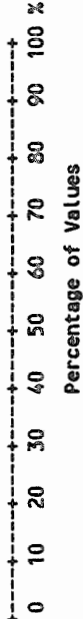


Total		A1MM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	103	45	19	18	1	11
Number of Missing Values	0	0	0	0	0	0
Mean	1.56	1.73	1.29	2.00	0.57	2.39
Standard Deviation	1.30	1.38	1.30	1.15	0.33	1.26
Skewness	1.03	0.93	1.66	0.020	3.95	-0.26
Excess Kurtosis	0.27	-0.084	2.30	-1.31	14.28	-1.32
Coef. of Var. %	83.19	80.07	100.86	57.58	57.28	52.59
Std. Error of the Mean	0.09	0.16	0.18	0.24	0.071	0.34
Lower 95% limit on Mean	1.38	1.40	0.93	1.51	0.42	1.67
Upper 95% limit on Mean	1.74	2.05	1.64	2.49	0.72	3.12
Geometric Statistics						
Mean	1.10	1.24	0.88	1.59	0.53	1.94
Log10 Mean	0.04	0.093	-0.056	0.20	-0.27	0.29
Log10 S.D.	0.36	0.36	0.36	0.33	0.13	0.34
Log10 Std. Error of Mean	0.03	0.042	0.048	0.068	0.029	0.090
Lower 95% limit on Mean	0.98	1.02	0.70	1.15	0.47	1.24
Upper 95% limit on Mean	1.24	1.51	1.10	2.20	0.61	3.03
Percentiles						
Min Value	0.50	0.50	0.50	0.50	0.50	0.50
25th %tile	0.50	0.50	0.50	0.50	0.50	2.00
50th %tile	1.00	1.00	0.50	2.00	0.50	2.00
75th %tile	2.00	3.00	2.00	3.00	0.50	3.00
80th %tile	3.00	3.00	2.00	3.00	0.50	4.00
90th %tile	3.00	4.00	3.00	3.00	0.50	4.00
95th %tile	4.00	4.00	4.00	4.00	0.50	4.00
98th %tile	4.00	5.00	5.00	4.00	2.00	4.00
99th %tile	5.00	6.00	6.00	4.00	2.00	4.00
Max Value	6.00	6.00	6.00	4.00	2.00	4.00

Statistics per Variable

Variable - Nickel [Ni]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

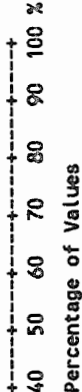
		N		%		Cum %		Standard Deviation		21.86		15.39		32.34		13.15		15.78		9.44	
ppm								Skewness		4.82		3.48		4.17		0.77		1.06		0.58	
2 -								Excess Kurtosis		37.79		19.25		21.44		-0.059		0.72		-0.84	
5 -								Coef. of Var. %		74.73		64.63		82.80		46.01		43.82		53.39	
10 -								Std. Error of the Mean		1.55		1.80		4.40		2.68		3.44		2.53	
20 -								Lower 95% limit on Mean		26.20		20.22		30.23		23.03		28.82		12.25	
50 -								Upper 95% limit on Mean		32.29		27.40		47.88		34.14		43.18		23.17	
100 -								Geometric Statistics		24.52		20.56		32.43		25.82		33.04		15.43	
200 -								Mean		1.39		1.31		1.51		1.41		1.52		1.19	
500 -								Log10 Mean		0.25		0.23		0.25		0.20		0.19		0.24	
								Log10 S.D.		0.02		0.027		0.035		0.042		0.041		0.065	
								Log10 Std. Error of Mean		22.60		18.14		27.64		21.18		27.19		11.18	
								Lower 95% limit on Mean		26.60		23.30		38.05		31.48		40.15		21.29	
								Upper 95% limit on Mean													
								Percentiles													
								Min Value		6.00		7.00		8.00		9.00		11.00		6.00	
								25th %tile		17.00		15.00		22.00		18.00		26.00		10.00	
								50th %tile		26.00		23.00		35.00		27.00		30.00		15.00	
								75th %tile		37.00		28.00		47.00		36.00		43.00		24.00	
								80th %tile		41.00		30.00		48.00		38.00		47.00		28.00	
								90th %tile		47.00		41.00		52.00		44.00		55.00		29.00	
								95th %tile		54.00		43.00		57.00		56.00		61.00		38.00	
								98th %tile		61.00		45.00		124.00		61.00		80.00		38.00	
								99th %tile		121.00		121.00		232.00		61.00		80.00		38.00	
								Max Value		232.00		121.00		232.00		61.00		80.00		38.00	



Statistics per Variable

Variable - Nickel [Ni]
Number of Values - 200
Units - ppm
Detection Limit - 10
Analytical Method - INA

ppm		N		%		Cum %		Standard Deviation		22.12		18.19		28.48		15.90		15.25		14.44	
1- .								Skewness		1.94		1.91		2.05		0.49		0.82		0.48	
2- .								Excess Kurtosis		9.07		8.60		7.51		-0.17		-0.13		-1.35	
. << .								Coef. of Var. %		56.55		53.81		60.16		39.46		29.28		55.24	
5- .		11		5.5		5.5		Std. Error of the Mean		1.56		2.13		3.88		3.25		3.33		3.87	
10- .								Lower 95% limit on Mean		36.03		29.56		39.56		33.58		45.15		17.85	
20- .								Upper 95% limit on Mean		42.20		38.05		55.11		47.01		59.04		34.57	
50- .		24		12.0		17.5		Geometric Statistics		32.90		29.01		39.22		37.15		50.16		22.34	
100- .								Mean		1.52		1.46		1.59		1.57		1.70		1.35	
200- .								Log10 Mean		0.28		0.27		0.30		0.19		0.12		0.27	
								Log10 S.D.		0.02		0.031		0.041		0.038		0.026		0.072	
								Log10 Std. Error of Mean		30.05		25.16		32.47		31.00		44.18		15.58	
								Lower 95% limit on Mean		36.03		33.46		47.37		44.52		56.94		32.03	
								Upper 95% limit on Mean													
								Percentiles		5.00		5.00		5.00		13.00		30.00		5.00	
								Min Value		24.00		22.00		27.00		30.00		41.00		15.00	
								25th %tile		38.00		32.00		47.00		38.00		46.00		21.00	
								50th %tile		50.00		44.00		59.00		48.00		58.00		45.00	
								75th %tile		54.00		47.00		64.00		51.00		62.00		45.00	
								80th %tile		62.00		53.00		66.00		60.00		75.00		47.00	
								90th %tile		66.00		60.00		76.00		73.00		78.00		50.00	
								95th %tile		78.00		64.00		130.00		77.00		90.00		50.00	
								98th %tile		130.00		130.00		180.00		77.00		90.00		50.00	
								99th %tile		180.00		130.00		180.00		77.00		90.00		50.00	
								Max Value		180.00		130.00		180.00		77.00		90.00		50.00	



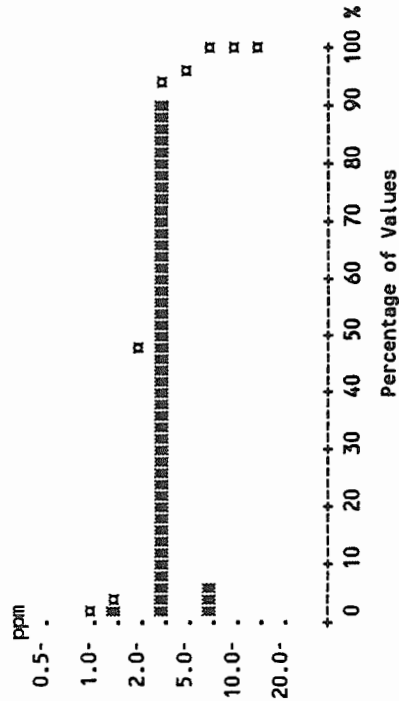
Statistics per Variable

Variable - Rubidium [Rb]
Number of Values - 200
Units - ppm
Detection Limit - 5
Analytical Method - INA

			Total	AIMM	PHCG	AMC	PMI	AFIS
			200	73	54	24	21	14
Number of Values > D.L.			197	72	53	24	21	14
Number of Missing Values			0	0	0	0	0	0
ppm	1-	N % Cum %	Mean	51.72	69.03	55.38	64.33	45.71
	2-		Standard Deviation	17.21	32.17	12.89	23.42	14.48
	5-		Skewness	-0.10	0.12	0.46	-0.030	0.55
	10-		Excess Kurtosis	0.78	-0.91	-0.77	-0.53	-0.54
	20-		Coef. of Var. %	33.28	46.61	23.28	36.40	31.67
ppm	50-		Std. Error of the Mean	2.01	4.38	2.63	5.11	3.87
	100-		Lower 95% limit on Mean	47.70	60.25	49.93	53.67	37.36
	200-		Upper 95% limit on Mean	55.74	77.81	60.82	74.99	54.07
			Geometric Statistics					
ppm	1-		Mean	47.20	59.00	53.98	59.40	43.64
	2-		Log10 Mean	1.67	1.77	1.73	1.77	1.64
	5-		Log10 S.D.	0.23	0.29	0.10	0.19	0.14
	100-		Log10 Std. Error of Mean	0.02	0.040	0.020	0.042	0.037
	200-		Lower 95% limit on Mean	41.65	49.08	48.97	48.56	36.31
			Upper 95% limit on Mean	53.48	70.93	59.50	72.67	52.46
			Percentiles					
Percentage of Values	0		Min Value	2.50	2.50	34.00	18.00	25.00
	10		25th %tile	43.00	43.00	45.00	54.00	39.00
	20		50th %tile	53.00	51.00	53.00	63.00	42.00
	30		75th %tile	68.00	61.00	61.00	77.00	50.00
	40		80th %tile	73.00	63.00	66.00	84.00	58.00
	50		90th %tile	87.00	72.00	77.00	97.00	73.00
	60		95th %tile	100.00	84.00	79.00	100.00	73.00
	70		98th %tile	120.00	86.00	81.00	110.00	73.00
	80		99th %tile	120.00	97.00	81.00	110.00	73.00
	100		Max Value	130.00	97.00	81.00	110.00	73.00

Statistics per Variable

Variable - Samarium [Sm]
Number of Values - 200
Units - ppm
Detection Limit - 0.10
Analytical Method - INA



Total		AJMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	200	73	54	24	21	14
Number of Missing Values	0	0	0	0	0	0
Mean	3.33	3.12	3.85	3.16	3.46	2.81
Standard Deviation	1.12	0.92	1.54	0.68	0.83	0.63
Skewness	2.10	1.76	1.60	0.46	0.53	0.27
Excess Kurtosis	8.55	8.45	4.07	-1.09	-0.67	-0.38
Coef. of Var. %	33.72	29.42	40.09	21.36	23.85	22.42
Std. Error of the Mean	0.08	0.11	0.21	0.14	0.18	0.17
Lower 95% limit on Mean	3.17	2.90	3.43	2.88	3.09	2.44
Upper 95% limit on Mean	3.49	3.33	4.28	3.45	3.84	3.17
Geometric Statistics						
Mean	3.17	2.99	3.60	3.10	3.37	2.74
Log10 Mean	0.50	0.48	0.56	0.49	0.53	0.44
Log10 S.D.	0.13	0.13	0.16	0.091	0.10	0.10
Log10 Std. Error of Mean	0.01	0.015	0.022	0.019	0.022	0.027
Lower 95% limit on Mean	3.04	2.80	3.25	2.83	3.03	2.40
Upper 95% limit on Mean	3.31	3.20	3.98	3.38	3.75	3.13
Percentiles						
Min Value	1.20	1.20	1.30	2.20	2.10	1.60
25th %tile	2.70	2.70	2.80	2.60	3.00	2.40
50th %tile	3.10	3.00	3.50	3.00	3.40	2.60
75th %tile	3.70	3.40	4.70	3.60	3.70	3.20
80th %tile	3.90	3.70	4.80	4.00	4.20	3.20
90th %tile	4.60	4.10	5.90	4.30	4.80	3.70
95th %tile	5.40	4.40	6.30	4.30	4.80	4.10
98th %tile	6.20	4.60	7.00	4.40	5.20	4.10
99th %tile	7.00	7.90	10.40	4.40	5.20	4.10
Max Value	10.40	7.90	10.40	4.40	5.20	4.10

Statistics per Variable

Variable - Scandium [Sc]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - INA

		N		%	Cum %	Total	AIMM	PHCG	AMC	PMI	AFIS
ppm						Number of Values		54		21	
0.02-	-					Number of Values > D.L.		73		21	
0.05-	-					Number of Missing Values		54		21	
0.10-	-					0		0		0	
		1		0.5	0.5	Mean		8.37		9.59	
						Standard Deviation		2.16		2.37	
						Skewness		-0.33		0.84	
						Excess Kurtosis		1.65		0.051	
						Coef. of Var. %		23.91		15.53	
						Std. Error of the Mean		0.15		0.32	
						Lower 95% limit on Mean		8.74		8.46	
						Upper 95% limit on Mean		9.34		10.23	
						Geometric Statistics					
						Mean		8.62		9.48	
						Log10 Mean		0.94		0.98	
						Log10 S.D.		0.18		0.12	
		5		2.5	3.0	Log10 Std. Error of Mean		0.01		0.017	
						Lower 95% limit on Mean		8.14		8.85	
						Upper 95% limit on Mean		9.13		10.16	
		146		73.0	76.0	Percentiles					
						Min Value		2.10		7.50	
						25th %tile		7.40		8.40	
						50th %tile		8.30		9.30	
						75th %tile		10.00		11.00	
						80th %tile		10.00		12.00	
						90th %tile		11.00		11.00	
						95th %tile		12.00		12.00	
						98th %tile		12.00		13.00	
						99th %tile		13.00		13.00	
						Max Value		15.00		15.00	

Statistics per Variable

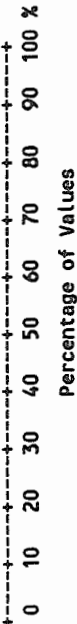
Variable - Silver [Ag]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - AAS

		N		%		Cum %		Total							
								ATMM		PHCG		AMC		PMI	

Statistics per Variable

Variable - Sodium [Na]
Number of Values - 200
Units - pct
Detection Limit - 0.02
Analytical Method - INA

pct	N	%	Cum %	Total						
				Number of Values	AIMM	PHCG	AMC	PMI	AFIS	
0.002-				200	73	54	24	21	14	
				Number of Values > D.L.	73	54	24	21	14	
0.005-				Number of Missing Values	0	0	0	0	0	
				Mean	1.66	1.72	1.74	1.81	1.84	
0.010-				Standard Deviation	0.45	0.50	0.32	0.60	0.46	
				Skewness	-1.37	-1.32	0.46	-1.14	-0.35	
0.020-	1	0.5	0.5	Excess Kurtosis	2.45	1.78	-0.89	0.15	-1.12	
				Coef. of Var. %	27.78	29.09	18.33	33.02	24.92	
0.050-				Std. Error of the Mean	0.03	0.068	0.065	0.13	0.12	
				Lower 95% Limit on Mean	1.66	1.59	1.60	1.54	1.57	
0.100-	2	1.0	1.5	Upper 95% Limit on Mean	1.79	1.86	1.87	2.08	2.10	
				Geometric Statistics						
0.200-				Mean	1.57	1.58	1.71	1.65	1.78	
	1	0.5	2.0	Log10 Mean	0.20	0.20	0.23	0.22	0.25	
0.500-				Log10 S.D.	0.27	0.22	0.078	0.23	0.12	
	5	2.5	4.5	Log10 Std. Error of Mean	0.02	0.030	0.016	0.050	0.032	
				Lower 95% Limit on Mean	1.44	1.38	1.59	1.30	1.52	
1.000-	5	2.5	7.0	Upper 95% Limit on Mean	1.71	1.82	1.85	2.10	2.09	
				Percentiles						
2.000-	129	64.5	71.5	Min Value	0.01	0.14	1.30	0.29	0.94	
				25th %tile	1.50	1.50	1.50	1.40	1.50	
5.000-	57	28.5	100.0	50th %tile	1.80	1.80	1.70	2.06	1.80	
				75th %tile	2.04	2.03	1.80	2.26	2.30	
				80th %tile	2.10	2.10	2.09	2.26	2.37	
				90th %tile	2.24	2.24	2.22	2.29	2.38	
				95th %tile	2.31	2.36	2.23	2.33	2.38	
				98th %tile	2.38	2.37	2.41	2.35	2.38	
				99th %tile	2.41	2.46	2.41	2.35	2.38	
				Max Value	2.46	2.46	2.41	2.35	2.38	



Statistics per Variable

Variable - Tantalum [Ta]

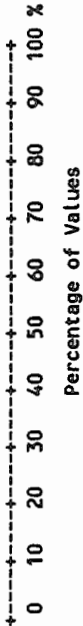
Number of Values - 200

Units - ppm

Detection Limit - 0.5

Analytical Method - INA

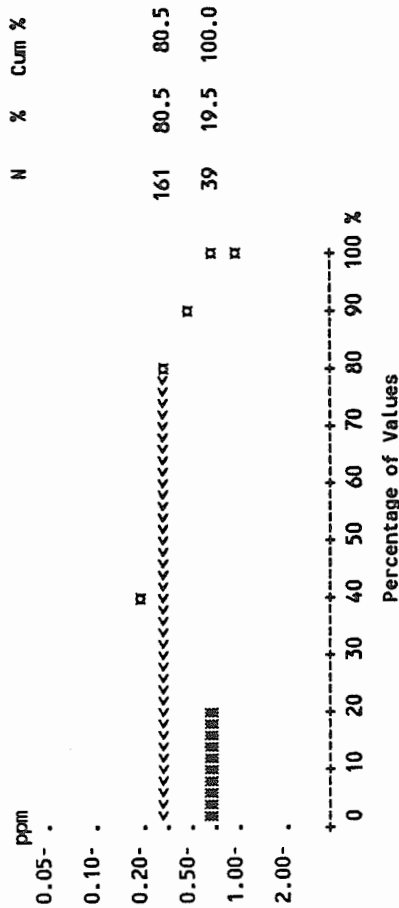
ppm	N	%	Cum %
0.1- .			
0.2- .			
0.5- .	81	40.5	40.5
1.0- .	117	58.5	99.0
2.0- .	2	1.0	100.0



Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	73	54	24	21	14
Number of Values > D.L.	50	42	17	13	7
Number of Missing Values	0	0	0	0	0
Mean	0.51	0.62	0.53	0.55	0.41
Standard Deviation	0.19	0.24	0.20	0.27	0.17
Skewness	-0.35	-0.34	-0.44	0.094	0.24
Excess Kurtosis	-1.38	-0.85	-1.38	-1.33	-1.79
Coef. of Var. %	37.80	38.00	37.11	48.45	42.49
Std. Error of the Mean	0.023	0.032	0.040	0.058	0.047
Lower 95% limit on Mean	0.47	0.56	0.44	0.43	0.31
Upper 95% limit on Mean	0.56	0.69	0.61	0.67	0.51
Geometric Statistics					
Mean	0.47	0.57	0.48	0.48	0.38
Log10 Mean	-0.33	-0.25	-0.31	-0.32	-0.42
Log10 S.D.	0.19	0.21	0.19	0.24	0.19
Log10 Std. Error of Mean	0.023	0.028	0.040	0.052	0.050
Lower 95% limit on Mean	0.42	0.50	0.40	0.38	0.29
Upper 95% limit on Mean	0.52	0.64	0.58	0.62	0.48
Percentiles					
Min Value	0.25	0.25	0.25	0.25	0.25
25th %tile	0.25	0.50	0.25	0.25	0.25
50th %tile	0.60	0.70	0.60	0.60	0.25
75th %tile	0.70	0.80	0.70	0.80	0.60
80th %tile	0.70	0.80	0.70	0.80	0.60
90th %tile	0.80	0.90	0.70	0.80	0.60
95th %tile	0.80	1.00	0.80	0.80	0.70
98th %tile	0.90	1.00	0.80	1.10	0.70
99th %tile	1.00	1.10	0.80	1.10	0.70
Max Value	1.10	1.10	0.80	1.10	0.70

Statistics per Variable

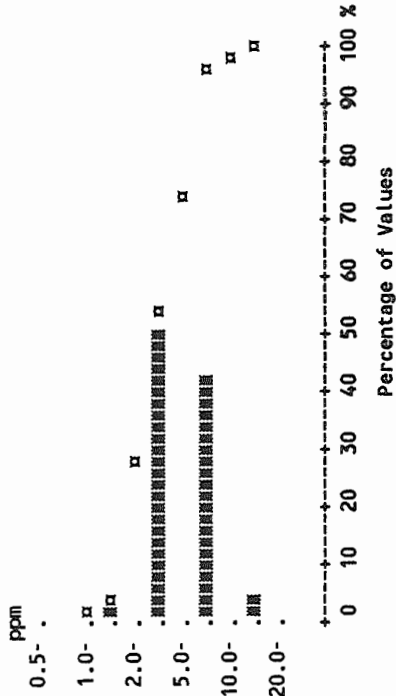
Variable - Terbium [Tb]
Number of Values - 200
Units - ppm
Detection Limit - 0.5
Analytical Method - INA



Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	73	54	24	21	14
Number of Values > D.L.	16	23	5	5	2
Number of Missing Values	0	0	0	0	0
Mean	0.33	0.43	0.34	0.33	0.29
Standard Deviation	0.15	0.22	0.17	0.16	0.11
Skewness	1.77	0.54	1.47	1.56	1.94
Excess Kurtosis	2.03	-1.49	0.28	1.11	2.13
Coef. of Var. %	47.18	51.20	51.91	48.68	37.80
Std. Error of the Mean	0.018	0.030	0.036	0.035	0.030
Lower 95% limit on Mean	0.29	0.37	0.26	0.26	0.23
Upper 95% limit on Mean	0.36	0.49	0.41	0.41	0.36
Geometric Statistics					
Mean	0.30	0.38	0.31	0.31	0.28
Log10 Mean	-0.52	-0.42	-0.51	-0.51	-0.55
Log10 S.D.	0.16	0.22	0.18	0.17	0.12
Log10 Std. Error of Mean	0.019	0.029	0.036	0.036	0.033
Lower 95% limit on Mean	0.28	0.33	0.26	0.26	0.24
Upper 95% limit on Mean	0.33	0.43	0.36	0.37	0.33
Percentiles					
Min Value	0.25	0.25	0.25	0.25	0.25
25th %tile	0.25	0.25	0.25	0.25	0.25
50th %tile	0.25	0.25	0.25	0.25	0.25
75th %tile	0.25	0.60	0.25	0.25	0.25
80th %tile	0.50	0.70	0.50	0.50	0.25
90th %tile	0.60	0.80	0.70	0.60	0.50
95th %tile	0.70	0.80	0.70	0.60	0.60
98th %tile	0.80	0.80	0.70	0.80	0.60
99th %tile	0.80	0.80	0.70	0.80	0.60
Max Value	0.90	0.80	0.70	0.80	0.60

Statistics per Variable

Variable - Thorium [Th]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - INA



Total		AIHM	PHCG	AMC	PMI	AFIS
Number of Values Number of Values > D.L. Number of Missing Values	200	73	54	24	21	14
	200	73	54	24	21	14
	0	0	0	0	0	0
Mean		4.79	6.44	5.21	5.76	4.39
Standard Deviation		2.48	3.60	1.74	2.29	1.34
Skewness		1.22	0.53	0.62	0.85	0.38
Excess Kurtosis		1.68	-0.88	-1.00	0.33	-1.02
Coef. of Var. %		46.35	55.90	33.37	39.77	30.60
Std. Error of the Mean		0.18	0.49	0.35	0.50	0.36
Lower 95% limit on Mean		5.00	4.43	4.47	4.71	3.62
Upper 95% limit on Mean		5.69	5.15	5.94	6.80	5.17
Geometric Statistics						
Mean		4.83	5.44	4.95	5.36	4.20
Log10 Mean		0.68	0.74	0.69	0.73	0.62
Log10 S.D.		0.20	0.26	0.14	0.17	0.13
Log10 Std. Error of Mean		0.01	0.036	0.029	0.037	0.036
Lower 95% limit on Mean		4.54	4.10	4.32	4.50	3.52
Upper 95% limit on Mean		5.15	4.92	5.67	6.39	5.02
Percentiles						
Min Value		1.10	1.70	2.70	3.10	2.50
25th %tile		3.60	3.20	3.80	3.80	3.20
50th %tile		4.90	5.60	4.70	5.80	4.20
75th %tile		6.50	9.00	6.00	7.10	5.40
80th %tile		7.10	9.40	7.60	7.20	5.70
90th %tile		8.30	12.00	8.00	8.30	6.10
95th %tile		10.00	13.00	8.10	9.10	7.10
98th %tile		13.00	14.00	8.60	12.00	7.10
99th %tile		13.00	14.00	8.60	12.00	7.10
Max Value		14.00	14.00	8.60	12.00	7.10

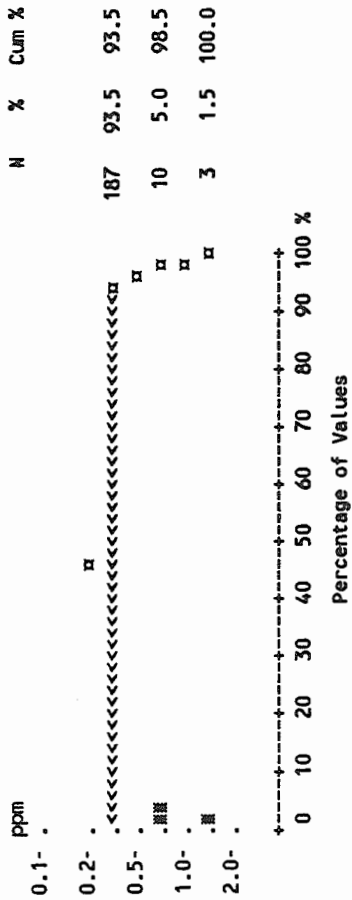
Statistics per Variable

Variable - Tin [Sn]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - AAS

ppm	N	%	Cum %	Total					AFIS				
				Number of Values	AIMM	PHCG	AMC	PMI					
0.1- .				200	73	54	24	21				14	
0.2- .				180	66	47	22	19				13	
0.5- .				0	0	0	0	0				0	
1.0- .				3.39	3.57	3.29	3.33	4.00				3.04	
2.0- .				2.26	2.57	2.16	2.18	2.04				1.69	
5.0- .				1.15	1.38	0.77	1.01	0.063				0.55	
10.0- .				1.96	2.51	-0.059	0.57	-0.94				-0.035	
20.0- .				66.45	72.14	65.85	65.26	51.08				55.75	
	20	10.0	10.0	0.16	0.30	0.29	0.44	0.45				0.45	
	19	9.5	19.5	3.08	2.97	2.70	2.41	3.07				2.06	
	37	18.5	38.0	3.71	4.17	3.88	4.25	4.93				4.01	
				Geometric Statistics									
				2.63	2.70	2.52	2.64	3.30				2.52	
	92	46.0	84.0	0.42	0.43	0.40	0.42	0.52				0.40	
				0.34	0.35	0.35	0.33	0.32				0.31	
	31	15.5	99.5	0.02	0.041	0.048	0.068	0.071				0.082	
				2.36	2.24	2.02	1.91	2.34				1.67	
	1	0.5	100.0	2.93	3.27	3.15	3.64	4.63				3.79	
				Percentiles									
				0.50	0.50	0.50	0.50	0.50				0.50	
				2.00	2.00	2.00	2.00	3.00				2.00	
				3.00	3.00	3.00	3.00	4.00				3.00	
				4.00	5.00	4.00	4.00	6.00				4.00	
				5.00	5.00	5.00	4.00	6.00				4.00	
				6.00	7.00	6.00	7.00	6.00				5.00	
				8.00	9.00	8.00	8.00	7.00				7.00	
				9.00	10.00	8.00	9.00	8.00				7.00	
				9.00	14.00	9.00	9.00	8.00				7.00	
				14.00	14.00	9.00	9.00	8.00				7.00	

Statistics per Variable

Variable - Tungsten [W]
Number of Values - 200
Units - ppm
Detection Limit - 1
Analytical Method - INA

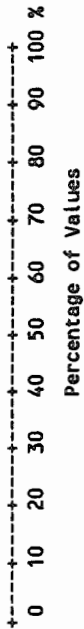


	Total					PHCG	AMC	PMI	AFIS
	Number of Values	Number of Values > D.L.	Number of Missing Values	Mean	Standard Deviation				
Number of Values > D.L.	200	13	0	0.53	0.19	54	24	21	14
Number of Missing Values	0	0	0	0.53	0.19	6	2	1	1
Mean	0.55	0.21	0.55	0.53	0.19	0.59	0.54	0.52	0.54
Standard Deviation	0.21	0.21	0.21	0.19	0.19	0.31	0.14	0.11	0.13
Skewness	5.43	5.43	5.43	6.44	6.44	3.67	2.83	3.95	2.98
Excess Kurtosis	32.23	32.23	32.23	44.12	44.12	13.32	6.27	14.28	7.41
Coef. of Var. %	38.41	38.41	38.41	36.01	36.01	52.02	26.06	20.83	24.94
Std. Error of the Mean	0.01	0.01	0.01	0.023	0.023	0.042	0.029	0.024	0.036
Lower 95% limit on Mean	0.52	0.52	0.52	0.49	0.49	0.51	0.48	0.47	0.46
Upper 95% limit on Mean	0.58	0.58	0.58	0.58	0.58	0.68	0.60	0.57	0.61
Geometric Statistics	0.53	0.53	0.53	0.52	0.52	0.55	0.53	0.52	0.53
Mean	-0.28	-0.28	-0.28	-0.28	-0.28	-0.26	-0.28	-0.29	-0.28
Log10 Mean	0.10	0.10	0.10	0.085	0.085	0.14	0.085	0.066	0.080
Log10 S.D.	0.01	0.01	0.01	0	0	0.019	0.017	0.014	0.022
Log10 Std. Error of Mean	0.51	0.51	0.51	0.50	0.50	0.51	0.49	0.48	0.47
Lower 95% limit on Mean	0.55	0.55	0.55	0.54	0.54	0.60	0.58	0.55	0.58
Upper 95% limit on Mean									
Percentiles	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Min Value	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
25th %tile	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
50th %tile	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
75th %tile	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
80th %tile	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
90th %tile	0.50	0.50	0.50	0.50	0.50	1.00	0.50	0.50	0.50
95th %tile	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.50	1.00
98th %tile	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.00
99th %tile	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00
Max Value	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00

Statistics per Variable

Variable - Uranium [U]
Number of Values - 200
Units - ppm
Detection Limit - 0.2
Analytical Method - INA

ppm	N	%	Cum %
0.1-	3	1.5	1.5
0.2-			
0.5-	100	50.0	51.5
1.0-	77	38.5	90.0
2.0-	19	9.5	99.5
5.0-	1	0.5	100.0
10.0-			

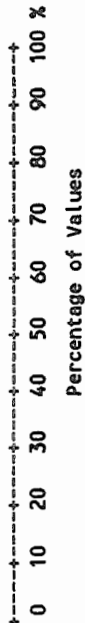


Total	AJMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21
Number of Values > D.L.	200	73	54	24	21
Number of Missing Values	0	0	0	0	0
Mean	1.24	1.06	1.56	1.00	1.61
Standard Deviation	0.72	0.36	0.82	0.25	1.35
Skewness	3.80	1.94	1.14	0.82	3.14
Excess Kurtosis	23.09	7.54	1.08	0.73	9.97
Coef. of Var. %	57.69	33.97	52.42	25.00	83.72
Std. Error of the Mean	0.05	0.042	0.11	0.051	0.29
Lower 95% limit on Mean	1.14	0.97	1.34	0.90	1.00
Upper 95% limit on Mean	1.34	1.14	1.79	1.11	2.23
Geometric Statistics					
Mean	1.12	1.01	1.38	0.98	1.37
Log10 Mean	0.05	0	0.14	-0.011	0.14
Log10 S.D.	0.18	0.14	0.22	0.11	0.22
Log10 Std. Error of Mean	0.01	0.016	0.029	0.022	0.049
Lower 95% limit on Mean	1.06	0.94	1.21	0.88	1.08
Upper 95% limit on Mean	1.19	1.08	1.58	1.08	1.73
Percentiles					
Min Value	0.40	0.40	0.60	0.60	0.70
25th %tile	0.90	0.80	0.90	0.80	1.00
50th %tile	1.00	1.00	1.40	1.00	1.10
75th %tile	1.40	1.20	2.10	1.10	1.70
80th %tile	1.50	1.30	2.40	1.20	2.00
90th %tile	2.00	1.50	2.70	1.20	2.20
95th %tile	2.40	1.70	3.10	1.50	2.40
98th %tile	3.00	1.80	3.40	1.70	2.70
99th %tile	3.40	2.90	4.40	1.70	3.10
Max Value	7.10	2.90	4.40	1.70	3.10

Statistics per Variable

Variable - Uranium in Water [U-W]
Number of Values - 198
Units - ppb
Detection Limit - 0.05
Analytical Method - LIF

ppb	N	%	Cum %
0.01-	166	83.8	83.8
0.02-	4	2.0	85.9
0.05-	10	5.1	90.9
0.10-	10	5.1	96.0
0.20-	5	2.5	98.5
0.50-	2	1.0	99.5
1.00-	1	0.5	100.0
2.00-			
5.00-			

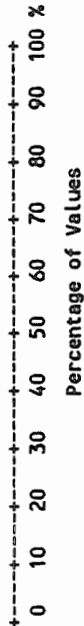


Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	198	72	53	24	21
Number of Values > D.L.	32	14	4	4	6
Number of Missing Values	2	1	1	0	0
Mean	0.09	0.084	0.059	0.052	0.29
Standard Deviation	0.28	0.22	0.13	0.084	0.67
Skewness	6.74	6.63	3.70	3.57	2.69
Excess Kurtosis	52.89	48.02	12.10	12.69	6.57
Coef. of Var. %	298.85	268.02	225.52	160.49	228.73
Std. Error of the Mean	0.02	0.026	0.018	0.017	0.15
Lower 95% Limit on Mean	0.05	0.031	0.022	0.017	-0.012
Upper 95% Limit on Mean	0.13	0.14	0.095	0.087	0.60
Geometric Statistics					
Mean	0.04	0.038	0.031	0.034	0.061
Log10 Mean	-1.43	-1.42	-1.51	-1.47	-1.43
Log10 S.D.	0.42	0.41	0.33	0.32	0.68
Log10 Std. Error of Mean	0.03	0.048	0.045	0.065	0.15
Lower 95% Limit on Mean	0.03	0.031	0.025	0.025	0.030
Upper 95% Limit on Mean	0.04	0.048	0.038	0.046	0.12
Percentiles					
Min Value	0.03	0.025	0.025	0.025	0.025
25th %tile	0.03	0.025	0.025	0.025	0.025
50th %tile	0.03	0.025	0.025	0.025	0.025
75th %tile	0.03	0.025	0.025	0.025	0.025
80th %tile	0.03	0.025	0.025	0.025	0.38
90th %tile	0.19	0.21	0.025	0.10	0.56
95th %tile	0.44	0.25	0.56	0.13	1.56
98th %tile	0.81	0.46	0.58	0.42	2.78
99th %tile	1.83	1.83	0.63	0.42	2.78
Max Value	2.78	1.83	0.63	0.42	2.78

Statistics per Variable

Variable - Uranium [U]
Number of Values - 200
Units - ppm
Detection Limit - 0.5
Analytical Method - NADNC

ppm	N	%	Cum %
0.1- -			
0.2- -	1	0.5	0.5
0.5- -			
1.0- -	85	42.5	43.0
2.0- -			
5.0- -			
10.0- -			

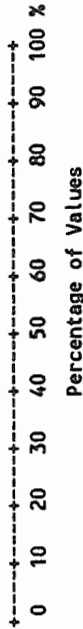


Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	73	54	24	21	14
Number of Values > D.L.	72	54	24	21	14
Number of Missing Values	0	0	0	0	0
Mean	1.10	1.64	1.09	1.68	1.02
Standard Deviation	0.77	0.83	0.28	1.53	0.26
Skewness	4.10	1.22	1.05	3.15	0.21
Excess Kurtosis	27.36	1.83	0.87	9.96	-1.12
Coef. of Var. %	36.92	50.43	25.76	91.49	25.23
Std. Error of the Mean	0.05	0.11	0.057	0.33	0.069
Lower 95% Limit on Mean	1.20	1.42	0.97	0.98	0.87
Upper 95% Limit on Mean	1.41	1.87	1.21	2.37	1.17
Geometric Statistics					
Mean	1.17	1.47	1.06	1.38	0.99
Log10 Mean	0.07	0.17	0.026	0.14	-0
Log10 S.D.	0.19	0.21	0.10	0.24	0.11
Log10 Std. Error of Mean	0.01	0.028	0.021	0.052	0.030
Lower 95% Limit on Mean	1.10	1.29	0.96	1.08	0.85
Upper 95% Limit on Mean	1.24	1.67	1.17	1.77	1.15
Percentiles					
Min Value	0.25	0.60	0.70	0.70	0.60
25th %tile	0.90	1.00	0.90	1.00	0.90
50th %tile	1.10	1.40	1.00	1.10	0.90
75th %tile	1.40	2.10	1.20	1.80	1.30
80th %tile	1.50	2.30	1.20	2.20	1.30
90th %tile	2.10	2.60	1.50	2.30	1.30
95th %tile	2.50	3.40	1.60	2.70	1.50
98th %tile	3.20	3.50	1.90	7.90	1.50
99th %tile	3.50	4.70	1.90	7.90	1.50
Max Value	7.90	4.70	1.90	7.90	1.50

Statistics per Variable

Variable - Vanadium [V]
Number of Values - 200
Units - ppm
Detection Limit - 5
Analytical Method - AAS

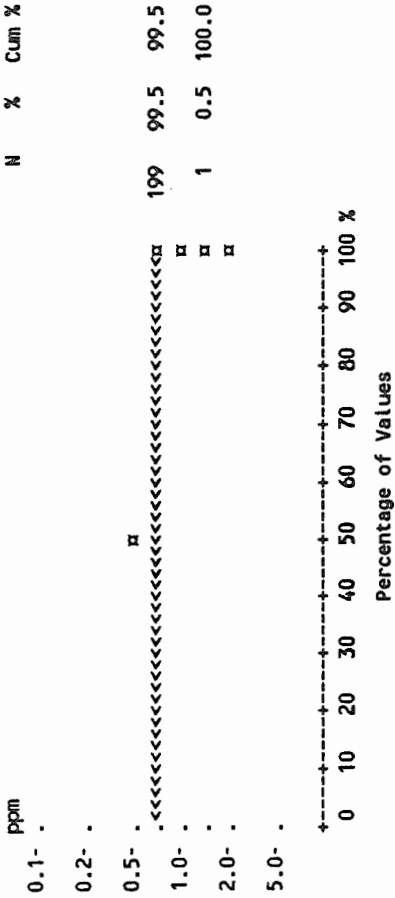
	N	%	Cum %
5- .			
10- .			
20- .	55	27.5	27.5
50- .	135	67.5	95.0
100- .	10	5.0	100.0



	Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21	14
Number of Values > D.L.	200	73	54	24	21	14
Number of Missing Values	0	0	0	0	0	0
Mean	27.97	24.27	34.63	29.25	30.14	21.79
Standard Deviation	10.66	7.61	13.15	10.33	7.05	7.53
Skewness	0.78	0.21	0.22	0.46	0.40	0.43
Excess Kurtosis	0.24	-0.97	-1.05	-0.82	-0.93	-1.25
Coef. of Var. %	38.10	31.34	37.96	35.30	23.39	34.55
Std. Error of the Mean	0.75	0.89	1.79	2.11	1.54	2.01
Lower 95% Limit on Mean	26.48	22.50	31.04	24.89	26.93	17.44
Upper 95% Limit on Mean	29.46	26.05	38.22	33.61	33.35	26.13
Geometric Statistics						
Mean	26.06	23.06	32.04	27.53	29.38	20.61
Log10 Mean	1.42	1.36	1.51	1.44	1.47	1.31
Log10 S.D.	0.16	0.14	0.18	0.16	0.10	0.15
Log10 Std. Error of Mean	0.01	0.017	0.024	0.032	0.022	0.040
Lower 95% Limit on Mean	24.72	21.35	28.64	23.66	26.43	16.88
Upper 95% Limit on Mean	27.48	24.90	35.84	32.04	32.65	25.18
Percentiles						
Min Value	11.00	11.00	12.00	14.00	21.00	11.00
25th %tile	20.00	19.00	24.00	21.00	24.00	16.00
50th %tile	26.00	22.00	34.00	26.00	30.00	19.00
75th %tile	34.00	30.00	45.00	37.00	34.00	26.00
80th %tile	36.00	31.00	47.00	40.00	35.00	32.00
90th %tile	41.00	35.00	53.00	41.00	40.00	33.00
95th %tile	48.00	37.00	57.00	45.00	41.00	35.00
98th %tile	55.00	40.00	58.00	53.00	45.00	35.00
99th %tile	57.00	41.00	62.00	53.00	45.00	35.00
Max Value	62.00	41.00	62.00	53.00	45.00	35.00

Statistics per Variable

Variable - Ytterbium [Yb]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - INA



Total	AIMM	PHCG	AMC	PMI	AFIS
Number of Values	200	73	54	24	21
Number of Values > D.L.	1	0	0	0	1
Number of Missing Values	0	0	0	0	0
Mean	1.00	-	-	-	1.05
Standard Deviation	0.07	-	-	-	0.22
Skewness	13.93	-	-	-	3.95
Excess Kurtosis	193.03	-	-	-	14.28
Coef. of Var. %	7.04	-	-	-	20.83
Std. Error of the Mean	0.00	-	-	-	0.048
Lower 95% limit on Mean	1.00	-	-	-	0.95
Upper 95% limit on Mean	1.01	-	-	-	1.15
Geometric Statistics					
Mean	1.00	-	-	-	1.03
Log10 Mean	0.00	-	-	-	0.014
Log10 S.D.	0.02	-	-	-	0.066
Log10 Std. Error of Mean	0.00	-	-	-	0.014
Lower 95% limit on Mean	1.00	-	-	-	0.96
Upper 95% limit on Mean	1.01	-	-	-	1.11
Percentiles					
Min Value	1.00	-	-	-	1.00
25th %tile	1.00	-	-	-	1.00
50th %tile	1.00	-	-	-	1.00
75th %tile	1.00	-	-	-	1.00
80th %tile	1.00	-	-	-	1.00
90th %tile	1.00	-	-	-	1.00
95th %tile	1.00	-	-	-	1.00
98th %tile	1.00	-	-	-	2.00
99th %tile	1.00	-	-	-	2.00
Max Value	2.00	-	-	-	2.00

Statistics per Variable

Variable - Zinc [Zn]
Number of Values - 200
Units - ppm
Detection Limit - 2
Analytical Method - AAS

ppm	N	%	Cum %	Total					AFIS
				Number of Values	AIMM	PHCG	AMC	PMI	
5- .				200	73	54	24	21	14
10- .				200	73	54	24	21	14
20- .				0	0	0	0	0	0
50- .				60.81	55.75	79.04	55.75	54.43	53.71
100- .				58.59	77.43	50.50	28.07	32.44	59.46
200- .				6.65	7.37	1.47	1.35	0.51	2.42
500- .				63.79	57.14	3.12	2.87	-1.33	5.19
1000- .				96.35	138.88	63.89	50.34	59.60	110.70
	17	8.5	8.5	4.14	9.06	6.87	5.73	7.08	15.89
	80	40.0	48.5	52.64	37.69	65.25	43.90	39.66	19.39
	87	43.5	92.0	68.97	73.82	92.82	67.60	69.19	88.04
				Geometric Statistics					
				48.82	43.88	64.70	49.57	45.64	38.78
				1.69	1.64	1.81	1.70	1.66	1.59
	12	6.0	98.0	0.27	0.25	0.29	0.22	0.27	0.33
	3	1.5	99.5	0.02	0.030	0.039	0.045	0.058	0.089
	1	0.5	100.0	44.74	38.28	53.93	39.95	34.52	24.94
				53.28	50.30	77.63	61.50	60.34	60.29
				Percentiles					
				12.00	15.00	16.00	14.00	20.00	12.00
				30.00	30.00	40.00	38.00	25.00	24.00
				52.00	50.00	83.00	55.00	39.00	31.00
				73.00	62.00	98.00	68.00	80.00	57.00
				81.00	66.00	104.00	73.00	84.00	71.00
				97.00	72.00	119.00	80.00	95.00	79.00
				113.00	82.00	198.00	90.00	111.00	248.00
				198.00	95.00	217.00	150.00	116.00	248.00
				248.00	686.00	272.00	150.00	116.00	248.00
				686.00	686.00	272.00	150.00	116.00	248.00