

**REPORT ON THE U.S. GEOLOGICAL SURVEY'S EVALUATION
PROGRAM FOR STANDARD REFERENCE SAMPLES DISTRIBUTED IN
OCTOBER 1993 T-127 (TRACE CONSTITUENTS), M-128 (MAJOR
CONSTITUENTS), N-40 (NUTRIENTS), N-41 (NUTRIENTS), P-21 (LOW
IONIC STRENGTH), Hg-17 (MERCURY), AMW-3 (ACID MINE WATER),
AND WW-1 (WHOLE WATER)**

by H. Keith Long and Jerry W. Farrar

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REPORT ON THE U.S. GEOLOGICAL SURVEY'S EVALUATION PROGRAM
FOR STANDARD REFERENCE SAMPLES DISTRIBUTED IN OCTOBER 1993
T-127 (TRACE CONSTITUENTS), M-128 (MAJOR CONSTITUENTS),
N-40 (NUTRIENTS), N-41 (NUTRIENTS), P-21 (LOW IONIC STRENGTH),
Hg-17 (MERCURY), AMW-3 (ACID MINE WATER), AND
WW-1 (WHOLE WATER)

By H. Keith Long and Jerry W. Farrar

ABSTRACT

This report presents the results of the U.S. Geological Survey's analytical evaluation program for eight standard reference samples--T-127 (trace constituents), M-128 (major constituents), N-40 (nutrients), N-41 (nutrients), P-21 (low ionic strength), Hg-17 (mercury), AMW-3 (acid mine water), and WW-1 (whole water)--that were distributed in October, 1993 to 158 laboratories registered in the U.S. Geological Survey sponsored interlaboratory testing program. Analytical data that were received from 145 of the laboratories were evaluated with respect to: overall laboratory performance and relative laboratory performance for each analyte in the eight reference samples. Results of these evaluations are presented in tabular form. Also presented are tables and graphs summarizing the analytical data provided by each laboratory for each analyte in the eight standard reference samples. The most probable value for each analyte was determined using nonparametric statistics.

INTRODUCTION

The U.S. Geological Survey (USGS) conducts an interlaboratory evaluation program semiannually. This program provides a variety of reference materials to accomplish quality assurance testing of laboratories and to provide an adequate supply of samples that contribute to quality control programs of participating laboratories. Natural-matrix reference materials are preferred for use in this interlaboratory evaluation program. A series of samples are prepared and distributed each spring and fall. Occasionally, sediment samples are provided.

The program began in 1962 with a single sample containing major constituents that was prepared from distilled water and reagent grade chemicals. Twenty-three USGS laboratories participated in the 1962 determinations of six analytes in the major standard reference sample (SRS). Since that time, objectives of the program have been to:

- (1) evaluate and improve the performance of USGS and other participating laboratories;
- (2) provide a library of carefully prepared, homogeneous, stable reference materials for use in the quality control programs of laboratories;
- (3) identify analytical problem areas;
- (4) identify quality assurance needs with respect to environmental analyses and develop new reference materials to meet these needs; and
- (5) ascertain the accuracy and precision of analytical methods.

One hundred eighty-five USGS and non-USGS laboratories are registered in the program, which can currently provide nine standard reference sample types:

1. Trace constituents
2. Major constituents
3. Nutrients
4. Low ionic strength
5. Mercury
6. Water and suspended sediment mixtures for trace metals
7. Acid mine drainage
8. Sediment (bed material) for major and trace constituents
9. Whole water (water with suspended sediment)

When sufficient data are available, a most probable value is statistically determined for each analyte in the SRS.

Though this is not a laboratory certification program, participation in this continuing quality assurance program is mandatory for all laboratories providing water-analyses data for USGS data storage or use (publications). Federal, State, municipal, and university laboratories can participate even though they do not provide data to the USGS. Analyses of these SRS provides the means to alert participating laboratories of possible deficiencies in their analytical operations, and also provides reference materials for in-house quality control programs. Participating laboratories are identified only by a confidential code number.

A library of SRS, from previous evaluations, are available on request. Participating laboratories can request previous SRS for further testing, continuing quality assurance, and quality control programs by contacting:

Chief Laboratory Section, BQA
U.S. Geological Survey
Branch of Quality Assurance
Denver Federal Center
Box 25046 MS 401
Denver, CO 80225

Purpose and Scope

This report summarizes the analytical results submitted by 145 of the 158 laboratories (table 1) that requested and were shipped SRS for the October 1993 evaluation. Not all SRS are requested, nor necessarily analyzed by all the laboratories; nor do all laboratories enrolled in the program participate in each evaluation. Analytical results for the following, which were mailed the week of October 18, 1993, are presented in this report:

| | |
|-------|--|
| T-127 | Trace constituents |
| M-128 | Major constituents |
| N-40 | Nutrients--low level concentrations (analytes < 0.5 milligrams per Liter) |
| N-41 | Nutrients--high level concentrations (analytes > 0.5 milligrams per Liter) |
| P-21 | Low ionic strength (precipitation) |
| Hg-17 | Mercury |
| AMW-3 | Acid mine water |
| WW-1 | Whole water |

The USGS requested that analytical results be returned by December 15, 1993, for evaluation and preparation of this report. Each participating laboratory is requested to perform those determinations routinely made on the respective SRS for USGS investigations and to indicate the analytical method used to determine the concentration of each analyte. When analytical-method information was provided, it has been included in the respective data table. The analytical data are presented in ways that allow participants to evaluate data distribution, scatter, outliers, central tendency, bias, skewness, and method relationships.

Table 1.--Laboratory participants in the analyses of standard reference samples distributed in October 1993

| State | City | Participating Laboratory |
|------------------|--|--|
| Alabama | Tuscaloosa | Geological Survey of Alabama |
| Alaska | Fairbanks | Alaska Department of Natural Resources |
| Arizona | Phoenix | Arizona Department of Health Services |
| | Phoenix | Nestech Labs, Inc. |
| | Yuma | Burns and Roe Services Corporation |
| Arkansas | Arkadelphia | Ouachita Baptist University |
| | Little Rock | Arkansas Department of Pollution Control and Ecology |
| California | Castiac | Castaic Chemical Laboratory, Department of Water Resources |
| | Davis | University of California - Davis |
| | La Mesa | San Diego Water Utility |
| | Lakeside | Helix Water District |
| | Martinez | Central Contra Costa Sanitary District |
| | Oakland | East Bay Municipal Utility District |
| | Sacramento | Anlab |
| | Sacramento | US Bureau of Reclamation, Water Quality Laboratory |
| | Sacramento | USGS |
| | San Diego | USGS |
| | Santa Barbara | University of California - Santa Barbara |
| Sante Fe Springs | West Coast Analytical Services | |
| West Sacramento | California Department of Water Resources | |
| West Sacramento | Enseco - Callab | |
| Colorado | Alamosa | US Bureau of Reclamation |
| | Arvada | USGS National Water Quality Laboratory |
| | Arvada | Enseco - Rocky Mountain Analytical Laboratory |
| | Aurora | Core Laboratories, Inc. |
| | Denver | US Bureau of Reclamation |
| | Denver | USGS |
| | Denver | USGS - Hydrologic Research Unit |
| | Denver | Denver Water Department |
| | Denver | Metro Wastewater Reclamation |
| | Fort Collins | City of Fort Collins - Water Quality |
| | Fort Collins | USDA US Forest Service |
| | Golden | EG & G Rocky Flats |
| | Golden | Huffman Laboratories |
| | Loveland | Northern Colorado Water Conservation |
| | Northglenn | Northglenn Water Treatment Plant |
| Westminster | City of Westminster | |
| Florida | Brooksville | SW Florida Water Management District |
| | Fort Lauderdale | Spectrum Laboratories, Inc. |
| | Ocala | USGS, QWSU |
| | Orlando | Post, Buckley, Schuh, and Jernigan, Inc. |
| | Ormond Beach | Environmental Laboratory |
| | Palatka | St. John's River Management District |
| Tallahassee | City of Tallahassee | |

Table 1.--Laboratory participants in the analyses of standard reference samples distributed in October 1993--Continued

| State | City | Participating Laboratory |
|---------------|---|---|
| Georgia | Atlanta | Georgia Department of Natural Resources |
| | Atlanta | USGS WRD |
| | Decatur | Dekalb County Water Quality Laboratory |
| | Tifton | USDA Agriculture Research Station |
| Hawaii | Honolulu | University of Hawaii - SOEST Analytical Services |
| | | Atomic Spectroscopy Laboratory |
| Idaho | Boise | US Bureau of Reclamation |
| Illinois | Champaign | Illinois Environmental Protection Agency |
| | Champaign | Hazardous Waste Research Center |
| | Chicago | Illinois Environmental Protection Agency |
| Indiana | Indianapolis | Indianapolis Department of Public Works |
| Iowa | Davenport | City of Davenport |
| | Des Moines | University Hygienic Laboratory, Des Moines Branch |
| Kansas | Lawrence | Kansas Geological Survey |
| | Topoka | Kansas Department of Health and Environment |
| Kentucky | Frankfort | Division of Environmental Services |
| | Lexington | Kentucky Geological Survey |
| | Louisville | Metropolitan Sewer District |
| Maine | Orono | Sawyer Environmental Center, University of Maine |
| Maryland | Baltimore | Martel Laboratory Services, Inc. |
| | Baltimore | Maryland Department of Health and Mental Hygiene |
| Massachusetts | Wellesley Hills | Massachusetts Department of Public Works |
| Michigan | Ann Arbor | University of Michigan - Department of Geological Science |
| | Ann Arbor | University of Michigan - School of Natural Resources |
| | Houghton | Michigan Technical University |
| Minnesota | Minneapolis | Braun Intertec Environmental, Inc. |
| | Minneapolis | University of Minnesota, Department of Geology and Geophysics |
| | St. Paul | Metropolitan Waste Control Commission |
| | St. Paul | University of Minnesota, Research Analytical Laboratory |
| Missouri | Columbia | University of Missouri, School of Natural Resources |
| | Jefferson City | Missouri Department of Health |
| Montana | Butte | Montana Bureau of Mines and Geology |
| Nevada | Boulder City | US Bureau of Reclamation |
| | Las Vegas | Clark County Sanitation District |
| | Las Vegas | University of Nevada - Las Vegas |
| | Reno | Desert Research Institute |
| | Reno | Nevada State Health Laboratory |
| | Sutcliffe | Pyramid Lake Fisheries |
| New Mexico | Albuquerque | City of Albuquerque |
| | Gallup | BIA - Navajo Area Office, Natural Resources Laboratory |
| New York | Albany | New York State Department of Health |
| | Brockport | State University of New York - Brockport |
| | Buffalo | Erie County Laboratory |
| | Grahamsville | New York City Department of Environmental Protection |
| | Hempstead | Nassau County Department of Health |
| | Milbrook | Institute of Ecosystem Studies |
| | North Babylon | EcoTest Laboratories, Inc. |
| | Oakdale | Suffolk County Water Authority |
| | Port Washington | New York Test Environmental, Inc. |
| | Rochester | Monroe County |
| Syracuse | Onondaga County Department of Drainage and Sanitation | |
| Valhalla | Department of Environmental Protection | |
| Wantaugh | Cedar Creek Projects Laboratory | |

Table 1.--Laboratory participants in the analyses of standard reference samples distributed in October 1993--Continued

| State | City | Participating Laboratory |
|----------------|----------------|---|
| North Carolina | Charlotte | Mecklenburg County - Department of Environmental Protection |
| | Durham | Duke University |
| | Durham | Department of Water Resources |
| | Greensboro | City of Greensboro |
| North Dakota | Bismarck | North Dakota State Water Commission |
| Ohio | Cincinnati | US EPA |
| | Columbus | City of Columbus |
| | Franklin | Franklin EOS |
| | Medina | Medina County Sanitary Engineer |
| | Tiffin | Heidelberg College |
| | Norman | Oklahoma Geological Survey |
| Oklahoma | Oklahoma City | Oklahoma State Department of Health |
| | Corvallis | US Department of Agriculture |
| Oregon | Tigard | Unified Sewerage Agency |
| | Harrisburg | Pennsylvania Department of Environmental Resources |
| Pennsylvania | Somerset | Geochemical Testing |
| | San Juan | Department of Natural Resources |
| Puerto Rico | San Juan | Department of Natural Resources |
| South Dakota | Brookings | Northern Great Plains Laboratory |
| | Brookings | SDSU - Water Quality Laboratory |
| | Vermillion | South Dakota Geological Survey |
| Tennessee | Chattanooga | Tennessee Valley Authority |
| Texas | Tyler | Analytical Testing Laboratories |
| Utah | Salt Lake City | Utah State Department of Health |
| Vermont | Waterbury | Vermont Agency of Natural Resources |
| Virginia | Culpepper | ESS Laboratories |
| | Manassas | Occoquan Watershed Monitoring Lab |
| | Richmond | Consolidated Laboratory Services |
| | Virginia Beach | Hampton Road Sanitation District |
| Washington | Richland | Battelle - Pacific Northwest |
| West Virginia | Morgantown | University of West Virginia |
| Wisconsin | Green Bay | Green Bay Metro Sewerage District |
| | Madison | State Laboratory of Hygiene |
| | Milwaukee | Milwaukee Metro Sewerage District |
| Wyoming | Laramie | Wyoming Department of Agriculture |

Preparation of Standard Reference Samples

All of the SRS used in this evaluation were prepared by personnel of the USGS in Golden, Colo. and were analyzed for analyte concentrations and physical property values prior to mailing.

Trace constituent sample T-128 was prepared using water collected from the Fall River near Idaho Springs, Colorado. The water was pumped through 2- and 0.1- μ m filters, in series, into a 1300-L polypropylene drum. The water was continuously circulated and passed through a 0.1- μ m filter and ultraviolet sterilizer for 24 hours. Following this circulation, the water was acidified to pH 1.5 with nitric acid and chlorinated to 5-ppm free chlorine with sodium hypochlorite and supplemented with reagent-grade chemicals to achieve selected analyte concentrations. The sample was circulated an additional 24 hours prior to bottling. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μ m filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized. Bottles not mailed for this SRS evaluation are stored until requested for use.

Major constituent sample M-128 was prepared using water collected from the South Platte River near Ft. Lupton, Colorado. The water was pumped through 2- and 0.1- μm filters, in series, into a 1300-L polypropylene drum. The water was chlorinated to 5-ppm free chlorine with sodium hypochlorite, continuously circulated, and passed through a 0.1- μm filter and ultraviolet sterilizer for 72 hours prior to bottling. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μm filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized. Bottles not mailed for this SRS evaluation are stored until requested for use.

Nutrient samples N-40 and N-41 were prepared using water collected from the Fall River near Idaho Springs, Colo. These samples were prepared the week prior to the mailing for this SRS evaluation. The water was pumped through 2- and 0.1- μm filters, in series, into a 600-L polypropylene drum and continuously circulated and passed through a 0.1-mm filter for 48 hours. The desired nutrient concentrations were obtained by adding reagent-grade chemicals. The sample was circulated an additional 24 hours. A number of nonpreserved samples were bottled from this solution. The remaining sample was preserved with mercuric chloride, to a concentration of 50 mg/L, and with sodium chloride, to a concentration of 450 mg/L. The preserved sample was continuously circulated for 24 hours prior to being bottled. The 250-mL polyethylene bottles used were new, amber, acid leached, and deionized-water rinsed. Bottles not mailed for this SRS evaluation are refrigerated at 4 °C until requested for use.

Sample P-21 was prepared in a 400-L polypropylene drum using snow collected at Mt. Evans near Summit Lake in Colorado. The collected snow was allowed to melt: and then it was pumped into the drum through 2- and 0.1- μm filters in series. Desired phosphate and fluoride concentrations were obtained by adding reagent-grade chemicals. Prior to bottling the sample was continuously mixed for 48 hours while being circulated through a 0.1- μm filter and an ultraviolet sterilizer. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μm filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized. Bottles not mailed for this SRS evaluation are stored until requested for use.

Sample Hg-17 was prepared using water collected from the Fall River near Idaho Springs, Colorado. The sample was prepared in a 190-L polypropylene drum. The river water was pumped into this drum through 2- and 0.1- μm filters in series. The water was continuously circulated and passed through a 0.1- μm filter and ultraviolet sterilizer for 72 hours. Nitric acid (5-percent, v/v) and dichromate ion (0.05-percent, w/w) were added to stabilize the sample. The desired mercury concentration was obtained by adding a mercury standard solution. Following an additional 24 hours of circulation, the sample was bottled. The 125-mL glass bottles used were new, acid leached, and deionized-water rinsed with tetrafluoroethylene fluorocarbon resin caps. Bottles not mailed for this SRS evaluation are stored until requested for use.

Sample AMW-3 was prepared using water collected from a leach pond at the Argo Mine, near Idaho Springs, Colorado. The sample was prepared in a 120-L polypropylene drum. The pond water was pumped into this drum through 2- and 0.2- μm filters in series. The water was continuously circulated and passed through a 0.2- μm filter and ultraviolet sterilizer for 72 hours and then was bottled. The 125-mL bottles used were acid leached and deionized-water rinsed with tetrafluoroethylene fluorocarbon resin caps. Bottles not mailed for this SRS evaluation are stored until requested for use.

Sample WW-1 was prepared using SRS T-123 and sediment from SRS Sed-4. The sample was prepared by adding 250-mL (250.0 grams at 20 °C) of T-123 to 300.0 μg of Sed-4. The 250-mL

polypropylene bottles used were acid leached, deionized water rinsed, and autoclaved sterilized. Bottles not mailed for this SRS evaluation are stored until requested for use.

LABORATORY ANALYSES

The participating laboratories were asked to determine analytes which are summarized in table 2. The number of analytes varied from 26 in T-127 (trace constituents) to 1 in Hg-17 (mercury).

Table 2.--Analytes determined in standard reference samples distributed in April 1993

| [mg/L, milligrams per liter; μ g/L, micrograms per liter; μ S/cm, microsiemens per centimeter at 25 degrees Celsius] | | | | | | | | |
|--|---------------------------------|------------|-------|---------|------|-------|-------|------|
| Analyte or property | Units | T-127 | M-128 | N-40,41 | P-21 | Hg-17 | AMW-3 | WW-1 |
| Acidity | Acidity as CaCO ₃ | mg/L | | | X | | | |
| Alk | Alkalinity as CaCO ₃ | mg/L | | X | | | | |
| Ag | Silver | μ g/L | X | | | | X | X |
| Al | Aluminum | μ g/L | X | | | | X | X |
| As | Arsenic | μ g/L | X | | | | X | X |
| B | Boron | μ g/L | X | X | | | X | X |
| Ba | Barium | μ g/L | X | | | | X | X |
| Be | Beryllium | μ g/L | X | | | | X | X |
| Ca | Calcium | mg/L | X | X | X | | X | X |
| Cd | Cadmium | μ g/L | X | | | | X | X |
| Cl | Chloride | mg/L | | X | X | | | |
| Co | Cobalt | μ g/L | X | | | | X | X |
| Cr | Chromium, total | μ g/L | X | | | | X | X |
| Cu | Copper | μ g/L | X | | | | X | X |
| DSRD | Dissolved solids | mg/L | | X | | | | |
| F | Fluoride | mg/L | | X | X | | | |
| Fe | Iron | μ g/L | X | | | | X | X |
| Hg | Mercury | μ g/L | | | | X | | |
| K | Potassium | mg/L | X | X | X | | X | X |
| Li | Lithium | μ g/L | X | | | | X | X |
| Mg | Magnesium | mg/L | X | X | X | | X | X |
| Mn | Manganese | μ g/L | X | | | | X | X |
| Mo | Molybdenum | μ g/L | X | | | | X | X |
| Na | Sodium | mg/L | X | X | X | | X | X |
| NH ₃ as N | Ammonia | mg/L | | | X | | | |
| NH ₃ +Org N as N | Ammonia + Organic N | mg/L | | | X | | | |
| Ni | Nickel | μ g/L | X | | | | X | X |
| NO ₃ +NO ₂ as N | Nitrate + Nitrite | mg/L | | X | X | | | |
| Pb | Lead | μ g/L | X | | | | X | X |
| pH | | unit | | X | X | | | |
| PO ₄ as P | Orthophosphate | mg/L | | X | X | | | |
| total P as P | Phosphorus | mg/L | | X | X | | | |
| Sb | Antimony | μ g/L | X | | | | X | X |
| Se | Selenium | μ g/L | X | | | | X | X |
| SiO ₂ | Silica | mg/L | X | X | | | X | X |
| SO ₄ | Sulfate | mg/L | | X | X | | | |
| Sp Cond | Specific conductance | μ S/cm | | X | X | | | |
| Sr | Strontium | μ g/L | X | X | | | X | X |
| V | Vanadium | μ g/L | X | X | | | X | X |
| Zn | Zinc | μ g/L | X | | | | X | X |

Laboratories were requested to identify the method used for each analyte according to table 3 analytical method codes.

Table 3.--Analytical-method codes

| Code | Method |
|------|--|
| 0 | Other |
| 1 | Atomic absorption: direct, air |
| 2 | Atomic absorption: direct, nitrous oxide |
| 3 | Atomic absorption: graphite furnace |
| 4 | Inductively coupled argon plasma |
| 5 | Direct current plasma |
| 6 | Inductively coupled argon plasma/Mass spectrometry |
| 7 | Ion chromatography |
| 8 | Atomic absorption: cold vapor |
| 10 | Atomic absorption: extraction [<i>specify chelating agents</i>] |
| 11 | Atomic absorption: hydride [<i>specify reducing agent</i>] |
| 12 | Flame emission |
| 20 | Titration: colorimetric [<i>specify color reagent</i>] |
| 22 | Colorimetric: [<i>specify reducing or oxidizing agent/color reagent</i>] |
| 40 | Selective ion electrode |
| 41 | Electrometric [<i>pH and Specific Conductance</i>] |
| 50 | Gravimetric: [<i>specify filtration, evaporation, and so forth</i>] |
| 51 | Turbidimetric |

Participating laboratories were also asked to use the references listed below to further define the methods.

1. American Public Health Association and others, 1989, Standard methods for the examination of water and wastewater 17th ed: Washington, D.C., American Public Health Association, 1527p.
2. American Society for Testing and Materials, Annual book of ASTM standards: Philadelphia, v. 11.01, and v. 11.02.
3. Kopp, J.F., and McKee, G.F., 1979, Methods for chemical analysis of water and wastes: Cincinnati, U.S. Environmental Protection Agency, EPA 600/4-79-020, rev. 1983, 460 p.
4. Fishman, M.J., and Friedman, L.C., eds., 1989. Methods for determination of inorganic substances in water and fluvial sediments (3d ed.): U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1, 545 p.
5. Miscellaneous manufacturer's instrument manuals or references.

LABORATORY PERFORMANCE RATINGS

To facilitate interlaboratory performance comparisons, laboratory performance ratings, based on the analyses reported for each SRS, are included in tables 4 through 12 in this report. Averages of the analyte ratings and the number of analyte values reported for each SRS are given for each participating laboratory. Laboratory performance for each analyte is rated on a scale 4 to 0, based on the absolute Z-value, as listed below:

| <u>Rating</u> | <u>Absolute Z-value</u> |
|------------------|-------------------------|
| 4 (Excellent) | 0.00 to 0.50 |
| 3 (Good) | 0.51 to 1.00 |
| 2 (Satisfactory) | 1.01 to 1.50 |
| 1 (Questionable) | 1.51 to 2.00 |
| 0 (Poor) | Greater than 2.00 |

Overall laboratory performance ratings greater than 2.4 are considered satisfactory. Overall laboratory performance ratings between 2.0 and 2.39 are considered marginal; those less than 2.0 are considered poor.

STATISTICAL PRESENTATION OF DATA

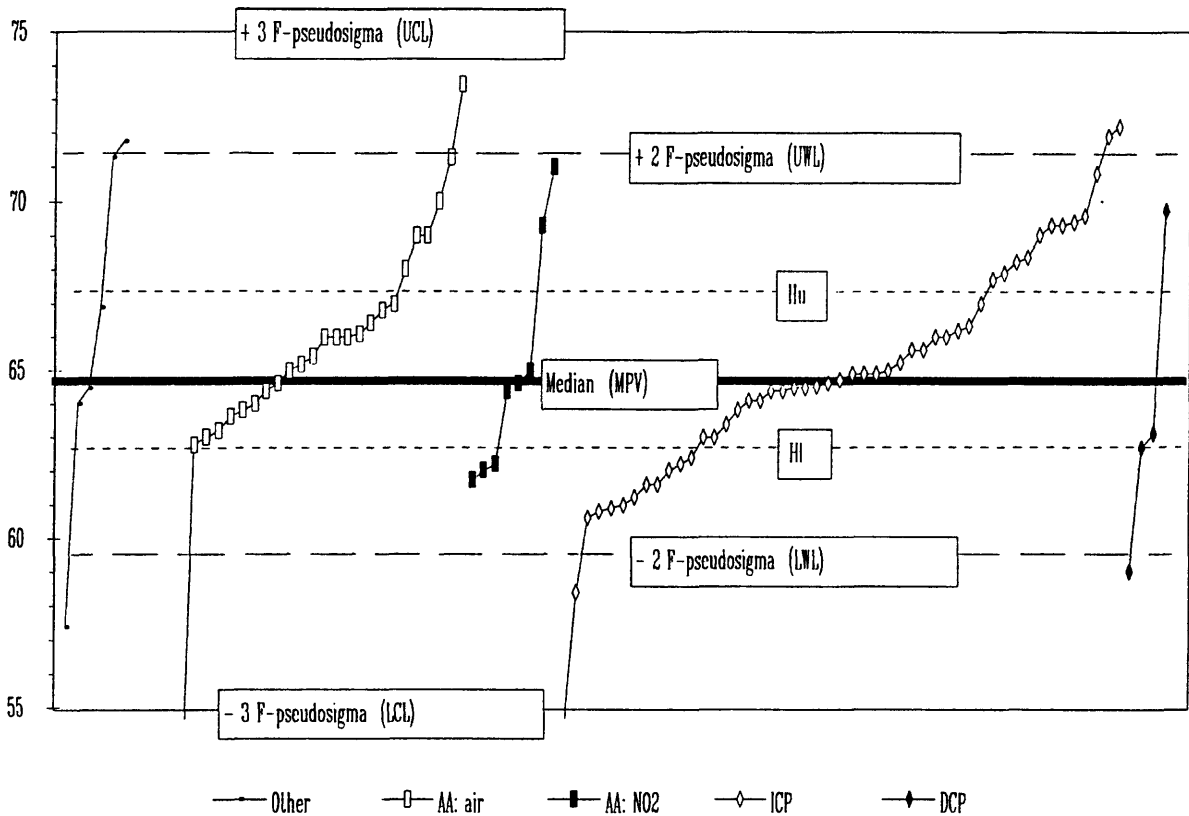
Data in this report have been evaluated using nonparametric statistics as described by Hoaglin and others (1983). This statistical approach is a resistant statistic because the median is not influenced by outliers as is the mean in traditional statistics.

Analytical data for each analyte are presented in tabular and graphical forms in tables 13 through 20. Tabulated data for each analyte include the laboratory code number, reported values, analytical method, most probable value (MPV), number of reported values - excluding less than values (N), data range, Z-value, and the F-pseudostandard deviation. (The Z-value is equivalent to the Z-score of traditional statistics, being the number of deviations the reported value is from the MPV. The F-pseudostandard deviation is equivalent to the standard deviation (σ) of traditional statistics when the data has a Gaussian distribution.) If an analyte has a sufficient number of determinations by a given method, usually 7, the σ for that analytical method is reported in the block of data listed for each analyte.

The median value is considered the MPV. Reported values of "less than" are used to establish the median, but are not considered in determining the data range. The median (midpoint) divides the ordered data into halves and is designated the MPV. The hinges include the middle 50-percent of the data and are the mid-values of the upper and lower halves of the data. (The hinges are similar to quartiles, but are not mathematically equivalent.) The range of data between the upper hinge (H_u) and the lower hinge (H_l), the hinge spread (H-spr), is used to calculate the F-pseudostandard deviation, the 95-percent confidence level MPV, the laboratory performance rating, the upper warning level (UWL) and lower warning level (LWL), the upper control level (UCL) and the lower control level (LCL). The F-pseudostandard deviation is calculated by comparison of the H-spr value to the Gaussian distribution relation; 67.45 percent of the data "hinges" between plus and minus 1σ , resulting in a H-spr of $2 \times 0.6745 = 1.349\sigma$. This relation allows the calculation of the F-pseudostandard deviation = $(H-spr)/1.349$. The 95-percent confidence level MPV is expressed as the median $\pm (1.96 \times F-pseudostandard deviation)/\sqrt{N}$. Laboratories reporting "less than" values are not performance rated unless their reported "less than" values are greater than two Z-values from the MPV.

The graphical plot of the reported data is shown in figure 1. The upper and lower boundaries of the graphical plots generally are $+3$ and -3 F-pseudostandard deviation deviations from the median. (Computer-

program scaling constraints do not permit these boundaries to always be graphed at exactly these values.) The graphical plot is a box plot/control chart with reported values grouped by analytical method in ascending order of value. Lines designate the MPV, Hu, Hl, and the (UWL) and (LWL) at +2 and -2 F-pseudostigma, respectively. "Less than" values are not plotted.



NOTE: vertical scale is the concentration value of the individual analyte in appropriate units (see table 2.) Methods shown are defined in Tables 3 and 13 through 20.

Figure 1.--Statistical parameters shown on reported-data graphs

DISCUSSION

Users need to review the tabulated and graphical plots for individual analytes because these tables and plots give indications of the method and instrumentation precision, and help provide additional evidence as to the desirability of upgrading methods or equipment or both.

REFERENCE

Hoaglin, D.C., Mosteller, F., and Tukey, J.W., eds., 1983, *Understanding Robust and Exploratory Data Analysis*: John Wiley and Sons, Inc., 447p.

Table 4. --Overall laboratory performance ratings for standard reference water samples distributed in October 1993

[Lab, laboratory number; OWR, overall weighted rating for all sample types; OLR, overall laboratory rating for reported values of a sample type; V/124, number of reported values of 99 total possible values from all sample types; V/26, V/16, V/10, V/10, V/11, V/1, V/24, and V/26 are number of reported values possible for T-127, M-128, N-40, N-41, P-21, Hg-17, AMW-3, and VVW-1 respectively]

| Standard reference sample = | | T-127 | | M-128 | | N-40 | | N-41 | | P-21 | | Hg-17 | | AMW-3 | | VVW-1 | | |
|-----------------------------|-----|-------|-----|-------|-----|------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|------|
| Lab | OWR | V/124 | OLR | V/26 | OLR | V/16 | OLR | V/10 | OLR | V/10 | OLR | V/11 | OLR | V/1 | OLR | V/24 | OLR | V/26 |
| 1 | 3.5 | 113 | 3.6 | 26 | 3.3 | 16 | 3.8 | 5 | 4.0 | 5 | 3.1 | 11 | 4.0 | 1 | 3.3 | 23 | 3.7 | 26 |
| 2 | 3.7 | 3 | | | | | | | | | 3.7 | 3 | | | | | | |
| 3 | 2.8 | 107 | 2.6 | 24 | 2.5 | 15 | 2.3 | 4 | 2.0 | 5 | 2.8 | 11 | 0.0 | 1 | 3.5 | 23 | 2.9 | 24 |
| 4 | 2.3 | 36 | 2.4 | 14 | 3.3 | 6 | | | | | | | | | 1.7 | 16 | | |
| 5 | 2.2 | 71 | 3.7 | 20 | 2.4 | 14 | 3.5 | 4 | 1.8 | 4 | 1.8 | 6 | | | | | 0.6 | 23 |
| 7 | 3.0 | 85 | 3.1 | 23 | 2.5 | 12 | 3.5 | 2 | 3.3 | 3 | 2.7 | 3 | 3.0 | 1 | 2.7 | 18 | 3.3 | 23 |
| 8 | 2.6 | 89 | 2.3 | 23 | 2.3 | 15 | | | | | 3.4 | 7 | 2.0 | 1 | 2.8 | 21 | 2.8 | 22 |
| 9 | 2.6 | 29 | 3.1 | 10 | 3.0 | 9 | 1.8 | 5 | 1.8 | 5 | | | | | | | | |
| 10 | 3.8 | 22 | | | 3.8 | 12 | 3.6 | 5 | 3.8 | 5 | | | | | | | | |
| 11 | 2.7 | 83 | 2.2 | 17 | 2.8 | 15 | 3.2 | 5 | 2.1 | 10 | | | 2.0 | 1 | 2.8 | 18 | 3.4 | 17 |
| 12 | 3.0 | 28 | 2.4 | 10 | 3.2 | 11 | 4.0 | 1 | 3.2 | 5 | | | 4.0 | 1 | | | | |
| 13 | 2.8 | 38 | 2.4 | 14 | 3.1 | 13 | 2.8 | 5 | 3.0 | 5 | | | 4.0 | 1 | | | | |
| 15 | 2.8 | 111 | 3.3 | 22 | 2.5 | 16 | 2.9 | 8 | 2.8 | 10 | 2.3 | 10 | 3.0 | 1 | 2.8 | 21 | 2.6 | 23 |
| 16 | 1.7 | 38 | 1.7 | 19 | 2.0 | 13 | 1.0 | 2 | 2.0 | 3 | | | 0.0 | 1 | | | | |
| 18 | 3.3 | 90 | 3.3 | 22 | 3.5 | 15 | 3.2 | 5 | 3.6 | 5 | | | 3.0 | 1 | 3.2 | 20 | 3.3 | 22 |
| 19 | 3.6 | 26 | 3.5 | 8 | 3.8 | 11 | 3.3 | 3 | 3.3 | 4 | | | | | | | | |
| 21 | 2.9 | 16 | 4.0 | 1 | 2.8 | 9 | 3.0 | 6 | | | | | | | | | | |
| 22 | 3.5 | 2 | | | | | 4.0 | 1 | 3.0 | 1 | | | | | | | | |
| 23 | 2.7 | 66 | 2.5 | 23 | 3.5 | 13 | 4.0 | 4 | 3.5 | 4 | 2.3 | 9 | | | | | 1.8 | 13 |
| 24 | 2.4 | 40 | 2.8 | 24 | 1.5 | 15 | | | | | | | 2.0 | 1 | | | | |
| 25 | 2.7 | 55 | 2.2 | 19 | 2.8 | 11 | 2.0 | 3 | 2.3 | 4 | | | | | | | 3.4 | 18 |
| 26 | 2.9 | 13 | | | | | 0.0 | 1 | 3.7 | 3 | 3.0 | 9 | | | | | | |
| 27 | 1.9 | 10 | 1.0 | 6 | 3.3 | 4 | | | | | | | | | | | | |
| 29 | 2.1 | 33 | 1.8 | 12 | 2.9 | 12 | 1.0 | 4 | 2.5 | 4 | | | 0.0 | 1 | | | | |
| 30 | 2.7 | 25 | 2.6 | 18 | 2.6 | 5 | | | | | | | | | | | 3.5 | 2 |
| 32 | 2.9 | 99 | 3.3 | 25 | 1.5 | 15 | 1.0 | 2 | 2.7 | 3 | 3.0 | 5 | 4.0 | 1 | 2.9 | 23 | 3.6 | 25 |
| 33 | 2.7 | 39 | 2.4 | 11 | 2.3 | 12 | 4.0 | 4 | 2.3 | 3 | 3.3 | 9 | | | | | | |
| 34 | 4.0 | 3 | 4.0 | 2 | | | | | | | | | 4.0 | 1 | | | | |
| 35 | 2.0 | 1 | 2.0 | 1 | | | | | | | | | | | | | | |
| 36 | 2.5 | 89 | | | 2.1 | 14 | 2.1 | 10 | 2.3 | 10 | 2.8 | 11 | 3.0 | 1 | 2.8 | 21 | 2.6 | 22 |
| 37 | 2.7 | 17 | | | | | | | 3.4 | 5 | | | | | 2.4 | 12 | | |
| 38 | 3.2 | 27 | | | 3.0 | 10 | 3.4 | 5 | 3.6 | 5 | 3.0 | 7 | | | | | | |
| 39 | 2.8 | 42 | 3.2 | 22 | 2.8 | 12 | | | | | 1.3 | 7 | 4.0 | 1 | | | | |
| 40 | 3.2 | 14 | | | 3.2 | 14 | | | | | | | | | | | | |
| 42 | 3.2 | 65 | 3.3 | 25 | 2.8 | 13 | 2.3 | 4 | 2.5 | 4 | | | 3.0 | 1 | 3.6 | 18 | | |
| 43 | 3.4 | 19 | 2.7 | 6 | 3.7 | 11 | 4.0 | 1 | 4.0 | 1 | | | | | | | | |
| 44 | 3.0 | 6 | | | | | | | | | 3.0 | 6 | | | | | | |
| 45 | 2.9 | 53 | 3.0 | 22 | 3.0 | 14 | 2.5 | 8 | 2.8 | 8 | | | 3.0 | 1 | | | | |
| 46 | 2.9 | 62 | 3.5 | 17 | 3.2 | 14 | 4.0 | 4 | 3.8 | 5 | 2.9 | 9 | 2.0 | 1 | | | 1.2 | 12 |
| 48 | 2.1 | 92 | 2.4 | 21 | 1.8 | 12 | 1.6 | 5 | 3.4 | 5 | 1.3 | 9 | 3.0 | 1 | 2.1 | 20 | 2.1 | 19 |
| 50 | 3.1 | 27 | 2.9 | 13 | 3.2 | 13 | | | | | | | 4.0 | 1 | | | | |
| 51 | 2.4 | 35 | 2.2 | 17 | 2.5 | 13 | 2.3 | 4 | | | | | 4.0 | 1 | | | | |
| 52 | 3.2 | 100 | 3.1 | 21 | 3.5 | 15 | 2.9 | 7 | 3.9 | 10 | 3.8 | 5 | 4.0 | 1 | 2.8 | 20 | 3.1 | 21 |
| 53 | 3.5 | 4 | | | | | 4.0 | 2 | 3.0 | 2 | | | | | | | | |
| 54 | 3.4 | 15 | 4.0 | 4 | 3.2 | 11 | | | | | | | | | | | | |
| 55 | 2.8 | 43 | 3.0 | 22 | 2.4 | 12 | 2.7 | 3 | 3.0 | 5 | | | 3.0 | 1 | | | | |
| 56 | 2.5 | 13 | | | 2.0 | 9 | 3.8 | 4 | | | | | | | | | | |
| 57 | 1.6 | 36 | 2.0 | 17 | 1.5 | 14 | | | 0.6 | 5 | | | | | | | | |
| 58 | 1.9 | 80 | 1.7 | 19 | 2.0 | 11 | 0.5 | 2 | 1.3 | 4 | 2.8 | 5 | 4.0 | 1 | 1.7 | 19 | 2.2 | 19 |
| 59 | 3.2 | 56 | 3.3 | 14 | | | 4.0 | 3 | 3.8 | 5 | | | 4.0 | 1 | 3.1 | 16 | 2.8 | 17 |
| 60 | 2.0 | 36 | 2.8 | 9 | 2.8 | 6 | 1.6 | 10 | 1.2 | 10 | | | 3.0 | 1 | | | | |
| 61 | 2.1 | 88 | 2.0 | 20 | 2.7 | 15 | | | 0.8 | 5 | 1.8 | 6 | 1.0 | 1 | 2.6 | 19 | 1.7 | 22 |
| 62 | 3.8 | 4 | | | 4.0 | 2 | | | | | 3.5 | 2 | | | | | | |
| 63 | 2.3 | 107 | 1.6 | 22 | 2.3 | 15 | 2.0 | 10 | 2.7 | 10 | 2.2 | 6 | 2.0 | 1 | 2.1 | 20 | 3.0 | 23 |
| 64 | 3.5 | 19 | | | 3.5 | 10 | | | | | 3.6 | 9 | | | | | | |
| 68 | 1.8 | 61 | 1.9 | 21 | 2.6 | 12 | 2.8 | 5 | 1.5 | 2 | | | 4.0 | 1 | | | 1.0 | 20 |
| 69 | 3.2 | 47 | 2.9 | 17 | 3.1 | 11 | 3.0 | 1 | 4.0 | 1 | | | 4.0 | 1 | | | 3.5 | 16 |
| 70 | 2.8 | 41 | 2.9 | 18 | 3.0 | 15 | 1.5 | 2 | 1.6 | 5 | | | 4.0 | 1 | | | | |
| 72 | 2.3 | 29 | 2.4 | 20 | | | 1.5 | 4 | 3.0 | 5 | | | | | | | | |
| 73 | 1.6 | 8 | 1.6 | 8 | | | | | | | | | | | | | | |
| 75 | 3.4 | 39 | 3.7 | 19 | 2.8 | 11 | 4.0 | 4 | 3.0 | 4 | | | 3.0 | 1 | | | | |
| 76 | 3.2 | 22 | 3.4 | 12 | 2.8 | 8 | | | 3.5 | 2 | | | | | | | | |
| 78 | 2.6 | 65 | 3.4 | 22 | 2.6 | 14 | 1.0 | 10 | 2.4 | 10 | 2.6 | 9 | | | | | | |
| 79 | 2.1 | 17 | 2.0 | 11 | 2.0 | 3 | | | 4.0 | 2 | | | 0.0 | 1 | | | | |
| 80 | 2.3 | 12 | 2.2 | 6 | | | 2.3 | 3 | 2.7 | 3 | | | | | | | | |
| 81 | 2.1 | 21 | | | 2.6 | 12 | 1.5 | 4 | 1.6 | 5 | | | | | | | | |
| 83 | 2.8 | 28 | 3.2 | 14 | 2.7 | 9 | 2.0 | 2 | 1.3 | 3 | | | | | | | | |
| 84 | 2.7 | 27 | 3.8 | 4 | 2.7 | 7 | | | 4.0 | 2 | | | | | 2.2 | 14 | | |
| 85 | 3.3 | 59 | 3.4 | 17 | 3.4 | 15 | 3.3 | 4 | 3.4 | 5 | | | | | 3.2 | 18 | | |
| 86 | 2.8 | 30 | 3.1 | 17 | 2.6 | 12 | | | | | | | 0.0 | 1 | | | | |

Table 4. --Overall laboratory performance ratings for standard reference water samples distributed in October 1993
--Continued

| Standard reference sample = | | T-127 | | M-128 | | N-40 | | N-41 | | P-21 | | Hg-17 | | AMW-3 | | WW-1 | | |
|-----------------------------|-----|-------|-----|-------|-----|------|-----|------|-----|------|-----|-------|-----|-------|-----|------|-----|------|
| Lab | OWR | V/124 | OLR | V/26 | OLR | V/16 | OLR | V/10 | OLR | V/10 | OLR | V/11 | OLR | V/1 | OLR | V/24 | OLR | V/26 |
| 87 | 2.6 | 34 | 2.6 | 13 | 2.1 | 11 | 3.3 | 4 | 3.0 | 5 | | | 4.0 | 1 | | | | |
| 88 | 1.3 | 12 | | | | | 0.7 | 6 | 2.0 | 6 | | | | | | | | |
| 89 | 3.0 | 97 | 2.5 | 18 | 3.5 | 13 | 3.8 | 9 | 3.7 | 9 | 2.7 | 11 | 1.0 | 1 | 2.6 | 18 | 3.0 | 18 |
| 90 | 2.6 | 19 | 1.5 | 6 | 3.3 | 3 | 2.8 | 5 | 3.2 | 5 | | | | | | | | |
| 91 | 2.9 | 9 | 3.5 | 2 | | | 2.7 | 3 | 2.8 | 4 | | | | | | | | |
| 93 | 2.2 | 22 | | | 1.7 | 9 | 2.5 | 2 | 1.0 | 2 | 2.9 | 9 | | | | | | |
| 94 | 3.5 | 86 | 3.8 | 22 | 3.5 | 14 | 3.5 | 4 | 3.8 | 4 | | | | | 3.3 | 20 | 3.5 | 22 |
| 96 | 3.3 | 28 | 3.0 | 11 | 3.2 | 6 | 3.8 | 5 | 4.0 | 5 | | | 0.0 | 1 | | | | |
| 97 | 2.5 | 72 | 2.8 | 22 | 2.6 | 13 | 3.0 | 8 | 2.7 | 6 | | | 3.0 | 1 | | | 1.8 | 22 |
| 102 | 1.8 | 59 | 0.6 | 19 | 2.4 | 10 | 2.8 | 4 | 2.6 | 5 | | | | | | | 2.3 | 21 |
| 104 | 3.0 | 8 | 4.0 | 1 | 2.3 | 4 | 4.0 | 1 | 3.5 | 2 | | | | | | | | |
| 105 | 3.4 | 107 | 3.4 | 25 | 3.2 | 15 | 3.0 | 5 | 2.8 | 5 | 3.8 | 8 | 4.0 | 1 | 3.1 | 23 | 3.7 | 25 |
| 107 | 3.0 | 33 | 2.7 | 18 | 3.6 | 7 | 3.5 | 4 | | | 3.0 | 4 | | | | | | |
| 108 | 2.1 | 12 | 2.2 | 6 | | | | | 2.0 | 5 | | | 2.0 | 1 | | | | |
| 109 | 2.6 | 29 | 2.4 | 15 | 2.8 | 13 | | | | | | | 1.0 | 1 | | | | |
| 110 | 1.7 | 7 | | | 0.0 | 4 | | | | | 4.0 | 3 | | | | | | |
| 111 | 2.3 | 13 | 2.5 | 6 | 0.0 | 1 | 3.3 | 3 | 1.7 | 3 | | | | | | | | |
| 112 | 2.5 | 8 | | | | | | | 0.0 | 1 | 2.9 | 7 | | | | | | |
| 114 | 2.1 | 32 | 1.1 | 14 | 2.9 | 12 | 4.0 | 2 | 2.0 | 4 | | | | | | | | |
| 116 | 3.4 | 26 | 3.1 | 9 | 3.9 | 8 | | | | | | | | | 3.2 | 9 | | |
| 117 | 1.5 | 75 | 0.9 | 17 | 2.4 | 8 | 2.2 | 5 | 1.3 | 6 | 1.9 | 7 | 1.0 | 1 | 1.4 | 16 | 1.3 | 15 |
| 118 | 2.8 | 36 | 1.9 | 11 | 2.5 | 4 | 3.0 | 10 | 3.5 | 10 | | | 4.0 | 1 | | | | |
| 119 | 3.5 | 95 | 3.5 | 21 | 3.6 | 14 | 3.8 | 8 | 3.5 | 10 | | | 3.0 | 1 | 3.1 | 20 | 3.7 | 21 |
| 120 | 2.9 | 61 | 2.3 | 19 | 3.0 | 11 | 2.6 | 5 | 3.6 | 5 | | | 3.0 | 1 | | | 3.2 | 20 |
| 121 | 3.4 | 23 | 3.4 | 12 | 3.0 | 6 | 3.8 | 5 | | | | | | | | | | |
| 122 | 2.3 | 20 | 0.5 | 4 | | | 2.9 | 7 | 2.5 | 8 | | | 3.0 | 1 | | | | |
| 126 | 1.0 | 2 | | | 0.0 | 1 | 2.0 | 1 | | | | | | | | | | |
| 127 | 3.5 | 81 | 3.4 | 25 | 3.8 | 15 | 2.7 | 3 | 4.0 | 5 | 3.8 | 9 | 3.0 | 1 | 3.3 | 23 | | |
| 128 | 2.8 | 19 | 2.7 | 13 | 2.7 | 13 | | | 3.2 | 5 | | | 3.0 | 1 | | | | |
| 129 | 2.2 | 44 | 0.9 | 8 | 1.9 | 14 | 3.4 | 5 | 3.1 | 10 | | | | | | | 2.3 | 7 |
| 131 | 2.4 | 32 | 2.6 | 19 | 2.1 | 13 | | | | | | | | | | | | |
| 133 | 1.9 | 27 | 2.2 | 14 | 3.5 | 2 | 1.2 | 5 | 0.4 | 5 | | | 4.0 | 1 | | | | |
| 134 | 3.6 | 67 | 3.5 | 24 | 3.7 | 16 | 3.3 | 9 | 3.7 | 10 | 3.6 | 8 | | | | | | |
| 136 | 2.8 | 27 | 2.0 | 4 | 3.0 | 8 | 3.8 | 5 | 3.6 | 5 | 1.4 | 5 | | | | | | |
| 138 | 3.1 | 54 | 3.3 | 23 | 2.5 | 13 | 3.8 | 5 | 3.2 | 5 | 3.3 | 7 | 4.0 | 1 | | | | |
| 140 | 2.4 | 57 | 2.4 | 13 | 2.8 | 12 | 1.0 | 5 | 2.6 | 5 | 2.7 | 9 | | | | | 2.2 | 13 |
| 141 | 2.8 | 90 | 2.1 | 19 | 2.4 | 15 | 2.7 | 3 | 3.2 | 5 | 2.4 | 8 | 4.0 | 1 | 2.7 | 20 | 3.9 | 19 |
| 142 | 3.0 | 76 | 2.6 | 25 | 3.1 | 16 | 2.0 | 5 | 2.6 | 5 | | | 3.0 | 1 | | | 3.6 | 24 |
| 144 | 2.0 | 17 | 3.3 | 9 | | | | | | | | | 1.0 | 1 | | | 0.4 | 7 |
| 145 | 3.0 | 58 | 2.6 | 16 | 3.1 | 14 | 3.5 | 10 | 2.9 | 10 | 3.0 | 7 | 3.0 | 1 | | | | |
| 146 | 2.4 | 68 | 2.3 | 25 | 1.4 | 13 | 4.0 | 2 | 2.0 | 2 | | | 2.0 | 1 | | | 2.8 | 25 |
| 149 | 1.7 | 26 | 1.8 | 12 | 1.8 | 8 | 0.0 | 2 | 1.7 | 3 | | | 3.0 | 1 | | | | |
| 153 | 1.9 | 14 | 2.8 | 4 | 1.6 | 10 | | | | | | | | | | | | |
| 154 | 2.7 | 45 | 2.6 | 21 | 3.1 | 14 | 3.2 | 5 | 1.4 | 5 | | | | | | | | |
| 158 | 2.4 | 21 | 2.2 | 5 | 3.2 | 6 | | | | | 1.9 | 9 | 3.0 | 1 | | | | |
| 179 | 1.8 | 32 | 2.1 | 15 | 2.5 | 6 | 2.0 | 3 | 0.3 | 7 | | | 2.0 | 1 | | | | |
| 180 | 2.6 | 70 | 2.7 | 23 | 2.6 | 13 | 3.0 | 5 | 3.8 | 5 | | | 3.0 | 1 | | | 2.2 | 23 |
| 182 | 1.1 | 47 | 1.6 | 18 | 1.4 | 13 | 0.3 | 3 | 0.7 | 3 | 0.3 | 9 | 0.0 | 1 | | | | |
| 183 | 2.2 | 30 | 2.1 | 11 | 2.3 | 7 | 2.8 | 4 | 2.0 | 4 | 2.0 | 4 | | | | | | |
| 185 | 3.5 | 11 | 2.7 | 3 | | | | | | | 3.9 | 8 | | | | | | |
| 190 | 2.4 | 32 | 2.5 | 15 | 2.5 | 6 | | | | | 2.0 | 7 | | | | | 2.8 | 4 |
| 191 | 3.2 | 15 | | | 3.1 | 11 | 3.5 | 2 | 3.5 | 2 | | | | | | | | |
| 193 | 2.8 | 20 | 3.0 | 15 | 1.3 | 3 | 4.0 | 1 | 3.0 | 1 | | | | | | | | |
| 194 | 2.8 | 38 | 2.7 | 13 | 3.0 | 7 | | | | | | | 4.0 | 1 | 2.8 | 17 | | |
| 196 | 3.1 | 41 | 3.3 | 22 | 2.1 | 10 | 4.0 | 1 | 3.5 | 2 | 3.8 | 6 | | | | | | |
| 197 | 2.3 | 13 | | | 3.0 | 5 | 1.0 | 1 | 2.3 | 3 | 1.8 | 4 | | | | | | |
| 198 | 3.2 | 30 | 3.4 | 19 | | | 3.6 | 5 | 2.0 | 5 | | | 4.0 | 1 | | | | |
| 200 | 2.5 | 6 | | | 4.0 | 1 | 3.0 | 2 | 1.7 | 3 | | | | | | | | |
| 202 | 3.1 | 72 | 3.3 | 18 | 3.0 | 6 | 2.3 | 4 | 2.8 | 5 | 3.0 | 2 | 4.0 | 1 | 2.9 | 17 | 3.2 | 19 |
| 203 | 2.1 | 31 | 2.4 | 17 | 1.1 | 7 | 3.5 | 4 | | | 1.0 | 3 | | | | | | |
| 204 | 2.9 | 56 | 2.7 | 15 | 2.7 | 11 | 3.2 | 5 | | | 2.7 | 9 | | | | | 3.1 | 16 |
| 205 | 3.5 | 2 | | | | | | | 3.5 | 2 | | | | | | | | |
| 208 | 2.5 | 4 | | | 2.0 | 3 | | | 4.0 | 1 | | | | | | | | |
| 210 | 1.1 | 74 | 0.7 | 20 | 0.9 | 14 | | | | | | | 2.0 | 1 | 1.3 | 19 | 1.5 | 20 |
| 211 | 1.9 | 47 | 2.0 | 25 | 1.5 | 16 | | | 2.6 | 5 | | | 3.0 | 1 | | | | |
| 212 | 2.9 | 76 | 2.8 | 25 | 2.9 | 14 | 3.0 | 2 | 1.8 | 4 | 2.0 | 6 | | | | | 3.6 | 24 |
| 213 | 2.3 | 23 | 2.0 | 10 | 3.3 | 4 | 1.5 | 4 | 2.3 | 4 | | | 4.0 | 1 | | | | |
| 214 | 2.9 | 8 | | | | | 2.9 | 8 | | | | | | | | | | |
| 215 | 2.5 | 6 | | | | | 2.3 | 3 | 2.7 | 3 | | | | | | | | |
| 216 | 0.0 | 4 | 0.0 | 4 | | | | | | | | | | | | | | |
| 217 | 3.0 | 21 | 2.9 | 14 | 3.3 | 7 | | | | | | | | | | | | |
| 218 | 1.7 | 10 | | | 1.7 | 10 | | | | | | | | | | | | |
| 219 | 3.0 | 6 | 3.0 | 2 | 2.7 | 3 | | | | | | | 4.0 | 1 | | | | |
| 220 | 3.1 | 31 | 2.8 | 7 | 3.3 | 7 | 3.1 | 8 | 3.1 | 8 | | | 4.0 | 1 | | | | |
| 221 | 1.8 | 29 | 1.5 | 19 | | | 2.5 | 4 | 2.0 | 5 | | | 3.0 | 1 | | | | |

**Table 5. --Laboratory performance ratings for standard reference water sample T-127
(trace constituents)**

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/26, number of reported values of 26 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | Analyte = Ag (Silver) | | | | Al (Aluminum) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | |
|-----|-----------------------|------|-----------------------|--------|---------------|--------|--------------|--------|-----------|--------|-------------|--------|----------------|--------|
| | OLR | V/26 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | | | MPV = 2.71 μg/L | | 85.0 μg/L | | 4.40 μg/L | | 42.8 μg/L | | 20.6 μg/L | | 14.0 μg/L | |
| | | | F-pseudosigma = 0.489 | | 15.49 | | 0.741 | | 5.93 | | 2.37 | | 1.25 | |
| 1 | 3.6 | 26 | 2.73 | 4 | 79.4 | 4 | 4.40 | 4 | 42.7 | 4 | 19.7 | 4 | 12.8 | 3 |
| 3 | 2.6 | 24 | 2.10 | 2 | 100.0 | 3 | 6.10 | 3 | 47.0 | 3 | 21.0 | 4 | 15.0 | 3 |
| 4 | 2.4 | 14 | | | | | | | 43.0 | 4 | 21.0 | 4 | 14.0 | 4 |
| 5 | 3.7 | 20 | < 4 | NR | 86.1 | 4 | < 80 | NR | 42.0 | 4 | 19.4 | 4 | 13.9 | 4 |
| 7 | 3.1 | 23 | 3.00 | 3 | 85.0 | 4 | 4.40 | 4 | | | 20.5 | 4 | 13.5 | 4 |
| 8 | 2.3 | 23 | < 5 | NR | 64.0 | 2 | 4.00 | 3 | 26.0 | 0 | 21.0 | 4 | 12.0 | 1 |
| 9 | 3.1 | 10 | | | | | | | | | | | | |
| 11 | 2.2 | 17 | | | 101.0 | 2 | | | 45.0 | 4 | 16.0 | 1 | 14.0 | 4 |
| 12 | 2.4 | 10 | 2.40 | 3 | < 100 | NR | < 10 | NR | | | | | < 20 | NR |
| 13 | 2.4 | 14 | 2.10 | 2 | 73.5 | 3 | < 5 | NR | | | 38.7 | 0 | | |
| 15 | 3.3 | 22 | < 10 | NR | 97.7 | 3 | 4.04 | 4 | 45.9 | 3 | 18.8 | 3 | 18.6 | 0 |
| 16 | 1.7 | 19 | < 7 | NR | 179.0 | 0 | < 5 | NR | 305.0 | 0 | 25.0 | 1 | 16.0 | 1 |
| 18 | 3.3 | 22 | < 3.00 | NR | 67.0 | 2 | 4.03 | 4 | 44.0 | 4 | 20.0 | 4 | 14.0 | 4 |
| 19 | 3.5 | 8 | | | | | | | | | | | | |
| 21 | 4.0 | 1 | | | | | | | | | | | | |
| 23 | 2.5 | 23 | 3.74 | 0 | 96.8 | 3 | 4.45 | 4 | | | 23.2 | 2 | 12.6 | 2 |
| 24 | 2.9 | 24 | 3.00 | 3 | 92.0 | 4 | 6.20 | 0 | 41.6 | 4 | 20.6 | 4 | 15.0 | 3 |
| 25 | 2.2 | 19 | < 6 | NR | 34.0 | 0 | < 50 | NR | < 23 | 0 | 18.0 | 2 | 14.4 | 4 |
| 27 | 1.0 | 6 | | | | | 9.65 | 0 | | | | | | |
| 29 | 1.6 | 12 | 2.62 | 4 | 200.0 | 0 | 8.40 | 0 | | | 82.5 | 0 | | |
| 30 | 2.6 | 18 | 2.94 | 4 | 69.7 | 3 | | | | | 20.6 | 4 | 14.9 | 3 |
| 32 | 3.3 | 25 | 2.50 | 4 | 75.6 | 3 | 4.60 | 4 | 33.0 | 1 | 19.7 | 4 | 13.3 | 3 |
| 33 | 2.4 | 11 | | | 94.0 | 3 | | | | | 21.8 | 3 | | |
| 34 | 4.0 | 2 | | | | | 4.49 | 4 | | | | | | |
| 35 | 2.0 | 1 | | | | | 3.60 | 2 | | | | | | |
| 39 | 3.2 | 22 | 2.70 | 4 | 85.0 | 4 | 3.50 | 2 | 48.0 | 3 | 21.7 | 4 | 14.8 | 3 |
| 42 | 3.3 | 25 | 2.65 | 4 | 79.0 | 4 | 4.00 | 3 | 36.0 | 2 | 20.3 | 4 | 13.5 | 4 |
| 43 | 2.7 | 6 | | | | | | | | | | | | |
| 45 | 3.0 | 22 | 2.67 | 4 | 68.5 | 2 | 4.00 | 3 | 31.8 | 1 | 20.4 | 4 | 14.5 | 4 |
| 46 | 3.5 | 17 | 2.40 | 3 | 77.0 | 3 | 4.70 | 4 | 42.8 | 4 | | | 15.2 | 3 |
| 48 | 2.4 | 21 | 2.30 | 3 | 81.2 | 4 | 7.40 | 0 | < 10 | 0 | 20.4 | 4 | 14.3 | 4 |
| 50 | 2.9 | 13 | 3.00 | 3 | 97.0 | 3 | | | | | < 50 | NR | | |
| 51 | 2.2 | 17 | | | 55.0 | 1 | 27.10 | 0 | | | | | | |
| 52 | 3.1 | 21 | 2.69 | 4 | 88.3 | 4 | 5.06 | 3 | < 300 | NR | 28.3 | 0 | 14.0 | 4 |
| 54 | 4.0 | 4 | | | | | | | | | | | | |
| 55 | 3.0 | 22 | 1.90 | 1 | 88.0 | 4 | 5.00 | 3 | | | 26.3 | 0 | 15.8 | 2 |
| 57 | 2.0 | 17 | 2.20 | 2 | < 200 | NR | 4.60 | 4 | 154.0 | 0 | < 50 | NR | 13.0 | 3 |
| 58 | 1.7 | 19 | 8.10 | 0 | 64.6 | 2 | 3.68 | 3 | | | 29.4 | 0 | 22.1 | 0 |
| 59 | 3.3 | 14 | | | < 100 | NR | < 5 | NR | | | 20.0 | 4 | 14.0 | 4 |
| 60 | 2.8 | 9 | 3.20 | 3 | | | 3.10 | 1 | | | | | 16.7 | 0 |
| 61 | 2.0 | 20 | < 5 | NR | 44.0 | 0 | 5.40 | 2 | 31.8 | 1 | 19.3 | 3 | 14.1 | 4 |
| 63 | 1.6 | 22 | 1.90 | 1 | 130.0 | 0 | < 5 | NR | 42.0 | 4 | 24.0 | 2 | 15.0 | 3 |
| 68 | 1.9 | 21 | 0.30 | 0 | 180.0 | 0 | | | 250.0 | 0 | 210.0 | 0 | 16.0 | 1 |
| 69 | 2.9 | 17 | 2.68 | 4 | 110.0 | 1 | 4.60 | 4 | | | 38.0 | 0 | 13.2 | 3 |
| 70 | 2.9 | 18 | 2.30 | 3 | < 100 | NR | 4.00 | 3 | < 50 | NR | 19.6 | 4 | 14.0 | 4 |
| 72 | 2.4 | 20 | 2.20 | 2 | 82.3 | 4 | 4.00 | 3 | | | 20.2 | 4 | 14.0 | 4 |
| 73 | 1.6 | 8 | 5.40 | 0 | | | | | | | | | | |
| 75 | 3.7 | 19 | < 5 | NR | 85.0 | 4 | 4.00 | 3 | | | 20.0 | 4 | 14.0 | 4 |
| 76 | 3.4 | 12 | 2.94 | 4 | | | 4.72 | 4 | | | | | 14.1 | 4 |
| 78 | 3.4 | 22 | 2.60 | 4 | 93.6 | 3 | 4.82 | 3 | | | 22.0 | 3 | 14.9 | 3 |
| 79 | 2.0 | 11 | 2.40 | 3 | | | 8.60 | 0 | | | | | 11.3 | 0 |
| 80 | 2.2 | 6 | | | | | | | | | | | | |
| 83 | 3.2 | 14 | | | 86.9 | 4 | | | | | 19.7 | 4 | 13.5 | 4 |
| 84 | 3.8 | 4 | | | | | | | | | | | | |
| 85 | 3.4 | 17 | < 5 | NR | 88.4 | 4 | 3.80 | 3 | 48.0 | 3 | 20.7 | 4 | 14.4 | 4 |

Table 5. --Laboratory performance ratings for standard reference water sample T-127
(trace constituents)—Continued

| Lab | Analyte = Ag (Silver) | | | | Al (Aluminum) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | |
|-----|-----------------------|----------------|--------|----|----------------|----|----------------|----|----------------|----|----------------|----|----------------|---|
| | MPV = | 2.71 μ g/L | | | 85.0 μ g/L | | 4.40 μ g/L | | 42.8 μ g/L | | 20.6 μ g/L | | 14.0 μ g/L | |
| | F-pseudosigma = | 0.489 | | | 15.49 | | 0.741 | | 5.93 | | 2.37 | | 1.25 | |
| OLR | V/26 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | |
| 86 | 3.1 | 17 | 4.51 | 0 | | | | | | | 18.6 | 3 | 13.3 | 3 |
| 87 | 2.6 | 13 | < 2 | NR | | | 5.00 | 3 | | | < 20 | NR | | |
| 89 | 2.5 | 18 | 2.91 | 4 | 82.0 | 4 | 3.88 | 3 | | | 77.0 | 0 | | |
| 90 | 1.5 | 6 | | | | | | | | | 31.4 | 0 | | |
| 91 | 3.5 | 2 | | | | | | | | | | | | |
| 94 | 3.8 | 22 | < 5 | NR | 78.0 | 4 | 4.32 | 4 | 47.0 | 3 | 20.0 | 4 | 14.0 | 4 |
| 96 | 3.0 | 11 | 2.60 | 4 | | | 4.20 | 4 | | | 31.1 | 0 | | |
| 97 | 2.8 | 22 | 3.06 | 3 | 82.2 | 4 | 4.69 | 4 | | | 23.5 | 2 | 13.1 | 3 |
| 102 | 0.6 | 19 | 1.00 | 0 | 63.0 | 2 | < 5 | NR | | | 15.0 | 0 | 9.0 | 0 |
| 104 | 4.0 | 1 | | | | | | | | | | | | |
| 105 | 3.4 | 25 | 2.70 | 4 | 84.0 | 4 | 3.56 | 2 | | | 20.0 | 4 | 14.0 | 4 |
| 107 | 2.7 | 18 | 2.60 | 4 | 92.0 | 4 | 4.60 | 4 | | | 19.9 | 4 | | |
| 108 | 2.2 | 6 | | | | | | | | | | | | |
| 109 | 2.4 | 15 | | | | | 3.40 | 2 | 0.0 | 0 | | | 9.0 | 0 |
| 111 | 2.5 | 6 | | | | | | | | | | | | |
| 114 | 1.1 | 14 | < 10 | NR | 50.0 | 0 | | | | | | | 20.0 | 0 |
| 116 | 3.1 | 9 | | | | | | | 44.0 | 4 | 7.0 | 0 | | |
| 117 | 0.9 | 17 | 3.14 | 3 | | | 21.00 | 0 | | | 45.0 | 0 | 16.9 | 0 |
| 118 | 1.9 | 11 | 2.80 | 4 | | | 1.42 | 0 | | | | | | |
| 119 | 3.5 | 21 | 2.80 | 4 | 94.0 | 3 | 4.00 | 3 | 44.0 | 4 | 21.0 | 4 | 14.8 | 3 |
| 120 | 2.3 | 19 | 1.90 | 1 | 62.0 | 2 | 4.40 | 4 | | | 14.0 | 0 | 16.7 | 0 |
| 121 | 3.4 | 12 | | | 101.0 | 2 | | | | | 20.0 | 4 | | |
| 122 | 0.5 | 4 | 4.20 | 0 | 142.3 | 0 | | | | | | | | |
| 127 | 3.4 | 25 | 2.78 | 4 | 59.8 | 1 | 3.90 | 3 | 41.4 | 4 | 18.9 | 4 | 14.0 | 4 |
| 129 | 0.9 | 8 | | | | | | | 101.0 | 0 | | | | |
| 131 | 2.6 | 19 | 3.00 | 3 | 10.0 | 0 | | | 190.0 | 0 | 20.0 | 4 | | |
| 133 | 2.2 | 14 | 4.78 | 0 | | | 1.50 | 0 | | | 19.7 | 4 | 13.5 | 4 |
| 134 | 3.5 | 24 | 2.70 | 4 | 91.0 | 4 | 4.60 | 4 | 33.0 | 1 | 21.0 | 4 | | |
| 136 | 2.0 | 4 | | | | | | | | | | | | |
| 138 | 3.3 | 23 | 2.99 | 3 | 87.6 | 4 | 3.95 | 3 | | | 19.8 | 4 | 15.6 | 2 |
| 140 | 2.4 | 13 | | | | | | | | | | | | |
| 141 | 2.1 | 19 | < 10 | NR | 106.0 | 2 | < 50 | NR | 59.0 | 0 | 21.2 | 4 | 13.9 | 4 |
| 142 | 2.6 | 25 | 2.00 | 2 | 87.1 | 4 | 4.45 | 4 | 54.5 | 1 | 21.7 | 4 | 13.6 | 4 |
| 144 | 3.3 | 9 | 2.20 | 2 | | | 4.10 | 4 | | | | | 13.0 | 3 |
| 145 | 2.6 | 16 | | | < 179 | NR | < 39 | NR | 39.0 | 3 | 20.7 | 4 | 15.7 | 2 |
| 146 | 2.3 | 25 | 4.40 | 0 | 72.3 | 3 | 5.90 | 1 | 41.0 | 4 | 19.4 | 3 | 13.3 | 3 |
| 149 | 1.8 | 12 | 2.00 | 2 | | | 41.00 | 0 | | | | | 11.4 | 0 |
| 153 | 2.6 | 4 | 3.10 | 3 | | | | | | | | | | |
| 154 | 2.6 | 21 | 3.10 | 3 | 142.0 | 0 | 4.20 | 4 | 27.2 | 0 | 20.0 | 4 | 12.8 | 3 |
| 158 | 2.2 | 5 | | | | | | | | | | | | |
| 179 | 2.1 | 15 | < 1 | 0 | | | 5.00 | 3 | | | | | 13.2 | 3 |
| 180 | 2.7 | 23 | 5.20 | 0 | 68.3 | 2 | 25.00 | 0 | 40.9 | 4 | 20.6 | 4 | 14.0 | 4 |
| 182 | 1.6 | 18 | 15.00 | 0 | 25.0 | 0 | 4.00 | 3 | 137.6 | 0 | | | 14.0 | 4 |
| 183 | 2.1 | 11 | 3.20 | 3 | | | | | | | 17.7 | 2 | 16.9 | 0 |
| 185 | 2.7 | 3 | | | | | | | | | | | | |
| 190 | 2.5 | 15 | 2.53 | 4 | | | 3.95 | 3 | | | | | | |
| 193 | 3.0 | 15 | 3.00 | 3 | | | 5.00 | 3 | | | 20.0 | 4 | | |
| 194 | 2.7 | 13 | 3.00 | 3 | < 500 | NR | < 10 | NR | < 100 | NR | < 100 | NR | 14.8 | 3 |
| 196 | 3.3 | 22 | 2.68 | 4 | 81.6 | 4 | 4.68 | 4 | | | 21.0 | 4 | 12.8 | 3 |
| 198 | 3.4 | 19 | 2.71 | 4 | 86.9 | 4 | 4.51 | 4 | | | 20.7 | 4 | 12.7 | 2 |
| 202 | 3.3 | 18 | 2.50 | 4 | 63.0 | 2 | 4.00 | 3 | | | | | 14.5 | 4 |
| 203 | 2.4 | 17 | 3.25 | 2 | 87.0 | 4 | 4.10 | 4 | | | 28.2 | 0 | | |
| 204 | 2.7 | 15 | 2.88 | 4 | 71.3 | 3 | < 5 | NR | | | 23.0 | 2 | | |
| 210 | 0.7 | 20 | 2.35 | 3 | 210.0 | 0 | < 50 | NR | < 100 | NR | < 50 | NR | 26.0 | 0 |
| 211 | 2.0 | 25 | 3.00 | 3 | 76.0 | 3 | 4.00 | 3 | 40.0 | 4 | 40.0 | 0 | 11.0 | 0 |
| 212 | 2.8 | 25 | 6.60 | 0 | 85.0 | 4 | 2.30 | 0 | 40.0 | 4 | 19.9 | 4 | 13.0 | 3 |
| 213 | 2.0 | 10 | < 2 | NR | | | 3.30 | 2 | | | | | 15.5 | 2 |
| 216 | 0.0 | 4 | | | | | | | | | | | | |
| 217 | 2.9 | 14 | 2.40 | 3 | < 100 | NR | 5.60 | 1 | < 100 | NR | 20.0 | 4 | 15.0 | 3 |
| 219 | 3.0 | 2 | | | | | 5.00 | 3 | | | | | | |
| 220 | 2.6 | 7 | | | | | 3.40 | 2 | | | | | | |
| 221 | 1.5 | 19 | 3.41 | 2 | 200.0 | 0 | 5.00 | 3 | | | 35.5 | 0 | | |

**Table 5. --Laboratory performance ratings for standard reference water sample T-127
(trace constituents)--Continued**

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/26, number of reported values of 26 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Ca (Calcium) | | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | |
|-----------------|--------------|--------|--------------|--------|-------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|--------|
| MPV = | 8.80 m g/L | | 8.34 µ g/L | | 11.6 µ g/L | | 11.5 µ g/L | | 42.0 µ g/L | | 135 µ g/L | | 1.07 m g/L | |
| F-pseudogamma = | 0.448 | | 1.227 | | 1.48 | | 1.48 | | 2.97 | | 11.7 | | 0.183 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 8.79 | 4 | 8.56 | 4 | 11.3 | 4 | 10.5 | 3 | 42.7 | 4 | 131 | 4 | 1.19 | 3 |
| 3 | 9.10 | 3 | 9.00 | 3 | 14.0 | 1 | 10.0 | 2 | 50.0 | 0 | 120 | 2 | 0.84 | 2 |
| 4 | 8.80 | 4 | 4.00 | 0 | | | 10000 | 0 | | | 161 | 0 | | |
| 5 | 8.25 | 2 | 8.63 | 4 | 11.3 | 4 | 11.5 | 4 | 43.0 | 4 | 134 | 4 | 1.18 | 3 |
| 7 | 8.85 | 4 | 9.60 | 2 | 11.0 | 4 | 11.3 | 4 | 41.4 | 4 | 135 | 4 | 1.25 | 2 |
| 8 | 8.90 | 4 | 10.00 | 2 | 11.0 | 4 | 9.0 | 1 | 42.0 | 4 | 105 | 0 | 1.10 | 4 |
| 9 | 8.00 | 1 | 8.60 | 4 | | | 10.8 | 4 | 43.0 | 4 | 133 | 4 | 1.00 | 4 |
| 11 | 9.59 | 1 | 8.00 | 4 | 13.0 | 3 | | | 45.0 | 2 | 189 | 0 | 1.00 | 4 |
| 12 | 10.00 | 0 | 8.60 | 4 | | | < 20 | NR | 41.0 | 4 | 130 | 4 | 1.20 | 3 |
| 13 | 8.40 | 3 | 6.50 | 2 | | | 16.1 | 0 | 37.5 | 1 | 138 | 4 | 0.99 | 4 |
| 15 | 8.63 | 4 | < 10 | NR | 11.2 | 4 | 11.4 | 4 | 39.3 | 3 | 129 | 3 | 1.06 | 4 |
| 16 | 8.90 | 4 | 16.00 | 0 | 14.0 | 1 | 18.0 | 0 | 45.0 | 2 | 150 | 2 | 1.80 | 0 |
| 18 | 8.97 | 4 | 1.29 | 0 | 13.0 | 3 | 12.0 | 4 | 44.0 | 3 | 137 | 4 | 0.94 | 3 |
| 19 | 8.78 | 4 | 7.30 | 3 | | | 10.7 | 3 | | | 132 | 4 | 1.21 | 3 |
| 21 | | | | | | | | | | | 137 | 4 | | |
| 23 | 12.30 | 0 | 10.20 | 1 | | | 0.2 | 0 | 37.0 | 1 | 141 | 3 | 0.98 | 3 |
| 24 | 8.86 | 4 | 8.20 | 4 | 12.9 | 3 | 10.5 | 3 | 45.0 | 2 | 132 | 4 | 0.98 | 3 |
| 25 | 9.39 | 2 | 10.00 | 2 | 13.0 | 3 | 12.0 | 4 | 43.0 | 4 | 40 | 0 | 1.86 | 0 |
| 27 | 8.51 | 3 | | | | | | | | | | | 1.27 | 2 |
| 29 | | | 7.50 | 3 | | | 12.8 | 3 | 40.0 | 3 | | | | |
| 30 | | | 10.70 | 1 | 10.4 | 3 | 9.9 | 2 | 44.9 | 3 | 12 | 0 | | |
| 32 | 8.51 | 3 | 8.30 | 4 | 11.2 | 4 | 11.1 | 4 | 44.6 | 3 | 174 | 0 | 1.06 | 4 |
| 33 | 9.07 | 3 | | | | | | | | | 126 | 3 | 1.22 | 3 |
| 34 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| 39 | 9.52 | 1 | 8.80 | 4 | 11.3 | 4 | 12.0 | 4 | 45.0 | 2 | 142 | 3 | < 1 | NR |
| 42 | 9.10 | 3 | 8.05 | 4 | 11.1 | 4 | 11.4 | 4 | 42.4 | 4 | 142 | 3 | 1.25 | 2 |
| 43 | 9.00 | 4 | | | | | | | | | 135 | 4 | 1.10 | 4 |
| 45 | 8.43 | 3 | 8.47 | 4 | | | 12.0 | 4 | 39.7 | 3 | 128 | 3 | 1.26 | 2 |
| 46 | 9.10 | 3 | 8.15 | 4 | | | 10.6 | 3 | 40.4 | 3 | 130 | 4 | 1.03 | 4 |
| 48 | 9.30 | 2 | 8.00 | 4 | < 50 | NR | 9.8 | 2 | 50.0 | 0 | 160 | 0 | 1.16 | 3 |
| 50 | | | 10.00 | 2 | 15.0 | 0 | 15.0 | 0 | 43.0 | 4 | 139 | 4 | | |
| 51 | 8.15 | 2 | 12.10 | 0 | 12.4 | 3 | 12.9 | 3 | 44.0 | 3 | 170 | 0 | 1.16 | 3 |
| 52 | 8.71 | 4 | 7.89 | 4 | 10.9 | 4 | 11.5 | 4 | 43.6 | 3 | 127 | 3 | 0.97 | 3 |
| 54 | 8.80 | 4 | | | | | | | | | | | 1.00 | 4 |
| 55 | 8.59 | 4 | 8.90 | 4 | 9.8 | 2 | 10.4 | 3 | 41.2 | 4 | 155 | 1 | 1.04 | 4 |
| 57 | 9.00 | 4 | 9.40 | 3 | < 40 | NR | 11.0 | 4 | 50.0 | 0 | 180 | 0 | 1.44 | 0 |
| 58 | 7.76 | 0 | 10.10 | 2 | 11.7 | 4 | 12.9 | 3 | 41.0 | 4 | 123 | 2 | 1.25 | 2 |
| 59 | 8.30 | 2 | 8.00 | 4 | | | 11.0 | 4 | 45.0 | 2 | 137 | 4 | 1.10 | 4 |
| 60 | | | 8.50 | 4 | | | 12.3 | 3 | 43.7 | 3 | | | | |
| 61 | 8.97 | 4 | 12.40 | 0 | 10.0 | 2 | 6.6 | 0 | 46.4 | 2 | 140 | 4 | 0.09 | 0 |
| 63 | 9.85 | 0 | 6.90 | 2 | 20.0 | 0 | 11.0 | 4 | 39.0 | 2 | 157 | 1 | 1.40 | 1 |
| 68 | 9.00 | 4 | 5.50 | 0 | 13.0 | 3 | 12.0 | 4 | 50.0 | 0 | 140 | 4 | 0.79 | 1 |
| 69 | 8.20 | 2 | 7.98 | 4 | | | 12.1 | 4 | 42.0 | 4 | 135 | 4 | 1.20 | 3 |
| 70 | 9.12 | 3 | 6.60 | 2 | < 50 | NR | 12.5 | 3 | 42.4 | 4 | 99 | 0 | 1.50 | 0 |
| 72 | 12.80 | 0 | 8.10 | 4 | 4.6 | 0 | 10.7 | 3 | 39.4 | 3 | 113 | 1 | 1.23 | 3 |
| 73 | | | 8.10 | 4 | | | | | 50.0 | 0 | 143 | 3 | | |
| 75 | 8.90 | 4 | 8.50 | 4 | 12.0 | 4 | 12.0 | 4 | 42.0 | 4 | 135 | 4 | 1.40 | 1 |
| 76 | 9.16 | 3 | 7.83 | 4 | | | 10.8 | 4 | 37.9 | 2 | 122 | 2 | 1.18 | 3 |
| 78 | 8.50 | 3 | 8.20 | 4 | | | 11.6 | 4 | 40.8 | 4 | 125 | 3 | 1.07 | 4 |
| 79 | | | 8.60 | 4 | | | 12.0 | 4 | 39.0 | 2 | | | | |
| 80 | | | 10.00 | 2 | | | | | 39.0 | 2 | 119 | 2 | | |
| 83 | 8.56 | 3 | 8.30 | 4 | | | | | 41.7 | 4 | 134 | 4 | 1.42 | 0 |
| 84 | 8.72 | 4 | | | | | | | | | | | | |
| 85 | 8.74 | 4 | 5.60 | 0 | 13.0 | 3 | < 20 | NR | 43.2 | 4 | 130 | 4 | 1.19 | 3 |

**Table 5. –Laboratory performance ratings for standard reference water sample T-127
(trace constituents)—Continued**

| Analyte = Ca (Calcium) | | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | |
|------------------------|-------|--------------|-------|-------------|------|---------------|-------|-------------|------|-----------|------|---------------|---------|--------|
| MPV = 8.80 m g/L | | 8.34 µ g/L | | 11.6 µ g/L | | 11.5 µ g/L | | 42.0 µ g/L | | 135 µ g/L | | 1.07 m g/L | | |
| F-pseudosigma = 0.448 | | 1.227 | | 1.48 | | 1.48 | | 2.97 | | 11.7 | | 0.163 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 86 | 8.88 | 4 | 7.80 | 4 | 10.6 | 3 | 10.2 | 3 | 39.6 | 3 | 139 | 4 | 1.05 | 4 |
| 87 | 7.50 | 0 | 8.00 | 4 | | | 11.8 | 4 | 42.0 | 4 | 172 | 0 | 0.84 | 3 |
| 89 | 9.23 | 3 | 8.97 | 3 | 29.0 | 0 | 13.7 | 2 | 38.0 | 2 | 112 | 1 | 1.05 | 4 |
| 90 | | | | | | | 11.0 | 4 | | | 153 | 1 | | |
| 91 | | | | | | | | | | | 132 | 4 | | |
| 94 | 8.84 | 4 | 8.30 | 4 | 11.0 | 4 | 11.0 | 4 | 42.0 | 4 | 130 | 4 | 0.99 | 4 |
| 96 | | | 7.90 | 4 | | | 12.2 | 4 | 40.1 | 3 | 142 | 3 | | |
| 97 | 8.28 | 2 | 9.18 | 3 | 11.2 | 4 | 11.6 | 4 | 41.0 | 4 | 145 | 3 | 0.92 | 3 |
| 102 | 8.10 | 1 | 5.00 | 0 | 7.0 | 0 | 15.0 | 0 | 33.0 | 0 | 132 | 4 | 0.65 | 0 |
| 104 | | | | | | | | | | | | | | |
| 105 | 8.60 | 4 | 8.34 | 4 | 13.0 | 3 | 11.5 | 4 | 44.0 | 3 | 130 | 4 | 1.03 | 4 |
| 107 | 8.30 | 2 | 2.06 | 0 | | | 12.8 | 3 | 44.0 | 3 | 125 | 3 | 1.28 | 2 |
| 108 | | | 8.10 | 4 | | | 10.0 | 2 | 40.0 | 3 | | | | |
| 109 | 9.18 | 3 | | | | | | | | | 133 | 4 | 1.29 | 2 |
| 111 | | | 8.40 | 4 | | | 11.4 | 4 | 35.7 | 0 | | | | |
| 114 | 10.00 | 0 | 10.00 | 2 | | | 20.0 | 0 | 40.0 | 3 | 140 | 4 | 7.00 | 0 |
| 116 | 9.45 | 2 | | | | | | | | | | | | |
| 117 | 7.64 | 0 | 11.50 | 0 | | | 8.0 | 0 | 96.5 | 0 | 131 | 4 | 0.93 | 3 |
| 118 | | | 9.84 | 2 | | | 5.7 | 0 | 42.4 | 4 | | | | |
| 119 | 8.64 | 4 | 8.70 | 4 | | | 11.9 | 4 | 43.0 | 4 | 132 | 4 | 1.17 | 3 |
| 120 | 18.12 | 0 | 7.70 | 3 | | | 10.7 | 3 | 38.5 | 2 | 177 | 0 | 1.01 | 4 |
| 121 | 8.80 | 4 | 10.00 | 2 | 11.0 | 4 | | | 42.0 | 4 | 140 | 4 | | |
| 122 | | | | | | | | | | | | | | |
| 127 | 8.70 | 4 | 7.62 | 3 | 11.4 | 4 | 11.5 | 4 | 43.9 | 3 | 133 | 4 | 0.17 | 0 |
| 129 | 8.00 | 1 | | | | | | | | | 180 | 0 | 1.50 | 0 |
| 131 | 9.60 | 1 | 6.00 | 1 | 12.0 | 4 | 11.0 | 4 | 48.0 | 1 | 138 | 4 | 1.00 | 4 |
| 133 | 8.15 | 2 | 10.20 | 1 | | | 10.0 | 2 | 32.8 | 0 | 127 | 3 | | |
| 134 | 8.59 | 4 | 9.50 | 3 | 12.8 | 3 | 12.5 | 3 | 42.7 | 4 | 128 | 3 | 1.00 | 4 |
| 136 | 8.08 | 1 | | | | | | | | | 145 | 3 | | |
| 138 | 9.38 | 2 | 8.26 | 4 | 11.8 | 4 | 11.0 | 4 | 44.6 | 3 | 142 | 3 | 1.02 | 4 |
| 140 | 8.60 | 4 | 6.00 | 1 | | | 14.0 | 1 | 48.0 | 1 | 120 | 2 | 0.90 | 2 |
| 141 | 9.32 | 2 | 9.60 | 2 | 11.0 | 4 | 13.0 | 2 | 45.7 | 2 | 152 | 2 | 1.00 | 4 |
| 142 | 9.44 | 2 | 8.20 | 4 | | | 10.0 | 2 | 40.0 | 3 | 137 | 4 | 0.96 | 3 |
| 144 | | | 8.20 | 4 | | | 10.5 | 3 | 40.8 | 4 | | | | |
| 145 | 9.40 | 2 | 9.70 | 2 | 14.3 | 1 | < 14 | NR | 46.7 | 1 | 117 | 1 | 1.04 | 4 |
| 146 | 7.97 | 1 | 9.50 | 3 | 10.5 | 3 | 12.1 | 4 | 39.7 | 3 | 127 | 3 | < 0.250 | 0 |
| 149 | 6.30 | 0 | | | | | | | 45.0 | 2 | 142 | 3 | 1.00 | 4 |
| 153 | | | | | | | 12.8 | 3 | 43.2 | 4 | 154 | 1 | | |
| 154 | 8.76 | 4 | 8.50 | 4 | 13.0 | 3 | | | 38.0 | 2 | 136 | 4 | 0.70 | 0 |
| 158 | | | 6.60 | 2 | | | 10.1 | 3 | 36.0 | 1 | | | | |
| 179 | 8.05 | 1 | 6.70 | 2 | | | 13.0 | 2 | 39.6 | 3 | 160 | 0 | 1.00 | 4 |
| 180 | 8.83 | 4 | 8.30 | 4 | 10.8 | 3 | 11.0 | 4 | 41.6 | 4 | 132 | 4 | 1.86 | 0 |
| 182 | 8.90 | 4 | | | | | 95.0 | 0 | 25.0 | 0 | 450 | 0 | 0.99 | 4 |
| 183 | | | 10.60 | 1 | | | 8.5 | 1 | 41.6 | 4 | 145 | 3 | | |
| 185 | 8.74 | 4 | | | | | | | | | | | 1.07 | 4 |
| 190 | 9.08 | 3 | 9.04 | 3 | 11.4 | 4 | 10.4 | 3 | 38.4 | 2 | 158 | 1 | 1.33 | 1 |
| 193 | 8.40 | 3 | 8.00 | 4 | 12.0 | 4 | 10.0 | 2 | 41.0 | 4 | 127 | 3 | 1.14 | 4 |
| 194 | 8.80 | 4 | 9.00 | 3 | | | 13.0 | 2 | 41.0 | 4 | 140 | 4 | 1.56 | 0 |
| 196 | 9.19 | 3 | 9.17 | 3 | 12.3 | 3 | 12.7 | 3 | 43.4 | 4 | | | 1.01 | 4 |
| 198 | 8.96 | 4 | 7.76 | 4 | | | 11.0 | 4 | 44.0 | 3 | 136 | 4 | 1.01 | 4 |
| 202 | 8.60 | 4 | 9.60 | 2 | | | 12.0 | 4 | 46.0 | 2 | 132 | 4 | 0.88 | 2 |
| 203 | 9.86 | 0 | 4.90 | 0 | | | 11.9 | 4 | 40.5 | 3 | 125 | 3 | 1.21 | 3 |
| 204 | 8.92 | 4 | 7.13 | 3 | | | 9.7 | 2 | 38.7 | 2 | 129 | 3 | 1.21 | 3 |
| 210 | 8.20 | 2 | 17.00 | 0 | < 50 | NR | 690.0 | 0 | 84.3 | 0 | 2800 | 0 | < 1 | NR |
| 211 | 9.30 | 2 | 10.00 | 2 | 12.0 | 4 | 10.0 | 2 | 36.0 | 1 | 1100 | 0 | 1.12 | 4 |
| 212 | 8.70 | 4 | 8.70 | 4 | 12.7 | 3 | 13.8 | 1 | 44.0 | 3 | 120 | 2 | 1.10 | 4 |
| 213 | | | 8.13 | 4 | 8.0 | 0 | 12.2 | 4 | 40.0 | 3 | 178 | 0 | | |
| 216 | | | 21.30 | 0 | | | 19.2 | 0 | 51.1 | 0 | | | | |
| 217 | 8.80 | 4 | 7.60 | 3 | 10.0 | 2 | 10.0 | 2 | 39.0 | 2 | 140 | 4 | < 5 | NR |
| 219 | | | | | | | | | | | | | | |
| 220 | | | 8.03 | 4 | | | | | 41.0 | 4 | 113 | 1 | | |
| 221 | 5.15 | 0 | 10.60 | 1 | 16.8 | 0 | 18.4 | 0 | 53.3 | 0 | 189 | 0 | 1.20 | 3 |

**Table 5. –Laboratory performance ratings for standard reference water sample T-127
(trace constituents)—Continued**

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/26, number of reported values of 26 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Li (Lithium) | | Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | |
|-----------------|--------------|--------|----------------|--------|----------------|--------|-----------------|--------|-------------|--------|-------------|--------|------------|--------|
| MPV = | 24.0 µ g/L | | 2.00 m g/L | | 5.43 µ g/L | | 1.25 µ g/L | | 65.1 m g/L | | 9.00 µ g/L | | 3.25 µ g/L | |
| F-pseudosigma = | 2.22 | | 0.107 | | 0.741 | | 5.404 | | 1.26 | | 2.632 | | 0.880 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 24.0 | 4 | 2.16 | 2 | 4.8 | 3 | 0.46 | 4 | 71.1 | 0 | 9.40 | 4 | 3.60 | 4 |
| 3 | 20.0 | 1 | 2.11 | 2 | 5.0 | 3 | < 10 | NR | 66.3 | 4 | < 40 | NR | 3.00 | 4 |
| 4 | 23.0 | 4 | 2.00 | 4 | | | 31.00 | 0 | 61.0 | 2 | | | | |
| 5 | 24.5 | 4 | 1.99 | 4 | 5.3 | 4 | < 10 | NR | 66.6 | 3 | 10.89 | 3 | < 30 | NR |
| 7 | 24.0 | 4 | 2.06 | 3 | 5.5 | 4 | < 9 | NR | 66.4 | 4 | < 15 | NR | 7.80 | 0 |
| 8 | 24.0 | 4 | 1.90 | 3 | 4.0 | 1 | < 5 | NR | 68.0 | 2 | 9.00 | 4 | < 30 | NR |
| 9 | | | 2.00 | 4 | | | | | 65.0 | 4 | | | | |
| 11 | | | 2.15 | 2 | 9.0 | 0 | | | 69.0 | 2 | 13.00 | 1 | | |
| 12 | | | 2.10 | 3 | < 20 | NR | | | 71.0 | 0 | < 20 | NR | < 10 | NR |
| 13 | | | 2.12 | 2 | 6.1 | 3 | | | 65.3 | 4 | < 50 | NR | < 5 | NR |
| 15 | 23.7 | 4 | 2.14 | 2 | 5.4 | 4 | < 20 | NR | 65.9 | 4 | 7.57 | 3 | 3.21 | 4 |
| 16 | < 100 | NR | 2.10 | 3 | 10.0 | 0 | < 20 | NR | 67.0 | 3 | < 25 | NR | 2.56 | 3 |
| 18 | | | 1.98 | 4 | 5.0 | 3 | | | 64.5 | 4 | 10.00 | 4 | 5.06 | 1 |
| 19 | | | 2.01 | 4 | 5.0 | 3 | | | 65.6 | 4 | | | | |
| 21 | | | | | | | | | | | | | | |
| 23 | | | 1.96 | 4 | 5.8 | 4 | 1.02 | 4 | 65.9 | 4 | 7.59 | 3 | 2.28 | 2 |
| 24 | 19.2 | 0 | 2.01 | 4 | 5.2 | 4 | | | 66.8 | 3 | 16.10 | 0 | 3.40 | 4 |
| 25 | 25.0 | 4 | 2.16 | 2 | 5.0 | 3 | | | 70.4 | 1 | < 49 | NR | < 71 | NR |
| 27 | | | 1.80 | 1 | | | | | 19.7 | 0 | | | 8.64 | 0 |
| 29 | | | | | 6.0 | 3 | | | | | 25.00 | 0 | 2.25 | 2 |
| 30 | 20.7 | 2 | 1.78 | 1 | 5.4 | 4 | 0.56 | 4 | | | 9.41 | 4 | 3.12 | 4 |
| 32 | 23.1 | 4 | 2.02 | 4 | 5.7 | 4 | < 0.3 | NR | 64.0 | 4 | 9.00 | 4 | 3.30 | 4 |
| 33 | | | 2.14 | 2 | 87.0 | 0 | | | 61.9 | 2 | | | 59.10 | 0 |
| 34 | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |
| 39 | 24.0 | 4 | 2.12 | 2 | 5.6 | 4 | < 5 | NR | 66.3 | 4 | 8.10 | 4 | 7.80 | 0 |
| 42 | 27.0 | 2 | 2.10 | 3 | 4.6 | 2 | | | 66.8 | 3 | 8.60 | 4 | 3.30 | 4 |
| 43 | | | | | 2.0 | 0 | < 10 | NR | | | 66.60 | 0 | | |
| 45 | | | 1.90 | 3 | 4.5 | 2 | 1.55 | 4 | 65.5 | 4 | 7.94 | 4 | 1.53 | 1 |
| 46 | | | 2.10 | 3 | | | | | 67.8 | 3 | | | 3.40 | 4 |
| 48 | | | 2.13 | 2 | 5.4 | 4 | < 10 | NR | 69.8 | 1 | 11.80 | 2 | 3.80 | 4 |
| 50 | < 50 | NR | | | 6.0 | 3 | < 5 | NR | | | 8.00 | 4 | 3.00 | 4 |
| 51 | | | 2.00 | 4 | 10.3 | 0 | | | 62.9 | 3 | 7.60 | 3 | 3.70 | 3 |
| 52 | | | 1.96 | 4 | 4.0 | 1 | < 5 | NR | 63.1 | 3 | 10.30 | 4 | 3.68 | 4 |
| 54 | | | 2.00 | 4 | | | | | 64.5 | 4 | | | | |
| 55 | 22.0 | 3 | 1.99 | 4 | 4.8 | 3 | | | 65.7 | 4 | 8.30 | 4 | 2.60 | 3 |
| 57 | | | 2.00 | 4 | < 20 | NR | < 100 | NR | 61.8 | 2 | < 100 | NR | 4.50 | 2 |
| 58 | | | 1.57 | 0 | | | | | 50.0 | 0 | 8.20 | 4 | 4.75 | 1 |
| 59 | | | 1.90 | 3 | 6.0 | 3 | | | 60.0 | 1 | 7.70 | 4 | < 5 | NR |
| 60 | | | | | | | | | | | | | 3.80 | 3 |
| 61 | | | 2.05 | 4 | 17.0 | 0 | < 10 | NR | 66.4 | 4 | 20.50 | 0 | < 50 | NR |
| 63 | 37.0 | 0 | 2.23 | 0 | < 10 | NR | | | 72.1 | 0 | 9.00 | 4 | 3.00 | 4 |
| 68 | 28.0 | 1 | 2.10 | 3 | 4.0 | 1 | | | 67.0 | 3 | 13.00 | 1 | 2.70 | 3 |
| 69 | 2.0 | 0 | | | | | | | 60.0 | 1 | 9.00 | 4 | 3.40 | 4 |
| 70 | | | 2.04 | 4 | < 10 | NR | < 50 | NR | 66.2 | 4 | < 50 | NR | 2.20 | 2 |
| 72 | | | 2.94 | 0 | 5.7 | 4 | < 1 | NR | 87.8 | 0 | 9.80 | 4 | 20.20 | 0 |
| 73 | | | | | | | | | | | 6.30 | 2 | 12.70 | 0 |
| 75 | 24.0 | 4 | 2.00 | 4 | 5.0 | 3 | < 10 | NR | 64.7 | 4 | 8.60 | 4 | < 40 | NR |
| 76 | | | | | | | | | | | 8.75 | 4 | 2.93 | 4 |
| 78 | | | 2.00 | 4 | 5.6 | 4 | 0.50 | 4 | 66.8 | 3 | 9.60 | 4 | 0.90 | 0 |
| 79 | | | | | 6.9 | 1 | | | | | 8.70 | 4 | 3.30 | 4 |
| 80 | | | | | 5.0 | 3 | | | | | | | 1.00 | 0 |
| 83 | | | 1.95 | 4 | 5.5 | 4 | | | 61.4 | 2 | | | 2.80 | 3 |
| 84 | | | 2.05 | 4 | | | | | 64.7 | 4 | | | 2.78 | 3 |
| 85 | 25.0 | 4 | 2.00 | 4 | < 10 | NR | < 50 | NR | 62.8 | 3 | < 10 | NR | < 50 | NR |

Table 5. --Laboratory performance ratings for standard reference water sample T-127
(trace constituents)--Continued

| Analyte = Li (Lithium) | | | Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | |
|------------------------|------|--------|----------------|--------|----------------|--------|-----------------|--------|-------------|--------|-------------|--------|------------|--------|
| MPV = 24.0 µ g/L | | | 2.00 m g/L | | 5.43 µ g/L | | 1.25 µ g/L | | 65.1 m g/L | | 9.00 µ g/L | | 3.25 µ g/L | |
| F-pseudosigma = 2.22 | | | 0.107 | | 0.741 | | 5.404 | | 1.26 | | 2.632 | | 0.890 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 86 | | | 2.09 | 3 | 4.8 | 3 | | | 65.7 | 4 | 7.23 | 3 | 3.22 | 4 |
| 87 | | | 1.94 | 3 | 5.0 | 3 | < 2 | NR | 63.5 | 3 | < 10 | NR | < 20 | NR |
| 89 | | | 1.89 | 2 | 5.2 | 4 | | | 88.4 | 2 | < 12.5 | NR | 3.35 | 4 |
| 90 | | | | | | | | | | | 185.00 | 0 | 6.90 | 0 |
| 91 | | | | | 5.8 | 3 | | | | | | | | |
| 94 | | | 1.97 | 4 | 5.0 | 3 | < 5 | NR | 65.1 | 4 | 8.60 | 4 | 2.97 | 4 |
| 96 | | | | | 5.7 | 4 | | | | | | | 2.40 | 3 |
| 97 | | | 12.10 | 0 | 5.6 | 4 | < 0.96 | NR | 57.4 | 0 | 8.62 | 4 | 2.65 | 3 |
| 102 | | | 1.90 | 3 | 3.0 | 0 | | | 59.0 | 0 | 5.00 | 1 | < 5 | NR |
| 104 | | | | | | | | | | | | | | |
| 105 | 24.0 | 4 | 1.91 | 3 | 5.0 | 3 | 0.79 | 4 | 58.8 | 0 | 12.00 | 2 | 3.30 | 4 |
| 107 | | | 1.87 | 2 | 7.0 | 0 | | | 62.9 | 3 | 6.10 | 2 | 3.20 | 4 |
| 108 | | | | | | | | | | | 6.00 | 2 | 23.00 | 0 |
| 109 | 24.0 | 4 | 2.00 | 4 | 4.5 | 2 | 0.70 | 4 | 61.8 | 2 | | | 1.30 | 0 |
| 111 | | | | | | | | | | | 9.00 | 4 | 3.70 | 3 |
| 114 | | | 2.00 | 4 | 10.0 | 0 | 50.00 | 0 | 33.0 | 0 | < 10 | NR | 10.00 | 0 |
| 116 | | | 2.00 | 4 | 6.0 | 3 | | | 64.2 | 4 | | | | |
| 117 | | | 1.92 | 3 | 32.0 | 0 | | | 50.5 | 0 | | | 4.00 | 3 |
| 118 | | | | | 8.5 | 0 | | | | | 7.91 | 4 | 4.05 | 3 |
| 119 | | | 2.05 | 4 | 5.4 | 4 | | | 64.3 | 4 | 9.90 | 4 | 2.30 | 2 |
| 120 | | | 2.18 | 1 | 4.7 | 3 | | | 65.1 | 4 | 8.60 | 4 | 2.20 | 2 |
| 121 | | | 2.00 | 4 | | | | | 66.0 | 4 | 12.00 | 2 | | |
| 122 | | | | | | | | | | | | | 4.37 | 2 |
| 127 | 24.3 | 4 | 1.92 | 3 | 4.2 | 1 | < 25 | NR | 63.8 | 4 | 8.95 | 4 | 3.42 | 4 |
| 129 | | | 3.80 | 0 | 10.0 | 0 | | | 65.0 | 4 | | | | |
| 131 | 25.0 | 4 | 2.06 | 3 | 6.0 | 3 | < 3 | NR | 66.0 | 4 | 9.00 | 4 | < 5 | NR |
| 133 | | | 1.86 | 2 | | | | | | | 8.42 | 4 | 2.10 | 2 |
| 134 | 24.0 | 4 | 1.95 | 4 | 5.4 | 4 | | | 64.6 | 4 | 9.50 | 4 | 3.70 | 3 |
| 136 | | | 2.47 | 0 | | | | | | | | | | |
| 138 | | | 2.00 | 4 | 6.9 | 1 | < 2 | NR | 63.2 | 3 | 8.95 | 4 | 3.49 | 4 |
| 140 | | | 2.00 | 4 | 4.0 | 1 | | | 65.0 | 4 | 12.00 | 2 | 2.00 | 2 |
| 141 | | | 2.12 | 2 | 15.6 | 0 | < 10 | NR | 69.6 | 1 | < 10 | NR | < 5 | NR |
| 142 | 28.5 | 1 | 2.21 | 1 | 4.5 | 2 | 1.25 | 4 | 69.3 | 1 | 9.50 | 4 | 2.50 | 3 |
| 144 | | | | | | | | | | | 7.50 | 3 | | |
| 145 | 25.7 | 3 | 2.08 | 3 | 6.0 | 3 | < 11 | NR | 68.6 | 2 | < 22 | NR | < 84 | NR |
| 146 | | | 1.76 | 0 | 5.9 | 3 | 0.60 | 4 | 58.4 | 0 | 9.40 | 4 | 3.30 | 4 |
| 149 | | | 2.20 | 1 | 6.0 | 3 | 2.00 | 4 | 71.4 | 0 | | | | |
| 153 | | | | | | | | | | | | | | |
| 154 | | | 1.58 | 0 | 5.0 | 3 | | | 65.6 | 4 | 9.20 | 4 | 3.40 | 4 |
| 158 | | | | | | | | | | | | | 2.40 | 3 |
| 179 | | | 2.09 | 3 | < 10 | NR | < 10 | NR | 68.0 | 2 | 6.20 | 2 | < 5 | NR |
| 180 | | | 2.11 | 2 | 5.4 | 4 | 3.00 | 4 | 66.6 | 3 | 8.30 | 4 | 14.40 | 0 |
| 182 | 20.0 | 1 | 2.00 | 4 | 4.0 | 1 | 5.00 | 3 | 65.3 | 4 | | | | |
| 183 | | | | | | | 20.40 | 0 | | | 7.36 | 3 | 3.60 | 4 |
| 185 | | | | | | | | | | | | | | |
| 190 | | | 2.22 | 1 | 5.1 | 4 | | | 65.2 | 4 | 10.90 | 3 | 2.10 | 2 |
| 193 | | | 1.98 | 4 | | | | | 60.2 | 1 | < 10 | NR | 2.00 | 2 |
| 194 | | | 1.90 | 3 | < 5 | NR | | | 66.9 | 3 | < 100 | NR | < 5 | NR |
| 196 | 21.8 | 3 | 2.07 | 3 | 6.0 | 3 | 0.72 | 4 | 69.0 | 2 | 10.23 | 4 | 3.28 | 4 |
| 198 | | | 2.04 | 4 | 5.6 | 4 | | | 64.8 | 4 | 16.00 | 0 | 3.00 | 4 |
| 202 | | | 2.01 | 4 | 6.0 | 3 | < 1 | NR | 64.7 | 4 | 8.30 | 4 | 3.10 | 4 |
| 203 | | | 2.01 | 4 | 7.0 | 0 | | | 65.4 | 4 | | | 2.50 | 3 |
| 204 | | | 2.04 | 4 | 5.0 | 3 | | | 63.6 | 3 | | | 1.88 | 1 |
| 210 | 20.0 | 1 | 1.90 | 3 | 270.0 | 0 | 11.00 | 1 | 61.0 | 2 | 260 | 0 | 5.00 | 1 |
| 211 | | | 1.97 | 4 | 5.0 | 3 | 52.00 | 0 | 63.5 | 3 | 34.00 | 0 | 3.00 | 4 |
| 212 | 24.5 | 4 | 1.95 | 4 | 6.8 | 1 | | | 64.8 | 4 | 13.40 | 1 | 2.20 | 2 |
| 213 | | | | | | | | | | | 139.00 | 0 | 2.00 | 2 |
| 216 | | | | | | | | | | | 30.30 | 0 | | |
| 217 | < 50 | NR | 1.90 | 3 | < 10 | NR | < 20 | NR | 62.0 | 2 | < 40 | NR | < 5 | NR |
| 219 | | | | | | | | | | | | | | |
| 220 | | | | | < 10 | NR | | | | | | | 2.70 | 3 |
| 221 | | | 2.10 | 3 | 4.0 | 1 | 1.00 | 4 | 63.1 | 3 | 11.80 | 2 | 4.04 | 3 |

Table 5. --Laboratory performance ratings for standard reference water sample T-127

(trace constituents)--Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reports V/26, number of reported values of 26 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Sb (Antimony) | | Se (Selenium) | | SiO ₂ (Silica) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | | |
|-------------------------|------------|---------------|------------|---------------------------|------------|----------------|------------|--------------|------------|------------|------------|--------|
| MPV = | 5.15 μ g/L | 7.38 μ g/L | 7.38 μ g/L | 9.63 m g/L | 9.63 m g/L | 51.1 μ g/L | 51.1 μ g/L | 10.2 μ g/L | 10.2 μ g/L | 32.9 μ g/L | 32.9 μ g/L | |
| F-pseudosigma = | 1.583 | 1.386 | 1.386 | 0.586 | 0.586 | 2.97 | 2.97 | 1.28 | 1.28 | 3.63 | 3.63 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 5.10 | 4 | 6.40 | 3 | 9.55 | 4 | 49.6 | 4 | 10.1 | 4 | 31.8 | 4 |
| 3 | 7.00 | 2 | 8.80 | 2 | 10.30 | 2 | 52.0 | 4 | 10.0 | 4 | 34.0 | 4 |
| 4 | | | | | 9.59 | 4 | 51.0 | 4 | | | 24.0 | 0 |
| 5 | < 50 | NR | < 50 | NR | 9.76 | 4 | 51.1 | 4 | 11.4 | 3 | 32.7 | 4 |
| 7 | 5.00 | 4 | < 1 | 0 | 10.20 | 3 | 51.5 | 4 | 18.1 | 0 | 35.0 | 3 |
| 8 | 11.00 | 0 | 2.00 | 0 | 9.30 | 3 | 55.0 | 2 | 8.0 | 1 | 35.0 | 3 |
| 9 | | | | | | | 91.0 | 0 | | | 29.0 | 2 |
| 11 | | | | | 10.30 | 2 | 51.0 | 4 | | | 37.0 | 2 |
| 12 | < 100 | NR | 4.00 | 0 | | | | | | | 30.0 | 3 |
| 13 | | | < 5 | NR | 9.33 | 3 | | | | | 31.0 | 3 |
| 15 | | | 7.63 | 4 | 9.20 | 3 | 53.7 | 3 | 11.9 | 2 | 34.5 | 4 |
| 16 | 5.90 | 4 | 7.00 | 4 | | | 59.0 | 0 | < 10 | NR | 34.0 | 4 |
| 18 | 5.30 | 4 | 8.20 | 3 | | | 51.0 | 4 | 10.0 | 4 | 29.0 | 2 |
| 19 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 23 | 4.42 | 4 | 5.72 | 2 | 9.30 | 3 | 56.2 | 1 | 10.1 | 4 | 31.7 | 4 |
| 24 | 8.20 | 1 | | | 10.30 | 2 | 50.7 | 4 | 11.1 | 3 | 31.9 | 4 |
| 25 | < 51 | NR | < 129 | NR | 10.03 | 3 | 54.0 | 3 | 11.0 | 3 | 27.0 | 1 |
| 27 | | | | | | | | | | | | |
| 29 | | | 8.28 | 3 | | | | | | | 22.5 | 0 |
| 30 | 6.79 | 2 | 9.04 | 2 | | | | | | | 38.7 | 1 |
| 32 | 4.90 | 4 | 8.00 | 4 | 9.09 | 3 | 51.1 | 4 | 11.0 | 3 | 51.0 | 0 |
| 33 | | | | | 9.67 | 4 | 49.1 | 3 | | | | |
| 34 | | | 7.38 | 4 | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 39 | 5.50 | 4 | 6.50 | 3 | | | 52.6 | 3 | 9.7 | 4 | | |
| 42 | 5.20 | 4 | 7.10 | 4 | 10.60 | 1 | 53.9 | 3 | 10.0 | 4 | 32.0 | 4 |
| 43 | | | | | 9.90 | 4 | | | | | | |
| 45 | 6.01 | 3 | 6.51 | 3 | 9.43 | 4 | | | | | 42.2 | 0 |
| 46 | | | 7.40 | 4 | | | 51.0 | 4 | | | 33.0 | 4 |
| 48 | 4.60 | 4 | 7.10 | 4 | | | | | 80.0 | 0 | 30.0 | 3 |
| 50 | | | 7.00 | 4 | | | < 100 | NR | 11.0 | 3 | 33.0 | 4 |
| 51 | | | | | 10.02 | 3 | | | 8.8 | 2 | 34.0 | 4 |
| 52 | < 6 | NR | < 5 | NR | 9.07 | 3 | 50.0 | 4 | 6.9 | 0 | 30.7 | 3 |
| 54 | | | | | | | | | | | | |
| 55 | 5.10 | 4 | 6.50 | 3 | 9.59 | 4 | | | | | 30.5 | 3 |
| 57 | 7.00 | 2 | 1.90 | 0 | 9.30 | 3 | | | < 100 | NR | 40.0 | 1 |
| 58 | 13.00 | 0 | | | | | | | 8.9 | 2 | 31.0 | 3 |
| 59 | | | | | | | 50.0 | 4 | | | 30.0 | 3 |
| 60 | 5.50 | 4 | 7.70 | 4 | | | | | | | | |
| 61 | < 50 | NR | 6.80 | 4 | 10.30 | 2 | | | 9.8 | 4 | 45.4 | 0 |
| 63 | < 5 | NR | 5.00 | 1 | 10.70 | 1 | 55.0 | 2 | 16.0 | 0 | 33.0 | 4 |
| 68 | | | | | | | 52.0 | 4 | 10.0 | 4 | 37.0 | 2 |
| 69 | 4.60 | 4 | 8.20 | 3 | | | | | | | | |
| 70 | 4.80 | 4 | 5.82 | 2 | 9.26 | 3 | 51.6 | 4 | < 50 | NR | 32.4 | 4 |
| 72 | 4.70 | 4 | 9.50 | 1 | | | | | | | 30.6 | 3 |
| 73 | | | 15.60 | 0 | | | | | | | 31.1 | 4 |
| 75 | < 50 | NR | 7.00 | 4 | | | | | 9.3 | 3 | 33.0 | 4 |
| 76 | 4.18 | 3 | | | | | | | | | | |
| 78 | 4.20 | 3 | 7.10 | 4 | 9.50 | 4 | | | 10.3 | 4 | 30.6 | 3 |
| 79 | | | 11.90 | 0 | | | | | | | 47.3 | 0 |
| 80 | | | | | | | | | | | 32.0 | 4 |
| 83 | | | | | 8.84 | 2 | | | | | 30.7 | 3 |
| 84 | | | | | | | | | | | | |
| 85 | < 100 | NR | 6.50 | 3 | | | 51.9 | 4 | < 20 | NR | 33.4 | 4 |

Table 5. --Laboratory performance ratings for standard reference water sample T-127
(trace constituents)--Continued

| Analyte = Sb (Antimony) | | Se (Selenium) | | SiO ₂ (Silica) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | | |
|-------------------------|-------|---------------|-------|---------------------------|-------|----------------|------|--------------|------|------------|------|--------|
| MPV = 5.15 μ g/L | | 7.38 μ g/L | | 9.83 m g/L | | 51.1 μ g/L | | 10.2 μ g/L | | 32.9 μ g/L | | |
| F-pseudosigma = 1.583 | | 1.386 | | 0.586 | | 2.97 | | 1.28 | | 3.63 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 86 | 10.00 | 0 | | | | | | | | | 32.3 | 4 |
| 87 | | | 2.00 | 0 | 10.20 | 3 | | | | | 34.0 | 4 |
| 89 | | | <2 | 0 | 9.48 | 4 | | | | | 36.0 | 3 |
| 90 | | | | | | | | | | | 33.0 | 4 |
| 91 | | | | | | | | | | | | |
| 94 | 7.34 | 2 | 7.84 | 4 | | | 50.0 | 4 | 10.0 | 4 | 36.0 | 3 |
| 96 | | | 7.90 | 4 | | | | | | | 46.0 | 0 |
| 97 | 4.72 | 4 | 7.80 | 4 | 9.99 | 3 | 59.6 | 0 | | | 24.0 | 0 |
| 102 | <5 | NR | <5 | NR | 7.60 | 0 | 44.0 | 0 | 6.0 | 0 | 21.0 | 0 |
| 104 | | | | | 9.50 | 4 | | | | | | |
| 105 | 5.08 | 4 | 6.78 | 4 | 9.50 | 4 | 51.0 | 4 | 12.3 | 1 | 36.0 | 3 |
| 107 | | | 9.70 | 1 | 10.10 | 3 | | | | | 34.5 | 4 |
| 108 | | | | | | | | | | | 38.0 | 2 |
| 109 | | | 8.60 | 3 | 8.87 | 2 | 50.4 | 4 | | | | |
| 111 | | | | | | | | | | | 44.8 | 0 |
| 114 | | | | | | | | | | | 30.0 | 3 |
| 116 | | | | | 9.39 | 4 | 49.0 | 3 | | | 32.0 | 4 |
| 117 | 10.50 | 0 | 33.00 | 0 | | | | | | | 25.0 | 0 |
| 118 | | | 2.35 | 0 | 9.81 | 4 | | | | | 41.0 | 0 |
| 119 | 4.90 | 4 | 7.00 | 4 | 9.79 | 4 | | | | | 45.0 | 0 |
| 120 | 5.00 | 4 | 9.40 | 2 | | | | | | | 34.0 | 4 |
| 121 | | | | | 9.80 | 4 | 54.0 | 3 | | | | |
| 122 | | | | | | | | | | | 13.9 | 0 |
| 127 | 5.44 | 4 | 7.90 | 4 | 9.66 | 4 | 50.3 | 4 | 10.2 | 4 | 33.7 | 4 |
| 129 | | | | | 10.30 | 2 | | | | | | |
| 131 | | | | | 18.90 | 0 | 51.0 | 4 | | | 28.0 | 2 |
| 133 | | | 6.40 | 3 | | | | | | | 33.7 | 4 |
| 134 | 5.90 | 4 | 7.50 | 4 | 9.69 | 4 | 47.0 | 2 | 12.0 | 2 | 32.0 | 4 |
| 136 | | | | | 9.60 | 4 | | | | | | |
| 138 | 3.90 | 3 | 6.83 | 4 | 9.56 | 4 | 49.3 | 3 | 11.0 | 3 | 34.4 | 4 |
| 140 | | | | | 10.00 | 3 | | | | | 32.0 | 4 |
| 141 | <20 | NR | 8.30 | 3 | 9.06 | 3 | 66.0 | 0 | 11.0 | 3 | 49.5 | 0 |
| 142 | 3.50 | 2 | 8.50 | 3 | 10.81 | 1 | 55.8 | 1 | 11.5 | 2 | 38.3 | 2 |
| 144 | | | 7.60 | 4 | | | | | | | 31.0 | 3 |
| 145 | | | | | 10.09 | 3 | 51.3 | 4 | <18 | NR | 36.0 | 3 |
| 146 | 7.40 | 2 | 7.70 | 4 | 15.80 | 0 | 46.9 | 2 | 9.7 | 4 | 22.5 | 0 |
| 149 | | | | | | | | | | | 35.0 | 3 |
| 153 | | | | | | | | | | | | |
| 154 | | | 10.10 | 1 | | | 6.9 | 0 | 9.0 | 3 | 32.0 | 4 |
| 158 | | | | | | | | | | | 28.0 | 2 |
| 179 | 5.00 | 4 | 5.70 | 2 | | | | | | | 39.0 | 1 |
| 180 | 23.60 | 0 | 22.10 | 0 | | | | | 10.3 | 4 | 34.3 | 4 |
| 182 | | | | | | | 25.0 | 0 | 5.0 | 0 | 5.0 | 0 |
| 183 | | | | | | | | | | | 27.8 | 2 |
| 185 | | | | | 0.27 | 0 | | | | | | |
| 190 | | | | | | | | | | | 41.0 | 0 |
| 193 | | | 5.00 | 1 | | | | | | | 31.0 | 3 |
| 194 | 6.00 | 3 | 6.00 | 3 | | | <100 | NR | | | <5 | 0 |
| 196 | 4.91 | 4 | 8.34 | 3 | | | 55.0 | 2 | 12.2 | 1 | | |
| 198 | 4.06 | 3 | 5.25 | 1 | | | | | | | 34.5 | 4 |
| 202 | 6.60 | 3 | 6.40 | 3 | | | | | | | 31.0 | 3 |
| 203 | | | 11.00 | 0 | 9.12 | 3 | | | | | 30.3 | 3 |
| 204 | | | 10.80 | 0 | | | | | | | 32.4 | 4 |
| 210 | 10.70 | 0 | 15.00 | 0 | 3.60 | 0 | 60.0 | 0 | <50 | NR | 50.0 | 0 |
| 211 | 5.00 | 4 | 7.00 | 4 | 8.06 | 0 | 70.0 | 0 | 6.0 | 0 | 60.0 | 0 |
| 212 | 3.00 | 2 | 6.10 | 3 | 9.90 | 4 | 49.8 | 4 | 14.3 | 0 | 33.0 | 4 |
| 213 | | | | | | | | | | | 31.0 | 3 |
| 216 | | | | | | | | | | | | |
| 217 | <10 | NR | 8.10 | 3 | | | | | <10 | NR | 33.0 | 4 |
| 219 | | | 8.60 | 3 | | | | | | | | |
| 220 | | | 6.60 | 3 | | | | | | | 26.0 | 1 |
| 221 | | | 4.00 | 0 | | | | | | | 30.0 | 3 |

Table 6. --Laboratory performance ratings for standard reference water sample M-128

(major constituents)

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | Analyte = Alkalinity | | | | B (Boron) | | Ca (Calcium) | | Cl (Chloride) | | DSRD | |
|-----|----------------------|------|-----|--------|-----------|--------|--------------|--------|---------------|--------|------|--------|
| | OLR | V/16 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 3.3 | 16 | 171 | 3 | 297 | 3 | 83.9 | 2 | 93.8 | 1 | 684 | 4 |
| 3 | 2.5 | 15 | 172 | 3 | 274 | 3 | 84.4 | 2 | 96.6 | 3 | 700 | 3 |
| 4 | 3.3 | 6 | | | 298 | 3 | 75.5 | 3 | | | | |
| 5 | 2.4 | 14 | 202 | 0 | 278 | 4 | 76.6 | 3 | 98.7 | 4 | 70 | 0 |
| 7 | 2.5 | 12 | | | | | 79.9 | 4 | 90.7 | 0 | | |
| 8 | 2.3 | 15 | 174 | 1 | 270 | 3 | 81.7 | 3 | 95.0 | 2 | 685 | 4 |
| 9 | 3.0 | 9 | 170 | 4 | | | 76.0 | 3 | | | | |
| 10 | 3.8 | 12 | 171 | 3 | | | 79.2 | 4 | 97.1 | 4 | 682 | 4 |
| 11 | 2.8 | 15 | 174 | 1 | 291 | 4 | 82.4 | 3 | 100.0 | 3 | 678 | 3 |
| 12 | 3.2 | 11 | 168 | 4 | | | 84.0 | 2 | 98.0 | 4 | 718 | 2 |
| 13 | 3.1 | 13 | 169 | 4 | | | 79.5 | 4 | 102.0 | 2 | 683 | 4 |
| 15 | 2.5 | 16 | 180 | 0 | 293 | 4 | 76.4 | 3 | 85.0 | 0 | 665 | 2 |
| 16 | 2.0 | 13 | 223 | 0 | 408 | 0 | 78.0 | 4 | 98.4 | 4 | 68 | 0 |
| 18 | 3.5 | 15 | 172 | 3 | 285 | 4 | 79.3 | 4 | 97.0 | 4 | 680 | 4 |
| 19 | 3.8 | 11 | 170 | 4 | | | 78.5 | 4 | 100.0 | 3 | 676 | 3 |
| 23 | 2.8 | 9 | | | 451 | 0 | | | | | 682 | 4 |
| 24 | 3.5 | 13 | 168 | 4 | 324 | 1 | 77.1 | 4 | 98.1 | 4 | | |
| 25 | 1.5 | 15 | 171 | 3 | 264 | 3 | 84.8 | 1 | 35.6 | 0 | 654 | 1 |
| 26 | 2.8 | 11 | 170 | 4 | | | 82.1 | 3 | 88.0 | 0 | 695 | 4 |
| 27 | 3.3 | 4 | 167 | 4 | | | 76.1 | 3 | | | | |
| 29 | 2.9 | 12 | 169 | 4 | 220 | 0 | 79.3 | 4 | 104.0 | 0 | 694 | 4 |
| 30 | 2.6 | 5 | | | | | 77.3 | 4 | 92.4 | 0 | | |
| 32 | 1.5 | 15 | | | 247 | 1 | 78.8 | 4 | 92.4 | 0 | 604 | 0 |
| 33 | 2.3 | 12 | 170 | 4 | | | 78.7 | 4 | 101.5 | 2 | | |
| 36 | 2.1 | 14 | 170 | 4 | 593 | 0 | 67.5 | 0 | 96.4 | 3 | 699 | 3 |
| 38 | 3.0 | 10 | 168 | 4 | | | 78.8 | 4 | | | 17 | 0 |
| 39 | 2.8 | 12 | | | 283 | 4 | 83.2 | 2 | 104.0 | 0 | 710 | 2 |
| 40 | 3.2 | 14 | 164 | 2 | 262 | 2 | 80.4 | 4 | 100.0 | 3 | 706 | 3 |
| 42 | 2.8 | 13 | 173 | 2 | 317 | 2 | 80.0 | 4 | 98.7 | 4 | | |
| 43 | 3.7 | 11 | 170 | 4 | | | 79.5 | 4 | 100.0 | 3 | 704 | 3 |
| 45 | 3.0 | 14 | 193 | 0 | 273 | 3 | 78.9 | 4 | 99.5 | 3 | 702 | 3 |
| 46 | 3.2 | 14 | 167 | 4 | 284 | 4 | 76.7 | 3 | 100.3 | 3 | 694 | 4 |
| 48 | 1.8 | 12 | 181 | 0 | | | 85.8 | 1 | 97.0 | 4 | 700 | 3 |
| 50 | 3.2 | 13 | 169 | 4 | 320 | 1 | 76.0 | 3 | 95.0 | 2 | 685 | 4 |
| 51 | 2.5 | 13 | 167 | 4 | | | 76.4 | 3 | 108.6 | 0 | 678 | 3 |
| 52 | 3.5 | 15 | 166 | 3 | < 300 | NR | 78.8 | 4 | 98.5 | 4 | 681 | 4 |
| 54 | 3.2 | 11 | 168 | 4 | | | 77.5 | 4 | 48.9 | 0 | 670 | 3 |
| 55 | 2.4 | 12 | 175 | 1 | | | 81.5 | 3 | 91.8 | 0 | 694 | 4 |
| 56 | 2.0 | 9 | 160 | 0 | | | 75.1 | 3 | 91.7 | 0 | | |
| 57 | 1.5 | 14 | 164 | 2 | 390 | 0 | 86.0 | 1 | 11.0 | 0 | 690 | 4 |
| 58 | 2.0 | 11 | 168 | 4 | | | 74.2 | 2 | 96.4 | 3 | | |
| 60 | 2.8 | 6 | 167 | 4 | | | | | 102.0 | 2 | 699 | 3 |
| 61 | 2.7 | 15 | 172 | 3 | 270 | 3 | 78.3 | 4 | 106.0 | 0 | 685 | 4 |
| 62 | 4.0 | 2 | | | | | | | | | | |
| 63 | 2.3 | 15 | 166 | 3 | 297 | 3 | 86.9 | 1 | 97.0 | 4 | 674 | 3 |
| 64 | 3.5 | 10 | | | | | 80.0 | 4 | 99.3 | 4 | | |
| 68 | 2.6 | 12 | 172 | 3 | 550 | 0 | 78.0 | 4 | 86.8 | 0 | | |
| 69 | 3.1 | 11 | 168 | 4 | | | 76.2 | 3 | 99.0 | 4 | 708 | 2 |
| 70 | 3.0 | 15 | 166 | 3 | 287 | 4 | 80.7 | 4 | 98.0 | 4 | 682 | 4 |
| 75 | 2.8 | 11 | 170 | 4 | | | 74.0 | 2 | 100.0 | 3 | 700 | 3 |
| 76 | 2.8 | 8 | 162 | 1 | | | 84.9 | 1 | 97.6 | 4 | 688 | 4 |
| 78 | 2.6 | 14 | 163 | 1 | | | 83.7 | 2 | 98.0 | 4 | 665 | 2 |
| 79 | 2.0 | 3 | 130 | 0 | | | | | | | | |
| 81 | 2.6 | 12 | 162 | 1 | | | 82.5 | 3 | 97.8 | 4 | 692 | 4 |
| 83 | 2.7 | 9 | 170 | 4 | | | 75.1 | 3 | 98.5 | 4 | | |
| 84 | 2.7 | 7 | 162 | 0 | | | 78.8 | 4 | 97.4 | 4 | | |
| 85 | 3.4 | 15 | 170 | 4 | 293 | 4 | 76.0 | 3 | 98.4 | 4 | 687 | 4 |
| 86 | 2.6 | 12 | | | 268 | 3 | 77.8 | 4 | 114.0 | 0 | | |
| 87 | 2.1 | 11 | 17 | 0 | | | 73.0 | 2 | 48.0 | 0 | | |
| 89 | 3.5 | 13 | 170 | 4 | | | 79.0 | 4 | 99.2 | 4 | 729 | 0 |
| 90 | 3.3 | 3 | 168 | 4 | | | 79.0 | 4 | | | 660 | 2 |
| 93 | 1.7 | 9 | | | | | 84.5 | 2 | 99.9 | 3 | | |
| 94 | 3.5 | 14 | 168 | 4 | 288 | 4 | 77.9 | 4 | 97.0 | 4 | 705 | 3 |
| 96 | 3.2 | 6 | 171 | 3 | | | | | 98.8 | 4 | | |
| 97 | 2.6 | 13 | 175 | 1 | | | 65.6 | 0 | 98.4 | 4 | 668 | 2 |

**Table 6. --Laboratory performance ratings for standard reference water sample M-128
(major constituents)--Continued**

| Lab | Analyte = Alkalinity | | | | B (Boron) | | Ca (Calcium) | | Cl (Chloride) | | DSRD | |
|-----|----------------------|------|-----|--------|-----------|--------|--------------|--------|---------------|--------|-----------|--------|
| | MPV = 168 m g/L | | | | 285 μ g/L | | 78.9 m g/L | | 98.2 m g/L | | 689 m g/L | |
| | OLR | V/16 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 102 | 2.4 | 10 | | | | | 74.0 | 2 | 100.0 | 3 | | |
| 104 | 2.3 | 4 | | | | | | | | | | |
| 105 | 3.2 | 15 | 169 | 4 | | | 75.4 | 3 | 98.2 | 4 | 868 | 0 |
| 107 | 3.6 | 7 | 165 | 2 | | | | | 100.0 | 3 | | |
| 109 | 2.8 | 13 | 174 | 1 | 0 | 0 | 78.8 | 4 | 99.0 | 4 | 716 | 2 |
| 110 | 0.0 | 4 | | | | | 0.5 | 0 | | | | |
| 111 | 0.0 | 1 | | | | | | | | | | |
| 114 | 2.9 | 12 | 168 | 4 | | | 80.0 | 4 | 99.1 | 4 | 742 | 0 |
| 116 | 3.9 | 8 | | | 291 | 4 | 82.7 | 3 | 98.9 | 4 | | |
| 117 | 2.4 | 8 | 169 | 4 | | | 83.6 | 2 | 101.8 | 2 | | |
| 118 | 2.5 | 4 | 175 | 1 | | | | | | | | |
| 119 | 3.6 | 14 | 168 | 4 | 300 | 3 | 77.3 | 4 | 96.0 | 3 | 674 | 3 |
| 120 | 3.0 | 11 | 165 | 2 | | | 81.5 | 3 | 96.5 | 3 | 703 | 3 |
| 121 | 3.0 | 6 | | | 280 | 4 | 77.0 | 4 | | | | |
| 126 | 0.0 | 1 | | | | | | | | | | |
| 127 | 3.8 | 15 | 169 | 4 | 297 | 3 | 79.3 | 4 | 97.5 | 4 | 695 | 4 |
| 128 | 2.7 | 13 | 150 | 0 | 238 | 0 | 79.7 | 4 | 100.0 | 3 | | |
| 129 | 1.9 | 14 | 168 | 4 | 283 | 4 | 98.0 | 0 | 91.0 | 0 | 644 | 0 |
| 131 | 2.1 | 13 | | | 700 | 0 | 73.6 | 2 | 98.0 | 4 | 655 | 1 |
| 133 | 3.5 | 2 | | | | | 81.1 | 3 | | | | |
| 134 | 3.7 | 16 | 170 | 4 | 296 | 3 | 80.3 | 4 | 99.4 | 4 | 699 | 3 |
| 136 | 3.0 | 8 | 164 | 1 | | | 77.5 | 4 | | | 704 | 3 |
| 138 | 2.5 | 13 | 172 | 3 | | | 82.9 | 2 | 101.0 | 2 | 653 | 1 |
| 140 | 2.8 | 12 | | | | | 79.0 | 4 | 98.9 | 4 | 653 | 1 |
| 141 | 2.4 | 15 | 165 | 2 | 232 | 0 | 81.7 | 3 | 96.1 | 3 | 694 | 4 |
| 142 | 3.1 | 16 | 170 | 4 | 285 | 4 | 82.7 | 3 | 98.7 | 4 | 694 | 4 |
| 145 | 3.1 | 14 | 160 | 0 | 278 | 4 | 78.9 | 4 | 98.8 | 4 | | |
| 146 | 1.4 | 13 | 166 | 3 | 250 | 1 | 62.7 | 0 | 106.0 | 0 | 673 | 3 |
| 149 | 1.8 | 8 | | | 402 | 0 | 23.0 | 0 | 101.0 | 2 | | |
| 153 | 1.6 | 10 | 163 | 1 | | | 86.0 | 1 | 91.0 | 0 | | |
| 154 | 3.1 | 14 | 170 | 4 | 264 | 3 | 79.4 | 4 | 96.5 | 3 | | |
| 158 | 3.2 | 6 | 165 | 2 | | | | | | | 699 | 3 |
| 179 | 2.5 | 6 | | | | | 72.1 | 1 | 98.0 | 4 | | |
| 180 | 2.6 | 13 | 166 | 3 | 285 | 4 | 76.0 | 3 | 100.0 | 3 | | |
| 182 | 1.4 | 13 | | | 256 | 2 | 72.7 | 1 | 90.0 | 0 | 679 | 3 |
| 183 | 2.3 | 7 | 168 | 4 | | | | | 97.4 | 4 | 700 | 3 |
| 190 | 2.5 | 6 | | | | | | | 98.2 | 4 | 0 | 0 |
| 191 | 3.1 | 11 | 169 | 4 | | | 77.8 | 4 | 100.4 | 3 | | |
| 193 | 1.3 | 3 | | | | | | | 89.2 | 0 | | |
| 194 | 3.0 | 7 | 170 | 4 | | | | | 96.3 | 3 | | |
| 196 | 2.1 | 10 | | | | | 81.7 | 3 | 98.1 | 4 | | |
| 197 | 3.0 | 5 | 171 | 3 | | | | | 99.1 | 4 | | |
| 200 | 4.0 | 1 | | | | | | | | | | |
| 202 | 3.0 | 6 | 172 | 3 | | | | | 99.0 | 4 | 674 | 3 |
| 203 | 1.1 | 7 | 157 | 0 | | | | | 91.2 | 0 | | |
| 204 | 2.7 | 11 | 164 | 2 | | | 78.4 | 4 | 99.3 | 4 | | |
| 208 | 2.0 | 3 | | | | | | | 104.0 | 0 | | |
| 210 | 0.9 | 14 | 166 | 3 | 200 | 0 | 68.0 | 0 | 83.0 | 0 | | |
| 211 | 1.5 | 16 | 182 | 0 | 40 | 0 | 85.0 | 1 | 97.5 | 4 | 692 | 4 |
| 212 | 2.9 | 14 | 159 | 0 | 290 | 4 | 81.8 | 3 | 97.1 | 4 | | |
| 213 | 3.3 | 4 | 166 | 3 | | | | | 97.5 | 4 | | |
| 217 | 3.3 | 7 | | | 290 | 4 | 77.7 | 4 | 97.2 | 4 | | |
| 218 | 1.7 | 10 | 167 | 3 | | | 80.1 | 4 | 119.2 | 0 | | |
| 219 | 2.7 | 3 | | | | | | | 97.0 | 4 | | |
| 220 | 3.3 | 7 | 169 | 4 | | | 75.0 | 3 | 99.4 | 4 | | |

Table 6. –Laboratory performance ratings for standard reference water sample M-128

(major constituents)–Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | F (Fluoride) | | K (Potassium) | | Mg (Magnesium) | | Na (Sodium) | | (total Phosphorus) as P | |
|-----|--------------|--------|---------------|--------|----------------|--------|-------------|--------|-------------------------|--------|
| | MPV = | m g/L | MPV = | m g/L | MPV = | m g/L | MPV = | m g/L | MPV = | m g/L |
| | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 1.14 | 4 | 9.43 | 4 | 17.1 | 4 | 121 | 3 | 1.41 | 4 |
| 3 | 1.22 | 4 | 10.50 | 1 | 17.8 | 3 | 137 | 0 | 1.43 | 3 |
| 4 | | | | | 17.0 | 3 | 129 | 3 | | |
| 5 | | | 9.83 | 3 | 16.9 | 3 | 124 | 4 | | |
| 7 | 1.88 | 0 | 10.00 | 3 | 17.9 | 3 | 129 | 3 | 1.41 | 4 |
| 8 | 1.00 | 1 | 9.50 | 4 | 16.5 | 2 | 129 | 3 | 0.08 | 0 |
| 9 | 1.06 | 2 | 9.40 | 4 | 16.8 | 3 | 124 | 4 | 1.40 | 4 |
| 10 | 1.18 | 4 | 9.50 | 4 | 17.3 | 4 | 125 | 4 | | |
| 11 | 1.10 | 3 | 8.88 | 3 | 18.4 | 2 | 130 | 3 | 0.84 | 0 |
| 12 | | | 9.70 | 4 | 18.3 | 2 | 128 | 4 | 1.41 | 4 |
| 13 | 1.14 | 4 | 8.51 | 2 | 18.5 | 2 | 125 | 4 | 1.38 | 4 |
| 15 | 1.10 | 3 | 9.84 | 3 | 18.5 | 2 | 127 | 4 | 1.36 | 4 |
| 16 | 1.19 | 4 | 10.70 | 1 | 17.0 | 3 | 126 | 4 | | |
| 18 | 1.21 | 4 | 9.10 | 4 | 17.2 | 4 | 123 | 3 | 1.36 | 4 |
| 19 | | | 9.45 | 4 | 17.6 | 4 | 127 | 4 | 1.40 | 4 |
| 23 | 1.24 | 3 | 8.78 | 3 | 17.4 | 4 | 123 | 3 | 1.38 | 4 |
| 24 | 1.16 | 4 | 8.77 | 3 | 17.2 | 4 | 122 | 3 | | |
| 25 | 1.30 | 2 | 10.20 | 2 | 18.9 | 1 | 134 | 1 | 1.57 | 0 |
| 26 | 0.94 | 0 | 9.40 | 4 | 17.9 | 3 | 127 | 4 | | |
| 27 | | | 10.30 | 2 | 17.1 | 4 | | | | |
| 29 | 1.35 | 1 | 9.51 | 4 | 17.1 | 4 | 124 | 4 | | |
| 30 | | | | | 17.2 | 4 | | | | |
| 32 | 1.38 | 0 | 10.90 | 0 | 19.5 | 0 | 129 | 3 | 1.68 | 0 |
| 33 | 2.05 | 0 | 10.00 | 3 | 18.4 | 2 | 115 | 0 | | |
| 36 | 1.04 | 2 | 8.95 | 3 | 16.7 | 3 | 122 | 3 | 1.29 | 2 |
| 38 | | | 9.79 | 3 | 17.8 | 4 | 117 | 1 | 1.37 | 4 |
| 39 | 1.19 | 4 | | | 18.0 | 3 | 127 | 4 | | |
| 40 | 1.20 | 4 | 9.28 | 4 | 17.8 | 3 | 124 | 4 | | |
| 42 | 1.25 | 3 | 9.70 | 4 | 18.0 | 3 | 129 | 3 | | |
| 43 | | | 9.20 | 4 | 17.3 | 4 | 126 | 4 | | |
| 45 | 1.26 | 3 | 9.64 | 4 | 17.8 | 3 | 126 | 4 | 1.42 | 4 |
| 46 | 1.28 | 2 | 8.58 | 2 | 17.5 | 4 | 122 | 3 | 1.39 | 4 |
| 48 | | | 9.64 | 4 | 19.0 | 0 | 139 | 0 | 1.40 | 4 |
| 50 | 1.18 | 4 | 9.40 | 4 | 17.0 | 3 | 123 | 3 | | |
| 51 | | | 9.80 | 3 | 16.6 | 2 | 122 | 3 | 0.16 | 0 |
| 52 | 1.21 | 4 | 8.94 | 3 | 17.2 | 4 | 124 | 4 | 1.39 | 4 |
| 54 | 1.18 | 4 | 9.00 | 3 | 17.4 | 4 | 126 | 4 | | |
| 55 | 1.10 | 3 | 9.58 | 4 | 18.2 | 2 | 128 | 4 | | |
| 56 | | | 11.24 | 0 | 16.3 | 2 | 123 | 3 | | |
| 57 | 1.16 | 4 | 12.00 | 0 | 18.7 | 1 | 126 | 4 | 0.90 | 0 |
| 58 | 1.25 | 3 | 8.80 | 3 | 13.9 | 0 | 95 | 0 | 1.45 | 3 |
| 60 | | | | | | | | | 1.49 | 2 |
| 61 | 1.20 | 4 | 9.87 | 3 | 17.8 | 4 | 126 | 4 | 1.26 | 1 |
| 62 | | | | | | | | | | |
| 63 | 1.23 | 3 | 10.80 | 1 | 19.3 | 0 | 140 | 0 | 1.40 | 4 |
| 64 | | | 9.42 | 4 | 17.3 | 4 | 125 | 4 | 1.43 | 3 |
| 68 | | | 9.30 | 4 | 18.0 | 3 | 130 | 3 | 1.40 | 4 |
| 69 | 1.18 | 4 | 10.40 | 2 | 16.9 | 3 | 116 | 1 | | |
| 70 | 1.17 | 4 | 10.20 | 2 | 17.7 | 4 | 127 | 4 | 1.08 | 0 |
| 75 | | | 8.70 | 2 | 18.0 | 3 | 126 | 4 | 1.42 | 4 |
| 76 | | | 9.85 | 3 | | | | | | |
| 78 | 1.17 | 4 | 9.60 | 4 | 18.5 | 2 | 132 | 2 | 0.78 | 0 |
| 79 | | | | | | | | | | |
| 81 | 1.10 | 3 | 9.53 | 4 | 17.0 | 3 | 173 | 0 | 1.58 | 0 |
| 83 | | | 11.14 | 0 | 16.4 | 2 | 116 | 1 | 1.40 | 4 |
| 84 | | | | | 17.3 | 4 | 128 | 4 | | |
| 85 | 1.10 | 3 | 9.85 | 3 | 17.4 | 4 | 121 | 3 | 1.30 | 2 |
| 86 | 0.63 | 0 | 9.40 | 4 | 18.4 | 2 | 127 | 4 | 1.42 | 4 |
| 87 | | | 8.65 | 2 | 17.0 | 3 | 121 | 3 | 1.48 | 2 |
| 89 | 1.21 | 4 | 10.10 | 3 | 17.6 | 4 | 130 | 3 | 1.38 | 4 |
| 90 | | | | | | | | | | |
| 93 | 4.42 | 0 | 10.89 | 0 | 19.6 | 0 | 124 | 4 | | |
| 94 | 1.17 | 4 | 9.13 | 4 | 17.1 | 4 | 123 | 3 | 1.33 | 3 |
| 96 | 1.19 | 4 | | | | | | | | |
| 97 | 1.14 | 4 | 9.49 | 4 | 17.3 | 4 | 110 | 0 | | |

Table 6. --Laboratory performance ratings for standard reference water sample M-128
(major constituents)--Continued

| Lab | Analyte = F (Fluoride) | | K (Potassium) | | Mg (Magnesium) | | Na (Sodium) | | (total Phosphorus) as P | |
|-----|------------------------------------|------------|---------------|--------|----------------|--------|-------------|--------|-------------------------|--------|
| | MPV = F-pseudostigma = 0.096 | 1.18 m g/L | 9.44 m g/L | 0.675 | 17.4 m g/L | 0.74 | 126 m g/L | 5.0 | 1.390 m g/L | 0.067 |
| | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 102 | | | 7.60 | 0 | 16.7 | 3 | 113 | 0 | 1.39 | 4 |
| 104 | | | | | | | | | 0.08 | 0 |
| 105 | 1.10 | 3 | 9.25 | 4 | 16.4 | 2 | 129 | 3 | 1.38 | 4 |
| 107 | 1.20 | 4 | | | | | | | 1.37 | 4 |
| 109 | 1.20 | 4 | 9.85 | 3 | 18.0 | 3 | 122 | 3 | | |
| 110 | | | 0.07 | 0 | 0.1 | 0 | 0 | 0 | | |
| 111 | | | | | | | | | 1.56 | 0 |
| 114 | 1.17 | 4 | 6.00 | 0 | 18.0 | 3 | 66 | 0 | 1.36 | 4 |
| 116 | | | | | 17.3 | 4 | 124 | 4 | | |
| 117 | 1.12 | 3 | 8.28 | 1 | 16.8 | 3 | 96 | 0 | | |
| 118 | | | | | | | | | | |
| 119 | 1.15 | 4 | 9.00 | 3 | 17.2 | 4 | 124 | 4 | 1.36 | 4 |
| 120 | 1.18 | 4 | 2.31 | 0 | 17.3 | 4 | 128 | 4 | 1.39 | 4 |
| 121 | | | | | 20.0 | 0 | 125 | 4 | | |
| 126 | | | | | | | 55 | 0 | | |
| 127 | 1.18 | 4 | 9.33 | 4 | 17.3 | 4 | 122 | 3 | 1.39 | 4 |
| 128 | 1.10 | 3 | 9.43 | 4 | 17.1 | 4 | 128 | 4 | 1.30 | 2 |
| 129 | 0.77 | 0 | 10.60 | 1 | 10.0 | 0 | 121 | 3 | 1.45 | 3 |
| 131 | | | 6.80 | 0 | 17.9 | 3 | 133 | 2 | 1.70 | 0 |
| 133 | | | | | 17.5 | 4 | | | | |
| 134 | 1.20 | 4 | 9.90 | 3 | 17.8 | 4 | 127 | 4 | 1.40 | 4 |
| 136 | | | | | 18.9 | 1 | | | 1.40 | 4 |
| 138 | 1.07 | 2 | 9.02 | 3 | 17.4 | 4 | 136 | 1 | 1.27 | 1 |
| 140 | 1.28 | 2 | 9.50 | 4 | 17.3 | 4 | 124 | 4 | 1.36 | 4 |
| 141 | 1.16 | 4 | 9.89 | 3 | 18.3 | 2 | 133 | 2 | 1.43 | 3 |
| 142 | 1.22 | 4 | 9.76 | 4 | 19.0 | 0 | 133 | 2 | 1.32 | 2 |
| 145 | 1.03 | 1 | 9.14 | 4 | 17.0 | 3 | 126 | 4 | 1.47 | 2 |
| 146 | | | 7.86 | 0 | 14.9 | 0 | 119 | 2 | | |
| 149 | | | 8.00 | 0 | 16.3 | 2 | 133 | 2 | | |
| 153 | 0.89 | 0 | 9.00 | 3 | 18.7 | 1 | 143 | 0 | | |
| 154 | 1.24 | 3 | 9.45 | 4 | 17.1 | 4 | 128 | 4 | 1.20 | 0 |
| 158 | | | | | | | | | 1.43 | 3 |
| 179 | | | 9.90 | 3 | 18.1 | 3 | 126 | 4 | 1.12 | 0 |
| 180 | 1.10 | 3 | 9.19 | 4 | 18.0 | 3 | 125 | 4 | 1.54 | 0 |
| 182 | | | 8.10 | 1 | 17.0 | 3 | 123 | 3 | 1.62 | 0 |
| 183 | 1.70 | 0 | | | | | | | | |
| 190 | 1.16 | 4 | | | | | | | | |
| 191 | | | 9.50 | 4 | 17.4 | 4 | 124 | 4 | 1.41 | 4 |
| 193 | | | | | | | | | | |
| 194 | 1.23 | 3 | | | | | | | 1.39 | 4 |
| 196 | 1.00 | 1 | 8.97 | 3 | 18.0 | 3 | 134 | 1 | 1.34 | 3 |
| 197 | | | | | | | | | | |
| 200 | | | | | | | | | 1.37 | 4 |
| 202 | | | | | | | | | 1.40 | 4 |
| 203 | | | | | | | | | 1.32 | 2 |
| 204 | | | 9.55 | 4 | 17.4 | 4 | 126 | 4 | 1.41 | 4 |
| 208 | | | | | | | | | 1.29 | 2 |
| 210 | 1.30 | 2 | 5.30 | 0 | 16.0 | 1 | 120 | 2 | 1.60 | 0 |
| 211 | 1.37 | 1 | 8.50 | 2 | 20.0 | 0 | 130 | 3 | 1.28 | 1 |
| 212 | 1.60 | 0 | 8.80 | 3 | 18.0 | 3 | 126 | 4 | 1.40 | 4 |
| 213 | | | | | | | | | 1.37 | 4 |
| 217 | < 5.0 | NR | 8.70 | 2 | 16.9 | 3 | 120 | 2 | | |
| 218 | 1.34 | 1 | 10.00 | 3 | 18.3 | 2 | 136 | 1 | | |
| 219 | 1.24 | 3 | | | | | | | | |
| 220 | | | 8.70 | 2 | 17.0 | 3 | 126 | 4 | | |

Table 6. --Laboratory performance ratings for standard reference water sample M-128

(major constituents)--Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | pH | | SiO2 (Silica) | | SO4 (Sulfate) | | Sp Cond | | Sr (Strontium) | | V (Vanadium) | |
|-----------------|-------|--------|---------------|--------|---------------|--------|---------|--------|----------------|--------|--------------|--------|
| MPV = | 8.29 | | 10.8 | m g/L | 206 | m g/L | 1076 | μ S/cm | 705 | μ g/L | 2.6 | μ g/L |
| F-pseudosigma = | 0.111 | | 0.82 | | 7.9 | | 35.2 | | 42.3 | | 1.85 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 8.14 | 2 | 10.5 | 4 | 210 | 3 | 1085 | 4 | 700 | 4 | 3.53 | 4 |
| 3 | 8.35 | 3 | 11.7 | 2 | 186 | 0 | 1100 | 3 | 687 | 4 | < 10 | NR |
| 4 | | | 10.5 | 4 | | | | | 710 | 4 | | |
| 5 | 7.28 | 0 | 10.8 | 4 | 202 | 3 | 1020 | 1 | 701 | 4 | 7.80 | 0 |
| 7 | 8.09 | 1 | 11.1 | 4 | 2 | 0 | 1060 | 4 | 725 | 4 | < 22 | NR |
| 8 | 8.02 | 0 | 11.8 | 2 | 203 | 4 | 1073 | 4 | 765 | 2 | < 5 | NR |
| 9 | | | 10.0 | 3 | 229 | 0 | | | | | | |
| 10 | 8.39 | 3 | 10.7 | 4 | 206 | 4 | 1089 | 4 | | | | |
| 11 | 8.31 | 4 | 11.6 | 2 | 205 | 4 | 1100 | 3 | 719 | 4 | | |
| 12 | 8.20 | 3 | | | 217 | 2 | 1080 | 4 | | | | |
| 13 | 8.32 | 4 | 10.2 | 3 | 191 | 1 | 1040 | 2 | | | | |
| 15 | 7.69 | 0 | 10.4 | 4 | 194 | 1 | 1120 | 2 | 723 | 4 | 1.70 | 4 |
| 16 | 7.96 | 0 | | | 225 | 0 | 1041 | 3 | 675 | 3 | < 10 | NR |
| 18 | 8.32 | 4 | 11.6 | 2 | 211 | 3 | 1037 | 2 | 707 | 4 | < 5 | NR |
| 19 | 8.24 | 4 | | | 203 | 4 | 1080 | 4 | | | | |
| 23 | 8.27 | 4 | | | | | 110 | 0 | | | | |
| 24 | 8.35 | 3 | 11.1 | 4 | 205 | 4 | 1085 | 4 | 713 | 4 | | |
| 25 | 8.23 | 3 | 15.2 | 0 | 37 | 0 | 1094 | 3 | 754 | 2 | < 4 | NR |
| 26 | 8.50 | 1 | | | 204 | 4 | 1077 | 4 | | | | |
| 27 | | | | | | | | | | | | |
| 29 | 8.43 | 2 | | | 205 | 4 | 1091 | 4 | | | | |
| 30 | 8.16 | 2 | | | 199 | 3 | | | | | | |
| 32 | 8.30 | 4 | 13.1 | 0 | 194 | 1 | 1030 | 2 | 727 | 3 | 3.00 | 4 |
| 33 | 8.27 | 4 | 9.5 | 1 | 196 | 2 | 1030 | 2 | 668 | 3 | | |
| 36 | 8.31 | 4 | 25.5 | 0 | 200 | 3 | 1165 | 0 | | | | |
| 38 | 8.40 | 3 | 10.6 | 4 | | | 1105 | 3 | | | | |
| 39 | 8.22 | 3 | | | 220 | 1 | 1070 | 4 | 735 | 3 | 4.00 | 3 |
| 40 | 8.28 | 4 | 12.0 | 2 | 201 | 3 | 1089 | 4 | 669 | 3 | | |
| 42 | 8.11 | 1 | 12.2 | 1 | 208 | 4 | 1069 | 4 | 758 | 2 | | |
| 43 | 8.26 | 4 | 11.3 | 3 | 204 | 4 | 1090 | 4 | | | | |
| 45 | 7.71 | 0 | 10.6 | 4 | 211 | 3 | 1070 | 4 | | | | |
| 46 | 8.24 | 4 | | | 221 | 1 | 1076 | 4 | 669 | 3 | | |
| 48 | 8.00 | 0 | | | 214 | 2 | 1094 | 3 | | | 80.00 | 0 |
| 50 | 8.30 | 4 | 12.2 | 1 | 206 | 4 | 1090 | 4 | | | | |
| 51 | 8.41 | 2 | 11.6 | 3 | 213 | 3 | 1049 | 3 | | | 2.00 | 4 |
| 52 | 8.39 | 3 | 10.3 | 3 | 205 | 4 | 1010 | 1 | 707 | 4 | 3.50 | 4 |
| 54 | 8.33 | 4 | | | 214 | 2 | 1054 | 3 | | | | |
| 55 | 8.42 | 2 | 11.0 | 4 | 216 | 2 | | | 69 | 0 | | |
| 56 | 8.22 | 3 | | | 201 | 3 | 1064 | 4 | | | | |
| 57 | 8.20 | 3 | 9.8 | 2 | 180 | 0 | 968 | 0 | | | < 100 | NR |
| 58 | 8.14 | 2 | | | 215 | 2 | 913 | 0 | | | | |
| 60 | 8.41 | 2 | | | | | 1085 | 4 | | | | |
| 61 | 8.02 | 0 | 11.5 | 3 | 220 | 1 | 1120 | 2 | | | 2.60 | 4 |
| 62 | 8.29 | 4 | | | | | 1066 | 4 | | | | |
| 63 | 8.34 | 4 | 12.2 | 1 | 187 | 0 | 1089 | 4 | 720 | 4 | < 0.01 | NR |
| 64 | 8.31 | 4 | 10.2 | 3 | 211 | 3 | 1120 | 2 | | | | |
| 68 | 8.42 | 2 | 10.8 | 4 | | | 1140 | 1 | 730 | 3 | < 3.0 | NR |
| 69 | 8.34 | 4 | | | 202 | 4 | 1050 | 3 | | | | |
| 70 | 8.22 | 3 | 10.4 | 4 | 191 | 1 | 1170 | 0 | 720 | 4 | < 50 | NR |
| 75 | 8.00 | 0 | | | 216 | 2 | 1080 | 4 | | | | |
| 76 | 8.07 | 1 | | | 205 | 4 | 1070 | 4 | | | | |
| 78 | 8.32 | 4 | 10.1 | 3 | 170 | 0 | 1080 | 4 | | | 2.00 | 4 |
| 79 | 8.40 | 3 | | | | | 1050 | 3 | | | | |
| 81 | 8.20 | 3 | | | | | 1070 | 4 | 748 | 2 | | |
| 83 | | | 9.7 | 2 | 205 | 4 | | | | | | |
| 84 | 7.48 | 0 | | | | | 1109 | 3 | | | | |
| 85 | 8.43 | 2 | 10.7 | 4 | 200 | 3 | 1070 | 4 | 702 | 4 | < 20 | NR |
| 86 | 8.29 | 4 | | | 228 | 0 | 1095 | 3 | | | 1.26 | 3 |
| 87 | 8.24 | 4 | 11.3 | 3 | 209 | 4 | 836 | 0 | | | | |
| 89 | 8.28 | 4 | 10.4 | 4 | 204 | 4 | 1050 | 3 | | | | |
| 90 | | | | | | | | | | | | |
| 93 | 8.43 | 2 | | | 204 | 4 | 929 | 0 | | | < 5 | NR |
| 94 | 8.45 | 2 | | | 206 | 4 | 1126 | 2 | 690 | 4 | | |
| 96 | 8.48 | 1 | | | 213 | 3 | 1076 | 4 | | | | |
| 97 | 8.33 | 4 | 10.8 | 4 | 218 | 1 | 1080 | 4 | 660 | 2 | | |

Table 6. --Laboratory performance ratings for standard reference water sample M-128
(major constituents)--Continued

| Lab | Analyte = pH | | | SiO ₂ (Silica) | | SO ₄ (Sulfate) | | Sp Cond | | Sr (Strontium) | | V (Vanadium) | | |
|-----|-----------------|--------|------|---------------------------|-------|---------------------------|-------|---------|--------|----------------|--------|--------------|-------|--------|
| | MPV = | 8.29 | | 10.8 | m g/L | 206 | m g/L | 1076 | μ S/cm | 705 | μ g/L | 2.6 | μ g/L | |
| | F-pseudosigma = | 0.111 | | 0.82 | | 7.9 | | 35.2 | | 42.3 | | 1.85 | | |
| | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 102 | | | 11.1 | 4 | 200 | 3 | 1100 | 3 | 650 | 2 | < 1 | NR | | |
| 104 | 8.15 | 2 | 10.7 | 4 | | | 1107 | 3 | | | | | | |
| 105 | 8.28 | 4 | 10.2 | 3 | 213 | 3 | 1041 | 3 | 706 | 4 | 2.00 | 4 | | |
| 107 | 8.29 | 4 | 11.1 | 4 | | | 1090 | 4 | | | | | | |
| 109 | 8.33 | 4 | 9.9 | 2 | 210 | 3 | 1070 | 4 | | | | | | |
| 110 | | | | | | | | | | | | | | |
| 111 | | | | | | | | | | | | | | |
| 114 | 8.32 | 4 | | | 209 | 4 | 1090 | 4 | | | | | | |
| 116 | | | 10.6 | 4 | 207 | 4 | | | 705 | 4 | | | | |
| 117 | | | | | | | 1081 | 4 | | | | | | |
| 118 | 8.34 | 4 | 12.0 | 2 | | | 1050 | 3 | | | | | | |
| 119 | 8.40 | 3 | 11.0 | 4 | 204 | 4 | 1091 | 4 | | | | | | |
| 120 | 8.40 | 3 | | | 200 | 3 | | | | | | | | |
| 121 | | | 10.6 | 4 | | | | | 767 | 2 | | | | |
| 126 | | | | | | | | | | | | | | |
| 127 | 8.36 | 3 | 10.7 | 4 | 209 | 4 | 1060 | 4 | 718 | 4 | < 2 | NR | | |
| 128 | 8.44 | 2 | 9.9 | 2 | 201 | 3 | 1070 | 4 | | | < 5 | NR | | |
| 129 | 8.29 | 4 | 11.5 | 3 | 206 | 4 | 1141 | 1 | | | | | | |
| 131 | 8.22 | 3 | 11.0 | 4 | 204 | 4 | 975 | 0 | 705 | 4 | | | | |
| 133 | | | | | | | | | | | | | | |
| 134 | 8.37 | 3 | 10.8 | 4 | 207 | 4 | 1092 | 4 | 679 | 3 | 2.20 | 4 | | |
| 136 | 8.19 | 3 | 10.7 | 4 | | | 1065 | 4 | | | | | | |
| 138 | 8.22 | 3 | 10.8 | 4 | 214 | 2 | | | 694 | 4 | < 3 | NR | | |
| 140 | 8.13 | 2 | 8.6 | 0 | 236 | 0 | 1060 | 4 | | | | | | |
| 141 | 8.07 | 1 | 10.4 | 4 | 211 | 3 | 1121 | 2 | 795 | 0 | < 10 | NR | | |
| 142 | 8.25 | 4 | 12.0 | 2 | 217 | 2 | 1090 | 4 | 759 | 2 | 2.00 | 4 | | |
| 145 | 8.40 | 3 | 10.7 | 4 | 205 | 4 | 1065 | 4 | 678 | 3 | < 18.0 | NR | | |
| 146 | 8.16 | 2 | 16.5 | 0 | | | 1040 | 2 | 620 | 1 | 2.40 | 4 | | |
| 149 | | | 10.9 | 4 | 203 | 4 | | | | | | | | |
| 153 | 8.29 | 4 | | | 209 | 4 | 1040 | 2 | | | | | | |
| 154 | 8.40 | 3 | | | 212 | 3 | 1093 | 4 | 72 | 0 | 2.00 | 4 | | |
| 158 | 8.30 | 4 | | | 208 | 4 | 1098 | 3 | | | | | | |
| 179 | | | | | | | | | | | | | | |
| 180 | 8.40 | 3 | | | 236 | 0 | 1117 | 2 | | | 5.10 | 2 | | |
| 182 | 8.22 | 3 | | | 170 | 0 | 778 | 0 | 75 | 0 | 5.00 | 2 | | |
| 183 | 8.31 | 4 | | | 191 | 1 | 620 | 0 | | | | | | |
| 190 | 8.24 | 4 | | | 185 | 0 | 1097 | 3 | | | | | | |
| 191 | 8.23 | 3 | 12.6 | 0 | 208 | 4 | | | 1 | 0 | | | | |
| 193 | | | | | 206 | 4 | 105 | 0 | | | | | | |
| 194 | 8.40 | 3 | | | 215 | 2 | 1040 | 2 | | | | | | |
| 196 | | | | | 212 | 3 | 752 | 0 | 3 | 0 | | | | |
| 197 | 8.32 | 4 | | | 208 | 4 | 1382 | 0 | | | | | | |
| 200 | | | | | | | | | | | | | | |
| 202 | 8.30 | 4 | | | | | 1151 | 0 | | | | | | |
| 203 | 8.28 | 4 | 10.0 | 2 | 230 | 0 | 920 | 0 | | | | | | |
| 204 | 8.01 | 0 | 9.7 | 2 | 229 | 0 | 1040 | 2 | | | | | | |
| 208 | | | | | 209 | 4 | | | | | | | | |
| 210 | 8.35 | 3 | 4.0 | 0 | 194 | 1 | 1000 | 0 | 470 | 0 | < 50 | NR | | |
| 211 | 7.80 | 0 | 7.6 | 0 | 203 | 4 | 1090 | 4 | 610 | 0 | 20.00 | 0 | | |
| 212 | 8.40 | 3 | 11.3 | 3 | 203 | 4 | 1070 | 4 | 753 | 2 | | | | |
| 213 | 8.14 | 2 | | | | | | | | | | | | |
| 217 | | | | | 208 | 4 | | | | | < 10 | NR | | |
| 218 | 8.18 | 3 | | | 236 | 0 | | | 810 | 0 | | | | |
| 219 | | | | | 219 | 1 | | | | | | | | |
| 220 | | | | | 210 | 3 | | | | | | | | |

Table 7. --Laboratory performance ratings for standard reference water sample N-40 (preserved nutrients)
 --Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/5, number of reported values of 5 possible values; RV, reported value; <, less than)

| | | Rating | | | Rating | | | Rating | | | Rating | |
|-----|-----|------------------|--------|--------|------------------|--------|-------|------------------|--------|--------|-------------------|--------|
| | | Absolute Z-value | | | Absolute Z-value | | | Absolute Z-value | | | Absolute Z-value | |
| | | 0.00 - 0.50 | | | 1 (Questionable) | | | 1.51 - 2.00 | | | greater than 2.00 | |
| | | 0.51 - 1.00 | | | 0 (Poor) | | | | | | | |
| | | 1.01 - 1.50 | | | NR (Not Rated) | | | | | | | |
| | | 2 (Satisfactory) | | | | | | | | | | |
| | | 3 (Good) | | | | | | | | | | |
| | | 4 (Excellent) | | | | | | | | | | |
| Lab | OLR | V/5 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 3.8 | 5 | 0.040 | 4 | 0.067 | 3 | 0.116 | 4 | 0.057 | 4 | 0.053 | 4 |
| 7 | 3.5 | 2 | < 0.05 | NR | | | 0.130 | 3 | 0.060 | 4 | | |
| 11 | 3.2 | 5 | 0.060 | 3 | 0.130 | 3 | 0.120 | 4 | 0.070 | 3 | 0.060 | 3 |
| 13 | 2.8 | 5 | 0.020 | 3 | 0.130 | 3 | 0.120 | 4 | 0.080 | 1 | 0.060 | 3 |
| 15 | 3.8 | 4 | 0.045 | 4 | < 0.5 | NR | 0.104 | 3 | 0.062 | 4 | 0.056 | 4 |
| 21 | 2.0 | 2 | | | 0.134 | 3 | 0.089 | 1 | | | | |
| 29 | 0.0 | 2 | | | | | 0.240 | 0 | | | 0.180 | 0 |
| 33 | 4.0 | 1 | 0.030 | 4 | | | | | | | | |
| 36 | 1.8 | 5 | 0.175 | 0 | 0.338 | 4 | 0.087 | 1 | 0.064 | 4 | 0.578 | 0 |
| 42 | 2.3 | 3 | | | | | 0.156 | 0 | 0.064 | 4 | 0.058 | 3 |
| 43 | 4.0 | 1 | | | | | 0.120 | 4 | | | | |
| 45 | 2.8 | 4 | | | 0.427 | 3 | 0.157 | 0 | 0.062 | 4 | 0.054 | 4 |
| 48 | 1.6 | 5 | 0.020 | 3 | 0.300 | 4 | 0.150 | 1 | 0.040 | 0 | < 0.005 | 0 |
| 52 | 3.3 | 4 | 0.028 | 4 | < 0.01 | NR | 0.121 | 4 | 0.076 | 1 | 0.055 | 4 |
| 56 | 4.0 | 3 | | | 0.370 | 4 | | | 0.062 | 4 | 0.054 | 4 |
| 60 | 1.6 | 5 | 0.570 | 0 | 0.950 | 0 | 0.120 | 4 | 0.072 | 2 | 0.061 | 2 |
| 63 | 2.2 | 5 | 0.300 | 0 | 0.300 | 4 | 0.160 | 0 | 0.060 | 4 | 0.050 | 3 |
| 68 | 2.3 | 3 | 0.040 | 4 | 0.140 | 3 | | | 0.097 | 0 | | |
| 75 | 4.0 | 4 | 0.041 | 4 | | | 0.115 | 4 | 0.058 | 4 | 0.055 | 4 |
| 78 | 1.4 | 5 | 0.024 | 4 | 0.450 | 3 | 0.020 | 0 | 0.022 | 0 | 0.090 | 0 |
| 88 | 1.3 | 3 | 0.042 | 4 | | | 1.890 | 0 | | | 0.323 | 0 |
| 89 | 3.8 | 4 | 0.025 | 4 | 0.109 | 3 | | | 0.062 | 4 | 0.055 | 4 |
| 90 | 2.8 | 4 | 0.020 | 3 | 0.430 | 3 | | | 0.080 | 1 | 0.053 | 4 |
| 93 | 2.5 | 2 | 0.040 | 4 | | | 0.088 | 1 | | | | |
| 97 | 2.8 | 4 | < 0.03 | NR | 0.140 | 3 | 0.110 | 3 | 0.050 | 2 | 0.050 | 3 |
| 105 | 3.0 | 5 | 0.070 | 2 | 0.320 | 4 | 0.108 | 3 | 0.069 | 3 | 0.050 | 3 |
| 114 | 4.0 | 1 | < 0.1 | NR | | | | | 0.058 | 4 | | |
| 117 | 2.3 | 3 | | | | | 0.150 | 1 | 0.055 | 3 | 0.050 | 3 |
| 118 | 2.6 | 5 | 0.020 | 3 | 0.270 | 4 | 0.150 | 1 | 0.050 | 2 | 0.050 | 3 |
| 119 | 3.5 | 4 | < 0.1 | NR | 0.180 | 4 | 0.110 | 3 | 0.060 | 4 | 0.060 | 3 |
| 120 | 2.0 | 2 | 0.084 | 1 | 0.129 | 3 | | | | | | |
| 121 | 3.7 | 3 | 0.024 | 4 | | | 0.109 | 3 | | | 0.054 | 4 |
| 122 | 2.8 | 4 | 0.149 | 0 | | | 0.106 | 3 | 0.057 | 4 | 0.051 | 4 |
| 129 | 3.7 | 3 | 0.028 | 4 | | | | | 0.061 | 4 | 0.058 | 3 |
| 133 | 0.0 | 2 | 4.300 | 0 | 12.200 | 0 | | | | | | |
| 134 | 3.8 | 4 | 0.043 | 4 | < 0.2 | NR | 0.118 | 4 | 0.070 | 3 | 0.055 | 4 |
| 140 | 1.0 | 5 | 0.009 | 3 | 0.594 | 2 | 0.062 | 0 | 0.040 | 0 | 0.030 | 0 |
| 141 | 2.7 | 3 | < 0.1 | NR | < 0.1 | NR | 0.090 | 1 | 0.060 | 4 | 0.060 | 3 |
| 145 | 3.0 | 5 | 0.020 | 3 | 0.090 | 3 | 0.110 | 3 | 0.070 | 3 | 0.050 | 3 |
| 154 | 3.2 | 5 | 0.006 | 3 | 0.044 | 2 | 0.119 | 4 | 0.054 | 3 | 0.051 | 4 |
| 179 | 1.5 | 2 | < 1.0 | NR | 3.870 | 0 | | | < 0.18 | NR | 0.050 | 3 |
| 214 | 2.8 | 4 | 0.002 | 2 | 0.035 | 2 | 0.128 | 3 | | | 0.053 | 4 |
| 220 | 3.5 | 4 | 0.010 | 3 | | | 0.130 | 3 | 0.066 | 4 | 0.052 | 4 |

Table 7. --Laboratory performance ratings for standard reference water sample N-40 (nonpreserved nutrients)

--Continued

| Lab | OLR | V/5 | Analyte = NH ₃ as N (Ammonia) | | NH ₃ + Org N as N (Ammonia+Organic N) | | NO ₃ + NO ₂ as N (Nitrate & Nitrite) | | total P as P (total Phosphorus) | | PO ₄ as P (Orthophosphate as P) | |
|-----|-----|-----|--|-------|--|--------|--|--------|---------------------------------|--------|--|--------|
| | | | MPV = 0.024 m g/L | RV | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | | | F-pseudosigma = 0.027 | 0.098 | 0.118 | 0.110 | 0.060 | 0.055 | | | | |
| 3 | 2.3 | 4 | < 0.001 | NR | 0.394 | 0 | 0.117 | 3 | 0.066 | 3 | 0.055 | 3 |
| 5 | 3.5 | 4 | 0.010 | 3 | | | 0.113 | 4 | 0.060 | 4 | 0.049 | 3 |
| 9 | 1.8 | 5 | 0.047 | 3 | 0.010 | 2 | 0.121 | 3 | 0.076 | 1 | 0.036 | 0 |
| 10 | 3.6 | 5 | 0.030 | 4 | 0.080 | 4 | 0.110 | 4 | 0.060 | 4 | 0.057 | 2 |
| 12 | 4.0 | 1 | | | | | 0.110 | 4 | | | | |
| 15 | 2.0 | 4 | 0.051 | 3 | < 0.5 | NR | 0.075 | 0 | 0.063 | 4 | 0.059 | 1 |
| 16 | 1.0 | 2 | < 0.1 | NR | 0.224 | 2 | 0.736 | 0 | | | | |
| 18 | 3.2 | 5 | 0.010 | 3 | 0.175 | 3 | 0.102 | 3 | 0.053 | 3 | 0.052 | 4 |
| 19 | 3.3 | 3 | < 0.05 | NR | | | 0.107 | 4 | 0.050 | 2 | 0.050 | 4 |
| 21 | 3.5 | 4 | | | 0.087 | 4 | 0.116 | 4 | 0.062 | 4 | 0.058 | 2 |
| 22 | 4.0 | 1 | | | | | | | 0.059 | 4 | | |
| 23 | 4.0 | 4 | 0.011 | 4 | | | 0.114 | 4 | 0.057 | 4 | 0.050 | 4 |
| 25 | 2.0 | 3 | 0.048 | 3 | | | 0.120 | 3 | < 0.121 | NR | 0.041 | 0 |
| 26 | 0.0 | 1 | < 0.05 | NR | | | 0.080 | 0 | | | < 0.5 | NR |
| 29 | 2.0 | 2 | | | | | 0.110 | 4 | | | 0.150 | 0 |
| 32 | 1.0 | 2 | < 0.02 | NR | | | 0.130 | 1 | | | 0.043 | 1 |
| 33 | 4.0 | 3 | 0.026 | 4 | | | 0.110 | 4 | | | 0.050 | 4 |
| 36 | 2.4 | 5 | 0.047 | 3 | 0.363 | 0 | 0.096 | 2 | 0.059 | 4 | 0.055 | 3 |
| 38 | 3.4 | 5 | 0.024 | 4 | 0.100 | 4 | 0.124 | 2 | 0.063 | 4 | 0.055 | 3 |
| 42 | 2.0 | 1 | | | | | 0.125 | 2 | | | | |
| 45 | 2.3 | 4 | | | 0.301 | 1 | 0.151 | 0 | 0.057 | 4 | 0.052 | 4 |
| 46 | 4.0 | 4 | < 0.005 | NR | 0.100 | 4 | 0.107 | 4 | 0.060 | 4 | 0.052 | 4 |
| 51 | 2.3 | 4 | 0.000 | NR | 0.260 | 2 | 0.140 | 0 | 0.051 | 3 | 0.050 | 4 |
| 52 | 2.3 | 3 | < 0.01 | NR | < 0.01 | NR | 0.131 | 1 | 0.053 | 3 | 0.048 | 3 |
| 53 | 4.0 | 2 | | | | | 0.109 | 4 | | | 0.053 | 4 |
| 55 | 2.7 | 3 | | | | | 0.120 | 3 | 0.060 | 4 | 0.060 | 1 |
| 56 | 3.0 | 1 | | | | | 0.100 | 3 | | | | |
| 58 | 0.5 | 2 | | | 0.780 | 0 | 0.130 | 1 | | | | |
| 59 | 4.0 | 3 | < 0.04 | NR | 0.100 | 4 | 0.110 | 4 | < 0.1 | NR | 0.050 | 4 |
| 60 | 1.6 | 5 | 0.490 | 0 | 1.000 | 0 | 0.120 | 3 | 0.066 | 3 | 0.059 | 2 |
| 63 | 1.8 | 5 | 0.200 | 0 | 0.200 | 3 | 0.180 | 0 | 0.050 | 2 | 0.050 | 4 |
| 68 | 3.5 | 2 | 0.012 | 4 | | | 0.120 | 3 | | | | |
| 69 | 3.0 | 1 | | | | | 0.100 | 3 | | | | |
| 70 | 1.5 | 2 | < 0.1 | NR | 0.350 | 0 | 0.100 | 3 | < 0.1 | NR | < 0.1 | NR |
| 72 | 1.5 | 4 | < 0.03 | NR | 0.100 | 4 | 0.070 | 0 | 0.070 | 2 | 0.070 | 0 |
| 78 | 0.6 | 5 | 0.006 | 3 | 0.430 | 0 | < 0.01 | 0 | 0.019 | 0 | 0.130 | 0 |
| 79 | 0 | 0 | | | < 0.2 | NR | | | < 0.2 | NR | | |
| 80 | 2.3 | 3 | 0.050 | 3 | | | 0.280 | 0 | | | 0.050 | 4 |
| 81 | 1.5 | 4 | < 0.05 | NR | 0.208 | 3 | 0.120 | 3 | 0.023 | 0 | 0.041 | 0 |
| 83 | 2.0 | 2 | 0.000 | NR | | | 0.080 | 0 | | | 0.050 | 4 |
| 85 | 3.3 | 4 | < 0.005 | NR | 0.100 | 4 | 0.120 | 3 | 0.050 | 2 | 0.052 | 4 |
| 87 | 3.3 | 4 | < 0.1 | NR | 0.140 | 4 | 0.110 | 4 | 0.066 | 3 | 0.057 | 2 |
| 88 | 0.0 | 3 | 0.083 | 0 | | | 1.880 | 0 | | | 0.400 | 0 |
| 89 | 3.8 | 5 | 0.024 | 4 | 0.082 | 4 | 0.104 | 4 | 0.061 | 4 | 0.056 | 3 |
| 90 | 3.0 | 1 | | | | | 0.120 | 3 | | | | |
| 91 | 2.7 | 3 | < 0.03 | NR | 0.120 | 4 | 0.110 | 4 | 0.086 | 0 | | |
| 94 | 3.5 | 4 | 0.026 | 4 | 0.137 | 4 | 0.100 | 3 | 0.054 | 3 | | |
| 96 | 3.8 | 5 | 0.020 | 4 | 0.110 | 4 | 0.121 | 3 | 0.060 | 4 | 0.050 | 4 |
| 97 | 3.3 | 4 | < 0.00 | NR | 0.090 | 4 | 0.100 | 3 | 0.070 | 2 | 0.050 | 4 |
| 102 | 2.8 | 4 | < 0.02 | NR | 0.050 | 3 | 0.150 | 0 | 0.058 | 4 | 0.053 | 4 |
| 104 | 4.0 | 1 | < 0.004 | NR | | | 0.112 | 4 | | | | |
| 107 | 3.5 | 4 | 0.025 | 4 | | | 0.116 | 4 | 0.058 | 4 | 0.045 | 2 |
| 111 | 3.3 | 3 | 0.040 | 3 | | | | | 0.062 | 4 | 0.055 | 3 |
| 114 | 4.0 | 1 | < 0.1 | NR | | | | | 0.061 | 4 | | |
| 117 | 2.0 | 2 | | | | | 0.150 | 0 | | | 0.050 | 4 |
| 118 | 3.4 | 5 | 0.010 | 3 | 0.070 | 4 | 0.110 | 4 | 0.050 | 2 | 0.050 | 4 |
| 119 | 4.0 | 4 | < 0.1 | NR | 0.140 | 4 | 0.110 | 4 | 0.060 | 4 | 0.050 | 4 |
| 120 | 3.0 | 3 | | | | | 0.100 | 3 | 0.050 | 2 | 0.050 | 4 |
| 121 | 4.0 | 2 | | | | | 0.108 | 4 | | | 0.050 | 4 |
| 122 | 3.0 | 3 | < 0.01 | NR | | | 0.107 | 4 | 0.053 | 3 | 0.046 | 2 |
| 126 | 2.0 | 1 | | | | | 0.094 | 2 | | | | |
| 127 | 2.7 | 3 | < 0.03 | NR | < 0.15 | NR | 0.085 | 1 | 0.056 | 4 | 0.055 | 3 |
| 129 | 3.0 | 2 | 0.000 | NR | | | | | 0.053 | 3 | 0.055 | 3 |
| 133 | 2.0 | 3 | | | | | 0.080 | 0 | 0.073 | 2 | 0.050 | 4 |
| 134 | 3.0 | 5 | 0.033 | 4 | 0.226 | 2 | 0.114 | 4 | 0.070 | 2 | 0.056 | 3 |
| 136 | 3.8 | 5 | 0.024 | 4 | 0.097 | 4 | 0.116 | 4 | 0.059 | 4 | 0.057 | 3 |
| 138 | 3.6 | 5 | 0.021 | 4 | 0.116 | 4 | 0.101 | 3 | 0.057 | 4 | 0.056 | 3 |
| 142 | 2.0 | 5 | 0.006 | 3 | 0.058 | 3 | 0.103 | 3 | 0.032 | 0 | 0.061 | 1 |
| 145 | 4.0 | 5 | 0.020 | 4 | 0.080 | 4 | 0.110 | 4 | 0.060 | 4 | 0.050 | 4 |
| 146 | 4.0 | 2 | | | | | 0.104 | 4 | | | 0.052 | 4 |
| 149 | 0.0 | 2 | < 0.1 | NR | | | 0.040 | 0 | 0.020 | 0 | | |
| 179 | 3.0 | 1 | < 1 | NR | < 2 | NR | | | < 0.18 | NR | 0.056 | 3 |
| 180 | 3.0 | 5 | 0.041 | 3 | 0.100 | 4 | 0.115 | 4 | 0.070 | 2 | 0.059 | 2 |
| 182 | 0.3 | 3 | 0.068 | 1 | | | | | 0.180 | 0 | 0.230 | 0 |
| 183 | 2.8 | 4 | 0.050 | 3 | | | 0.245 | 0 | 0.058 | 4 | 0.054 | 4 |
| 191 | 3.5 | 2 | | | | | 0.104 | 4 | | | 0.048 | 3 |
| 193 | 4.0 | 1 | | | | | 0.110 | 4 | | | | |
| 196 | 4.0 | 1 | | | | | 0.109 | 4 | | | | |
| 197 | 1.0 | 1 | | | | | 0.130 | 1 | | | | |
| 198 | 3.6 | 5 | 0.022 | 4 | 0.240 | 2 | 0.113 | 4 | 0.056 | 4 | 0.051 | 4 |
| 200 | 3.0 | 2 | < 0.02 | NR | | | < 0.20 | NR | 0.050 | 2 | 0.050 | 4 |
| 202 | 2.3 | 4 | < 0.05 | NR | 0.110 | 4 | 0.100 | 3 | 0.045 | 1 | 0.061 | 1 |
| 203 | 3.5 | 4 | 0.010 | 3 | | | 0.109 | 4 | 0.055 | 4 | 0.055 | 3 |
| 204 | 3.2 | 5 | 0.022 | 4 | 0.094 | 4 | 0.126 | 2 | 0.061 | 4 | 0.058 | 2 |
| 212 | 3.0 | 2 | | | | | 0.120 | 3 | 0.067 | 3 | | |
| 213 | 1.5 | 4 | 0.400 | 0 | 0.600 | 0 | | | 0.070 | 2 | 0.050 | 4 |
| 214 | 3.0 | 4 | 0.002 | 3 | 0.037 | 3 | 0.126 | 2 | | | 0.053 | 4 |
| 215 | 2.3 | 3 | 0.090 | 0 | 0.210 | 3 | 0.110 | 4 | | | | |
| 220 | 2.8 | 4 | 0.010 | 3 | | | 0.120 | 3 | 0.066 | 3 | 0.057 | 2 |
| 221 | 2.5 | 4 | 0.000 | NR | 0.200 | 3 | 0.143 | 0 | 0.069 | 3 | 0.050 | 4 |

Table 8. —Laboratory performance ratings for standard reference water sample N-41 (preserved nutrient)

[MPV, most probable value; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/5, number of reported values of 5 values; RV, reported value; <, less than]

| Rating | | Absolute Z-value | | Rating | | Absolute Z-value | | | | | | |
|--|-----|------------------|------|------------------|-------|-------------------|------|--------|------|--------|------|--------|
| 4 (Excellent) | | 0.00-0.50 | | 1 (Questionable) | | 1.51-2.00 | | | | | | |
| 3 (Good) | | 0.51-1.00 | | 0 (Poor) | | greater than 2.00 | | | | | | |
| 2 (Satisfactory) | | 1.01-1.50 | | NR (Not Rated) | | | | | | | | |
| Analyte = NH ₃ as N (Ammonia) | | | | | | | | | | | | |
| MPV = 1.22 mg/L | | | | | | | | | | | | |
| F-pseudosigma = 0.170 | | | | | | | | | | | | |
| Lab | OLR | V/5 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 4.0 | 5 | 1.22 | 4 | 1.67 | 4 | 1.25 | 4 | 1.66 | 4 | 1.18 | 4 |
| 7 | 3.3 | 3 | 1.20 | 4 | | | 1.30 | 3 | 1.73 | 3 | | |
| 11 | 2.2 | 5 | 1.89 | 0 | 1.75 | 4 | 1.27 | 4 | 1.33 | 0 | 1.16 | 3 |
| 15 | 3.0 | 5 | 1.16 | 4 | 1.56 | 3 | 1.04 | 0 | 1.62 | 4 | 1.18 | 4 |
| 29 | 1.5 | 2 | | | | | 1.32 | 3 | | | 1.11 | 0 |
| 36 | 2.6 | 5 | 1.48 | 1 | 2.32 | 2 | 1.33 | 3 | 1.58 | 3 | 1.19 | 4 |
| 42 | 2.3 | 3 | | | | | 1.32 | 3 | 1.25 | 0 | 1.19 | 4 |
| 43 | 4.0 | 1 | | | | | 1.22 | 4 | | | | |
| 45 | 3.3 | 4 | | | 1.67 | 4 | 1.34 | 3 | 1.61 | 4 | 1.21 | 2 |
| 48 | 3.4 | 5 | 1.10 | 3 | 2.20 | 3 | 1.20 | 4 | 1.70 | 3 | 1.17 | 4 |
| 52 | 4.0 | 5 | 1.27 | 4 | 1.70 | 4 | 1.28 | 4 | 1.67 | 4 | 1.17 | 4 |
| 60 | 1.4 | 5 | 1.54 | 1 | 2.08 | 3 | 1.14 | 2 | 1.84 | 1 | 1.29 | 0 |
| 61 | 0.8 | 5 | 1.34 | 3 | 2.73 | 0 | 1.09 | 1 | 1.09 | 0 | 0.84 | 0 |
| 63 | 2.8 | 5 | 0.80 | 0 | 1.90 | 4 | 1.21 | 4 | 1.70 | 3 | 1.20 | 3 |
| 75 | 3.0 | 4 | 1.44 | 2 | | | 1.30 | 3 | 1.64 | 4 | 1.20 | 3 |
| 78 | 2.6 | 5 | 1.30 | 4 | 1.86 | 4 | 1.12 | 2 | 1.53 | 3 | 1.09 | 0 |
| 88 | 1.7 | 3 | 1.14 | 4 | | | 2.89 | 0 | | | 1.24 | 1 |
| 89 | 3.8 | 4 | 1.23 | 4 | 1.83 | 4 | | | 1.72 | 3 | 1.18 | 4 |
| 90 | 3.0 | 4 | 1.22 | 4 | 2.08 | 3 | | | 1.86 | 1 | 1.18 | 4 |
| 93 | 1.0 | 2 | 1.40 | 2 | | | 0.93 | 0 | | | | |
| 97 | 2.7 | 3 | 1.06 | 3 | | | 1.37 | 2 | | | 1.20 | 3 |
| 105 | 2.8 | 5 | 1.82 | 0 | 1.96 | 4 | 1.23 | 4 | 1.60 | 4 | 1.15 | 2 |
| 108 | 2.0 | 5 | 1.20 | 4 | 5.43 | 0 | 1.23 | 4 | 2.75 | 0 | 1.15 | 2 |
| 114 | 2.5 | 2 | 1.41 | 2 | | | | | 1.56 | 3 | | |
| 117 | 1.3 | 3 | | | | | 1.50 | 0 | 1.69 | 4 | 1.30 | 0 |
| 118 | 3.4 | 5 | 1.12 | 3 | 2.20 | 3 | 1.27 | 4 | 1.65 | 4 | 1.20 | 3 |
| 119 | 3.4 | 5 | 1.19 | 4 | 1.72 | 4 | 1.32 | 3 | 1.65 | 4 | 1.15 | 2 |
| 120 | 3.5 | 2 | 1.36 | 3 | 1.86 | 4 | | | | | | |
| 122 | 3.0 | 4 | 1.37 | 3 | | | 1.24 | 4 | 1.46 | 1 | 1.18 | 4 |
| 129 | 3.2 | 5 | 1.09 | 3 | 1.60 | 3 | 1.27 | 4 | 1.50 | 2 | 1.17 | 4 |
| 133 | 0.0 | 2 | 5.60 | 0 | 15.10 | 0 | | | | | | |
| 134 | 4.0 | 5 | 1.15 | 4 | 1.81 | 4 | 1.24 | 4 | 1.69 | 4 | 1.19 | 4 |
| 140 | 2.6 | 5 | 1.21 | 4 | 2.40 | 2 | 0.65 | 0 | 1.56 | 3 | 1.18 | 4 |
| 141 | 3.2 | 5 | 1.16 | 4 | 1.66 | 3 | 1.16 | 3 | 1.59 | 4 | 1.22 | 2 |
| 145 | 2.8 | 5 | 1.26 | 4 | 1.48 | 3 | 1.19 | 3 | 1.64 | 4 | 1.28 | 0 |
| 154 | 1.4 | 5 | 0.98 | 2 | 1.50 | 3 | 1.10 | 1 | 1.43 | 1 | 1.10 | 0 |
| 179 | 0.0 | 3 | <1 | NR | 5.47 | 0 | | | 1.36 | 0 | 1.42 | 0 |
| 220 | 2.8 | 4 | 1.21 | 4 | | | 1.29 | 4 | 1.74 | 3 | 1.26 | 0 |

Table 8. --Laboratory performance ratings for standard reference water sample N-41 (nonpreserved nutrient)--Continued

| Lab | Analyte = NH3 as N (Ammonia) | | | | | NH3 + Org N as N (Ammonia + Organic N) | | | NO3 + NO2 as N (Nitrate + Nitrite) | | | total P as P (total phosphorus) | | | PO4 as P (Orthophosphate as P) | | |
|-----|------------------------------|----|-----------|----|--------|--|--------|----|------------------------------------|----|--------|---------------------------------|--------|----|--------------------------------|--|--|
| | MPV = 0.089 | | 1.22 mg/L | | | 0.152 | | | 1.25 mg/L | | | 0.067 | | | 0.141 | | |
| | F-pseudosigma | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 3 | 2.0 | 5 | 1.63 | 0 | 1.89 | 3 | 1.00 | 0 | 1.69 | 3 | 1.22 | 4 | | | | | |
| 5 | 1.8 | 4 | 1.49 | 0 | | | 1.23 | 4 | 1.79 | 0 | 1.39 | 3 | | | | | |
| 9 | 1.8 | 5 | 1.68 | 0 | 1.94 | 2 | 1.30 | 3 | 1.46 | 0 | 1.30 | 4 | | | | | |
| 10 | 3.8 | 5 | 1.24 | 4 | 1.76 | 4 | 1.24 | 4 | 1.63 | 4 | 1.18 | 3 | | | | | |
| 11 | 2.0 | 5 | 1.68 | 0 | 1.67 | 3 | 1.23 | 4 | 1.47 | 0 | 1.42 | 3 | | | | | |
| 12 | 3.2 | 5 | 1.30 | 3 | 1.60 | 2 | 1.27 | 4 | 1.65 | 4 | 1.39 | 3 | | | | | |
| 13 | 3.0 | 5 | 1.22 | 4 | 1.76 | 4 | 1.24 | 4 | 1.95 | 0 | 1.21 | 3 | | | | | |
| 15 | 2.6 | 5 | 1.21 | 4 | 1.58 | 2 | 0.89 | 0 | 1.84 | 4 | 1.19 | 3 | | | | | |
| 16 | 2.0 | 3 | 1.12 | 2 | 1.68 | 4 | 1.91 | 0 | | | | | | | | | |
| 18 | 3.6 | 5 | 1.20 | 4 | 1.75 | 4 | 1.14 | 2 | 1.62 | 4 | 1.30 | 4 | | | | | |
| 19 | 3.3 | 4 | 1.30 | 3 | | | 1.22 | 4 | 1.59 | 3 | 1.15 | 3 | | | | | |
| 22 | 3.0 | 1 | | | | | | | 1.69 | 3 | | | | | | | |
| 23 | 3.5 | 4 | 1.14 | 3 | 1.84 | 3 | 1.26 | 4 | 1.63 | 4 | | | | | | | |
| 25 | 2.3 | 4 | 1.07 | 1 | | | 1.22 | 4 | 1.60 | 4 | 0.43 | 0 | | | | | |
| 26 | 3.7 | 3 | 1.27 | 3 | | | 1.28 | 4 | | | 1.34 | 4 | | | | | |
| 29 | 3.5 | 2 | | | | | 1.31 | 3 | | | 1.30 | 4 | | | | | |
| 32 | 2.7 | 3 | 1.18 | 4 | | | 1.13 | 1 | | | 1.39 | 3 | | | | | |
| 33 | 2.3 | 3 | 1.36 | 1 | | | 1.30 | 3 | | | 1.21 | 3 | | | | | |
| 36 | 2.0 | 5 | 1.52 | 0 | 2.08 | 0 | 1.31 | 3 | 1.57 | 3 | 1.34 | 4 | | | | | |
| 37 | 3.4 | 5 | 1.26 | 4 | 1.86 | 3 | 1.22 | 4 | 1.69 | 3 | 1.21 | 3 | | | | | |
| 38 | 3.6 | 5 | 1.25 | 4 | 1.73 | 4 | 1.32 | 3 | 1.60 | 4 | 1.20 | 3 | | | | | |
| 42 | 3.0 | 1 | | | | | 1.29 | 3 | | | | | | | | | |
| 45 | 2.3 | 4 | | | 1.94 | 2 | 1.35 | 2 | 1.65 | 4 | 1.52 | 1 | | | | | |
| 46 | 3.8 | 5 | 1.14 | 3 | 1.69 | 4 | 1.22 | 4 | 1.81 | 4 | 1.30 | 4 | | | | | |
| 52 | 3.8 | 5 | 1.26 | 4 | 1.64 | 3 | 1.25 | 4 | 1.65 | 4 | 1.35 | 4 | | | | | |
| 53 | 3.0 | 2 | | | | | 1.36 | 2 | | | 1.36 | 4 | | | | | |
| 55 | 3.0 | 5 | 1.25 | 4 | 1.51 | 1 | 1.29 | 3 | 1.62 | 4 | 1.20 | 3 | | | | | |
| 57 | 0.6 | 5 | 1.15 | 3 | 2.60 | 0 | 1.09 | 0 | 2.10 | 0 | 1.83 | 0 | | | | | |
| 58 | 1.3 | 4 | 1.09 | 2 | 1.13 | 0 | 1.35 | 2 | | | 1.53 | 1 | | | | | |
| 59 | 3.8 | 5 | 1.22 | 4 | 1.70 | 4 | 1.28 | 4 | 1.60 | 4 | 1.20 | 3 | | | | | |
| 60 | 1.0 | 5 | 1.67 | 0 | 2.08 | 1 | 1.14 | 2 | 1.66 | 0 | 1.50 | 2 | | | | | |
| 63 | 2.6 | 5 | 1.10 | 2 | 2.00 | 1 | 1.21 | 3 | 1.60 | 4 | 1.20 | 3 | | | | | |
| 68 | 1.5 | 2 | 0.55 | 0 | | | 1.18 | 3 | | | | | | | | | |
| 69 | 4.0 | 1 | | | | | 1.26 | 4 | | | | | | | | | |
| 70 | 1.6 | 5 | 1.20 | 4 | 1.46 | 1 | 1.09 | 0 | 1.49 | 0 | 1.40 | 3 | | | | | |
| 72 | 3.0 | 5 | 1.18 | 3 | 1.75 | 4 | 1.26 | 4 | 1.50 | 1 | 1.40 | 3 | | | | | |
| 76 | 3.5 | 2 | 1.19 | 4 | | | 1.18 | 3 | | | | | | | | | |
| 78 | 2.2 | 5 | 1.30 | 3 | 2.11 | 0 | 1.22 | 4 | 1.81 | 0 | 1.28 | 4 | | | | | |
| 79 | 4.0 | 2 | | | 1.80 | 4 | | | 1.60 | 4 | | | | | | | |
| 80 | 2.7 | 3 | 1.34 | 2 | | | 1.35 | 2 | | | 1.36 | 4 | | | | | |
| 81 | 1.6 | 5 | 1.58 | 0 | 1.55 | 2 | 1.25 | 4 | 1.95 | 0 | 1.46 | 2 | | | | | |
| 83 | 1.3 | 3 | 1.00 | 0 | | | 1.04 | 0 | | | 1.32 | 4 | | | | | |
| 84 | 4.0 | 2 | 1.24 | 4 | | | 1.22 | 4 | | | | | | | | | |
| 85 | 3.4 | 5 | 1.17 | 3 | 1.80 | 4 | 1.26 | 4 | 1.58 | 3 | 1.20 | 3 | | | | | |
| 87 | 3.0 | 5 | 1.23 | 4 | 1.84 | 3 | 1.32 | 3 | 1.72 | 2 | 1.19 | 3 | | | | | |
| 88 | 2.3 | 3 | 1.15 | 3 | | | 2.88 | 0 | | | 1.26 | 4 | | | | | |
| 89 | 3.6 | 5 | 1.22 | 4 | 1.67 | 3 | 1.23 | 4 | 1.65 | 4 | 1.20 | 3 | | | | | |
| 90 | 4.0 | 1 | | | | | 1.26 | 4 | | | | | | | | | |
| 91 | 2.8 | 4 | 1.25 | 4 | 1.81 | 4 | 1.08 | 0 | 1.68 | 3 | | | | | | | |
| 94 | 3.8 | 4 | 1.23 | 4 | 1.71 | 4 | 1.21 | 3 | 1.66 | 4 | | | | | | | |
| 96 | 4.0 | 5 | 1.19 | 4 | 1.71 | 4 | 1.28 | 4 | 1.65 | 4 | 1.29 | 4 | | | | | |
| 97 | 2.7 | 3 | 1.18 | 3 | | | 1.36 | 2 | | | 1.20 | 3 | | | | | |
| 102 | 2.6 | 5 | 1.12 | 2 | 1.51 | 1 | 1.20 | 3 | 1.64 | 4 | 1.15 | 3 | | | | | |
| 104 | 3.5 | 2 | 1.25 | 4 | | | 1.20 | 3 | | | | | | | | | |
| 111 | 1.7 | 3 | 1.37 | 1 | | | | | 1.98 | 0 | 1.32 | 4 | | | | | |
| 112 | 0.0 | 1 | | | | | 0.03 | 0 | | | | | | | | | |
| 114 | 1.5 | 2 | 1.50 | 0 | | | | | 1.58 | 3 | | | | | | | |
| 117 | 1.3 | 3 | | | | | 1.39 | 1 | 1.47 | 0 | 1.43 | 3 | | | | | |
| 118 | 3.6 | 5 | 1.09 | 2 | 1.83 | 4 | 1.23 | 4 | 1.63 | 4 | 1.22 | 4 | | | | | |
| 119 | 3.8 | 5 | 1.19 | 4 | 1.68 | 4 | 1.30 | 3 | 1.65 | 4 | 1.20 | 3 | | | | | |
| 120 | 3.7 | 3 | | | | | 1.21 | 3 | 1.66 | 4 | 1.28 | 4 | | | | | |
| 122 | 2.0 | 4 | 1.08 | 1 | | | 1.22 | 4 | 1.44 | 0 | 1.39 | 3 | | | | | |
| 127 | 4.0 | 5 | 1.23 | 4 | 1.72 | 4 | 1.28 | 4 | 1.63 | 4 | 1.27 | 4 | | | | | |
| 128 | 3.2 | 5 | 1.21 | 4 | 1.93 | 2 | 1.23 | 4 | 1.55 | 2 | 1.34 | 4 | | | | | |
| 129 | 3.0 | 5 | 1.11 | 2 | 1.59 | 2 | 1.22 | 4 | 1.68 | 3 | 1.34 | 4 | | | | | |
| 133 | 0.7 | 3 | | | | | 1.48 | 0 | 1.71 | 2 | 1.63 | 0 | | | | | |
| 134 | 3.4 | 5 | 1.14 | 3 | 1.80 | 4 | 1.25 | 4 | 1.68 | 3 | 1.20 | 3 | | | | | |
| 136 | 3.8 | 5 | 1.16 | 3 | 1.69 | 4 | 1.25 | 4 | 1.66 | 4 | 1.21 | 3 | | | | | |
| 138 | 3.2 | 5 | 1.22 | 4 | 1.68 | 4 | 1.15 | 2 | 1.59 | 3 | 1.20 | 3 | | | | | |
| 142 | 2.6 | 5 | 1.28 | 3 | 1.84 | 3 | 1.29 | 3 | 1.43 | 0 | 1.28 | 4 | | | | | |
| 145 | 3.0 | 5 | 1.20 | 4 | 1.46 | 1 | 1.20 | 3 | 1.67 | 3 | 1.27 | 4 | | | | | |
| 146 | 2.0 | 2 | | | | | 1.66 | 0 | | | 1.22 | 4 | | | | | |
| 149 | 1.7 | 3 | 1.16 | 3 | | | 1.07 | 0 | 1.53 | 2 | | | | | | | |
| 179 | 0.5 | 4 | <1 | 0 | 2.62 | 0 | | | 1.38 | 0 | 1.44 | 2 | | | | | |
| 180 | 3.8 | 5 | 1.23 | 4 | 1.71 | 4 | 1.22 | 4 | 1.61 | 4 | 1.21 | 3 | | | | | |
| 182 | 0.7 | 3 | 0.49 | 0 | | | | | 1.72 | 2 | 0.08 | 0 | | | | | |
| 183 | 2.0 | 4 | 1.20 | 4 | | | 1.00 | 0 | 1.49 | 0 | 1.24 | 4 | | | | | |
| 191 | 3.5 | 2 | | | | | 1.21 | 3 | | | 1.30 | 4 | | | | | |
| 193 | 3.0 | 1 | | | | | 1.18 | 3 | | | | | | | | | |
| 196 | 3.5 | 2 | | | | | 1.30 | 3 | | | 1.32 | 4 | | | | | |
| 197 | 2.3 | 3 | 1.19 | 4 | | | 1.56 | 0 | | | 1.37 | 3 | | | | | |
| 198 | 2.0 | 5 | 1.20 | 4 | 2.05 | 1 | 1.30 | 3 | 1.25 | 0 | 1.10 | 2 | | | | | |
| 200 | 1.7 | 3 | 1.41 | 0 | | | 1.10 | 1 | 1.66 | 4 | | | | | | | |
| 202 | 2.8 | 5 | 1.28 | 3 | 1.81 | 4 | 1.17 | 2 | 1.56 | 2 | 1.20 | 3 | | | | | |
| 205 | 3.5 | 2 | 1.29 | 3 | | | 1.28 | 4 | | | | | | | | | |
| 208 | 4.0 | 1 | | | | | 1.26 | 4 | | | | | | | | | |
| 211 | 2.8 | 5 | 1.28 | 3 | 1.58 | 2 | 1.31 | 3 | 1.60 | 4 | 1.53 | 1 | | | | | |
| 212 | 1.8 | 4 | 2.00 | 0 | | | 1.30 | 3 | 1.60 | 4 | 1.60 | 0 | | | | | |
| 213 | 2.3 | 4 | 1.20 | 4 | 1.40 | 0 | | | 1.72 | 2 | 1.41 | 3 | | | | | |
| 215 | 2.7 | 3 | 1.21 | 4 | 2.09 | 0 | 1.28 | 4 | | | | | | | | | |
| 220 | 3.5 | 4 | 1.18 | 4 | | | 1.25 | 4 | 1.72 | 2 | 1.25 | 4 | | | | | |
| 221 | 2.0 | 5 | 1.30 | 3 | 2.20 | 0 | 1.18 | 2 | 1.72 | 2 | 1.39 | 3 | | | | | |

Table 9. —Laboratory performance ratings for standard reference water sample P-21 (low ionic strength)

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/11, number of reported values of 11 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| Analyte = | | Acidity as CaCO ₃ | | | Ca (Calcium) | | Cl (Chloride) | | F (Fluoride) | | K (Potassium) | | Mg (Magnesium) | |
|------------------|-----|------------------------------|--------|----|--------------|----|---------------|----|--------------|----|---------------|----|----------------|----|
| F-pseudostigma = | | MPV = | mg/L | | 0.45 mg/L | | 3.90 mg/L | | 0.03 mg/L | | 0.088 mg/L | | 0.055 mg/L | |
| Lab | | OLR | V/11 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | |
| 1 | 3.1 | 11 | 6.23 | 4 | 0.45 | 4 | 4.11 | 3 | 0.14 | 0 | 0.094 | 4 | 0.058 | 4 |
| 2 | 3.7 | 3 | 4.92 | 3 | | | | | | | | | | |
| 3 | 2.8 | 11 | 15.10 | 2 | 0.45 | 4 | 3.83 | 4 | 0.02 | 4 | < 0.01 | 0 | 0.040 | 1 |
| 5 | 1.8 | 6 | < 4.5 | NR | 0.45 | 4 | 5.03 | 0 | | | < 1 | NR | 0.058 | 4 |
| 7 | 2.7 | 3 | | | | | 3.26 | 1 | < 0.5 | NR | | | | |
| 8 | 3.4 | 7 | | | 0.45 | 4 | 3.80 | 4 | < 0.05 | NR | < 0.5 | NR | 0.050 | 3 |
| 15 | 2.3 | 10 | 13.00 | 2 | 0.43 | 3 | 3.50 | 2 | 0.03 | 4 | 0.079 | 3 | 0.059 | 3 |
| 23 | 2.3 | 9 | | | 0.65 | 0 | 3.43 | 2 | 0.03 | 4 | 0.086 | 4 | 0.073 | 0 |
| 26 | 3.0 | 9 | | | 0.48 | 3 | 3.90 | 4 | 0.07 | 3 | 0.070 | 2 | 0.060 | 3 |
| 32 | 3.0 | 5 | 6.17 | 4 | | | 3.84 | 4 | < 0.02 | NR | | | | |
| 33 | 3.3 | 9 | | | 0.46 | 4 | 3.96 | 4 | 0.11 | 1 | 0.100 | 3 | 0.050 | 3 |
| 36 | 2.8 | 11 | 8.03 | 4 | 0.38 | 1 | 3.97 | 4 | 0.02 | 4 | 0.085 | 4 | 0.064 | 2 |
| 38 | 3.0 | 7 | | | 0.44 | 4 | | | | | 0.090 | 4 | 0.057 | 4 |
| 39 | 1.3 | 7 | | | 0.47 | 4 | 64.00 | 0 | 0.71 | 0 | < 1 | NR | 0.093 | 0 |
| 44 | 3.0 | 6 | | | 0.45 | 4 | 3.41 | 2 | | | 0.120 | 1 | 0.050 | 3 |
| 46 | 2.9 | 9 | | | 0.46 | 4 | 4.00 | 4 | 0.01 | 4 | 0.007 | 0 | 0.052 | 4 |
| 48 | 1.3 | 9 | | | 0.50 | 2 | 4.00 | 4 | | | 0.360 | 0 | 0.030 | 0 |
| 52 | 3.8 | 5 | 7.68 | 4 | < 0.6 | NR | 3.99 | 4 | < 0.05 | NR | < 0.2 | NR | 0.056 | 4 |
| 58 | 2.8 | 5 | | | 0.45 | 4 | 4.03 | 4 | 0.03 | 4 | | | | |
| 61 | 1.8 | 6 | 4.50 | 3 | 0.45 | 4 | 3.00 | 0 | 0.02 | 4 | < 1 | NR | < 1 | NR |
| 62 | 3.5 | 2 | | | | | | | | | | | | |
| 63 | 2.2 | 6 | < 1 | NR | 0.61 | 0 | 4.00 | 4 | < 0.2 | NR | < 5 | NR | < 0.50 | NR |
| 64 | 3.6 | 9 | | | 0.44 | 4 | 3.87 | 4 | | | 0.080 | 4 | 0.050 | 3 |
| 78 | 2.6 | 9 | < 1 | NR | 0.51 | 2 | 3.50 | 2 | 0.06 | 3 | 0.100 | 3 | 0.080 | 0 |
| 89 | 2.7 | 11 | 7.82 | 4 | 0.30 | 0 | 3.68 | 3 | 0.03 | 4 | 0.062 | 1 | 0.053 | 4 |
| 93 | 2.9 | 9 | | | 10.95 | 0 | 4.08 | 3 | 0.02 | 4 | 0.096 | 4 | 0.000 | 0 |
| 105 | 3.8 | 8 | 9.40 | 4 | 0.47 | 4 | 3.94 | 4 | < 0.2 | NR | 0.094 | 4 | 0.060 | 3 |
| 107 | 3.0 | 4 | | | | | 8.40 | 0 | 0.03 | 4 | | | | |
| 110 | 4.0 | 3 | | | | | 3.83 | 4 | | | | | | |
| 112 | 2.9 | 7 | | | 0.41 | 2 | 1.98 | 0 | | | 0.081 | 4 | 0.051 | 3 |
| 117 | 1.9 | 7 | | | 7.30 | 0 | 3.34 | 1 | 0.08 | 2 | 0.100 | 3 | 0.070 | 1 |
| 127 | 3.8 | 9 | 9.13 | 4 | 0.46 | 4 | 3.74 | 4 | 0.04 | 4 | 0.097 | 3 | < 0.06 | NR |
| 134 | 3.6 | 8 | | | 0.46 | 4 | 4.15 | 3 | < 0.1 | NR | 0.085 | 4 | 0.050 | 3 |
| 136 | 1.4 | 5 | | | 0.92 | 0 | | | | | | | 0.000 | 0 |
| 138 | 3.3 | 7 | | | 0.49 | 3 | 3.61 | 3 | 0.02 | 4 | 0.107 | 2 | 0.055 | 4 |
| 140 | 2.7 | 9 | | | 0.50 | 2 | 3.78 | 4 | 0.04 | 4 | 0.140 | 0 | 0.060 | 3 |
| 141 | 2.4 | 8 | 16.00 | 1 | 0.48 | 3 | 3.00 | 0 | < 0.1 | NR | 0.097 | 3 | 0.055 | 4 |
| 145 | 3.0 | 7 | 7.00 | 4 | 0.43 | 3 | 3.93 | 4 | < 0.2 | NR | < 0.71 | NR | < 0.19 | NR |
| 158 | 1.9 | 9 | 116.40 | 0 | 0.13 | 0 | 5.21 | 0 | 0.17 | 0 | 0.070 | 2 | | |
| 182 | 0.3 | 9 | | | 0.80 | 0 | 10.00 | 0 | | | 0.045 | 0 | 0.100 | 0 |
| 183 | 2.0 | 4 | | | | | 5.10 | 0 | 0.10 | 1 | | | | |
| 185 | 3.9 | 8 | | | 0.45 | 4 | 3.94 | 4 | | | 0.078 | 3 | 0.052 | 4 |
| 190 | 2.0 | 7 | | | 0.26 | 0 | | | 0.02 | 4 | 0.110 | 2 | 0.042 | 1 |
| 196 | 3.8 | 6 | | | 0.44 | 4 | 4.07 | 4 | | | 0.074 | 3 | 0.053 | 4 |
| 197 | 1.8 | 4 | | | | | 3.60 | 3 | | | | | | |
| 202 | 3.0 | 2 | | | | | | | | | | | | |
| 203 | 1.0 | 3 | | | | | 2.90 | 0 | | | | | | |
| 204 | 2.7 | 9 | | | 0.35 | 0 | 4.00 | 4 | | | 0.084 | 4 | 0.050 | 3 |
| 212 | 2.0 | 6 | | | 0.46 | 4 | 3.30 | 1 | | | | | 0.064 | 2 |

Table 9. —Laboratory performance ratings for standard reference water sample P-21 (low ionic strength)

—Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| F-pseudosigma = | Analyte = Na (Sodium) | | pH | | PO4 as P | | SO4 (Sulfate) | | Specific Conductance | |
|-----------------|-----------------------|--------|-------|--------|----------|--------|---------------|--------|----------------------|--------|
| | MPV = | mg/L | RV | Rating | RV | Rating | RV | Rating | RV | μ S/cm |
| | 0.117 | | 4.06 | | 0.005 | | 0.50 | | 41.8 | |
| | 0.019 | | 0.059 | | 0.0059 | | 0.491 | | 4.23 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 0.128 | 3 | 4.07 | 4 | 0.027 | 0 | 0.51 | 4 | 43.0 | 4 |
| 2 | | | 4.06 | 4 | | | | | 41.9 | 4 |
| 3 | 0.100 | 3 | 4.06 | 4 | 0.006 | 4 | 1.44 | 1 | 42.3 | 4 |
| 5 | 0.185 | 0 | 4.00 | 2 | | | < 5 | NR | 34.8 | 1 |
| 7 | | | 4.06 | 4 | < 0.2 | NR | < 0.5 | NR | 44.1 | 3 |
| 8 | 0.100 | 3 | 4.13 | 2 | < 0.1 | NR | 0.50 | 4 | 43.0 | 4 |
| 15 | 0.347 | 0 | 3.22 | 0 | < 0.02 | NR | 0.50 | 4 | 46.7 | 2 |
| 23 | 0.110 | 4 | 4.11 | 3 | < 0.01 | NR | 1.80 | 0 | 42.8 | 4 |
| 26 | 0.120 | 4 | 3.90 | 0 | < 0.5 | NR | 0.39 | 4 | 40.0 | 4 |
| 32 | | | 4.10 | 3 | < 0.007 | NR | 0.43 | 4 | 32.7 | 0 |
| 33 | 0.110 | 4 | 4.09 | 3 | < 0.01 | NR | 0.40 | 4 | 41.3 | 4 |
| 36 | 0.156 | 1 | 4.02 | 3 | 0.000 | 3 | 0.00 | 2 | 45.6 | 3 |
| 38 | 0.100 | 3 | 4.20 | 0 | 0.001 | 3 | | | 46.0 | 3 |
| 39 | 0.081 | 1 | 8.08 | 0 | < 0.005 | NR | 0.44 | 4 | | |
| 44 | 0.120 | 4 | | | | | 0.59 | 4 | | |
| 46 | 0.104 | 3 | 4.21 | 0 | < 0.002 | NR | 0.46 | 4 | 44.8 | 3 |
| 48 | 0.240 | 0 | 4.30 | 0 | 0.052 | 0 | 1.00 | 2 | 43.2 | 4 |
| 52 | < 0.4 | NR | 4.07 | 4 | < 0.005 | NR | < 10 | NR | 39.1 | 3 |
| 58 | | | 3.99 | 2 | | | | | 31.9 | 0 |
| 61 | < 1 | NR | 5.20 | 0 | < 0.04 | NR | < 3 | NR | 4.2 | 0 |
| 62 | | | 4.10 | 3 | | | | | 43.9 | 4 |
| 63 | 1.030 | 0 | 4.10 | 3 | < 0.01 | NR | 1.20 | 2 | 43.8 | 4 |
| 64 | 0.100 | 3 | 4.06 | 4 | 0.002 | 3 | 0.40 | 4 | 37.6 | 3 |
| 78 | 0.100 | 3 | 4.05 | 4 | 0.003 | 4 | < 1 | NR | 36.5 | 2 |
| 89 | 0.105 | 3 | 4.09 | 3 | 0.002 | 3 | 1.46 | 1 | 41.8 | 4 |
| 93 | 0.109 | 4 | 4.08 | 4 | | | 0.81 | 3 | 43.6 | 4 |
| 105 | 0.120 | 4 | 4.06 | 4 | < 0.002 | NR | < 1 | NR | 38.0 | 3 |
| 107 | | | 4.04 | 4 | < 0.005 | NR | | | 42.0 | 4 |
| 110 | | | 4.08 | 4 | | | 0.46 | 4 | | |
| 112 | 0.101 | 3 | 4.08 | 4 | | | 0.58 | 4 | | |
| 117 | 0.120 | 4 | | | < 0.001 | NR | < 0.1 | NR | 37.5 | 2 |
| 127 | 0.109 | 4 | 4.02 | 3 | < 0.02 | NR | 0.66 | 4 | 40.1 | 4 |
| 134 | 0.116 | 4 | 4.06 | 4 | < 0.01 | NR | 0.44 | 4 | 44.0 | 3 |
| 136 | | | 3.60 | 0 | 0.001 | 3 | | | 40.5 | 4 |
| 138 | < 0.2 | NR | 4.02 | 3 | < 0.01 | NR | 0.47 | 4 | | |
| 140 | 0.120 | 4 | 4.02 | 3 | < .01 | NR | 2.00 | 0 | 40.0 | 4 |
| 141 | 0.125 | 4 | 4.05 | 4 | < 0.05 | NR | < 10 | NR | 29.0 | 0 |
| 145 | < 0.18 | NR | 3.60 | 0 | 0.010 | 3 | 0.33 | 4 | 39.0 | 3 |
| 158 | 0.100 | 3 | 4.04 | 4 | | | 0.31 | 4 | 43.9 | 4 |
| 182 | 0.500 | 0 | 4.10 | 3 | 0.900 | 0 | 2.00 | 0 | 23.0 | 0 |
| 183 | | | 4.02 | 3 | | | | | 40.0 | 4 |
| 185 | 0.117 | 4 | 4.04 | 4 | | | 0.72 | 4 | 42.2 | 4 |
| 190 | 0.080 | 1 | 4.00 | 2 | | | | | 43.3 | 4 |
| 196 | 0.120 | 4 | | | | | 0.49 | 4 | | |
| 197 | | | 4.22 | 0 | | | 0.44 | 4 | 56.4 | 0 |
| 202 | | | 4.02 | 3 | < 0.005 | NR | | | 38.0 | 3 |
| 203 | | | 4.10 | 3 | < 0.005 | NR | < 1 | NR | 3.4 | 0 |
| 204 | 0.140 | 2 | 4.06 | 4 | 0.001 | 3 | 1.26 | 1 | 39.0 | 3 |
| 212 | | | 4.00 | 2 | | | 1.30 | 1 | 46.1 | 2 |

Table 10. –Laboratory performance ratings for standard reference water sample Hg-17 (mercury)

[MPV, most probable value; ug/L, microgram per liter; Lab, laboratory number; V/1, number of reported values of 1 value; RV, reported value]

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

Analyte = Hg (Mercury)

MPV = 1.55 μ g/L

F-pseudosigma = 0.311

| Lab | V/1 | RV | Rating |
|-----|-----|-------|--------|
| 1 | | 1.50 | 4 |
| 3 | | 8.80 | 0 |
| 7 | | 1.80 | 3 |
| 8 | | 1.10 | 2 |
| 11 | | 1.21 | 2 |
| 12 | | 1.50 | 4 |
| 13 | | 1.44 | 4 |
| 15 | | 1.37 | 3 |
| 16 | | 0.17 | 0 |
| 18 | | 1.38 | 3 |
| 24 | | 2.00 | 2 |
| 29 | | 2.20 | 0 |
| 32 | | 1.48 | 4 |
| 34 | | 1.44 | 4 |
| 36 | | 1.32 | 3 |
| 39 | | 1.60 | 4 |
| 42 | | 1.32 | 3 |
| 45 | | 1.36 | 3 |
| 46 | | 1.23 | 2 |
| 48 | | 1.35 | 3 |
| 50 | | 1.60 | 4 |
| 51 | | 1.44 | 4 |
| 52 | | 1.48 | 4 |
| 55 | | 1.73 | 3 |
| 58 | | 1.43 | 4 |
| 59 | | 1.43 | 4 |
| 60 | | 1.80 | 3 |
| 61 | | 2.15 | 1 |
| 63 | | 1.92 | 2 |
| 68 | | 1.49 | 4 |
| 69 | | 1.41 | 4 |
| 70 | | 1.53 | 4 |
| 75 | | 1.39 | 3 |
| 79 | | 71900 | 0 |
| 86 | | 3.00 | 0 |
| 87 | | 1.60 | 4 |
| 89 | | 2.04 | 1 |
| 96 | | 2.30 | 0 |
| 97 | | 1.38 | 3 |
| 105 | | 1.66 | 4 |
| 108 | | 1.97 | 2 |
| 109 | | 1.02 | 1 |
| 117 | | 2.04 | 1 |
| 118 | | 1.70 | 4 |
| 119 | | 1.80 | 3 |
| 120 | | 1.83 | 3 |
| 122 | | 1.29 | 3 |
| 127 | | 1.37 | 3 |
| 128 | | 1.73 | 3 |
| 133 | | 1.57 | 4 |
| 138 | | 1.59 | 4 |
| 141 | | 1.47 | 4 |
| 142 | | 1.35 | 3 |
| 144 | | 2.06 | 1 |
| 145 | | 1.33 | 3 |
| 146 | | 1.92 | 2 |
| 149 | | 1.76 | 3 |
| 158 | | 1.27 | 3 |
| 179 | | 1.20 | 2 |
| 180 | | 1.80 | 3 |

| Lab | V/1 | RV | Rating |
|-----|-----|------|--------|
| 182 | | 2.50 | 0 |
| 194 | | 1.64 | 4 |
| 198 | | 1.59 | 4 |
| 202 | | 1.60 | 4 |
| 210 | | 2.00 | 2 |
| 211 | | 1.80 | 3 |
| 213 | | 1.50 | 4 |
| 219 | | 1.50 | 4 |
| 220 | | 1.70 | 4 |
| 221 | | 1.33 | 3 |

Table 11. —Laboratory performance ratings for standard reference water sample AMW-3 (acid mine water)

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/11, number of reported values of 11 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | Al (Aluminum) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | | | |
|-----------------------|-----|---------------|-------|--------------|-------|-----------|-------|-------------|-------|----------------|-------|--------|------|---|
| MPV = 0.8 | | 21000 | | 72.5 | | 153 | | 4.5 | | 12.0 | | | | |
| F-pseudosigma = 3.85 | | 1309 | | 12.90 | | 87.5 | | 3.34 | | 1.48 | | | | |
| Lab | OLR | V/24 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 1 | 3.3 | 23 | < 1 | NR | 18910 | 1 | 72.5 | 4 | 98 | 3 | 3.5 | 4 | 12.5 | 4 |
| 3 | 3.5 | 23 | 1.0 | 4 | 20500 | 4 | 78.1 | 4 | 100 | 3 | 3.0 | 4 | 12.0 | 4 |
| 4 | 1.7 | 16 | | | 15000 | 0 | | | 166 | 4 | 3.0 | 4 | | |
| 7 | 2.7 | 18 | < 0.2 | NR | 21700 | 3 | < 1 | 0 | | | 5.6 | 4 | 12.5 | 4 |
| 8 | 2.8 | 21 | 6.0 | 2 | 21500 | 4 | 52.0 | 1 | < 10 | NR | 5.0 | 4 | 11.0 | 3 |
| 11 | 2.8 | 18 | | | 20800 | 4 | 130.0 | 0 | 216 | 3 | | | 11.0 | 3 |
| 15 | 2.8 | 21 | | | 22800 | 2 | 63.4 | 3 | 112 | 4 | < 10 | NR | 17.6 | 0 |
| 18 | 3.2 | 20 | < 3 | NR | 20254 | 3 | 69.7 | 4 | 42 | 2 | < 5 | NR | 12.0 | 4 |
| 32 | 2.9 | 23 | < 0.1 | NR | 19300 | 2 | 90.0 | 2 | 21 | 1 | 3.1 | 4 | 11.0 | 3 |
| 36 | 2.8 | 21 | 0.0 | 4 | 22900 | 2 | 66.5 | 4 | 190 | 4 | 366.0 | 0 | 10.8 | 3 |
| 37 | 2.4 | 12 | | | 20100 | 3 | | | | | | | 7.0 | 0 |
| 42 | 3.6 | 18 | | | 21400 | 4 | | | | | 3.8 | 4 | | |
| 48 | 2.1 | 20 | 0.2 | 4 | 23200 | 1 | 80.7 | 3 | 180 | 4 | 5.9 | 4 | 12.8 | 3 |
| 52 | 2.8 | 20 | 5.2 | 2 | 19700 | 3 | 60.1 | 3 | < 300 | NR | < 11 | NR | 13.9 | 2 |
| 58 | 1.7 | 19 | 14.2 | 0 | 48700 | 0 | 241.0 | 0 | | | 6.6 | 3 | 26.7 | 0 |
| 59 | 3.1 | 16 | | | 21000 | 4 | 70.0 | 4 | | | < 10 | NR | 11.0 | 3 |
| 61 | 2.6 | 19 | 7.4 | 1 | 21935 | 3 | 81.5 | 3 | 153 | 4 | 2.6 | 3 | 12.4 | 4 |
| 63 | 2.1 | 20 | < 0.5 | NR | 21700 | 3 | 80.0 | 3 | | | < 50 | NR | 12.0 | 4 |
| 84 | 2.2 | 14 | 21.0 | 0 | | | 82.0 | 3 | | | 140.0 | 0 | | |
| 85 | 3.2 | 18 | < 5 | NR | 21400 | 4 | 72.0 | 4 | 271 | 2 | < 5 | NR | 11.2 | 3 |
| 89 | 2.6 | 18 | 1.7 | 4 | 7940 | 0 | 42.7 | 0 | | | 140.0 | 0 | | |
| 94 | 3.3 | 20 | < 5 | NR | 19768 | 3 | 67.9 | 4 | 15 | 1 | 4.0 | 4 | 11.0 | 3 |
| 105 | 3.1 | 23 | 0.1 | 4 | 21900 | 3 | 79.0 | 4 | | | 3.9 | 4 | 11.6 | 4 |
| 116 | 3.2 | 9 | | | | | | | 266 | 2 | < 1 | NR | | |
| 117 | 1.4 | 16 | 2.3 | 4 | | | 178.0 | 0 | | | 24.0 | 0 | 13.4 | 3 |
| 119 | 3.1 | 20 | 0.2 | 4 | 21000 | 4 | 79.0 | 4 | 220 | 3 | 8.0 | 2 | 14.4 | 1 |
| 127 | 3.3 | 23 | < 1 | NR | 20400 | 4 | 64.1 | 3 | 19 | 1 | 3.7 | 4 | 11.7 | 4 |
| 141 | 2.7 | 20 | 23.0 | 0 | 21354 | 4 | 111.0 | 0 | 144 | 4 | < 10 | NR | 11.5 | 4 |
| 194 | 2.8 | 17 | < 1 | NR | 20700 | 4 | 61.5 | 3 | 380 | 0 | < 100 | NR | 13.0 | 3 |
| 202 | 2.9 | 17 | 0.0 | 4 | 21300 | 4 | 1.5 | 0 | | | | | 12.4 | 4 |
| 210 | 1.3 | 19 | 0.2 | 4 | 19000 | 1 | < 50 | NR | < 100 | NR | < 50 | NR | 24.0 | 0 |

Table 11. —Laboratory performance ratings for standard reference water sample AMW-3 (acid mine water)
—Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| F-pseudosigma = | Ca (Calcium) | | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | |
|-----------------|--------------|------|--------------|--------|-------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|-------|--------|
| | MPV = | mg/L | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | mg/L | |
| | 320 | | 121 | | 133 | | 11.0 | | 4670 | | 142650 | | 3.50 | | |
| | 18.4 | | 11.3 | | 13.3 | | 5.88 | | 267 | | 9859 | | 0.415 | | |
| | Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 1 | 320 | 4 | 124 | 4 | 107 | 1 | 6.4 | 3 | 4491 | 3 | 138950 | 4 | 3.25 | 3 |
| | 3 | 356 | 1 | 99 | 1 | 120 | 3 | 10.0 | 4 | 4680 | 4 | 142000 | 4 | 3.37 | 4 |
| | 4 | 237 | 0 | | | | | 4000.0 | 0 | 6400 | 0 | 133000 | 3 | | |
| | 7 | 338 | 3 | 130 | 3 | 143 | 3 | < 8 | NR | 4840 | 3 | 149000 | 3 | 4.20 | 1 |
| | 8 | 327 | 4 | 121 | 4 | 132 | 4 | 33.0 | 0 | 4610 | 4 | 143000 | 4 | 3.80 | 3 |
| | 11 | 330 | 3 | 127 | 3 | 133 | 4 | | | 4710 | 4 | 141 | 0 | 3.35 | 4 |
| | 15 | 298 | 2 | 136 | 2 | 116 | 2 | 8.6 | 4 | 4520 | 3 | 152000 | 3 | 3.67 | 4 |
| | 18 | 312 | 4 | 121 | 4 | 133 | 4 | 24.0 | 0 | 4564 | 4 | 137800 | 4 | 3.17 | 3 |
| | 32 | 318 | 4 | 116 | 4 | 132 | 4 | 8.3 | 4 | 4480 | 3 | 148000 | 3 | 4.14 | 1 |
| | 36 | 239 | 0 | 114 | 3 | 120 | 3 | 12.8 | 4 | 4630 | 4 | 139000 | 4 | 3.16 | 3 |
| | 37 | 376 | 0 | | | | | 8.2 | 4 | 4850 | 3 | 94400 | 0 | 3.44 | 4 |
| | 42 | 310 | 3 | 111 | 3 | 128 | 4 | | | 4900 | 3 | 145600 | 4 | 3.50 | 4 |
| | 48 | 273 | 0 | 157 | 0 | 140 | 3 | 10.7 | 4 | 5040 | 2 | 155000 | 2 | 3.76 | 3 |
| | 52 | 332 | 3 | 108 | 2 | 136 | 4 | 7.7 | 3 | 4300 | 2 | 144000 | 4 | 3.41 | 4 |
| | 58 | 288 | 1 | 111 | 3 | 110 | 1 | 13.2 | 4 | 4300 | 2 | 130000 | 2 | 3.43 | 4 |
| | 59 | 310 | 3 | 124 | 4 | | | 17.0 | 2 | 4800 | 4 | 138000 | 4 | 3.90 | 3 |
| | 61 | 314 | 4 | 130 | 3 | 153 | 2 | 10.3 | 4 | 4996 | 2 | 142650 | 4 | 4.887 | 0 |
| | 63 | 333 | 3 | 123 | 4 | 139 | 4 | 31.0 | 0 | 4820 | 3 | 174000 | 0 | 4.40 | 0 |
| | 84 | 313 | 4 | 107 | 2 | | | < 10 | NR | 4450 | 3 | 151000 | 3 | 3.20 | 3 |
| | 85 | 320 | 4 | 110 | 3 | 135 | 4 | < 20 | NR | 4680 | 4 | 140000 | 4 | 3.90 | 3 |
| | 89 | 339 | 2 | 115 | 4 | 135 | 4 | 12.5 | 4 | 4320 | 2 | 158000 | 1 | 3.56 | 4 |
| | 94 | 307 | 3 | 110 | 3 | 124 | 3 | 14.0 | 3 | 4409 | 3 | 129940 | 2 | 3.34 | 4 |
| | 105 | 321 | 4 | 108 | 2 | 138 | 4 | 7.7 | 3 | 4850 | 3 | 134000 | 3 | 3.62 | 4 |
| | 116 | 343 | 2 | | | | | | | | | 153000 | 2 | | |
| | 117 | 351 | 1 | 23 | 0 | | | 10.5 | 4 | 4261 | 1 | 105300 | 0 | 3.11 | 3 |
| | 119 | 328 | 4 | 127 | 3 | | | 8.6 | 4 | 4620 | 4 | 156000 | 2 | 3.80 | 3 |
| | 127 | 337 | 3 | 122 | 4 | 138 | 4 | 7.6 | 3 | 4840 | 3 | 146000 | 4 | 3.90 | 3 |
| | 141 | 332 | 3 | 126 | 4 | 138 | 4 | 16.5 | 3 | 4695 | 4 | 148600 | 3 | 3.35 | 4 |
| | 194 | 334 | 3 | 120 | 4 | | | 11.0 | 4 | 4830 | 3 | 145000 | 4 | 4.43 | 0 |
| | 202 | 303 | 3 | 121 | 4 | | | 14.0 | 3 | 4660 | 4 | 137000 | 3 | 2.66 | 1 |
| | 210 | 300 | 2 | 100 | 1 | 120 | 3 | 470.0 | 0 | 4400 | 2 | 130000 | 2 | 2.00 | 0 |

**Table 11. –Laboratory performance ratings for standard reference water sample AMW-3 (acid mine water)
–Continued**

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| F-pseudosigma = | Li (Lithium) | | Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | |
|-----------------|--------------|--------|----------------|--------|----------------|--------|-------------------|--------|-------------|--------|-------------|--------|-----------|--------|
| | MPV = | μ g/L | 114 | m g/L | 82800 | μ g/L | insufficient data | μ g/L | 30.8 | m g/L | 206 | μ g/L | 15.5 | μ g/L |
| | 5.5 | | 5.8 | | 7650 | | | | 1.26 | | 30.4 | | 4.45 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 1 | 34.7 | 4 | 109 | 3 | 82043 | 4 | < 1 | 30.9 | 4 | 203 | 4 | 9.4 | 2 |
| | 3 | 40.0 | 3 | 115 | 4 | 83000 | 4 | < 10 | 31.0 | 4 | 220 | 4 | 15.1 | 4 |
| | 4 | 31 | 3 | 106 | 2 | 84000 | 4 | | 28.5 | 1 | 127000 | 0 | 38.0 | 0 |
| | 7 | | | 120 | 2 | 89800 | 3 | < 12 | 31.4 | 4 | 212 | 4 | 24.9 | 0 |
| | 8 | 34 | 4 | 106 | 2 | 79 | 0 | < 10 | 31.3 | 4 | 187 | 3 | < 30 | NR |
| | 11 | | | 117 | 3 | 82500 | 4 | | 31.5 | 3 | 208 | 4 | 38.0 | 0 |
| | 15 | 30.7 | 3 | 117 | 3 | 87700 | 3 | < 20 | 30.6 | 4 | 189 | 3 | 4.0 | 0 |
| | 18 | | | 110 | 3 | 77180 | 3 | | 29.8 | 3 | 22 | 0 | 19.5 | 3 |
| | 32 | 37.5 | 4 | 110 | 3 | 79200 | 4 | 0.8 | 28.1 | 0 | 200 | 4 | 17.4 | 4 |
| | 36 | | | 119 | 3 | 88000 | 3 | 1.3 | 29.7 | 3 | 180 | 3 | 10.2 | 2 |
| | 37 | | | 140 | 0 | | | | 30.6 | 4 | 205 | 4 | 18.9 | 3 |
| | 42 | 38 | 4 | 110 | 3 | 84000 | 4 | | 30.5 | 4 | 224 | 3 | 18.0 | 3 |
| | 48 | | | 99 | 0 | 25000 | 0 | < 10 | 36.2 | 0 | 230 | 3 | 13.1 | 3 |
| | 52 | | | 114 | 4 | 82800 | 4 | 6.6 | 28.9 | 1 | 189 | 3 | 7.9 | 1 |
| | 58 | | | 95 | 0 | 78400 | 3 | | 22.5 | 0 | 232 | 3 | 15.4 | 4 |
| | 59 | | | 113 | 4 | 80000 | 4 | | 32.0 | 3 | 450 | 0 | 38.0 | 0 |
| | 61 | | | 119 | 3 | 87244 | 3 | < 50 | 311.1 | 0 | 153 | 1 | < 50 | NR |
| | 63 | 53 | 0 | 120 | 2 | 88 | 0 | | 33.4 | 0 | 240 | 2 | 17.0 | 4 |
| | 84 | | | 111 | 3 | 75800 | 3 | < 2 | 29.4 | 2 | 263 | 1 | < 20 | NR |
| | 85 | 37 | 4 | 117 | 3 | 807000 | 0 | < 50 | 30.5 | 4 | 206 | 4 | < 50 | NR |
| | 89 | | | 121 | 2 | 88900 | 3 | | 30.8 | 4 | 196 | 4 | 7.5 | 1 |
| | 94 | | | 110 | 3 | 83328 | 4 | < 5 | 30.0 | 3 | 198 | 4 | 15.5 | 4 |
| | 105 | 49 | 0 | 110 | 3 | 75600 | 3 | 2.0 | 33.9 | 0 | 214 | 4 | 17.9 | 3 |
| | 116 | | | 115 | 4 | 87500 | 3 | | 30.9 | 4 | | | | |
| | 117 | | | 122 | 2 | 63240 | 0 | | 30.4 | 4 | | | 33.7 | 0 |
| | 119 | | | 111 | 3 | 90800 | 2 | | 29.6 | 3 | 279 | 0 | 16.8 | 4 |
| | 127 | 31.8 | 3 | 114 | 4 | 89100 | 3 | 144.0 | 30.9 | 4 | 217 | 4 | < 1 | 0 |
| | 141 | | | 116 | 4 | 86470 | 4 | < 10 | 31.7 | 3 | 773 | 0 | 14.2 | 4 |
| | 194 | | | 120 | 2 | 83000 | 4 | | 29.4 | 2 | 180 | 3 | 12.9 | 3 |
| | 202 | | | 108 | 2 | 77900 | 3 | < 1.0 | 32.8 | 1 | 175 | 2 | 13.6 | 4 |
| | 210 | 30 | 3 | 8 | 0 | 630 | 0 | 11.0 | 31.0 | 4 | 130 | 0 | 8.9 | 2 |

Table 11. --Laboratory performance ratings for standard reference water sample AMW-3 (acid mine water)
--Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; W26, number of reported values of 26 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| F-pseudosigma = | Sb (Antimony) | | Se (Selenium) | | SiO2 (Silica) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | |
|-----------------|---------------|-----------|---------------|-----------|---------------|-----------|----------------|-----------|--------------|-----------|-----------|--------|
| | MPV = | μ g/L | μ g/L | μ g/L | mg/L | μ g/L | μ g/L | μ g/L | μ g/L | μ g/L | μ g/L | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 2.5 | 4 | < 1 | | 44.8 | 3 | 1430 | 3 | 17.0 | 4 | 39833 | 3 |
| 3 | 5.0 | 2 | 1.3 | | 49.2 | 4 | 1440 | 4 | < 10 | NR | 41400 | 4 |
| 4 | | | | | 41.0 | 0 | 1360 | 2 | | | 43000 | 4 |
| 7 | 2.5 | 4 | < 1 | | | | 1580 | 2 | < 14 | NR | 45200 | 2 |
| 8 | 12.0 | 0 | < 1 | | 48.5 | 4 | 1570 | 2 | < 5 | NR | 38500 | 3 |
| 11 | | | < 1 | | 52.8 | 2 | 1540 | 3 | | | 41100 | 4 |
| 15 | | | < 1 | | 44.7 | 3 | 1500 | 4 | 9.5 | 4 | 44200 | 3 |
| 18 | 2.9 | 4 | 0.1 | | | | 1447 | 4 | 19.0 | 4 | 39480 | 3 |
| 32 | 2.1 | 4 | 9.0 | | 55.2 | 0 | 1410 | 3 | 4.6 | 3 | 36800 | 2 |
| 36 | 3.5 | 4 | 0.5 | | 136.0 | 0 | | | | | 39300 | 3 |
| 37 | | | | | 48.8 | 4 | | | | | | NR |
| 42 | 2.8 | 4 | | | 49.5 | 4 | 1530 | 3 | | | 42930 | 4 |
| 48 | < 3.0 | NR | < 2 | | | | | | 90.0 | 0 | 45400 | 2 |
| 52 | < 6 | NR | < 5 | | 43.7 | 2 | 1380 | 2 | 23.3 | 3 | 41500 | 4 |
| 58 | | | | | | | | | 22.7 | 3 | 392000 | 0 |
| 59 | | | | | | | 1500 | 4 | | | 41000 | 4 |
| 61 | < 50 | NR | < 5 | | 50.0 | 3 | | | < 5 | NR | 45715 | 2 |
| 63 | < 5 | NR | < 5 | | 49.4 | 4 | 1590 | 2 | 13.0 | 4 | 45 | 0 |
| 84 | | | 20.0 | | 61.4 | 0 | | | | | 41400 | 4 |
| 85 | 664.0 | 0 | < 2 | | | | 1440 | 4 | < 20 | NR | 42500 | 4 |
| 89 | | | < 2 | | 45.8 | 3 | | | | | 41500 | 4 |
| 94 | 1.7 | 4 | < 5 | | | | 1422 | 3 | < 5 | NR | 39920 | 4 |
| 105 | 2.6 | 3 | < 2.0 | | 45.8 | 3 | 1530 | 3 | 4.0 | 3 | 41100 | 4 |
| 116 | | | | | 47.4 | 4 | 1510 | 4 | | | 42900 | 4 |
| 117 | 135.0 | 0 | 115.0 | | | | | | | | 359 | 0 |
| 119 | 2.8 | 4 | < 1 | | 48.9 | 4 | | | | | 44100 | 3 |
| 127 | 2.4 | 4 | < 3 | | 45.9 | 3 | 1520 | 3 | 5.3 | 3 | 42700 | 4 |
| 141 | 117.0 | 0 | < 2 | | < 0.1 | 0 | | | < 10 | NR | 45580 | 2 |
| 194 | < 5 | NR | < 250 | | | | 1420 | 3 | | | 39500 | 3 |
| 202 | 2.5 | 4 | < 1 | | | | | | | | 43700 | 3 |
| 210 | < 5.0 | NR | < 5 | | 16.5 | 0 | 1300 | 0 | < 50 | NR | 130 | 0 |

Table 12. —Laboratory performance ratings for standard reference water sample WW-1 (whole water)

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| Lab | Analyte = Ag (Silver) | | | | Al (Aluminum) | | | | As (Arsenic) | | | | B (Boron) | | | | Ba (Barium) | | | | Be (Beryllium) | | | |
|-----|------------------------|----|--------|----|---------------|--------|-------|--------|--------------|--------|-------|--------|-----------|--------|-------|--------|-------------|--------|-------|--------|----------------|--------|-------|--------|
| | MPV = 2.30 | | μ g/L | | 7084 | | μ g/L | | 19.7 | | μ g/L | | 31 | | μ g/L | | 156 | | μ g/L | | 9.0 | | μ g/L | |
| | F-pseudostigma = 1.830 | RV | Rating | | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 3.7 | 26 | 1.90 | 4 | 7650 | 4 | 12.1 | 3 | 9.85 | 3 | 145 | 4 | 8.8 | 4 | | | | | | | | | | |
| 3 | 2.9 | 24 | 1.80 | 4 | 5530 | 4 | 24.3 | 4 | 20.0 | 4 | 134 | 3 | 8.0 | 2 | | | | | | | | | | |
| 5 | 0.6 | 23 | < 4 | NR | 33930 | 0 | 183.7 | 0 | 49.41 | 4 | 287 | 0 | 10.9 | 0 | | | | | | | | | | |
| 7 | 3.3 | 23 | 2.30 | 4 | 6860 | 4 | 3.7 | 1 | | | 152 | 4 | 9.0 | 4 | | | | | | | | | | |
| 8 | 2.8 | 22 | < 5 | NR | 4200 | 3 | 15.0 | 4 | < 10 | NR | 142 | 4 | 8.0 | 2 | | | | | | | | | | |
| 11 | 3.4 | 17 | | | 10400 | 3 | | | 30 | 4 | 158 | 4 | 9.0 | 4 | | | | | | | | | | |
| 15 | 2.6 | 23 | 17.70 | 0 | 6110 | 4 | 16.1 | 4 | 242 | 0 | 145 | 4 | 14.8 | 0 | | | | | | | | | | |
| 18 | 3.3 | 22 | < 5 | NR | 7067 | 4 | 19.1 | 4 | 17 | 4 | 147 | 4 | 8.0 | 2 | | | | | | | | | | |
| 23 | 1.8 | 13 | < 0.2 | NR | | | 8.9 | 2 | 75 | 2 | 116 | 2 | | | | | | | | | | | | |
| 25 | 3.4 | 18 | < 6 | NR | 8940 | 4 | < 50 | NR | < 23 | NR | 165 | 4 | 8.2 | 3 | | | | | | | | | | |
| 30 | 3.5 | 2 | | | | | | | | | | | | | | | | | | | | | | |
| 32 | 3.6 | 25 | 1.07 | 3 | 7160 | 4 | 22.5 | 4 | 7 | 3 | 150 | 4 | 6.9 | 0 | | | | | | | | | | |
| 36 | 2.6 | 22 | 0.82 | 3 | 4550 | 4 | 13.8 | 3 | 33 | 4 | 133 | 3 | 8.3 | 3 | | | | | | | | | | |
| 46 | 1.2 | 12 | | | | | | | | | 189 | 3 | 9.9 | 2 | | | | | | | | | | |
| 48 | 2.1 | 19 | 0.70 | 3 | 18800 | 0 | 19.8 | 4 | < 10.0 | NR | 152 | 4 | 9.2 | 4 | | | | | | | | | | |
| 52 | 3.1 | 21 | 1.60 | 4 | 8660 | 4 | 19.6 | 4 | < 300 | NR | 157 | 4 | 6.4 | 0 | | | | | | | | | | |
| 58 | 2.2 | 19 | 9.55 | 0 | 14900 | 2 | 53.9 | 0 | | | 200 | 2 | 15.5 | 0 | | | | | | | | | | |
| 59 | 2.8 | 17 | | | 2900 | 3 | 20.0 | 4 | | | 130 | 3 | 9.0 | 4 | | | | | | | | | | |
| 61 | 1.7 | 22 | 4.70 | 2 | 14101 | 2 | 22.3 | 4 | 84.7 | 2 | 195 | 2 | 9.5 | 3 | | | | | | | | | | |
| 63 | 3.0 | 23 | 24.00 | 0 | 7700 | 4 | 20.0 | 4 | 68 | 3 | 160 | 4 | 9.0 | 4 | | | | | | | | | | |
| 68 | 1.0 | 20 | | | 27000 | 0 | | | 300 | 0 | 260 | 0 | 9.1 | 4 | | | | | | | | | | |
| 69 | 3.5 | 16 | 1.84 | 4 | 6833 | 4 | 19.0 | 4 | | | 184 | 3 | 7.6 | 1 | | | | | | | | | | |
| 89 | 3.0 | 18 | 2.71 | 4 | 6610 | 4 | 19.4 | 4 | | | 820 | 0 | | | | | | | | | | | | |
| 94 | 3.5 | 22 | < 5 | NR | 5616 | 4 | 17.0 | 4 | 11 | 3 | 142 | 4 | 9.0 | 4 | | | | | | | | | | |
| 97 | 1.8 | 22 | < 0 | NR | 27186 | 0 | 38.1 | 1 | | | 254 | 0 | 9.8 | 3 | | | | | | | | | | |
| 102 | 2.3 | 21 | 1.00 | 3 | 15610 | 2 | 59.0 | 0 | | | 193 | 2 | 6.0 | 0 | | | | | | | | | | |
| 105 | 3.7 | 25 | 1.60 | 4 | 6550 | 4 | 16.3 | 4 | | | 155 | 4 | 8.7 | 4 | | | | | | | | | | |
| 117 | 1.3 | 15 | 4.20 | 2 | | | 74.0 | 0 | | | 377 | 0 | | | | | | | | | | | | |
| 119 | 3.7 | 21 | 5.20 | 1 | 6940 | 4 | 19.0 | 4 | 51 | 3 | 148 | 4 | 10.0 | 2 | | | | | | | | | | |
| 120 | 3.2 | 20 | 1.00 | 3 | 7000 | 4 | 31.5 | 2 | | | 167 | 4 | 8.3 | 3 | | | | | | | | | | |
| 129 | 2.3 | 7 | | | | | | | 140 | 0 | | | | | | | | | | | | | | |
| 140 | 2.2 | 13 | | | | | | | | | | | | | | | | | | | | | | |
| 141 | 3.9 | 19 | < 10 | NR | 6798 | 4 | < 50 | NR | | | 158 | 4 | 9.0 | 4 | | | | | | | | | | |
| 142 | 3.6 | 24 | 3.50 | 3 | 6428 | 4 | 21.3 | 4 | 30 | 4 | 154 | 4 | 7.7 | 2 | | | | | | | | | | |
| 144 | 0.4 | 7 | 4.00 | 3 | | | 88.0 | 0 | | | | | | | | | | | | | | | | |
| 146 | 2.8 | 25 | 2.50 | 4 | 7240 | 4 | 28.7 | 3 | 24.7 | 4 | 13 | 0 | 7.7 | 2 | | | | | | | | | | |
| 180 | 2.2 | 23 | 6.00 | 0 | 19500 | 0 | 108.0 | 0 | 20.4 | 4 | 181 | 3 | 7.8 | 2 | | | | | | | | | | |
| 190 | 2.8 | 4 | | | | | | | | | | | | | | | | | | | | | | |
| 202 | 3.2 | 19 | 1.36 | 3 | 6350 | 4 | 4.7 | 2 | | | | | 9.0 | 4 | | | | | | | | | | |
| 204 | 3.1 | 16 | 1.78 | 4 | 5800 | 4 | 19.1 | 4 | | | 71 | 0 | | | | | | | | | | | | |
| 210 | 1.5 | 20 | 1.53 | 4 | 19000 | 0 | < 50 | NR | < 100 | NR | 200 | 2 | 15.0 | 0 | | | | | | | | | | |
| 212 | 3.6 | 24 | | | 7100 | 4 | 12.0 | 3 | 31.3 | 4 | 150 | 4 | 8.5 | 3 | | | | | | | | | | |

Table 12. —Laboratory performance ratings for standard reference water sample WW-1 (whole water)

—Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| Analyte = F-pseudosigma = | Ca (Calcium) | | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | | |
|------------------------------|--------------|-------|--------------|--------|-------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|-------|------|---|
| | MPV = | m g/L | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | m g/L | | |
| 1 | 17.9 | 1.30 | 16.8 | 3 | 6.10 | 4 | 11.9 | 3 | 19.8 | 4 | 27.3 | 4 | 12730 | 4 | 2.57 | 4 |
| 3 | 17.9 | 1.30 | 16.8 | 3 | 5.20 | 3 | 10.0 | 2 | 14.0 | 1 | 88.0 | 0 | 10400 | 3 | 2.39 | 4 |
| 5 | 17.9 | 1.30 | 19.0 | 3 | 7.89 | 1 | 22.5 | 0 | 46.6 | 0 | 52.7 | 0 | 24640 | 0 | 9.93 | 0 |
| 7 | 17.9 | 1.30 | 18.6 | 3 | 7.40 | 2 | 14.7 | 4 | 23.5 | 4 | 28.1 | 4 | 12900 | 4 | 3.22 | 4 |
| 8 | 17.9 | 1.30 | 18.6 | 3 | 7.00 | 3 | 10.0 | 2 | 17.0 | 2 | 27.0 | 4 | 8800 | 2 | 2.50 | 4 |
| 11 | 17.9 | 1.30 | 18.4 | 4 | 6.00 | 4 | 13.0 | 4 | 25.0 | 3 | 28.0 | 4 | 16700 | 3 | | |
| 15 | 17.9 | 1.30 | 19.0 | 3 | < 10 | NR | 11.3 | 3 | 19.7 | 4 | 9.3 | 0 | 12500 | 4 | 2.65 | 4 |
| 18 | 17.9 | 1.30 | 17.4 | 4 | 4.89 | 2 | 16.0 | 3 | 22.0 | 4 | 27.0 | 4 | 13573 | 4 | 2.80 | 4 |
| 23 | 17.9 | 1.30 | 17.6 | 4 | 5.62 | 4 | | | 7.9 | 0 | 18.5 | 1 | | | 1.74 | 2 |
| 25 | 17.9 | 1.30 | 18.9 | 3 | 8.00 | 1 | 15.0 | 3 | 22.0 | 4 | 26.0 | 4 | 14500 | 4 | 3.65 | 3 |
| 30 | 17.9 | 1.30 | 17.0 | 3 | | | | | | | | | | | | |
| 32 | 17.9 | 1.30 | 18.3 | 4 | 6.20 | 4 | 14.5 | 4 | 22.6 | 4 | 29.0 | 4 | 14400 | 4 | 2.52 | 4 |
| 36 | 17.9 | 1.30 | 15.0 | 0 | 3.02 | 0 | 12.7 | 4 | 17.3 | 3 | 19.6 | 2 | 4720 | 0 | 3.76 | 2 |
| 46 | 17.9 | 1.30 | 19.8 | 2 | | | | | 38.6 | 0 | 38.4 | 1 | 23600 | 0 | | |
| 48 | 17.9 | 1.30 | 20.1 | 1 | 6.40 | 4 | < 50 | NR | 18.6 | 3 | 30.0 | 4 | 21900 | 1 | 5.06 | 0 |
| 52 | 17.9 | 1.30 | 17.7 | 4 | 0.48 | 0 | 25.1 | 0 | 24.9 | 3 | 29.0 | 4 | 14300 | 4 | 2.97 | 4 |
| 58 | 17.9 | 1.30 | 5.8 | 0 | 8.30 | 1 | 12.3 | 4 | 22.0 | 4 | 27.0 | 4 | 11700 | 3 | 2.36 | 3 |
| 59 | 17.9 | 1.30 | 18.0 | 4 | 8.00 | 1 | | | 14.0 | 1 | 30.0 | 4 | 6500 | 1 | 2.00 | 3 |
| 61 | 17.9 | 1.30 | 18729 | 0 | 4.30 | 1 | 14.2 | 4 | 26.3 | 3 | 39.0 | 1 | 19324 | 2 | 4623 | 0 |
| 63 | 17.9 | 1.30 | 18.4 | 4 | 3.10 | 0 | 30.0 | 0 | 17.0 | 2 | 33.0 | 3 | 17500 | 3 | 3.40 | 3 |
| 68 | 17.9 | 1.30 | 20.0 | 1 | 28.50 | 0 | 20.0 | 0 | 34.0 | 0 | 36.0 | 2 | 25000 | 0 | 6.70 | 0 |
| 69 | 17.9 | 1.30 | | | 5.94 | 4 | | | 20.0 | 4 | 24.0 | 3 | 12390 | 4 | 3.00 | 4 |
| 89 | 17.9 | 1.30 | 18.8 | 3 | 6.38 | 4 | 17.0 | 2 | 24.0 | 4 | 14.9 | 0 | 14600 | 4 | 2.88 | 4 |
| 94 | 17.9 | 1.30 | 18.2 | 4 | 6.30 | 4 | 13.0 | 4 | 18.0 | 3 | 25.0 | 3 | 10580 | 3 | 2.72 | 4 |
| 97 | 17.9 | 1.30 | 12.7 | 0 | 5.74 | 4 | 3.3 | 0 | 60.0 | 0 | 30.9 | 4 | 22360 | 1 | 1.44 | 1 |
| 102 | 17.9 | 1.30 | 18.3 | 4 | 5.00 | 3 | 11.0 | 3 | 25.0 | 3 | 32.0 | 3 | 20360 | 2 | 4.50 | 1 |
| 105 | 17.9 | 1.30 | 16.9 | 3 | 6.18 | 4 | 12.6 | 4 | 19.7 | 4 | 29.0 | 4 | 11700 | 3 | 2.58 | 4 |
| 117 | 17.9 | 1.30 | 13.7 | 0 | | | | | 24.5 | 4 | 105.0 | 0 | 15590 | 4 | 4.82 | 0 |
| 119 | 17.9 | 1.30 | 17.1 | 3 | 6.60 | 4 | | | 20.9 | 4 | 26.0 | 4 | 14000 | 4 | 2.80 | 4 |
| 120 | 17.9 | 1.30 | 12.8 | 0 | 6.80 | 3 | | | 18.7 | 3 | 21.8 | 2 | 15600 | 4 | 2.86 | 4 |
| 129 | 17.9 | 1.30 | 16.0 | 2 | | | | | | | | | | | 2.10 | 3 |
| 140 | 17.9 | 1.30 | 19.5 | 2 | 4.80 | 2 | | | 40.5 | 0 | 38.1 | 1 | 20238 | 2 | 4.50 | 1 |
| 141 | 17.9 | 1.30 | 17.8 | 4 | 6.30 | 4 | 12.0 | 3 | 23.8 | 4 | 28.3 | 4 | 13140 | 4 | 2.50 | 4 |
| 142 | 17.9 | 1.30 | 18.0 | 4 | 6.10 | 4 | | | 17.1 | 3 | 20.9 | 2 | 11870 | 4 | 2.58 | 4 |
| 144 | 17.9 | 1.30 | | | | | | | 68.0 | 0 | 112.0 | 0 | | | | |
| 146 | 17.9 | 1.30 | 15.9 | 1 | 5.80 | 4 | 13.5 | 4 | 21.1 | 4 | 27.5 | 4 | 13000 | 4 | 2.47 | 4 |
| 180 | 17.9 | 1.30 | 16.8 | 3 | 5.80 | 4 | 15.6 | 3 | 33.1 | 0 | 34.1 | 2 | 18100 | 3 | 2.77 | 4 |
| 190 | 17.9 | 1.30 | 18.1 | 4 | | | | | | | | | | | 1.89 | 2 |
| 202 | 17.9 | 1.30 | 17.9 | 4 | 6.00 | 4 | | | 17.0 | 2 | 25.0 | 3 | 12400 | 4 | 265 | 0 |
| 204 | 17.9 | 1.30 | 17.5 | 4 | 4.55 | 2 | | | 17.7 | 3 | 21.9 | 2 | 11000 | 3 | 2.62 | 4 |
| 210 | 17.9 | 1.30 | 17.0 | 3 | 13.00 | 0 | < 50 | NR | 110.0 | 0 | 52.9 | 0 | 23000 | 0 | 3.10 | 4 |
| 212 | 17.9 | 1.30 | 18.4 | 4 | 7.20 | 3 | 14.0 | 4 | 20.4 | 4 | 26.4 | 4 | 13400 | 4 | 2.90 | 4 |

Table 12. —Laboratory performance ratings for standard reference water sample WW-1 (whole water)
—Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| F-pseudostigma = | Analyte = Li (Lithium) | | | Mg (Magnesium) | | | Mn (Manganese) | | | Mo (Molybdenum) | | | Na (Sodium) | | | Ni (Nickel) | | | Pb (Lead) | | |
|------------------|------------------------|----|--------|----------------|--------|-----|----------------|------|--------|-----------------|--------|-------|-------------|------|--------|-------------|--------|----|-----------|----|--------|
| | MPV = 4.4 | | | 7.13 | | | 595 | | | 4.9 | | | 19.7 | | | 24.0 | | | 25.8 | | |
| | Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 1 | 18 | 4 | 6.76 | 4 | 585 | 4 | 4.7 | 4 | 17.6 | 2 | 22.7 | 4 | 25.9 | 4 | | | | | | |
| | 3 | 20 | 4 | 6.56 | 3 | 572 | 4 | < 10 | NR | 18.6 | 3 | < 40 | NR | 31.0 | 2 | | | | | | |
| | 5 | 34 | 0 | 10.21 | 0 | 720 | 0 | < 10 | NR | 22.5 | 1 | 25.6 | 4 | 86.7 | 0 | | | | | | |
| | 7 | | | 7.14 | 4 | 646 | 3 | 6.0 | 3 | 19.9 | 4 | 29.4 | 3 | 32.6 | 2 | | | | | | |
| | 8 | 17 | 4 | 5.60 | 1 | 575 | 4 | < 5 | NR | 19.6 | 4 | 13.0 | 2 | < 30 | NR | | | | | | |
| | 11 | | | 7.76 | 3 | 578 | 4 | 12.0 | 0 | | | | | | | | | | | | |
| | 15 | 33 | 0 | 7.78 | 3 | 705 | 1 | 3.0 | 2 | | | 19.2 | 3 | 23.6 | 4 | | | | | | |
| | 18 | | | 6.80 | 4 | 6 | 0 | | | 18.8 | 4 | 24.5 | 4 | 23.2 | 4 | | | | | | |
| | 23 | | | 5.44 | 1 | 531 | 2 | | | 17.2 | 2 | < 20 | NR | 13.9 | 0 | | | | | | |
| | 25 | 19 | 4 | 7.59 | 4 | 607 | 4 | | | 20.5 | 4 | < 49 | NR | < 71 | NR | | | | | | |
| | 30 | | | 6.69 | 4 | | | | | | | | | | | | | | | | |
| | 32 | 14 | 2 | 7.47 | 4 | 639 | 3 | 4.4 | 4 | 19.0 | 4 | 24.5 | 4 | 26.4 | 4 | | | | | | |
| | 36 | | | 5.86 | 2 | 536 | 2 | 2.5 | 2 | 19.7 | 4 | 16.9 | 3 | 24.2 | 4 | | | | | | |
| | 46 | | | | | 695 | 1 | | | 21.5 | 2 | | | 53.0 | 0 | | | | | | |
| | 48 | | | 9.52 | 0 | 720 | 0 | < 10 | NR | 22.9 | 1 | 37.7 | 1 | 23.2 | 4 | | | | | | |
| | 52 | | | 7.13 | 4 | 608 | 4 | < 5 | NR | 19.0 | 4 | 32.4 | 2 | 29.2 | 3 | | | | | | |
| | 58 | | | 5.60 | 1 | 545 | 3 | | | 13.1 | 0 | 20.1 | 4 | 29.0 | 3 | | | | | | |
| | 59 | | | 5.60 | 1 | 540 | 2 | | | 19.0 | 4 | 18.0 | 3 | 24.0 | 4 | | | | | | |
| | 61 | | | 8339 | 0 | 707 | 0 | 6.2 | 3 | 21566 | 0 | 50.7 | 0 | < 50 | NR | | | | | | |
| | 63 | 23 | 3 | 7.27 | 4 | 633 | 3 | | | 21.6 | 2 | 24.0 | 4 | 19.0 | 2 | | | | | | |
| | 68 | 32 | 0 | 10.00 | 0 | 710 | 0 | | | 23.0 | 1 | 39.0 | 1 | 31.0 | 2 | | | | | | |
| | 69 | | | | | 580 | 4 | | | 18.2 | 3 | 20.0 | 4 | 24.1 | 4 | | | | | | |
| | 89 | | | 7.50 | 4 | 607 | 4 | | | 20.2 | 4 | 42.5 | 0 | 24.2 | 4 | | | | | | |
| | 94 | | | 6.73 | 4 | 595 | 4 | < 5 | NR | 21.1 | 3 | 23.0 | 4 | 22.8 | 3 | | | | | | |
| | 97 | | | 8.44 | 2 | 568 | 4 | 12.0 | 0 | 18.2 | 3 | 44.1 | 0 | 30.4 | 3 | | | | | | |
| | 102 | | | 8.90 | 1 | 532 | 2 | | | 20.5 | 4 | 21.0 | 4 | 20.0 | 2 | | | | | | |
| | 105 | 18 | 4 | 6.59 | 3 | 583 | 3 | 4.1 | 4 | 21.5 | 2 | 24.0 | 4 | 26.2 | 4 | | | | | | |
| | 117 | | | 8.15 | 2 | 599 | 4 | | | 21.0 | 3 | | | 50.1 | 0 | | | | | | |
| | 119 | | | 6.73 | 4 | 602 | 4 | | | 19.4 | 4 | 20.4 | 4 | 25.6 | 4 | | | | | | |
| | 120 | | | 6.93 | 4 | 584 | 4 | 13.0 | 0 | 20.4 | 4 | 21.0 | 4 | 23.3 | 4 | | | | | | |
| | 129 | | | 8.60 | 2 | 520 | 2 | | | 20.3 | 4 | | | | | | | | | | |
| | 140 | | | 8.33 | 2 | 550 | 3 | | | 19.5 | 4 | 31.0 | 3 | 21.4 | 3 | | | | | | |
| | 141 | | | 6.94 | 4 | 624 | 3 | < 10 | NR | 19.5 | 4 | 27.5 | 4 | 26.9 | 4 | | | | | | |
| | 142 | 16 | 3 | 7.02 | 4 | 597 | 4 | 4.0 | 3 | 19.4 | 4 | 21.9 | 4 | 23.5 | 4 | | | | | | |
| | 144 | | | | | | | | | | | 102.0 | 0 | | | | | | | | |
| | 146 | | | 6.11 | 2 | 549 | 3 | 5.5 | 4 | 17.4 | 2 | 23.5 | 4 | 25.6 | 4 | | | | | | |
| | 180 | | | 7.88 | 3 | 577 | 4 | 4.8 | 4 | 19.9 | 4 | 27.1 | 4 | 52.9 | 0 | | | | | | |
| | 190 | | | 5.65 | 2 | | | | | 21.2 | 3 | | | | | | | | | | |
| | 202 | | | 7.11 | 4 | 629 | 3 | 3.6 | 3 | 24.6 | 0 | 21.0 | 4 | 25.6 | 4 | | | | | | |
| | 204 | | | 6.67 | 4 | 550 | 3 | | | 18.5 | 3 | | | 26.0 | 4 | | | | | | |
| | 210 | 20 | 4 | 8.40 | 2 | 630 | 3 | 11.0 | 0 | 19.0 | 4 | 130.0 | 0 | 39.5 | 0 | | | | | | |
| | 212 | 15 | 3 | 7.20 | 4 | 620 | 4 | | | 17.9 | 2 | 21.3 | 4 | 26.0 | 4 | | | | | | |

Table 12. --Laboratory performance ratings for standard reference water sample WW-1 (whole water)
--Continued

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all values; V/26, number of reported values of 26 values; RV, reported value; <, less than]

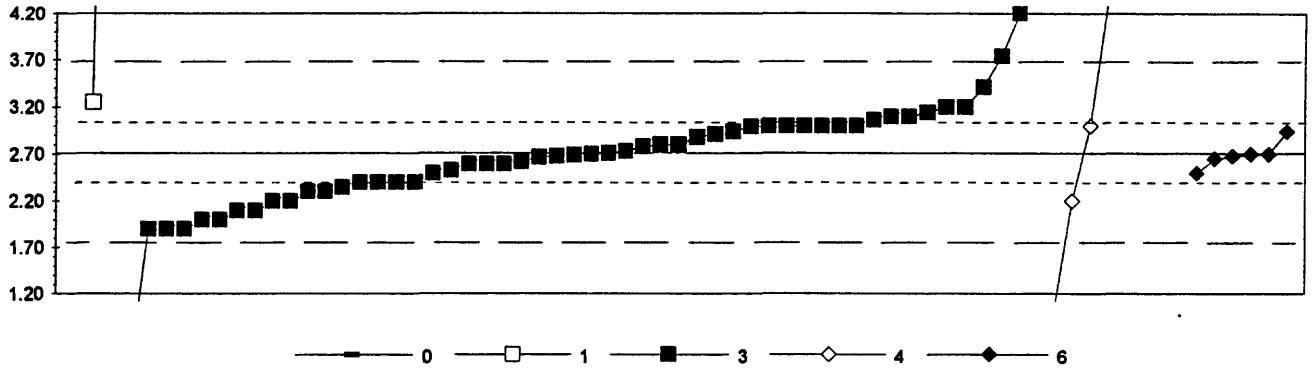
| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00-0.50 | 1 (Questionable) | 1.51-2.00 |
| 3 (Good) | 0.51-1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01-1.50 | NR (Not Rated) | |

| Lab | Sb (Antimony) | | Se (Selenium) | | SiO ₂ (Silica) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | |
|-----------------|---------------|--------|---------------|--------|---------------------------|--------|----------------|--------|--------------|--------|-----------|--------|
| | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| MPV = | 3.6 | | 5.5 | | 30.8 | | 84 | | 24.0 | | 75.0 | |
| F-pseudosigma = | 2.52 | | 2.08 | | 15.42 | | 7.0 | | 9.04 | | 20.09 | |
| 1 | 2.5 | 4 | 5.2 | 4 | 34.1 | 4 | 78 | 3 | 23.8 | 4 | 74.7 | 4 |
| 3 | 6.0 | 3 | 3.2 | 2 | 26.7 | 4 | 73 | 1 | 16.0 | 3 | 73.0 | 4 |
| 5 | < 50 | NR | 192.1 | 0 | 149.8 | 0 | 122 | 0 | 82.1 | 0 | 115.4 | 1 |
| 7 | 2.6 | 4 | < 1 | 0 | | | 85 | 4 | 34.3 | 2 | 77.6 | 4 |
| 8 | 10.0 | 0 | 7.0 | 3 | 20.9 | 3 | 84 | 4 | 10.0 | 1 | 55.0 | 3 |
| 11 | | | | | 52.8 | 2 | 90 | 3 | 28.0 | 4 | 78.0 | 4 |
| 15 | | | 5.1 | 4 | 24.8 | 4 | 84 | 4 | 28.5 | 4 | 450.0 | 0 |
| 18 | 4.3 | 4 | 0.3 | 0 | | | 79 | 3 | 24.0 | 4 | 64.0 | 3 |
| 23 | | | | | | | | | | | 40.0 | 1 |
| 25 | < 51 | NR | < 129 | NR | 45.3 | 3 | 90 | 3 | 24.0 | 4 | 89.0 | 3 |
| 30 | | | | | | | | | | | | NR |
| 32 | 4.4 | 4 | < 10 | NR | 27.3 | 4 | 82 | 4 | 23.0 | 4 | 73.0 | 4 |
| 36 | 2.1 | 3 | 4.6 | 4 | 18.2 | 3 | | | | | | NR |
| 46 | | | | | | | 95 | 1 | 40.7 | 1 | 109.0 | 1 |
| 48 | < 3.0 | NR | 4.1 | 3 | | | | | 120.0 | 0 | 100.0 | 2 |
| 52 | < 6 | NR | < 5.0 | NR | 10.1 | 2 | 84 | 4 | 21.2 | 4 | 67.9 | 4 |
| 58 | | | | | | | | | 22.1 | 4 | 65.5 | 4 |
| 59 | | | | | | | 79 | 3 | | | 49.0 | 2 |
| 61 | < 50 | NR | 5.9 | 4 | 69.0 | 0 | | | 35.2 | 2 | 97.6 | 2 |
| 63 | < 5 | NR | < 5 | NR | 38.2 | 4 | 86 | 4 | 23.0 | 4 | 75.0 | 4 |
| 68 | | | | | | | 110 | 0 | 28.0 | 4 | 74.0 | 4 |
| 69 | | | 7.9 | 2 | | | | | | | 70.0 | 4 |
| 89 | | | < 2 | NR | 39.5 | 3 | | | | | 101.0 | 2 |
| 94 | 2.8 | 4 | 2.3 | 1 | | | 80 | 3 | 20.0 | 4 | 69.0 | 4 |
| 97 | 4.4 | 4 | 0.6 | 0 | 11.6 | 2 | 88 | 3 | | | 75.0 | 4 |
| 102 | < 1 | NR | < 5 | NR | 66.0 | 0 | 90 | 3 | 32.0 | 3 | 71.0 | 4 |
| 105 | 4.7 | 4 | 4.2 | 3 | 29.5 | 4 | 84 | 4 | 17.5 | 3 | 81.4 | 4 |
| 117 | 22.0 | 0 | 31.0 | 0 | | | | | | | 38160 | 0 |
| 119 | 2.7 | 4 | 6.0 | 4 | 32.9 | 4 | | | | | 75.0 | 4 |
| 120 | 2.5 | 4 | 6.9 | 3 | | | | | | | 65.0 | 4 |
| 129 | | | | | 17.5 | 3 | | | | | | NR |
| 140 | | | | | 10.2 | 2 | | | | | 81.1 | 4 |
| 141 | < 20 | NR | 6.2 | 4 | < 0.1 | NR | 82 | 4 | 23.0 | 4 | 78.5 | 4 |
| 142 | 2.1 | 3 | | | 30.8 | 4 | 82 | 4 | 19.5 | 4 | 72.0 | 4 |
| 144 | | | 21.0 | 0 | | | | | | | 350.0 | 0 |
| 146 | 10.1 | 0 | 4.5 | 4 | 87.6 | 0 | 75 | 2 | 43.8 | 0 | 96.1 | 2 |
| 180 | 26.6 | 0 | 24.9 | 0 | | | | | 48.8 | 0 | 84.0 | 4 |
| 190 | | | | | | | | | | | | NR |
| 202 | 2.6 | 4 | 5.5 | 4 | | | | | | | 68.0 | 4 |
| 204 | | | 6.4 | 4 | | | | | | | 43.8 | 1 |
| 210 | < 5.0 | NR | < 5.0 | NR | 22.3 | 3 | 20 | 0 | < 50 | NR | 130.0 | 0 |
| 212 | 2.9 | 4 | 1.7 | 1 | 33.7 | 4 | 82 | 4 | 23.1 | 4 | 75.0 | 4 |

Table 13. —Statistical summary of reported data for standard reference sample T-127 (trace constituents)

| Definition of analytical methods, abbreviations, and symbols | | | |
|--|-----------------|------|--|
| Analytical methods | | | |
| 0. Other/Not reported | | = | |
| 1. AA: direct, air | | = | atomic absorption: direct,air |
| 2. AA: direct, N ₂ O | | = | atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | | = | atomic absorption: graphite furnace |
| 4. ICP | | = | inductively coupled plasma |
| 5. DCP | | = | direct current plasma |
| 6. ICP/MS | | = | inductively coupled plasma/mass spectrometry |
| 10. AA: extraction | | = | atomic absorption: extraction [chelating agent(s) specified] |
| 11. AA: hydride | | = | atomic absorption: hydride [reducing agent specified] |
| 22. Color: | | = | colorimetric [color reagent specified] |
| Abbreviations and symbols | | | |
| | N = | | number of samples |
| | St dev = | | traditional standard deviation |
| | MPV = | | 95% confidence most probable value |
| | F-pseudosigma = | | nonparametric statistic deviation |
| | Hu = | | upper hinge value |
| | Hi = | | lower hinge value |
| | μ g/L = | | micrograms per liter |
| | m g/L = | | milligrams per liter |
| | Lab = | | laboratory code number |
| | NR = | | not rated, less than value reported |
| | < = | | less than |
| Constituent | | | |
| Ag | Silver | page | 43 |
| Al | Aluminium | page | 44 |
| As | Arsenic | page | 45 |
| B | Boron | page | 46 |
| Ba | Barium | page | 47 |
| Be | Beryllium | page | 48 |
| Ca | Calcium | page | 49 |
| Cd | Cadmium | page | 50 |
| Co | Cobalt | page | 51 |
| Cr | Chromium | page | 52 |
| Cu | Copper | page | 53 |
| Fe | Iron | page | 54 |
| K | Potassium | page | 55 |
| Li | Lithium | page | 56 |
| Mg | Magnesium | page | 57 |
| Mn | Manganese | page | 58 |
| Mo | Molybdenum | page | 59 |
| Na | Sodium | page | 60 |
| Ni | Nickel | page | 61 |
| Pb | Lead | page | 62 |
| Sb | Antimony | page | 63 |
| Se | Selenium | page | 64 |
| SiO ₂ | Silica | page | 65 |
| Sr | Strontium | page | 66 |
| V | Vanadium | page | 67 |
| Zn | Zinc | page | 68 |

Table 13. Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
 Ag (Silver) μ g/L



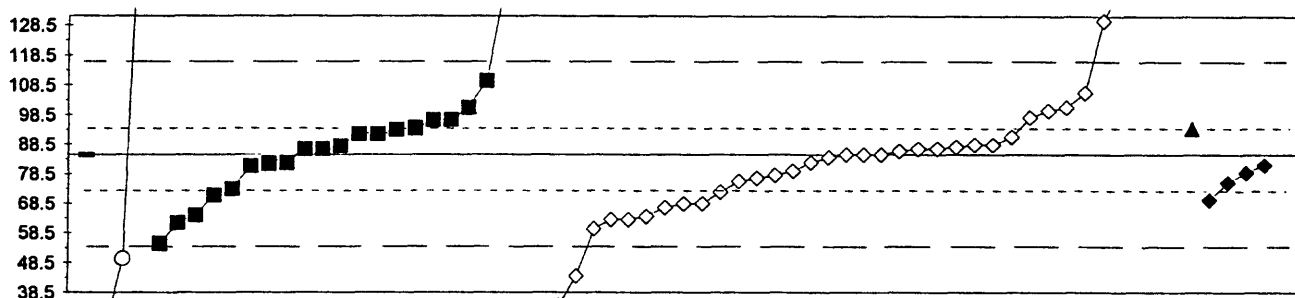
| | |
|-------------------------|----------------------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 2 52 8 6 |
| Minimum = | 6.60 3.25 0.30 1.00 2.50 |
| Maximum = | 15.00 8.10 5.40 2.94 |
| Median = | 2.70 |
| St Dev = | 0.469 |

MPV = 2.71
 F-pseudosigma = 0.489
 N = 69
 Hu = 3.06
 HI = 2.40

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|------|------|------|------|
| 1 | 4 | 0.04 | | | 2.73 | | |
| 3 | 2 | -1.25 | | | 2.10 | | |
| 5 | NR | | | | | < 4 | |
| 7 | 3 | 0.59 | | | 3.00 | | |
| 8 | NR | | | | | < 5 | |
| 12 | 3 | -0.63 | | | 2.40 | | |
| 13 | 2 | -1.25 | | | 2.10 | | |
| 15 | NR | | | | | < 10 | |
| 16 | NR | | | | | < 7 | |
| 18 | NR | | | | | < 3 | |
| 23 | 0 | 2.11 | | | 3.74 | | |
| 24 | 3 | 0.59 | | | 3.00 | | |
| 25 | NR | | | | | < 6 | |
| 29 | 4 | -0.18 | | | 2.62 | | |
| 30 | 4 | 0.47 | | | | | 2.94 |
| 32 | 4 | -0.43 | | | | | 2.50 |
| 39 | 4 | -0.02 | | | | | 2.70 |
| 42 | 4 | -0.12 | | | | | 2.65 |
| 45 | 4 | -0.08 | | | 2.67 | | |
| 46 | 3 | -0.63 | | | 2.40 | | |
| 48 | 3 | -0.84 | | | 2.30 | | |
| 50 | 3 | 0.59 | | | 3.00 | | |
| 52 | 4 | -0.04 | | | 2.69 | | |
| 55 | 1 | -1.66 | | | 1.90 | | |
| 57 | 2 | -1.04 | | | 2.20 | | |
| 58 | 0 | 11.02 | | | 8.10 | | |
| 60 | 3 | 1.00 | | | 3.20 | | |
| 61 | NR | | | | | < 5 | |
| 63 | 1 | -1.66 | | | 1.90 | | |
| 68 | 0 | -4.93 | | | 0.30 | | |
| 69 | 4 | -0.06 | | | 2.68 | | |
| 70 | 3 | -0.84 | | | 2.30 | | |
| 72 | 2 | -1.04 | | | | 2.20 | |
| 73 | 0 | 5.50 | | | | 5.40 | |
| 75 | NR | | | | | < 5 | |
| 76 | 4 | 0.47 | | | 2.94 | | |
| 78 | 4 | -0.22 | | | 2.60 | | |
| 79 | 3 | -0.63 | | | 2.40 | | |
| 85 | NR | | | < 5 | | | |
| 86 | 0 | 3.68 | | | | 4.51 | |
| 87 | NR | | | < 2 | | | |
| 89 | 4 | 0.41 | | | 2.91 | | |
| 94 | NR | | | | | < 5 | |
| 96 | 4 | -0.22 | | | 2.60 | | |
| 97 | 3 | 0.72 | | | 3.06 | | |
| 102 | 0 | -3.50 | | | | 1.00 | |
| 105 | 4 | -0.02 | | | | | 2.70 |
| 107 | 4 | -0.22 | | | 2.60 | | |
| 114 | NR | | | < 10 | | | |
| 117 | 3 | 0.88 | | | 3.14 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|------|---|------|
| 118 | 4 | 0.18 | | | 2.80 | | |
| 119 | 4 | 0.18 | | | 2.80 | | |
| 120 | 1 | -1.66 | | | 1.90 | | |
| 122 | 0 | 3.05 | | | 4.20 | | |
| 127 | 4 | 0.14 | | | 2.78 | | |
| 131 | 3 | 0.59 | | | | | 3.00 |
| 133 | 0 | 4.23 | | | | | 4.78 |
| 134 | 4 | -0.02 | | | 2.70 | | |
| 138 | 3 | 0.57 | | | 2.99 | | |
| 141 | NR | | | | | | < 10 |
| 142 | 2 | -1.45 | | | 2.00 | | |
| 144 | 2 | -1.04 | | | 2.20 | | |
| 146 | 0 | 3.45 | | | | | 4.40 |
| 149 | 2 | -1.45 | | | 2.00 | | |
| 153 | 3 | 0.80 | | | 3.10 | | |
| 154 | 3 | 0.80 | | | 3.10 | | |
| 179 | 0 | -3.50 | | | | | < 1 |
| 180 | 0 | 5.09 | | | | | 5.20 |
| 182 | 0 | 25.12 | | 15.00 | | | |
| 183 | 3 | 1.00 | | | 3.20 | | |
| 190 | 4 | -0.37 | | | 2.53 | | |
| 193 | 3 | 0.59 | | | 3.00 | | |
| 194 | 3 | 0.59 | | | 3.00 | | |
| 196 | 4 | -0.06 | | | | | 2.68 |
| 198 | 4 | 0.00 | | | 2.71 | | |
| 202 | 4 | -0.43 | | | 2.50 | | |
| 203 | 2 | 1.10 | | 3.25 | | | |
| 204 | 4 | 0.35 | | | 2.88 | | |
| 210 | 3 | -0.74 | | | 2.35 | | |
| 211 | 3 | 0.59 | | | 3.00 | | |
| 212 | 0 | 7.95 | 6.60 | | | | |
| 213 | NR | | | | < 2 | | |
| 217 | 3 | -0.63 | | | 2.40 | | |
| 221 | 2 | 1.43 | | | 3.41 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
Al (Aluminum) μ g/L



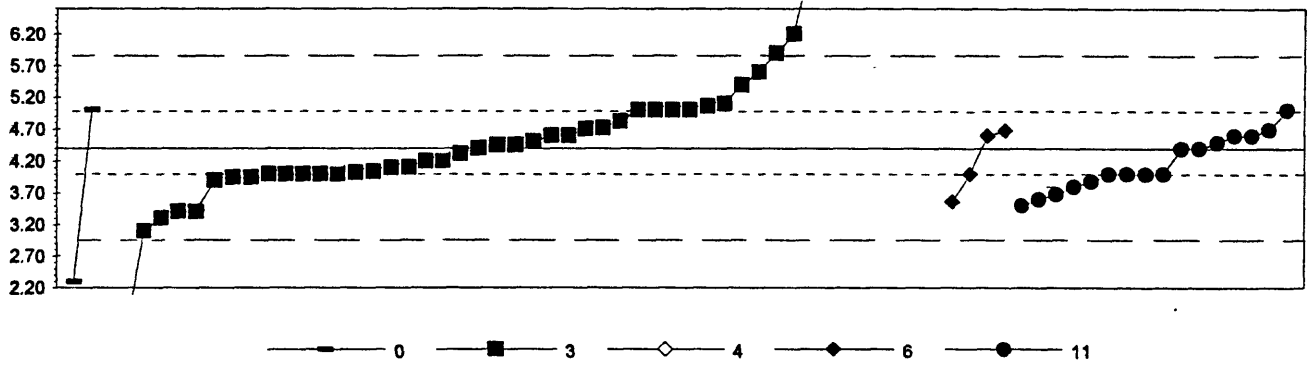
0 — 2 — 3 — 4 — 5 — 6

| | |
|---|-----------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| N = 1 3 21 36 1 4 | |
| Minimum = 85.0 25.0 55.0 10.0 94.0 69.7 | |
| Maximum = 200.0 200.0 210.0 | |
| Median = 87.0 84.5 | |
| St Dev = 14.20 16.46 | |

MPV = 85.0
F-pseudostigma = 15.49
N = 66
Hu = 93.8
Hi = 72.9

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-------|------|-------|-------|------|-------|
| 1 | 4 | -0.36 | | | | 79.4 | | |
| 3 | 3 | 0.97 | | | | 100.0 | | |
| 5 | 4 | 0.07 | | | | 86.1 | | |
| 7 | 4 | 0.00 | | | | 85.0 | | |
| 8 | 2 | -1.36 | | | | 64.0 | | |
| 11 | 2 | 1.03 | | | | 101.0 | | |
| 12 | NR | | | | | < 100 | | |
| 13 | 3 | -0.74 | | | 73.5 | | | |
| 15 | 3 | 0.82 | | | | 97.7 | | |
| 16 | 0 | 6.07 | | | | 179.0 | | |
| 18 | 2 | -1.16 | | | | 67.0 | | |
| 23 | 3 | 0.76 | | | 96.8 | | | |
| 24 | 4 | 0.45 | | | 92.0 | | | |
| 25 | 0 | -3.29 | | | | 34.0 | | |
| 29 | 0 | 7.42 | 200.0 | | | | | |
| 30 | 3 | -0.99 | | | | | | 69.7 |
| 32 | 3 | -0.61 | | | | | | 75.6 |
| 33 | 3 | 0.58 | | | | | 94.0 | |
| 39 | 4 | 0.00 | | | | 85.0 | | |
| 42 | 4 | -0.39 | | | | | | 79.0 |
| 45 | 2 | -1.07 | | | | 68.5 | | |
| 46 | 3 | -0.52 | | | | 77.0 | | |
| 48 | 4 | -0.25 | | | 81.2 | | | |
| 50 | 3 | 0.77 | | | 97.0 | | | |
| 51 | 1 | -1.94 | | | 55.0 | | | |
| 52 | 4 | 0.21 | | | | 88.3 | | |
| 55 | 4 | 0.19 | | | 88.0 | | | |
| 57 | NR | | | | | < 200 | | |
| 58 | 2 | -1.32 | | | 64.6 | | | |
| 59 | NR | | | | | < 100 | | |
| 61 | 0 | -2.65 | | | | 44.0 | | |
| 63 | 0 | 2.90 | | | | 130.0 | | |
| 68 | 0 | 6.13 | | | | 180.0 | | |
| 69 | 1 | 1.61 | | | 110.0 | | | |
| 70 | NR | | | | | < 100 | | |
| 72 | 4 | -0.17 | | | | 82.3 | | |
| 75 | 4 | 0.00 | | | | 85.0 | | |
| 78 | 3 | 0.56 | | | 93.6 | | | |
| 83 | 4 | 0.12 | | | | 86.9 | | |
| 85 | 4 | 0.22 | | | | 88.4 | | |
| 89 | 4 | -0.19 | | | 82.0 | | | |
| 94 | 4 | -0.45 | | | | 78.0 | | |
| 97 | 4 | -0.18 | | | 82.2 | | | |
| 102 | 2 | -1.42 | | | | 63.0 | | |
| 105 | 4 | -0.06 | | | | 84.0 | | |
| 107 | 4 | 0.45 | | | 92.0 | | | |
| 114 | 0 | -2.26 | 50.0 | | | | | |
| 119 | 3 | 0.58 | | | 94.0 | | | |
| 120 | 2 | -1.48 | | | 62.0 | | | |
| 121 | 2 | 1.03 | | | 101.0 | | | |
| 122 | 0 | 3.70 | | | | 142.3 | | |
| 127 | 1 | -1.63 | | | | | | 59.8 |
| 131 | 0 | -4.84 | | | | | | 10.0 |
| 134 | 4 | 0.39 | | | | | | 91.0 |
| 138 | 4 | 0.17 | | | | | | 87.6 |
| 141 | 2 | 1.36 | | | | | | 106.0 |
| 142 | 4 | 0.14 | | | | | | 87.1 |
| 145 | NR | | | | | | | < 179 |
| 146 | 3 | -0.82 | | | | | | 72.3 |
| 154 | 0 | 3.68 | | | | | | 142.0 |
| 180 | 2 | -1.08 | | | | | | 68.3 |
| 182 | 0 | -3.87 | | 25.0 | | | | |
| 194 | NR | | | | | | | < 500 |
| 196 | 4 | -0.22 | | | | | | 81.6 |
| 198 | 4 | 0.12 | | | | 86.9 | | |
| 202 | 2 | -1.42 | | | | | | 63.0 |
| 203 | 4 | 0.13 | | | | 87.0 | | |
| 204 | 3 | -0.88 | | | | 71.3 | | |
| 210 | 0 | 8.07 | | | | | | 210.0 |
| 211 | 3 | -0.58 | | | | | | 76.0 |
| 212 | 4 | 0.00 | 85.0 | | | | | |
| 217 | NR | | | | | | | < 100 |
| 221 | 0 | 7.42 | | | 200.0 | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
As (Arsenic) **μ g/L**



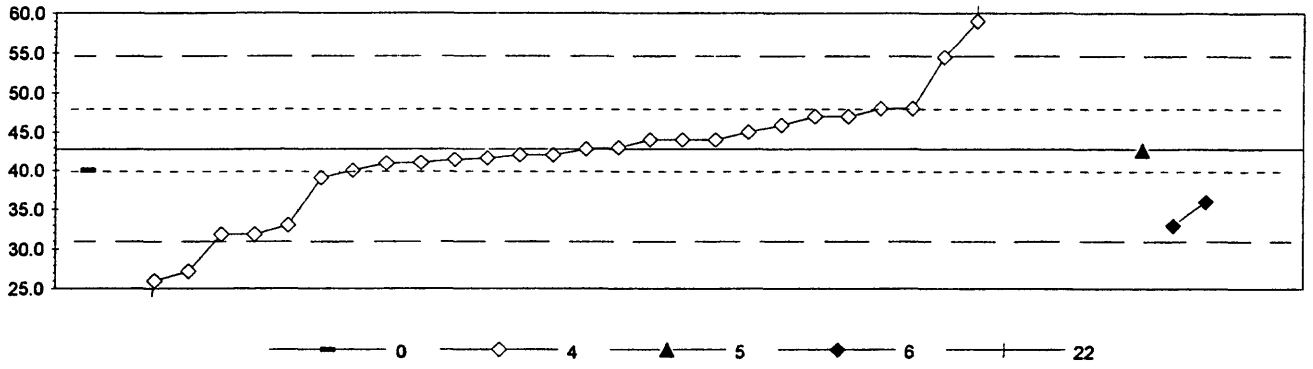
| | | | | | | |
|-------------------------|-----------------|------|-------|-------|------|-------|
| 0. Other | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | 11. AA: hydride | | | | | |
| 4. ICP | N = | 2 | 47 | 1 | 4 | 16 |
| | Minimum = | 2.30 | 1.42 | 25.00 | 3.56 | 3.50 |
| | Maximum = | 5.00 | 41.00 | | 4.68 | 5.00 |
| | Median = | | 4.45 | | | 4.00 |
| | St Dev = | | 6.711 | | | 0.439 |

MPV = 4.40
 F-pseudostigma = 0.741
 N = 70
 Hu = 5.00
 HI = 4.00

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|------|-------|------|------|------|
| 1 | 4 | 0.00 | | | | | 4.40 |
| 3 | 3 | 0.94 | | 5.10 | | | |
| 5 | NR | | | | < 80 | | |
| 7 | 4 | 0.00 | | 4.40 | | | |
| 8 | 3 | -0.54 | | | | | 4.00 |
| 12 | NR | | < 10 | | | | |
| 13 | NR | | < 5 | | | | |
| 15 | 4 | -0.49 | | 4.04 | | | |
| 16 | NR | | < 5 | | | | |
| 18 | 4 | -0.50 | | 4.03 | | | |
| 23 | 4 | 0.07 | | 4.45 | | | |
| 24 | 0 | 2.43 | | 6.20 | | | |
| 25 | NR | | | | < 50 | | |
| 27 | 0 | 7.08 | | 9.65 | | | |
| 29 | 0 | 5.40 | | 8.40 | | | |
| 32 | 4 | 0.27 | | | | 4.60 | |
| 34 | 4 | 0.12 | | | | | 4.49 |
| 35 | 2 | -1.08 | | | | | 3.60 |
| 39 | 2 | -1.21 | | | | | 3.50 |
| 42 | 3 | -0.54 | | | 4.00 | | |
| 45 | 3 | -0.54 | | 4.00 | | | |
| 46 | 4 | 0.40 | | 4.70 | | | |
| 48 | 0 | 4.05 | | 7.40 | | | |
| 51 | 0 | 30.62 | | 27.10 | | | |
| 52 | 3 | 0.89 | | 5.06 | | | |
| 55 | 3 | 0.81 | | 5.00 | | | |
| 57 | 4 | 0.27 | | | | | 4.60 |
| 58 | 3 | -0.97 | | | | | 3.68 |
| 59 | NR | | | | < 5 | | |
| 60 | 1 | -1.75 | | 3.10 | | | |
| 61 | 2 | 1.35 | | 5.40 | | | |
| 63 | NR | | | < 5 | | | |
| 69 | 4 | 0.27 | | 4.60 | | | |
| 70 | 3 | -0.54 | | 4.00 | | | |
| 72 | 3 | -0.54 | | 4.00 | | | |
| 75 | 3 | -0.54 | | | | | 4.00 |
| 76 | 4 | 0.43 | | 4.72 | | | |
| 78 | 3 | 0.57 | | 4.82 | | | |
| 79 | 0 | 5.67 | | 8.60 | | | |
| 85 | 3 | -0.81 | | | | | 3.80 |
| 87 | 3 | 0.81 | | | | | 5.00 |
| 89 | 3 | -0.70 | | | | | 3.88 |
| 94 | 4 | -0.11 | | 4.32 | | | |
| 96 | 4 | -0.27 | | 4.20 | | | |
| 97 | 4 | 0.39 | | | | | 4.69 |
| 102 | NR | | | | < 5 | | |
| 105 | 2 | -1.13 | | | | 3.56 | |
| 107 | 4 | 0.27 | | 4.60 | | | |
| 109 | 2 | -1.35 | | 3.40 | | | |
| 117 | 0 | 22.39 | | 21.00 | | | |

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|------|-------|-------|------|------|
| 118 | 0 | -4.02 | | 1.42 | | | |
| 119 | 3 | -0.54 | | | | | 4.00 |
| 120 | 4 | 0.00 | | | | | 4.40 |
| 127 | 3 | -0.67 | | 3.90 | | | |
| 133 | 0 | -3.91 | | 1.50 | | | |
| 134 | 4 | 0.27 | | | | | 4.60 |
| 138 | 3 | -0.61 | | 3.95 | | | |
| 141 | NR | | | | < 50 | | |
| 142 | 4 | 0.07 | | 4.45 | | | |
| 144 | 4 | -0.40 | | 4.10 | | | |
| 145 | NR | | | | < 39 | | |
| 146 | 1 | 2.02 | | 5.90 | | | |
| 149 | 0 | 49.37 | | 41.00 | | | |
| 154 | 4 | -0.27 | | 4.20 | | | |
| 179 | 3 | 0.81 | | 5.00 | | | |
| 180 | 0 | 27.79 | | | 25.00 | | |
| 182 | 3 | -0.54 | | | | | 4.00 |
| 190 | 3 | -0.61 | | 3.95 | | | |
| 193 | 3 | 0.81 | | 5.00 | | | |
| 194 | NR | | | < 10 | | | |
| 196 | 4 | 0.38 | | | | 4.68 | |
| 198 | 4 | 0.15 | | 4.51 | | | |
| 202 | 3 | -0.54 | | 4.00 | | | |
| 203 | 4 | -0.40 | | 4.10 | | | |
| 204 | NR | | | < 5 | | | |
| 210 | NR | | | | < 50 | | |
| 211 | 3 | -0.54 | | 4.00 | | | |
| 212 | 0 | -2.83 | 2.30 | | | | |
| 213 | 2 | -1.48 | | 3.30 | | | |
| 217 | 1 | 1.62 | | 5.60 | | | |
| 219 | 3 | 0.81 | 5.00 | | | | |
| 220 | 2 | -1.35 | | 3.40 | | | |
| 221 | 3 | 0.81 | | 5.00 | | | |

**Table 13. Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
B (Boron) μ g/L**

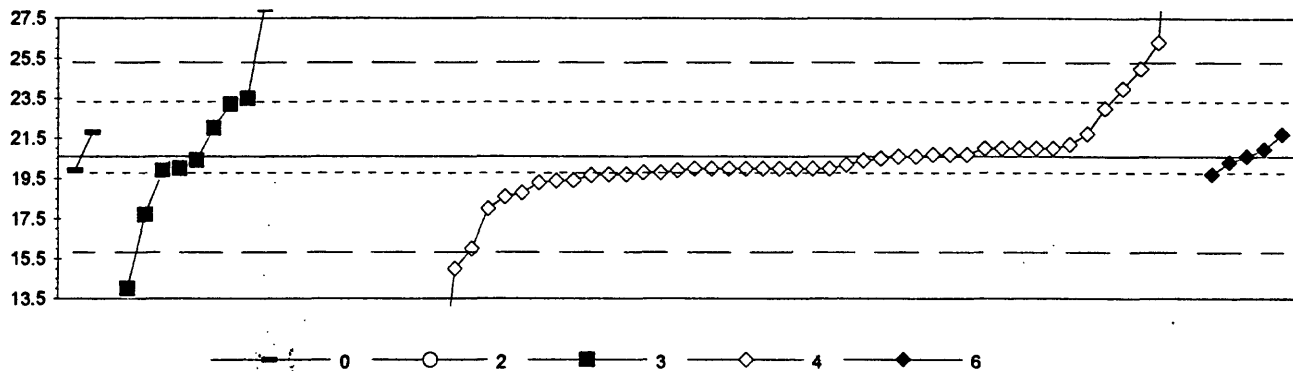


| | N = | 1 | 31 | 1 | 2 | 2 |
|----------|-----------|------|-------|------|------|-------|
| 0. Other | | | | | | |
| 4. ICP | | | | | | |
| 5. DCP | | | | | | |
| | Minimum = | 40.0 | 0.0 | 42.7 | 33.0 | 101.0 |
| | Maximum = | | 305.0 | | 36.0 | 137.6 |
| | Median = | | 42.4 | | | |
| | St Dev = | | 7.44 | | | |

MPV = 42.8
 F-pseudostigma = 5.93
 N = 37
 Hu = 48.0
 HI = 40.0

| Lab | Rating | Z-value | 0 | 4 | 5 | 6 | 22 |
|-----|--------|---------|------|-------|------|------|-------|
| 1 | 4 | -0.02 | | | 42.7 | | |
| 3 | 3 | 0.71 | | 47.0 | | | |
| 4 | 4 | 0.03 | | 43.0 | | | |
| 5 | 4 | -0.13 | | 42.0 | | | |
| 8 | 0 | -2.83 | | 26.0 | | | |
| 11 | 4 | 0.37 | | 45.0 | | | |
| 15 | 3 | 0.52 | | 45.9 | | | |
| 16 | 0 | 44.21 | | 305.0 | | | |
| 18 | 4 | 0.20 | | 44.0 | | | |
| 24 | 4 | -0.20 | | 41.6 | | | |
| 25 | 0 | | | < 23 | | | |
| 32 | 1 | -1.65 | | | | 33.0 | |
| 39 | 3 | 0.88 | | 48.0 | | | |
| 42 | 2 | -1.15 | | | | 36.0 | |
| 45 | 1 | -1.85 | | 31.8 | | | |
| 46 | 4 | 0.00 | | 42.8 | | | |
| 48 | 0 | | | < 10 | | | |
| 52 | NR | | | < 300 | | | |
| 57 | 0 | 18.75 | | 154.0 | | | |
| 61 | 1 | -1.85 | | 31.8 | | | |
| 63 | 4 | -0.13 | | 42.0 | | | |
| 68 | 0 | 34.94 | | 250.0 | | | |
| 70 | NR | | | < 50 | | | |
| 85 | 3 | 0.88 | | 48.0 | | | |
| 94 | 3 | 0.71 | | 47.0 | | | |
| 109 | 0 | -7.21 | | 0.0 | | | |
| 116 | 4 | 0.20 | | 44.0 | | | |
| 119 | 4 | 0.20 | | 44.0 | | | |
| 127 | 4 | -0.24 | | 41.4 | | | |
| 129 | 0 | 9.81 | | | | | 101.0 |
| 131 | 0 | 24.82 | | 190.0 | | | |
| 134 | 1 | -1.65 | | 33.0 | | | |
| 141 | 0 | 2.73 | | 59.0 | | | |
| 142 | 1 | 1.97 | | 54.5 | | | |
| 145 | 3 | -0.64 | | 39.0 | | | |
| 146 | 4 | -0.30 | | 41.0 | | | |
| 154 | 0 | -2.63 | | 27.2 | | | |
| 180 | 4 | -0.32 | | 40.9 | | | |
| 182 | 0 | 15.99 | | | | | 137.6 |
| 194 | NR | | | < 100 | | | |
| 210 | NR | | | < 100 | | | |
| 211 | 4 | -0.47 | | 40.0 | | | |
| 212 | 4 | -0.47 | 40.0 | | | | |
| 217 | NR | | | < 100 | | | |

Table 13. —Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
Ba (Barium) μ g/L



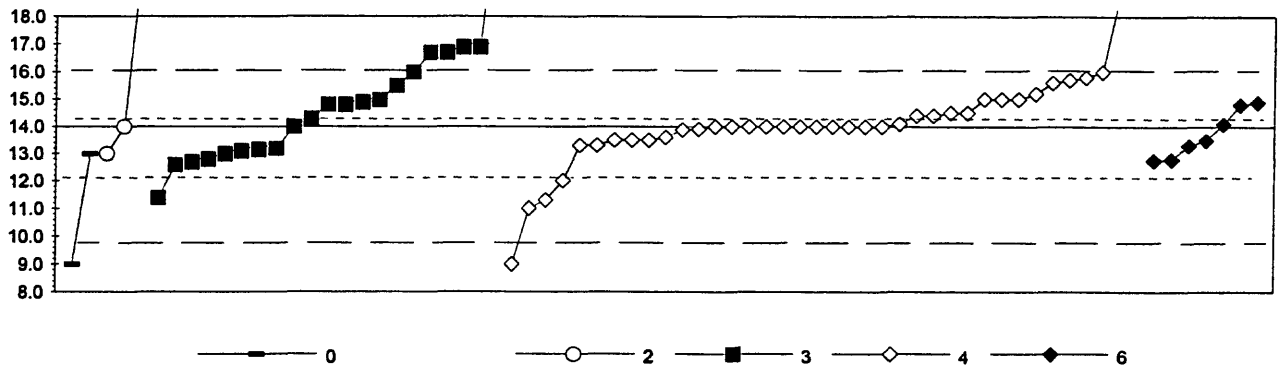
| | |
|-----------------------------|------------------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICPMS |
| 3. AA: graphite furnace | |
| N = | 1 1 18 45 1 5 |
| Minimum = | 19.9 82.5 14.0 7.0 21.8 19.7 |
| Maximum = | 77.0 210.0 |
| Median = | 20.2 20.0 |
| St Dev = | 3.11 1.90 |

MPV = 20.6
F-pseudostigma = 2.372
N = 71
Hu = 23.1
Hi = 19.9

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|---|------|------|-------|------|------|
| 1 | 4 | -0.39 | | | | 19.7 | | |
| 3 | 4 | 0.17 | | | | 21.0 | | |
| 4 | 4 | 0.17 | | | | 21.0 | | |
| 5 | 4 | -0.50 | | | | 19.4 | | |
| 7 | 4 | -0.04 | | | | 20.5 | | |
| 8 | 4 | 0.17 | | | | 21.0 | | |
| 11 | 1 | -1.94 | | | | 18.0 | | |
| 13 | 0 | 7.63 | | | 38.7 | | | |
| 15 | 3 | -0.76 | | | | 18.8 | | |
| 16 | 1 | 1.85 | | | | 25.0 | | |
| 18 | 4 | -0.25 | | | | 20.0 | | |
| 23 | 2 | 1.10 | | | 23.2 | | | |
| 24 | 4 | 0.00 | | | | 20.6 | | |
| 25 | 2 | -1.10 | | | | 18.0 | | |
| 29 | 0 | 26.09 | | 82.5 | | | | |
| 30 | 4 | 0.00 | | | | | | 20.6 |
| 32 | 4 | -0.38 | | | | | | 19.7 |
| 33 | 3 | 0.51 | | | | | 21.8 | |
| 39 | 4 | 0.46 | | | | | | 21.7 |
| 42 | 4 | -0.13 | | | | | | 20.3 |
| 45 | 4 | -0.08 | | | | 20.4 | | |
| 48 | 4 | -0.08 | | | | 20.4 | | |
| 50 | NR | | | | < 50 | | | |
| 52 | 0 | 3.25 | | | 28.3 | | | |
| 55 | 0 | 2.40 | | | | 26.3 | | |
| 57 | NR | | | | | < 50 | | |
| 58 | 0 | 3.71 | | | 29.4 | | | |
| 59 | 4 | -0.25 | | | | 20.0 | | |
| 61 | 3 | -0.55 | | | | 19.3 | | |
| 63 | 2 | 1.43 | | | | 24.0 | | |
| 68 | 0 | 79.84 | | | | 210.0 | | |
| 69 | 0 | 7.34 | | | 38.0 | | | |
| 70 | 4 | -0.34 | | | | 19.8 | | |
| 72 | 4 | -0.17 | | | | 20.2 | | |
| 75 | 4 | -0.25 | | | | 20.0 | | |
| 78 | 3 | 0.59 | | | 22.0 | | | |
| 83 | 4 | -0.38 | | | | 19.7 | | |
| 85 | 4 | 0.04 | | | | 20.7 | | |
| 86 | 3 | -0.84 | | | | 18.6 | | |
| 87 | NR | | | < 20 | | | | |
| 89 | 0 | 23.78 | | | 77.0 | | | |
| 90 | 0 | 4.55 | | | 31.4 | | | |
| 94 | 4 | -0.25 | | | | 20.0 | | |
| 96 | 0 | 4.43 | | | 31.1 | | | |
| 97 | 2 | 1.22 | | | 23.5 | | | |
| 102 | 0 | -2.36 | | | | 15.0 | | |
| 105 | 4 | -0.25 | | | | 20.0 | | |
| 107 | 4 | -0.30 | | | 19.9 | | | |
| 116 | 0 | -5.73 | | | | 7.0 | | |
| 117 | 0 | 10.29 | | | 45.0 | | | |

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|---|------|---|-------|------|
| 119 | 4 | 0.17 | | | | | 21.0 | |
| 120 | 0 | -2.78 | | | 14.0 | | | |
| 121 | 4 | -0.25 | | | | | 20.0 | |
| 127 | 4 | -0.30 | | | | | 19.9 | |
| 131 | 4 | -0.25 | | | | | 20.0 | |
| 133 | 4 | -0.38 | | | | | 19.7 | |
| 134 | 4 | 0.17 | | | | | 21.0 | |
| 138 | 4 | -0.34 | | | | | 19.8 | |
| 141 | 4 | 0.25 | | | | | 21.2 | |
| 142 | 4 | 0.48 | | | | | 21.7 | |
| 145 | 4 | 0.04 | | | | | 20.7 | |
| 146 | 3 | -0.51 | | | | | 19.4 | |
| 154 | 4 | -0.25 | | | | | 20.0 | |
| 180 | 4 | 0.00 | | | | | 20.6 | |
| 183 | 2 | -1.22 | | | 17.7 | | | |
| 193 | 4 | -0.25 | | | 20.0 | | | |
| 194 | NR | | | | | | < 100 | |
| 196 | 4 | 0.15 | | | | | | 21.0 |
| 198 | 4 | 0.04 | | | | | 20.7 | |
| 203 | 0 | 3.20 | | | 28.2 | | | |
| 204 | 2 | 1.01 | | | | | 23.0 | |
| 210 | NR | | | | | | < 50 | |
| 211 | 0 | 8.18 | | | | | 40.0 | |
| 212 | 4 | -0.30 | 19.9 | | | | | |
| 217 | 4 | -0.25 | | | | | 20.0 | |
| 221 | 0 | 6.28 | | | 35.5 | | | |

Table 13. —Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
 Be (Beryllium) μ g/L



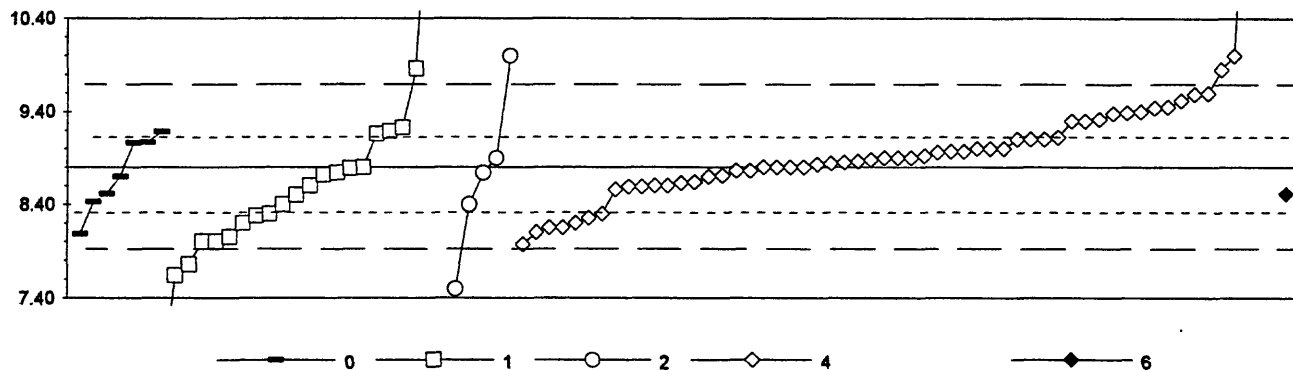
| | |
|-----------------------------|-------------------------|
| 0. Other | 3. AA: graphite furnace |
| 2. AA: direct nitrous oxide | 4. ICP |
| N = 2 | 6. ICP/MS |
| Minimum = 9.0 | 3 21 38 7 |
| Maximum = 13.0 | 13.0 11.4 9.0 12.8 |
| Median = | 20.0 22.1 26.0 14.9 |
| St Dev = | 14.6 14.0 13.5 |
| | 1.66 1.09 0.89 |

MPV = 14.0
 F-pseudosigma = 1.25
 N = 71
 Hu = 15.0
 HI = 13.3

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|------|------|------|------|
| 1 | 3 | -0.97 | | | | | 12.8 |
| 3 | 3 | 0.80 | | | | 15.0 | |
| 4 | 4 | 0.00 | | | | 14.0 | |
| 5 | 4 | -0.10 | | | | 13.9 | |
| 7 | 4 | -0.40 | | | | 13.5 | |
| 8 | 1 | -1.60 | | | | 12.0 | |
| 11 | 4 | 0.00 | | | | 14.0 | |
| 12 | NR | | | | | < 20 | |
| 15 | 0 | 3.67 | | | | 18.6 | |
| 16 | 1 | 1.60 | | | | 16.0 | |
| 18 | 4 | 0.00 | | | | 14.0 | |
| 23 | 2 | -1.12 | | 12.6 | | | |
| 24 | 3 | 0.78 | | 15.0 | | | |
| 25 | 4 | 0.32 | | | | 14.4 | |
| 30 | 3 | 0.72 | | | | 14.9 | |
| 32 | 3 | -0.56 | | | | 13.3 | |
| 39 | 3 | 0.64 | | | | 14.8 | |
| 42 | 4 | -0.40 | | | | 13.5 | |
| 45 | 4 | 0.40 | | | | 14.5 | |
| 46 | 3 | 0.96 | | | | 15.2 | |
| 48 | 4 | 0.24 | | | 14.3 | | |
| 52 | 4 | 0.00 | | | 14.0 | | |
| 55 | 2 | 1.44 | | | | 15.8 | |
| 57 | 3 | -0.80 | | | 13.0 | | |
| 58 | 0 | 6.47 | | | 22.1 | | |
| 59 | 4 | 0.00 | | | | 14.0 | |
| 60 | 0 | 2.16 | | | 16.7 | | |
| 61 | 4 | 0.08 | | | | 14.1 | |
| 63 | 3 | 0.80 | | | | 15.0 | |
| 68 | 1 | 1.60 | | | 16.0 | | |
| 69 | 3 | -0.68 | | | 13.2 | | |
| 70 | 4 | 0.00 | | | | 14.0 | |
| 72 | 4 | 0.00 | | | | 14.0 | |
| 75 | 4 | 0.00 | | | | 14.0 | |
| 76 | 4 | 0.08 | | | | 14.1 | |
| 78 | 3 | 0.72 | | | 14.9 | | |
| 79 | 0 | -2.16 | | | | 11.3 | |
| 83 | 4 | -0.40 | | | | 13.5 | |
| 85 | 4 | 0.32 | | | | 14.4 | |
| 86 | 3 | -0.56 | | | | 13.3 | |
| 94 | 4 | 0.00 | | | | 14.0 | |
| 97 | 3 | -0.72 | | | 13.1 | | |
| 102 | 0 | -3.99 | | | | 9.0 | |
| 105 | 4 | 0.00 | | | | 14.0 | |
| 109 | 0 | -4.03 | 9.0 | | | | |
| 114 | 0 | 4.79 | | 20.0 | | | |
| 117 | 0 | 2.31 | | | 16.9 | | |
| 119 | 3 | 0.64 | | | 14.8 | | |
| 120 | 0 | 2.16 | | | 16.7 | | |
| 127 | 4 | 0.00 | | | | 14.0 | |

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|---|------|
| 133 | 4 | -0.40 | | | | | 13.5 |
| 138 | 2 | 1.28 | | | | | 15.6 |
| 141 | 4 | -0.08 | | | | | 13.9 |
| 142 | 4 | -0.32 | | | | | 13.6 |
| 144 | 3 | -0.80 | | 13.0 | | | |
| 145 | 2 | 1.36 | | | | | 15.7 |
| 146 | 3 | -0.56 | | | | | 13.3 |
| 149 | 0 | -2.08 | | | 11.4 | | |
| 154 | 3 | -0.96 | | | 12.8 | | |
| 179 | 3 | -0.64 | | | 13.2 | | |
| 180 | 4 | 0.00 | | | | | 14.0 |
| 182 | 4 | 0.00 | | 14.0 | | | |
| 183 | 0 | 2.31 | | | 16.9 | | |
| 194 | 3 | 0.64 | | | 14.8 | | |
| 196 | 3 | -0.99 | | | | | 12.8 |
| 198 | 2 | -1.04 | | | 12.7 | | |
| 202 | 4 | 0.40 | | | | | 14.5 |
| 210 | 0 | 9.58 | | | | | 26.0 |
| 211 | 0 | -2.39 | | | | | 11.0 |
| 212 | 3 | -0.80 | 13.0 | | | | |
| 213 | 2 | 1.20 | | | 15.5 | | |
| 217 | 3 | 0.80 | | | | | 15.0 |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Ca (Calcium) **m g/L**



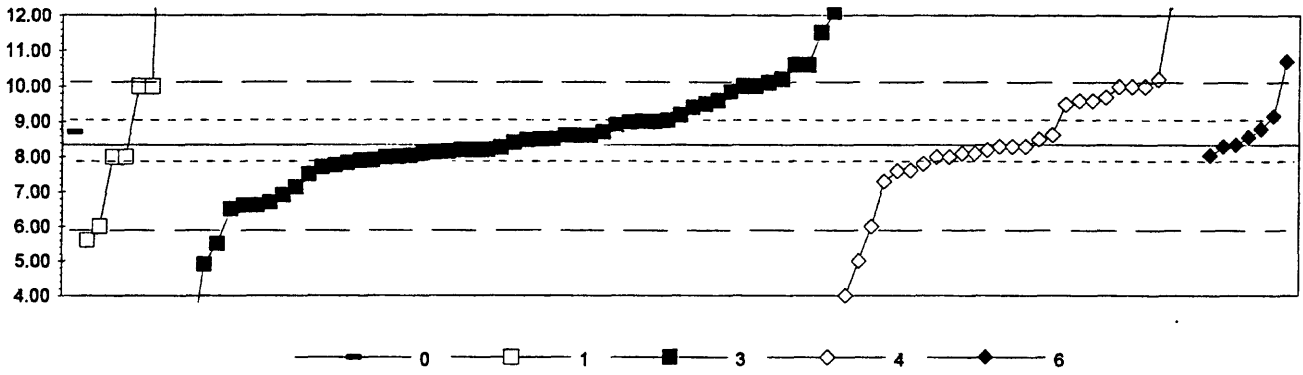
| | |
|------------------------------------|-----------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | |
| N = 7 23 5 55 1 | |
| Minimum = 8.08 5.15 7.50 7.97 8.51 | |
| Maximum = 9.18 18.12 10.00 12.80 | |
| Median = 8.70 8.50 8.89 | |
| St Dev = 0.564 0.438 | |

MPV = 8.80
 F-pseudsigma = 0.448
 N = 91
 Hu = 9.11
 HI = 8.51

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|---|-------|------|-------|------|
| 1 | 4 | -0.02 | | 8.79 | | | |
| 3 | 3 | 0.67 | | | | 9.10 | |
| 4 | 4 | 0.00 | | | | 8.80 | |
| 5 | 2 | -1.22 | | | | 8.25 | |
| 7 | 4 | 0.11 | | | | 8.85 | |
| 8 | 4 | 0.22 | | | | 8.90 | |
| 9 | 1 | -1.78 | | 8.00 | | | |
| 11 | 1 | 1.76 | | | | 9.59 | |
| 12 | 0 | 2.68 | | | | 10.00 | |
| 13 | 3 | -0.89 | | 8.40 | | | |
| 15 | 4 | -0.38 | | | | 8.63 | |
| 16 | 4 | 0.22 | | | | 8.90 | |
| 18 | 4 | 0.38 | | | | 8.97 | |
| 19 | 4 | -0.09 | | | | 8.76 | |
| 23 | 0 | 7.80 | | 12.30 | | | |
| 24 | 4 | 0.13 | | | | 8.86 | |
| 25 | 2 | 1.32 | | | | 9.39 | |
| 27 | 3 | -0.65 | | 8.51 | | | |
| 32 | 3 | -0.65 | | | | | 8.51 |
| 33 | 3 | 0.60 | | 9.07 | | | |
| 39 | 1 | 1.61 | | | | 9.52 | |
| 42 | 3 | 0.67 | | | | 9.10 | |
| 43 | 4 | 0.45 | | | | 9.00 | |
| 45 | 3 | -0.83 | | 8.43 | | | |
| 46 | 3 | 0.67 | | | | 9.10 | |
| 48 | 2 | 1.11 | | | | 9.30 | |
| 51 | 2 | -1.45 | | | | 8.15 | |
| 52 | 4 | -0.20 | | | | 8.71 | |
| 54 | 4 | 0.00 | | 8.80 | | | |
| 55 | 4 | -0.47 | | | | 8.59 | |
| 57 | 4 | 0.45 | | | | 9.00 | |
| 58 | 0 | -2.32 | | 7.76 | | | |
| 59 | 2 | -1.11 | | | | 8.30 | |
| 61 | 4 | 0.38 | | | | 8.97 | |
| 63 | 0 | 2.34 | | | | 9.85 | |
| 68 | 4 | 0.45 | | | | 9.00 | |
| 69 | 2 | -1.34 | | 8.20 | | | |
| 70 | 3 | 0.71 | | | | 9.12 | |
| 72 | 0 | 8.92 | | | | 12.80 | |
| 75 | 4 | 0.22 | | | | 8.90 | |
| 76 | 3 | 0.80 | | 9.16 | | | |
| 78 | 3 | -0.67 | | 8.50 | | | |
| 83 | 3 | -0.54 | | | | 8.56 | |
| 84 | 4 | -0.18 | | 8.72 | | | |
| 85 | 4 | -0.13 | | 8.74 | | | |
| 86 | 4 | 0.18 | | | | 8.88 | |
| 87 | 0 | -2.90 | | | 7.50 | | |
| 89 | 3 | 0.96 | | 9.23 | | | |
| 94 | 4 | 0.09 | | | | 8.84 | |
| 97 | 2 | -1.16 | | 8.28 | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|---|-------|---|------|------|
| 102 | 1 | -1.56 | | | | | 8.10 |
| 105 | 4 | -0.45 | | | | | 8.60 |
| 107 | 2 | -1.11 | | 8.30 | | | |
| 109 | 3 | 0.85 | | 9.18 | | | |
| 114 | 0 | 2.68 | | | | | |
| 116 | 2 | 1.45 | | | | | 9.45 |
| 117 | 0 | -2.59 | | 7.64 | | | |
| 119 | 4 | -0.36 | | | | | 8.64 |
| 120 | 0 | 20.78 | | 18.12 | | | |
| 121 | 4 | 0.00 | | | | | 8.80 |
| 127 | 4 | -0.22 | | | | | 8.70 |
| 129 | 1 | -1.78 | | 8.00 | | | |
| 131 | 1 | 1.78 | | | | | 9.60 |
| 133 | 2 | -1.45 | | | | | 8.15 |
| 134 | 4 | -0.47 | | | | | 8.59 |
| 136 | 1 | -1.61 | | 8.08 | | | |
| 138 | 2 | 1.29 | | | | | 9.38 |
| 140 | 4 | -0.45 | | 8.60 | | | |
| 141 | 2 | 1.16 | | | | | 9.32 |
| 142 | 2 | 1.43 | | | | | 9.44 |
| 145 | 2 | 1.34 | | | | | 9.40 |
| 146 | 1 | -1.85 | | | | | 7.97 |
| 149 | 0 | -5.57 | | 6.30 | | | |
| 154 | 4 | -0.09 | | | | | 8.76 |
| 179 | 1 | -1.67 | | 8.05 | | | |
| 180 | 4 | 0.07 | | | | | 8.83 |
| 182 | 4 | 0.22 | | | | 8.90 | |
| 185 | 4 | -0.13 | | | | 8.74 | |
| 190 | 3 | 0.58 | | 9.06 | | | |
| 193 | 3 | -0.89 | | | | 8.40 | |
| 194 | 4 | 0.00 | | | | | 8.80 |
| 196 | 3 | 0.87 | | 9.19 | | | |
| 198 | 4 | 0.36 | | | | | 8.96 |
| 202 | 4 | -0.45 | | | | | 8.60 |
| 203 | 0 | 2.36 | | 9.86 | | | |
| 204 | 4 | 0.27 | | | | | 8.92 |
| 210 | 2 | -1.34 | | | | | 8.20 |
| 211 | 2 | 1.11 | | | | | 9.30 |
| 212 | 4 | -0.22 | | 8.70 | | | |
| 217 | 4 | 0.00 | | | | | 8.80 |
| 221 | 0 | -8.14 | | 5.15 | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Cd (Cadmium) $\mu\text{g/L}$



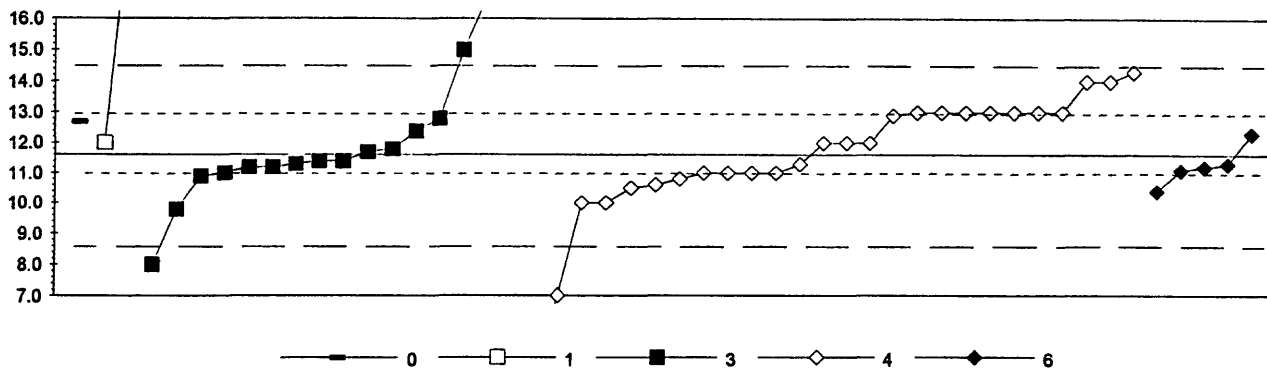
| | |
|-------------------------|----------------------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 7 52 28 7 |
| Minimum = | 8.70 5.60 1.29 4.00 8.05 |
| Maximum = | 21.30 12.10 17.00 10.70 |
| Median = | 8.00 8.40 8.30 8.56 |
| St Dev = | 1.883 1.288 1.276 0.896 |

MPV = 8.34
F-pseudostigma = 1.227
N = 95
Hu = 9.55
HI = 7.90

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|-------|-------|-------|-------|
| 1 | 4 | 0.18 | | | | | 8.56 |
| 3 | 3 | 0.54 | | 9.00 | | | |
| 4 | 0 | -3.54 | | | | 4.00 | |
| 5 | 4 | 0.24 | | | | 8.63 | |
| 7 | 2 | 1.03 | | 9.60 | | | |
| 8 | 2 | 1.35 | | | 10.00 | | |
| 9 | 4 | 0.21 | | 8.60 | | | |
| 11 | 4 | -0.28 | | | | 8.00 | |
| 12 | 4 | 0.21 | | 8.60 | | | |
| 13 | 2 | -1.50 | | 6.50 | | | |
| 15 | NR | | | | | < 10 | |
| 16 | 0 | 6.24 | | | | 16.00 | |
| 18 | 0 | -5.75 | | 1.29 | | | |
| 19 | 3 | -0.85 | | | | 7.30 | |
| 23 | 1 | 1.52 | | 10.20 | | | |
| 24 | 4 | -0.11 | | | | 8.20 | |
| 25 | 2 | 1.35 | | | | 10.00 | |
| 29 | 3 | -0.68 | | | 7.50 | | |
| 30 | 1 | 1.92 | | | | | 10.70 |
| 32 | 4 | -0.03 | | | | | 8.30 |
| 39 | 4 | 0.37 | | | | | 8.80 |
| 42 | 4 | -0.24 | | | | | 8.05 |
| 45 | 4 | 0.11 | | | 8.47 | | |
| 46 | 4 | -0.15 | | | 8.15 | | |
| 48 | 4 | -0.28 | | | 8.00 | | |
| 50 | 2 | 1.35 | | 10.00 | | | |
| 51 | 0 | 3.06 | | | 12.10 | | |
| 52 | 4 | -0.37 | | | 7.89 | | |
| 55 | 4 | 0.46 | | | 8.90 | | |
| 57 | 3 | 0.86 | | | 9.40 | | |
| 58 | 2 | 1.43 | | 10.10 | | | |
| 59 | 4 | -0.28 | | | | 8.00 | |
| 60 | 4 | 0.13 | | | 8.50 | | |
| 61 | 0 | 3.31 | | | | 12.40 | |
| 63 | 2 | -1.17 | | 6.90 | | | |
| 68 | 0 | -2.31 | | 5.50 | | | |
| 69 | 4 | -0.29 | | | 7.98 | | |
| 70 | 2 | -1.42 | | | 6.60 | | |
| 72 | 4 | -0.20 | | | | 8.10 | |
| 73 | 4 | -0.20 | | | | 8.10 | |
| 75 | 4 | 0.13 | | | | 8.50 | |
| 76 | 4 | -0.42 | | | 7.83 | | |
| 78 | 4 | -0.11 | | | 8.20 | | |
| 79 | 4 | 0.21 | | | 8.60 | | |
| 80 | 2 | 1.35 | | 10.00 | | | |
| 83 | 4 | -0.03 | | | | 8.30 | |
| 85 | 0 | -2.23 | | 5.60 | | | |
| 86 | 4 | -0.44 | | | | 7.80 | |
| 87 | 4 | -0.28 | | 8.00 | | | |
| 89 | 3 | 0.51 | | | 8.97 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|---|-------|-------|
| 94 | 4 | -0.03 | | | | | 8.30 |
| 96 | 4 | -0.36 | | | | 7.90 | |
| 97 | 3 | 0.68 | | | | 9.18 | |
| 102 | 0 | -2.72 | | | | | 5.00 |
| 105 | 4 | 0.00 | | | | | 8.34 |
| 107 | 0 | -5.12 | | | | 2.06 | |
| 108 | 4 | -0.20 | | | | 8.10 | |
| 111 | 4 | 0.05 | | | | 8.40 | |
| 114 | 2 | 1.35 | | 10.00 | | | |
| 117 | 0 | 2.58 | | | | 11.50 | |
| 118 | 2 | 1.22 | | | | 9.84 | |
| 119 | 4 | 0.29 | | | | 8.70 | |
| 120 | 3 | -0.52 | | | | 7.70 | |
| 121 | 2 | 1.35 | | | | 10.00 | |
| 127 | 3 | -0.59 | | | | | 7.62 |
| 131 | 1 | -1.91 | | | | | 6.00 |
| 133 | 1 | 1.52 | | | | | 10.20 |
| 134 | 3 | 0.95 | | | | 9.50 | |
| 138 | 4 | -0.07 | | | | 8.26 | |
| 140 | 1 | -1.91 | | 6.00 | | | |
| 141 | 2 | 1.03 | | | | | 9.60 |
| 142 | 4 | -0.11 | | | | 8.20 | |
| 144 | 4 | -0.11 | | | | 8.20 | |
| 145 | 2 | 1.11 | | | | | 9.70 |
| 146 | 3 | 0.95 | | | | | 9.50 |
| 154 | 4 | 0.13 | | | | 8.50 | |
| 158 | 2 | -1.42 | | | | 6.60 | |
| 179 | 2 | -1.34 | | | | 6.70 | |
| 180 | 4 | -0.03 | | | | | 8.30 |
| 183 | 1 | 1.84 | | | | 10.60 | |
| 190 | 3 | 0.57 | | | | 9.04 | |
| 193 | 4 | -0.28 | | 8.00 | | | |
| 194 | 3 | 0.54 | | | | 9.00 | |
| 196 | 3 | 0.68 | | | | | 9.17 |
| 198 | 4 | -0.47 | | | | 7.76 | |
| 202 | 2 | 1.03 | | | | | 9.60 |
| 203 | 0 | -2.80 | | | | 4.90 | |
| 204 | 3 | -0.99 | | | | 7.13 | |
| 210 | 0 | 7.06 | | | | | 17.00 |
| 211 | 2 | 1.35 | | | | | 10.00 |
| 212 | 4 | 0.29 | 8.70 | | | | |
| 213 | 4 | -0.17 | | | | 8.13 | |
| 216 | 0 | 10.56 | | 21.30 | | | |
| 217 | 3 | -0.60 | | | | | 7.60 |
| 220 | 4 | -0.25 | | | | | 8.03 |
| 221 | 1 | 1.84 | | | | 10.60 | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Co (Cobalt) **μ g/L**



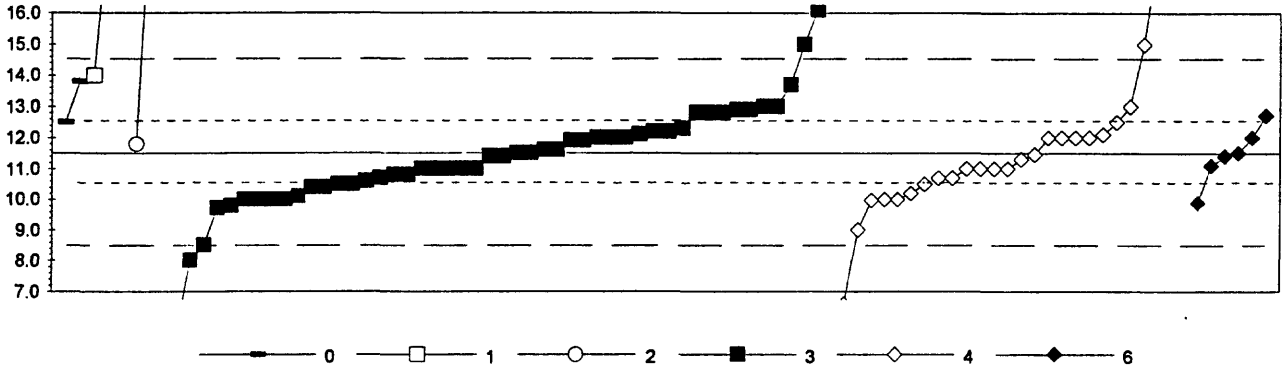
| | |
|-------------------------|------------------------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 2 16 26 5 |
| Minimum = | 12.7 12.0 8.0 4.6 10.4 |
| Maximum = | 20.0 29.0 14.3 12.3 |
| Median = | 11.4 12.0 |
| St Dev = | 1.54 1.31 |

MPV = 11.6
 F-pseudosigma = 1.48
 N = 50
 Hu = 13.0
 Hi = 11.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|------|------|------|------|
| 1 | 4 | -0.17 | | | 11.3 | | |
| 3 | 1 | 1.65 | | | | 14.0 | |
| 5 | 4 | -0.18 | | | | 11.3 | |
| 7 | 4 | -0.37 | | | | 11.0 | |
| 8 | 4 | -0.37 | | | | 11.0 | |
| 11 | 3 | 0.98 | | | | 13.0 | |
| 15 | 4 | -0.24 | | | 11.2 | | |
| 16 | 1 | 1.65 | | | | 14.0 | |
| 18 | 3 | 0.98 | | | | 13.0 | |
| 24 | 3 | 0.91 | | | | 12.9 | |
| 25 | 3 | 0.98 | | | | 13.0 | |
| 30 | 3 | -0.78 | | | | | 10.4 |
| 32 | 4 | -0.24 | | | | | 11.2 |
| 39 | 4 | -0.17 | | | | | 11.3 |
| 42 | 4 | -0.30 | | | | | 11.1 |
| 48 | NR | | | | | | < 50 |
| 50 | 0 | 2.33 | | | 15.0 | | |
| 51 | 3 | 0.57 | | | 12.4 | | |
| 52 | 4 | -0.44 | | | 10.9 | | |
| 55 | 2 | -1.18 | | | 9.8 | | |
| 57 | NR | | | | < 40 | | |
| 58 | 4 | 0.10 | | | 11.7 | | |
| 61 | 2 | -1.05 | | | | 10.0 | |
| 63 | 0 | 5.70 | | 20.0 | | | |
| 68 | 3 | 0.98 | | | | 13.0 | |
| 70 | NR | | | | | | < 50 |
| 72 | 0 | -4.69 | | | | 4.6 | |
| 75 | 4 | 0.30 | | | | 12.0 | |
| 85 | 3 | 0.98 | | | | 13.0 | |
| 86 | 3 | -0.64 | | | | 10.6 | |
| 89 | 0 | 11.77 | | | 29.0 | | |
| 94 | 4 | -0.37 | | | | 11.0 | |
| 97 | 4 | -0.24 | | | 11.2 | | |
| 102 | 0 | -3.07 | | | | 7.0 | |
| 105 | 3 | 0.98 | | | | 13.0 | |
| 121 | 4 | -0.37 | | | 11.0 | | |
| 127 | 4 | -0.10 | | | 11.4 | | |
| 131 | 4 | 0.30 | | | | 12.0 | |
| 134 | 3 | 0.84 | | | 12.8 | | |
| 138 | 4 | 0.17 | | | 11.8 | | |
| 141 | 4 | -0.37 | | | | 11.0 | |
| 145 | 1 | 1.85 | | | | 14.3 | |
| 146 | 3 | -0.71 | | | | 10.5 | |
| 154 | 3 | 0.98 | | | | 13.0 | |
| 180 | 3 | -0.51 | | | | 10.8 | |
| 190 | 4 | -0.10 | | | 11.4 | | |
| 193 | 4 | 0.30 | | 12.0 | | | |
| 196 | 3 | 0.51 | | | | | 12.3 |
| 210 | NR | | | | | | < 50 |
| 211 | 4 | 0.30 | | | | 12.0 | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|------|---|
| 212 | 3 | 0.78 | 12.7 | | | | |
| 213 | 0 | -2.39 | | | 8.0 | | |
| 217 | 2 | -1.05 | | | | 10.0 | |
| 221 | 0 | 3.54 | | | 16.8 | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Cr (Chromium) μ g/L



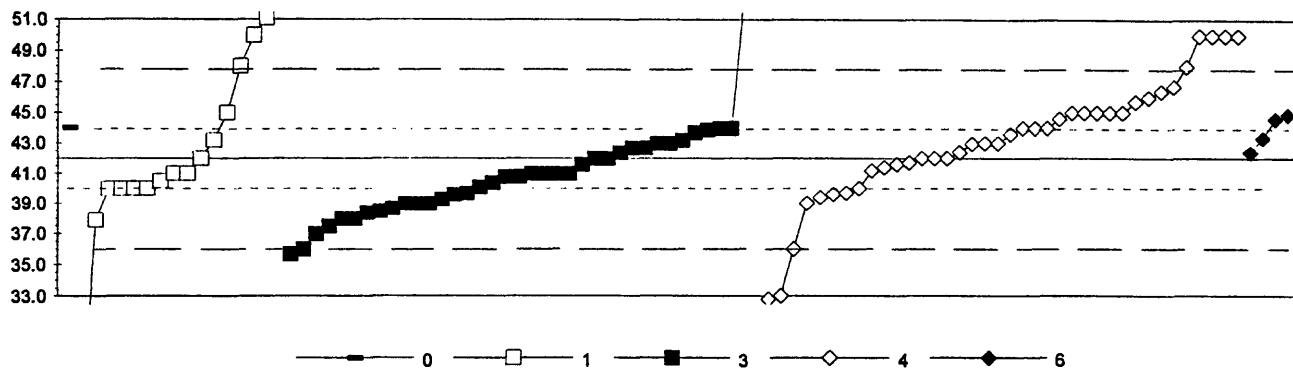
| | | | | | |
|-----------------------------|-------------------------|------|------|-------|------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 2 | 3 | 2 | 50 | 26 | 6 |
| Minimum = 12.5 | 14.0 | 11.8 | 0.2 | 6.6 | 9.9 |
| Maximum = 13.8 | 95.0 | 20.0 | 18.4 | 10000 | 12.7 |
| Median = | | | 11.4 | 11.0 | |
| St Dev = | | | 1.33 | 1.27 | |

MPV = 11.5
 F-pseudostigma = 1.48
 N = 89
 Hu = 12.5
 HI = 10.5

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|---|------|------|-------|------|
| 1 | 3 | -0.67 | | | | 10.5 | | |
| 3 | 2 | -1.01 | | | | | 10.0 | |
| 4 | 0 | 6737.24 | | | | | 10000 | |
| 5 | 4 | -0.03 | | | | | 11.5 | |
| 7 | 4 | -0.13 | | | | | 11.3 | |
| 8 | 1 | -1.69 | | | | | | 9.0 |
| 9 | 4 | -0.47 | | | | 10.8 | | |
| 12 | NR | | | | | | < 20 | |
| 13 | 0 | 3.10 | | | | 16.1 | | |
| 15 | 4 | -0.07 | | | | 11.4 | | |
| 16 | 0 | 4.38 | | | | | 18.0 | |
| 18 | 4 | 0.34 | | | | | 12.0 | |
| 19 | 3 | -0.54 | | | | | 10.7 | |
| 23 | 0 | -7.63 | | | | 0.2 | | |
| 24 | 3 | -0.67 | | | | | 10.5 | |
| 25 | 4 | 0.34 | | | | | 12.0 | |
| 29 | 3 | 0.88 | | | | 12.8 | | |
| 30 | 2 | -1.09 | | | | | | 9.9 |
| 32 | 4 | -0.27 | | | | | | 11.1 |
| 39 | 4 | 0.34 | | | | | | 12.0 |
| 42 | 4 | -0.07 | | | | | | 11.4 |
| 45 | 4 | 0.34 | | | | 12.0 | | |
| 46 | 3 | -0.61 | | | | 10.6 | | |
| 48 | 2 | -1.15 | | | | 9.8 | | |
| 50 | 0 | 2.36 | | | | 15.0 | | |
| 51 | 3 | 0.94 | | | | 12.9 | | |
| 52 | 4 | 0.00 | | | | 11.5 | | |
| 55 | 3 | -0.74 | | | | 10.4 | | |
| 57 | 4 | -0.34 | | | | 11.0 | | |
| 58 | 3 | 0.94 | | | | 12.9 | | |
| 59 | 4 | -0.34 | | | | | 11.0 | |
| 60 | 3 | 0.54 | | | | 12.3 | | |
| 61 | 0 | -3.31 | | | | | 6.6 | |
| 63 | 4 | -0.34 | | | | 11.0 | | |
| 68 | 4 | 0.34 | | | | | 12.0 | |
| 69 | 4 | 0.40 | | | | 12.1 | | |
| 70 | 3 | 0.67 | | | | | 12.5 | |
| 72 | 3 | -0.54 | | | | | 10.7 | |
| 75 | 4 | 0.34 | | | | 12.0 | | |
| 76 | 4 | -0.47 | | | | 10.8 | | |
| 78 | 4 | 0.07 | | | | 11.6 | | |
| 79 | 4 | 0.34 | | | | 12.0 | | |
| 85 | NR | | | | | | < 20 | |
| 86 | 3 | -0.88 | | | | | 10.2 | |
| 87 | 4 | 0.20 | | | 11.8 | | | |
| 89 | 2 | 1.48 | | | | 13.7 | | |
| 90 | 4 | -0.34 | | | | 11.0 | | |
| 94 | 4 | -0.34 | | | | | 11.0 | |
| 96 | 4 | 0.47 | | | | 12.2 | | |
| 97 | 4 | 0.07 | | | | 11.6 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|---|------|-------|
| 102 | 0 | 2.36 | | | | | | 15.0 |
| 105 | 4 | 0.00 | | | | | | 11.5 |
| 107 | 3 | 0.88 | | | | | 12.8 | |
| 108 | 2 | -1.01 | | | | | 10.0 | |
| 111 | 4 | -0.07 | | | | | 11.4 | |
| 114 | 0 | 5.73 | | | 20.0 | | | |
| 117 | 0 | -2.36 | | | | | 8.0 | |
| 118 | 0 | -3.91 | | | | | 5.7 | |
| 119 | 4 | 0.27 | | | | | 11.9 | |
| 120 | 3 | -0.54 | | | | | 10.7 | |
| 127 | 4 | 0.00 | | | | | 11.5 | |
| 131 | 4 | -0.34 | | | | | | 11.0 |
| 133 | 2 | -1.03 | | | | | | 10.0 |
| 134 | 3 | 0.67 | 12.5 | | | | | |
| 138 | 4 | -0.34 | | | | | 11.0 | |
| 140 | 1 | 1.69 | | 14.0 | | | | |
| 141 | 2 | 1.01 | | | | | | 13.0 |
| 142 | 2 | -1.01 | | | | | 10.0 | |
| 144 | 3 | -0.67 | | | | | 10.5 | |
| 145 | NR | | | | | | | < 14 |
| 146 | 4 | 0.40 | | | | | | 12.1 |
| 153 | 3 | 0.88 | | | | | 12.8 | |
| 158 | 3 | -0.94 | | | | | 10.1 | |
| 179 | 2 | 1.01 | | | | | 13.0 | |
| 180 | 4 | -0.34 | | | | | | 11.0 |
| 182 | 0 | 56.32 | | 95.0 | | | | |
| 183 | 1 | -2.02 | | | | | 8.5 | |
| 190 | 3 | -0.74 | | | | | 10.4 | |
| 193 | 2 | -1.01 | | | | | 10.0 | |
| 194 | 2 | 1.01 | | | | | 13.0 | |
| 196 | 3 | 0.82 | | | | | | 12.7 |
| 198 | 4 | -0.34 | | | | | 11.0 | |
| 202 | 4 | 0.34 | | | | | | 12.0 |
| 203 | 4 | 0.27 | | | | | 11.9 | |
| 204 | 2 | -1.20 | | | | | 9.7 | |
| 210 | 0 | 457.65 | | | | | | 690.0 |
| 211 | 2 | -1.01 | | | | | | 10.0 |
| 212 | 1 | 1.55 | 13.8 | | | | | |
| 213 | 4 | 0.47 | | | | | 12.2 | |
| 216 | 0 | 5.19 | | 19.2 | | | | |
| 217 | 2 | -1.01 | | | | | 10.0 | |
| 221 | 0 | 4.65 | | | | | | 18.4 |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Cu (Copper) μ g/L

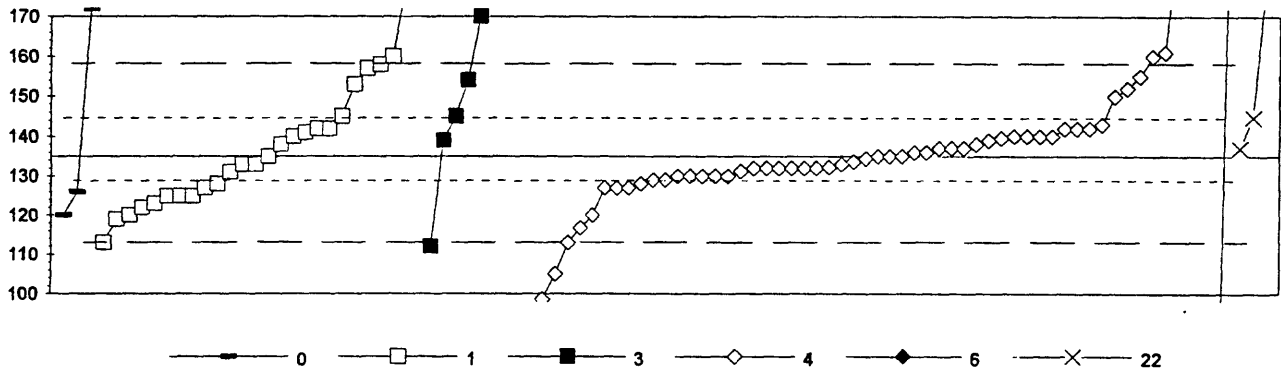


| | 0. Other | 1. AA: direct air | 3. AA: graphite furnace | 4. ICP | 6. ICP/MS |
|-----------|----------|-------------------|-------------------------|--------|-----------|
| N = | 1 | 16 | 38 | 38 | 4 |
| Minimum = | 44.0 | 25.0 | 35.7 | 32.8 | 42.4 |
| Maximum = | | 96.5 | 84.3 | 50.0 | 44.9 |
| Median = | | 41.0 | 40.8 | 43.8 | |
| St Dev = | | 3.50 | 2.30 | 3.34 | |

MPV = 42.0
F-pseudostigma = 2.97
N = 97
Hu = 44.0
Hi = 40.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|------|------|
| 1 | 4 | 0.24 | | | 42.7 | | |
| 3 | 0 | 2.70 | | | | 50.0 | |
| 5 | 4 | 0.32 | | | | 43.0 | |
| 7 | 4 | -0.20 | | | | 41.4 | |
| 8 | 4 | 0.00 | | | | 42.0 | |
| 9 | 4 | 0.34 | | | 43.0 | | |
| 11 | 2 | 1.01 | | | | 45.0 | |
| 12 | 4 | -0.34 | | | 41.0 | | |
| 13 | 1 | -1.52 | | | 37.5 | | |
| 15 | 3 | -0.91 | | | 39.3 | | |
| 16 | 2 | 1.01 | | | | 45.0 | |
| 18 | 3 | 0.67 | | | | 44.0 | |
| 23 | 1 | -1.69 | | | 37.0 | | |
| 24 | 2 | 1.01 | | | | 45.0 | |
| 25 | 4 | 0.34 | | | | 43.0 | |
| 29 | 3 | -0.67 | 40.0 | | | | |
| 30 | 3 | 0.98 | | | | 44.9 | |
| 32 | 3 | 0.88 | | | | 44.6 | |
| 39 | 2 | 1.01 | | | 45.0 | | |
| 42 | 4 | 0.13 | | | | 42.4 | |
| 45 | 3 | -0.78 | | | 39.7 | | |
| 46 | 3 | -0.54 | | | 40.4 | | |
| 48 | 0 | 2.70 | | | | 50.0 | |
| 50 | 4 | 0.34 | | | 43.0 | | |
| 51 | 3 | 0.67 | | | 44.0 | | |
| 52 | 3 | 0.54 | | | | 43.6 | |
| 55 | 4 | -0.27 | | | | 41.2 | |
| 57 | 0 | 2.70 | 50.0 | | | | |
| 58 | 4 | -0.34 | | | 41.0 | | |
| 59 | 2 | 1.01 | | | | 45.0 | |
| 60 | 3 | 0.57 | | | 43.7 | | |
| 61 | 2 | 1.48 | | | | 46.4 | |
| 63 | 2 | -1.01 | | | 39.0 | | |
| 68 | 0 | 2.70 | | | | 50.0 | |
| 69 | 4 | 0.00 | | | 42.0 | | |
| 70 | 4 | 0.13 | | | | 42.4 | |
| 72 | 3 | -0.88 | | | | 39.4 | |
| 73 | 0 | 2.70 | | | | 50.0 | |
| 75 | 4 | 0.00 | | | | 42.0 | |
| 76 | 2 | -1.38 | 37.9 | | | | |
| 78 | 4 | -0.40 | | | 40.8 | | |
| 79 | 2 | -1.01 | | | 39.0 | | |
| 80 | 2 | -1.01 | | | 39.0 | | |
| 83 | 4 | -0.10 | | | | 41.7 | |
| 85 | 4 | 0.40 | 43.2 | | | | |
| 86 | 3 | -0.81 | | | | 39.6 | |
| 87 | 4 | 0.00 | 42.0 | | | | |
| 89 | 2 | -1.35 | | | 38.0 | | |
| 94 | 4 | 0.00 | | | | 42.0 | |
| 96 | 3 | -0.64 | | | 40.1 | | |
| 97 | 4 | -0.34 | | | | 41.0 | |
| 102 | 0 | -3.04 | | | | | 33.0 |
| 105 | 3 | 0.67 | | | | | 44.0 |
| 107 | 3 | 0.67 | | | | 44.0 | |
| 108 | 3 | -0.67 | 40.0 | | | | |
| 111 | 0 | -2.12 | | | | 35.7 | |
| 114 | 3 | -0.67 | 40.0 | | | | |
| 117 | 0 | 18.38 | 96.5 | | | | |
| 118 | 4 | 0.13 | | | | 42.4 | |
| 119 | 4 | 0.34 | | | | | 43.0 |
| 120 | 2 | -1.18 | | | | 38.5 | |
| 121 | 4 | 0.00 | | | | 42.0 | |
| 127 | 3 | 0.64 | | | | 43.9 | |
| 131 | 1 | 2.02 | | | | | 48.0 |
| 133 | 0 | -3.10 | | | | | 32.8 |
| 134 | 4 | 0.24 | | | | 42.7 | |
| 138 | 3 | 0.88 | | | | | 44.6 |
| 140 | 1 | 2.02 | 48.0 | | | | |
| 141 | 2 | 1.25 | | | | | 45.7 |
| 142 | 3 | -0.67 | | | | | 40.0 |
| 144 | 4 | -0.40 | | | | 40.8 | |
| 145 | 1 | 1.59 | | | | | 46.7 |
| 146 | 3 | -0.78 | | | | | 39.7 |
| 149 | 2 | 1.01 | 45.0 | | | | |
| 153 | 4 | 0.40 | | | | 43.2 | |
| 154 | 2 | -1.35 | | | | 38.0 | |
| 158 | 1 | -2.02 | | | | 36.0 | |
| 179 | 3 | -0.81 | | | | 39.6 | |
| 180 | 4 | -0.13 | | | | | 41.6 |
| 182 | 0 | -5.73 | 25.0 | | | | |
| 183 | 4 | -0.13 | | | | 41.6 | |
| 190 | 2 | -1.21 | | | | 38.4 | |
| 193 | 4 | -0.34 | 41.0 | | | | |
| 194 | 4 | -0.34 | 41.0 | | | | |
| 196 | 4 | 0.46 | | | | | 43.4 |
| 198 | 3 | 0.67 | | | | | 44.0 |
| 202 | 2 | 1.35 | | | | | 46.0 |
| 203 | 3 | -0.51 | 40.5 | | | | |
| 204 | 2 | -1.11 | | | | 38.7 | |
| 210 | 0 | 14.27 | | | | 84.3 | |
| 211 | 1 | -2.02 | | | | | 36.0 |
| 212 | 3 | 0.67 | 44.0 | | | | |
| 213 | 3 | -0.67 | | | | 40.0 | |
| 216 | 0 | 3.07 | | | | 51.1 | |
| 217 | 2 | -1.01 | | | | | 39.0 |
| 220 | 4 | -0.34 | | | | 41.0 | |
| 221 | 0 | 3.81 | | | | 53.3 | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Fe (Iron)
 μ g/L



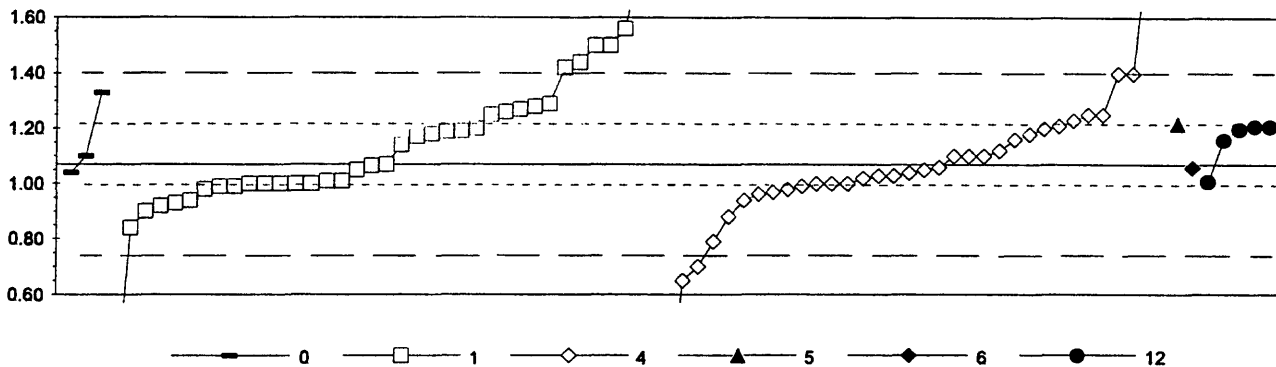
| | | | | | |
|-------------------------|------------------|------|------|-----|-----|
| 0. Other | 4. ICP | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | 22. Colorimetric | | | | |
| N = 3 | 26 | 8 | 55 | 2 | 3 |
| Minimum = 120 | 113 | 112 | 40 | 12 | 137 |
| Maximum = 172 | 450 | 189 | 2800 | 174 | 180 |
| Median = 133 | | 134 | | | |
| St Dev = 13.1 | | 10.1 | | | |

MPV = 135
 F-pseudostigma = 11.7
 N = 97
 Hu = 145
 HI = 129

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 22 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | -0.32 | | | | 131 | | |
| 3 | 2 | -1.28 | | | | 120 | | |
| 4 | 0 | 2.22 | | | | 161 | | |
| 5 | 4 | -0.05 | | | | 134 | | |
| 7 | 4 | 0.00 | | | | 135 | | |
| 8 | 0 | -2.56 | | | | 105 | | |
| 9 | 4 | -0.17 | | 133 | | | | |
| 11 | 0 | 4.61 | | | | 189 | | |
| 12 | 4 | -0.43 | | | | 130 | | |
| 13 | 4 | 0.26 | | 138 | | | | |
| 15 | 3 | -0.51 | | | | 129 | | |
| 16 | 2 | 1.28 | | | | 150 | | |
| 18 | 4 | 0.17 | | | | 137 | | |
| 19 | 4 | -0.23 | | | | 132 | | |
| 21 | 4 | 0.17 | | | | | | 137 |
| 23 | 3 | 0.51 | | 141 | | | | |
| 24 | 4 | -0.26 | | | | 132 | | |
| 25 | 0 | -8.11 | | | | 40 | | |
| 30 | 0 | -10.54 | | | | | 12 | |
| 32 | 0 | 3.33 | | | | | 174 | |
| 33 | 3 | -0.77 | 126 | | | | | |
| 39 | 3 | 0.60 | | | | 142 | | |
| 42 | 3 | 0.60 | | | | 142 | | |
| 43 | 4 | 0.00 | | | | 135 | | |
| 45 | 3 | -0.60 | | 128 | | | | |
| 46 | 4 | -0.43 | | | | 130 | | |
| 48 | 0 | 2.13 | | | | 160 | | |
| 50 | 4 | 0.34 | | | 139 | | | |
| 51 | 0 | 2.99 | | | 170 | | | |
| 52 | 3 | -0.68 | | | | 127 | | |
| 55 | 1 | 1.71 | | | | 155 | | |
| 57 | 0 | 3.84 | | 180 | | | | |
| 58 | 2 | -1.02 | | 123 | | | | |
| 59 | 4 | 0.17 | | | | 137 | | |
| 61 | 4 | 0.38 | | | | 140 | | |
| 63 | 1 | 1.88 | | 157 | | | | |
| 68 | 4 | 0.43 | | | | 140 | | |
| 69 | 4 | 0.00 | | 135 | | | | |
| 70 | 0 | -3.11 | | | | 99 | | |
| 72 | 1 | -1.88 | | | | 113 | | |
| 73 | 3 | 0.68 | | | | 143 | | |
| 75 | 4 | 0.00 | | | | 135 | | |
| 76 | 2 | -1.11 | | 122 | | | | |
| 78 | 3 | -0.85 | | 125 | | | | |
| 80 | 2 | -1.37 | | 119 | | | | |
| 83 | 4 | -0.12 | | | | 134 | | |
| 85 | 4 | -0.43 | | | | 130 | | |
| 86 | 4 | 0.34 | | | | 139 | | |
| 87 | 0 | 3.16 | 172 | | | | | |
| 89 | 1 | -1.96 | | | 112 | | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 22 |
|-----|--------|---------|-----|-----|-----|------|---|-----|
| 90 | 1 | 1.54 | | 153 | | | | |
| 91 | 4 | -0.26 | | | | 132 | | |
| 94 | 4 | -0.43 | | | | 130 | | |
| 96 | 3 | 0.60 | | 142 | | | | |
| 97 | 3 | 0.85 | | | 145 | | | |
| 102 | 4 | -0.26 | | | | 132 | | |
| 105 | 4 | -0.43 | | | | 130 | | |
| 107 | 3 | -0.85 | | 125 | | | | |
| 109 | 4 | -0.17 | | 133 | | | | |
| 114 | 4 | 0.43 | | 140 | | | | |
| 117 | 4 | -0.34 | | 131 | | | | |
| 119 | 4 | -0.26 | | | | 132 | | |
| 120 | 0 | 3.59 | | | 177 | | | |
| 121 | 4 | 0.43 | | | | 140 | | |
| 127 | 4 | -0.17 | | | | 133 | | |
| 129 | 0 | 3.84 | | | | | | 180 |
| 131 | 4 | 0.26 | | | | 138 | | |
| 133 | 3 | -0.68 | | | | 127 | | |
| 134 | 3 | -0.60 | | | | 128 | | |
| 136 | 3 | 0.84 | | | | | | 145 |
| 138 | 3 | 0.60 | | | | 142 | | |
| 140 | 2 | -1.28 | | 120 | | | | |
| 141 | 2 | 1.45 | | | | 152 | | |
| 142 | 4 | 0.17 | | | | 137 | | |
| 145 | 1 | -1.56 | | | | 117 | | |
| 146 | 3 | -0.68 | | | | 127 | | |
| 149 | 3 | 0.60 | | 142 | | | | |
| 153 | 1 | 1.62 | | | 154 | | | |
| 154 | 4 | 0.09 | | | | 136 | | |
| 179 | 0 | 2.13 | | 160 | | | | |
| 180 | 4 | -0.26 | | | | 132 | | |
| 182 | 0 | 26.89 | | 450 | | | | |
| 183 | 3 | 0.85 | | 145 | | | | |
| 190 | 1 | 1.96 | | 158 | | | | |
| 193 | 3 | -0.68 | | 127 | | | | |
| 194 | 4 | 0.43 | | | | 140 | | |
| 198 | 4 | 0.09 | | | | 136 | | |
| 202 | 4 | -0.26 | | | | 132 | | |
| 203 | 3 | -0.85 | | 125 | | | | |
| 204 | 3 | -0.51 | | | | 129 | | |
| 210 | 0 | 227.54 | | | | 2800 | | |
| 211 | 0 | 82.39 | | | | 1100 | | |
| 212 | 2 | -1.28 | 120 | | | | | |
| 213 | 0 | 3.67 | | | 178 | | | |
| 217 | 4 | 0.43 | | | | 140 | | |
| 220 | 1 | -1.88 | | 113 | | | | |
| 221 | 0 | 4.61 | | | 189 | | | |

Table 13. —Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
K (Potassium) m g/L



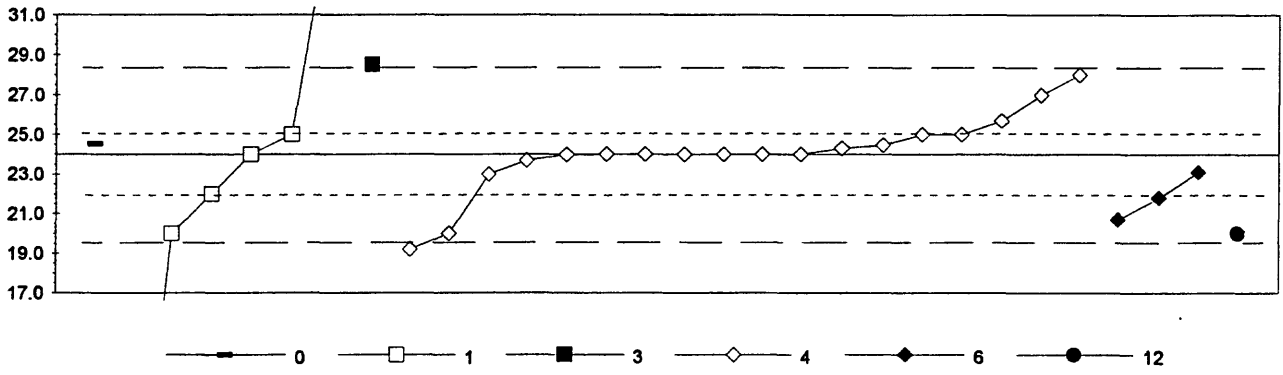
| | | | | | |
|-------------------|------------------------|------|------|------|------|
| 0. Other | 5. DCP | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | |
| 4. ICP | 12. AA: flame emission | | | | |
| N = 3 | 37 | 34 | 1 | 1 | 5 |
| Minimum = 1.04 | 0.17 | 0.09 | 1.22 | 1.06 | 1.01 |
| Maximum = 1.33 | 7.00 | 1.86 | | | 1.21 |
| Median = 1.07 | 1.05 | | | | |
| St Dev = 0.191 | 0.255 | | | | |

MPV = 1.07
 F-pseudosigma = 0.163
 N = 81
 Hu = 1.22
 Hl = 1.00

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 6 | 12 |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 3 | 0.72 | | 1.19 | | | | |
| 3 | 2 | -1.41 | | 0.84 | | | | |
| 5 | 3 | 0.67 | | | 1.18 | | | |
| 7 | 2 | 1.10 | | | 1.25 | | | |
| 8 | 4 | 0.18 | | | 1.10 | | | |
| 9 | 4 | -0.43 | | 1.00 | | | | |
| 11 | 4 | -0.43 | | | 1.00 | | | |
| 12 | 3 | 0.80 | | | 1.20 | | | |
| 13 | 4 | -0.49 | | 0.99 | | | | |
| 15 | 4 | -0.06 | | | 1.06 | | | |
| 16 | 0 | 4.48 | | 1.80 | | | | |
| 18 | 3 | -0.80 | | | 0.94 | | | |
| 19 | 3 | 0.86 | | | 1.21 | | | |
| 23 | 3 | -0.55 | | 0.98 | | | | |
| 24 | 3 | -0.55 | | | 0.98 | | | |
| 25 | 0 | 4.84 | | | 1.86 | | | |
| 27 | 2 | 1.23 | | 1.27 | | | | |
| 32 | 4 | -0.06 | | | | | 1.06 | |
| 33 | 3 | 0.92 | | | | 1.22 | | |
| 39 | NR | | | | < 1 | | | |
| 42 | 2 | 1.10 | | | 1.25 | | | |
| 43 | 4 | 0.18 | | | 1.10 | | | |
| 45 | 2 | 1.17 | | 1.26 | | | | |
| 46 | 4 | -0.25 | | | 1.03 | | | |
| 48 | 3 | 0.55 | | | 1.16 | | | |
| 51 | 3 | 0.55 | | | | | | 1.16 |
| 52 | 3 | -0.62 | | | 0.97 | | | |
| 54 | 4 | -0.43 | | 1.00 | | | | |
| 55 | 4 | -0.18 | 1.04 | | | | | |
| 57 | 0 | 2.27 | | 1.44 | | | | |
| 58 | 2 | 1.10 | | 1.25 | | | | |
| 59 | 4 | 0.18 | | | 1.10 | | | |
| 61 | 0 | -6.01 | | | 0.09 | | | |
| 63 | 1 | 2.02 | | | 1.40 | | | |
| 68 | 1 | -1.72 | | | 0.79 | | | |
| 69 | 3 | 0.80 | | | | | | 1.20 |
| 70 | 0 | 2.64 | | 1.50 | | | | |
| 72 | 3 | 0.98 | | | 1.23 | | | |
| 75 | 1 | 2.02 | | | 1.40 | | | |
| 76 | 3 | 0.67 | | | 1.18 | | | |
| 78 | 4 | 0.00 | | | 1.07 | | | |
| 83 | 0 | 2.15 | | | 1.42 | | | |
| 85 | 3 | 0.74 | | | 1.19 | | | |
| 86 | 4 | -0.12 | | | | 1.05 | | |
| 87 | 3 | -0.80 | | 0.94 | | | | |
| 89 | 4 | -0.12 | | 1.05 | | | | |
| 94 | 4 | -0.48 | | | | 0.99 | | |
| 97 | 3 | -0.92 | | 0.92 | | | | |
| 102 | 0 | -2.58 | | | | 0.65 | | |
| 105 | 4 | -0.25 | | | | 1.03 | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 6 | 12 |
|-----|--------|---------|------|------|--------|---|------|------|
| 107 | 2 | 1.29 | | 1.28 | | | | |
| 109 | 2 | 1.35 | | 1.29 | | | | |
| 114 | 0 | 36.36 | | 7.00 | | | | |
| 117 | 3 | -0.86 | | | 0.93 | | | |
| 119 | 3 | 0.61 | | | 1.17 | | | |
| 120 | 4 | -0.37 | | 1.01 | | | | |
| 127 | 0 | -5.52 | | 0.17 | | | | |
| 129 | 0 | 2.64 | | 1.50 | | | | |
| 131 | 4 | -0.43 | | | | | 1.00 | |
| 134 | 4 | -0.43 | | 1.00 | | | | |
| 138 | 4 | -0.31 | | | 1.02 | | | |
| 140 | 2 | -1.04 | | 0.90 | | | | |
| 141 | 4 | -0.43 | | | 1.00 | | | |
| 142 | 3 | -0.66 | | | 0.96 | | | |
| 145 | 4 | -0.18 | | | 1.04 | | | |
| 146 | 0 | -5.03 | | | < 0.25 | | | |
| 149 | 4 | -0.43 | | 1.00 | | | | |
| 154 | 0 | -2.27 | | | 0.70 | | | |
| 179 | 4 | -0.43 | | 1.00 | | | | |
| 180 | 0 | 4.84 | | | 1.86 | | | |
| 182 | 4 | -0.49 | | 0.99 | | | | |
| 185 | 4 | -0.03 | | 1.07 | | | | |
| 190 | 1 | 1.59 | 1.33 | | | | | |
| 193 | 4 | 0.43 | | 1.14 | | | | |
| 194 | 0 | 3.00 | | 1.56 | | | | |
| 196 | 4 | -0.37 | | 1.01 | | | | |
| 198 | 4 | -0.37 | | | | | | 1.01 |
| 202 | 2 | -1.17 | | | 0.88 | | | |
| 203 | 3 | 0.86 | | | | | | 1.21 |
| 204 | 3 | 0.86 | | | | | | 1.21 |
| 210 | NR | | | | | | | < 1 |
| 211 | 4 | 0.31 | | | 1.12 | | | |
| 212 | 4 | 0.18 | 1.10 | | | | | |
| 217 | NR | | | | < 5 | | | |
| 221 | 3 | 0.80 | | 1.20 | | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
 Li (Lithium) μ g/L

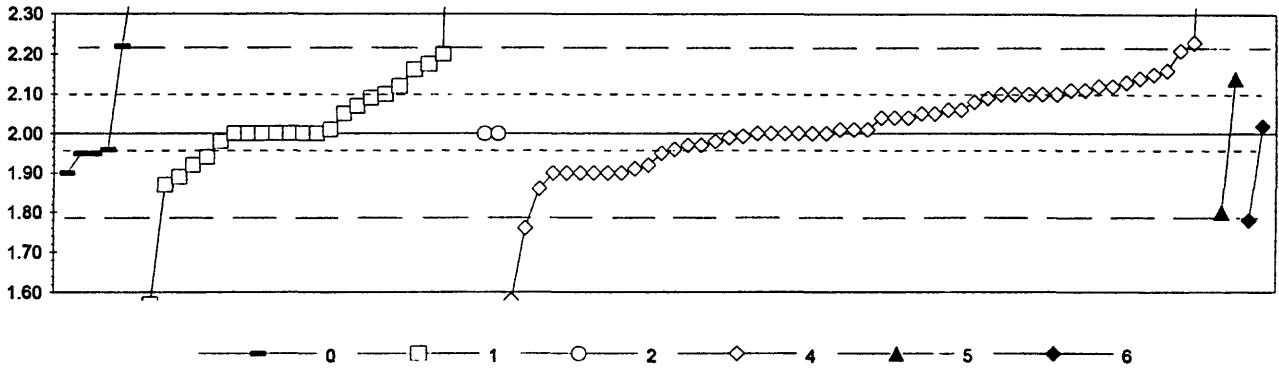


| | | | | | |
|-------------------------|------------------------|------|------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | 12. AA: flame emission | | | | |
| N = 1 | 6 | 1 | 18 | 3 | 1 |
| Minimum = 24.5 | 2.0 | 28.5 | 19.2 | 20.7 | 20.0 |
| Maximum = 37.0 | | | 28.0 | 23.1 | |
| Median = 24.0 | | | 24.0 | | |
| St Dev = 2.03 | | | | | |

MPV = 24.0
 F-pseudosigma = 2.22
 N = 30
 Hu = 25.0
 Hl = 22.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|------|------|------|-------|------|------|
| 1 | 4 | 0.00 | | | | 24.0 | | |
| 3 | 1 | -1.80 | | | | 20.0 | | |
| 4 | 4 | -0.45 | | | | 23.0 | | |
| 5 | 4 | 0.21 | | | | 24.5 | | |
| 7 | 4 | 0.00 | | | | 24.0 | | |
| 8 | 4 | 0.00 | | | | 24.0 | | |
| 15 | 4 | -0.13 | | | | 23.7 | | |
| 16 | NR | | | | | < 100 | | |
| 24 | 0 | -2.16 | | | | 19.2 | | |
| 25 | 4 | 0.45 | | | | 25.0 | | |
| 30 | 2 | -1.48 | | | | | 20.7 | |
| 32 | 4 | -0.40 | | | | | 23.1 | |
| 39 | 4 | 0.00 | | | | 24.0 | | |
| 42 | 2 | 1.35 | | | | 27.0 | | |
| 50 | NR | | < 50 | | | | | |
| 55 | 3 | -0.90 | | 22.0 | | | | |
| 63 | 0 | 5.85 | | 37.0 | | | | |
| 68 | 1 | 1.80 | | | | 28.0 | | |
| 69 | 0 | -9.89 | | 2.0 | | | | |
| 75 | 4 | 0.00 | | | | 24.0 | | |
| 85 | 4 | 0.45 | | 25.0 | | | | |
| 105 | 4 | 0.00 | | | | 24.0 | | |
| 109 | 4 | 0.00 | | 24.0 | | | | |
| 127 | 4 | 0.13 | | | | 24.3 | | |
| 131 | 4 | 0.45 | | | | 25.0 | | |
| 134 | 4 | 0.00 | | | | 24.0 | | |
| 142 | 1 | 2.02 | | | 28.5 | | | |
| 145 | 3 | 0.76 | | | | 25.7 | | |
| 182 | 1 | -1.80 | | 20.0 | | | | |
| 196 | 3 | -0.99 | | | | | 21.8 | |
| 210 | 1 | -1.80 | | | | | | 20.0 |
| 212 | 4 | 0.22 | 24.5 | | | | | |
| 217 | NR | | | | | < 50 | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Mg (Magnesium) **m g/L**



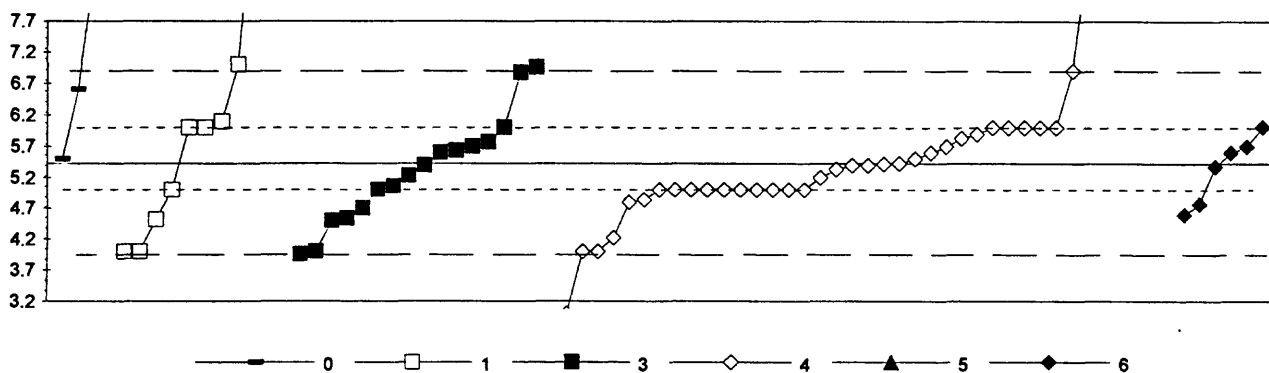
| | | | | | |
|-----------------------------|-----------|------|-------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: direct air | 5. DCP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 6 | 24 | 2 | 52 | 2 | 2 |
| Minimum = 1.90 | 1.57 | 2.00 | 1.58 | 1.80 | 1.78 |
| Maximum = 2.47 | 12.10 | 2.00 | 2.94 | 2.14 | 2.02 |
| Median = 2.00 | | | 2.01 | | |
| St Dev = 0.089 | | | 0.095 | | |

MPV = 2.00
 F-pseudosigma = 0.107
 N = 88
 Hu = 2.10
 Hl = 1.96

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 6 |
|-----|--------|---------|------|-------|---|------|------|------|
| 1 | 2 | 1.50 | | 2.16 | | | | |
| 3 | 2 | 1.02 | | | | 2.11 | | |
| 4 | 4 | 0.00 | | | | 2.00 | | |
| 5 | 4 | -0.07 | | | | 1.99 | | |
| 7 | 3 | 0.56 | | | | 2.06 | | |
| 8 | 3 | -0.93 | | | | 1.90 | | |
| 9 | 4 | 0.00 | | 2.00 | | | | |
| 11 | 2 | 1.40 | | | | 2.15 | | |
| 12 | 3 | 0.93 | | | | 2.10 | | |
| 13 | 2 | 1.12 | | 2.12 | | | | |
| 15 | 2 | 1.30 | | | | 2.14 | | |
| 16 | 3 | 0.93 | | | | 2.10 | | |
| 18 | 4 | -0.19 | | | | 1.98 | | |
| 19 | 4 | 0.09 | | | | 2.01 | | |
| 23 | 4 | -0.37 | 1.96 | | | | | |
| 24 | 4 | 0.09 | | | | 2.01 | | |
| 25 | 2 | 1.49 | | | | 2.16 | | |
| 27 | 1 | -1.86 | | | | | 1.80 | |
| 30 | 1 | -2.05 | | | | | | 1.78 |
| 32 | 4 | 0.19 | | | | | | 2.02 |
| 33 | 2 | 1.30 | | | | | 2.14 | |
| 39 | 2 | 1.12 | | | | 2.12 | | |
| 42 | 3 | 0.93 | | | | 2.10 | | |
| 45 | 3 | -0.93 | 1.90 | | | | | |
| 46 | 3 | 0.93 | | | | 2.10 | | |
| 48 | 2 | 1.21 | | | | 2.13 | | |
| 51 | 4 | 0.00 | | 2.00 | | | | |
| 52 | 4 | -0.37 | | | | 1.96 | | |
| 54 | 4 | 0.00 | | 2.00 | | | | |
| 55 | 4 | -0.09 | | | | 1.99 | | |
| 57 | 4 | 0.00 | | | | 2.00 | | |
| 58 | 0 | -4.00 | | 1.57 | | | | |
| 59 | 3 | -0.93 | | | | 1.90 | | |
| 61 | 4 | 0.47 | | | | 2.05 | | |
| 63 | 0 | 2.14 | | | | 2.23 | | |
| 68 | 3 | 0.93 | | | | 2.10 | | |
| 70 | 4 | 0.37 | | | | 2.04 | | |
| 72 | 0 | 8.75 | | | | 2.94 | | |
| 75 | 4 | 0.00 | | | | 2.00 | | |
| 78 | 4 | 0.00 | | 2.00 | | | | |
| 83 | 4 | -0.47 | 1.95 | | | | | |
| 84 | 4 | 0.47 | | 2.05 | | | | |
| 85 | 4 | 0.00 | | 2.00 | | | | |
| 86 | 3 | 0.84 | | | | 2.09 | | |
| 87 | 3 | -0.56 | | 1.94 | | | | |
| 89 | 2 | -1.02 | | 1.89 | | | | |
| 94 | 4 | -0.28 | | | | 1.97 | | |
| 97 | 0 | 93.96 | | 12.10 | | | | |
| 102 | 3 | -0.93 | | | | 1.90 | | |
| 105 | 3 | -0.84 | | | | 1.91 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|------|---|---|
| 107 | 2 | -1.21 | | 1.87 | | | | |
| 109 | 4 | 0.00 | | 2.00 | | | | |
| 114 | 4 | 0.00 | | | 2.00 | | | |
| 116 | 4 | 0.00 | | | | 2.00 | | |
| 117 | 3 | -0.74 | | 1.92 | | | | |
| 119 | 4 | 0.47 | | | | 2.05 | | |
| 120 | 1 | 1.63 | | 2.18 | | | | |
| 121 | 4 | 0.00 | | | | 2.00 | | |
| 127 | 3 | -0.74 | | | | 1.92 | | |
| 129 | 0 | 16.75 | | 3.80 | | | | |
| 131 | 3 | 0.56 | | | | 2.06 | | |
| 133 | 2 | -1.30 | | | | 1.86 | | |
| 134 | 4 | -0.47 | | | | 1.95 | | |
| 136 | 0 | 4.37 | 2.47 | | | | | |
| 138 | 4 | 0.00 | | | | 2.00 | | |
| 140 | 4 | 0.00 | | 2.00 | | | | |
| 141 | 2 | 1.12 | | | | 2.12 | | |
| 142 | 1 | 1.95 | | | | 2.21 | | |
| 145 | 3 | 0.74 | | | | 2.08 | | |
| 146 | 0 | -2.23 | | | | 1.76 | | |
| 149 | 1 | 1.86 | | 2.20 | | | | |
| 154 | 0 | -3.91 | | | | 1.58 | | |
| 179 | 3 | 0.84 | | 2.09 | | | | |
| 180 | 2 | 1.02 | | | | 2.11 | | |
| 182 | 4 | 0.00 | | | 2.00 | | | |
| 190 | 1 | 2.05 | 2.22 | | | | | |
| 193 | 4 | -0.19 | | 1.98 | | | | |
| 194 | 3 | -0.93 | | | | 1.90 | | |
| 196 | 3 | 0.65 | | 2.07 | | | | |
| 198 | 4 | 0.37 | | | | 2.04 | | |
| 202 | 4 | 0.09 | | | | 2.01 | | |
| 203 | 4 | 0.09 | | 2.01 | | | | |
| 204 | 4 | 0.37 | | | | 2.04 | | |
| 210 | 3 | -0.93 | | | | 1.90 | | |
| 211 | 4 | -0.28 | | | | 1.97 | | |
| 212 | 4 | -0.47 | 1.95 | | | | | |
| 217 | 3 | -0.93 | | | | 1.90 | | |
| 221 | 3 | 0.93 | | 2.10 | | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Mn (Manganese) **μ g/L**



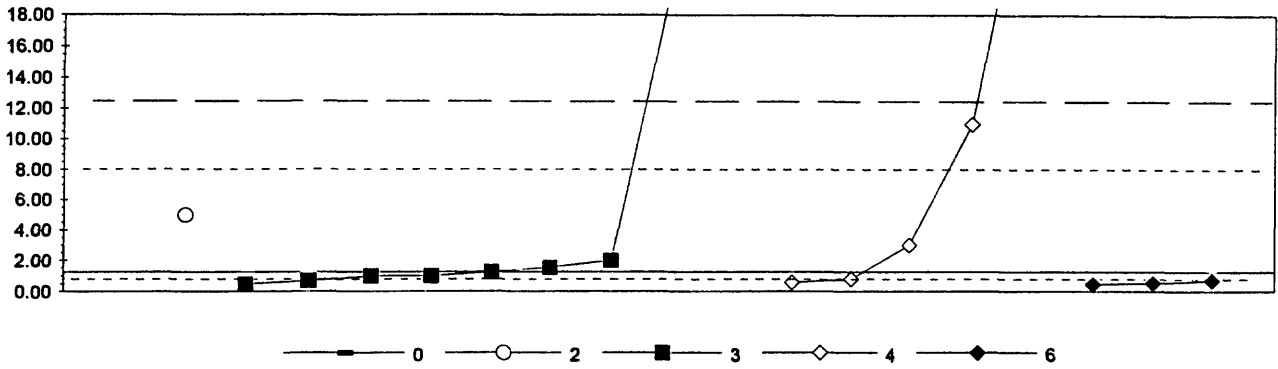
| | | | | | |
|-------------------------|-----------|-------|-------|-------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: direct air | 5. DCP | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | |
| N = 4 | 11 | 16 | 39 | 1 | 6 |
| Minimum = 5.50 | 4.00 | 3.95 | 2.00 | 67.00 | 4.60 |
| Maximum = 10.30 | 32.00 | 6.95 | 270.0 | | 6.01 |
| Median = 5.50 | 5.32 | 5.27 | | | |
| St Dev = 1.107 | 0.876 | 0.620 | | | |

MPV = 5.43
 F-pseudosigma = 0.741
 N = 77
 Hu = 6.00
 HI = 5.00

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|---|-----|------|------|-----|
| 1 | 3 | -0.89 | | | | | | 4.8 |
| 3 | 3 | -0.58 | | | | 5.0 | | |
| 5 | 4 | -0.13 | | | | 5.3 | | |
| 7 | 4 | 0.09 | | | | 5.5 | | |
| 8 | 1 | -1.93 | | | | 4.0 | | |
| 11 | 0 | 4.82 | | | | 9.0 | | |
| 12 | NR | | | | | < 20 | | |
| 13 | 3 | 0.90 | 6.1 | | | | | |
| 15 | 4 | -0.01 | | | | 5.4 | | |
| 16 | 0 | 6.16 | | | | 10.0 | | |
| 18 | 3 | -0.58 | | | | 5.0 | | |
| 19 | 3 | -0.58 | | | | 5.0 | | |
| 23 | 4 | 0.46 | | | 5.8 | | | |
| 24 | 4 | -0.31 | | | | 5.2 | | |
| 25 | 3 | -0.58 | | | | 5.0 | | |
| 29 | 3 | 0.77 | 6.0 | | | | | |
| 30 | 4 | -0.07 | | | | | | 5.4 |
| 32 | 4 | 0.36 | | | | | | 5.7 |
| 33 | 0 | 110.04 | | | | | 87.0 | |
| 39 | 4 | 0.23 | | | | | | 5.6 |
| 42 | 2 | -1.12 | | | | | | 4.6 |
| 43 | 0 | -4.63 | | | | 2.0 | | |
| 45 | 2 | -1.20 | | | 4.5 | | | |
| 48 | 4 | -0.04 | | | 5.4 | | | |
| 50 | 3 | 0.77 | | | 6.0 | | | |
| 51 | 0 | 6.57 | 10.3 | | | | | |
| 52 | 1 | -2.00 | | | 4.0 | | | |
| 55 | 3 | -0.85 | | | | 4.8 | | |
| 57 | NR | | < 20 | | | | | |
| 59 | 3 | 0.77 | | | | 6.0 | | |
| 61 | 0 | 15.61 | | | | 17.0 | | |
| 63 | NR | | | | | < 10 | | |
| 68 | 1 | -1.93 | | | | 4.0 | | |
| 70 | NR | | | | | < 10 | | |
| 72 | 4 | 0.36 | | | | 5.7 | | |
| 75 | 3 | -0.58 | | | | 5.0 | | |
| 78 | 4 | 0.23 | | | 5.6 | | | |
| 79 | 1 | 1.98 | | | | 6.9 | | |
| 80 | 3 | -0.58 | | | 5.0 | | | |
| 83 | 4 | 0.09 | 5.5 | | | | | |
| 85 | NR | | < 10 | | | | | |
| 86 | 3 | -0.80 | | | | 4.8 | | |
| 87 | 3 | -0.58 | 5.0 | | | | | |
| 89 | 4 | -0.27 | | | 5.2 | | | |
| 91 | 3 | 0.54 | | | | 5.8 | | |
| 94 | 3 | -0.58 | | | | 5.0 | | |
| 96 | 4 | 0.36 | | | 5.7 | | | |
| 97 | 4 | 0.27 | | | 5.6 | | | |
| 102 | 0 | -3.28 | | | | 3.0 | | |
| 105 | 3 | -0.58 | | | | 5.0 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|-----|-----|-------|-----|
| 107 | 0 | 2.05 | | | | | 7.0 | |
| 109 | 2 | -1.23 | | 4.5 | | | | |
| 114 | 0 | 6.16 | | 10.0 | | | | |
| 116 | 3 | 0.77 | | | | | 6.0 | |
| 117 | 0 | 35.84 | | 32.0 | | | | |
| 118 | 0 | 4.14 | 8.5 | | | | | |
| 119 | 4 | -0.04 | | | | | 5.4 | |
| 120 | 3 | -0.98 | | | | 4.7 | | |
| 127 | 1 | -1.63 | | | | | 4.2 | |
| 129 | 0 | 6.16 | | 10.0 | | | | |
| 131 | 3 | 0.77 | | | | | 6.0 | |
| 134 | 4 | 0.00 | | | | | 5.4 | |
| 138 | 1 | 1.94 | | | 6.9 | | | |
| 140 | 1 | -1.93 | | 4.0 | | | | |
| 141 | 0 | 13.72 | | | | | 15.6 | |
| 142 | 2 | -1.25 | | | 4.5 | | | |
| 145 | 3 | 0.77 | | | | | 6.0 | |
| 146 | 3 | 0.63 | | | | | 5.9 | |
| 149 | 3 | 0.77 | | 6.0 | | | | |
| 154 | 3 | -0.58 | | | | | 5.0 | |
| 179 | NR | | < 10 | | | | | |
| 180 | 4 | -0.04 | | | | | 5.4 | |
| 182 | 1 | -1.93 | | 4.0 | | | | |
| 190 | 4 | -0.50 | | | 5.1 | | | |
| 194 | NR | | | | | | < 5 | |
| 196 | 3 | 0.78 | | | | | | 6.0 |
| 198 | 4 | 0.23 | | | | | 5.6 | |
| 202 | 3 | 0.77 | | | | | 6.0 | |
| 203 | 0 | 2.12 | | 7.0 | | | | |
| 204 | 3 | -0.58 | | | | | 5.0 | |
| 210 | 0 | 356.90 | | | | | 270.0 | |
| 211 | 3 | -0.58 | | | | | 5.0 | |
| 212 | 1 | 1.58 | 6.6 | | | | | |
| 217 | NR | | | | | | < 10 | |
| 220 | NR | | < 10 | | | | | |
| 221 | 1 | -1.93 | | | | 4.0 | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Mo (Molybdenum) μ g/L

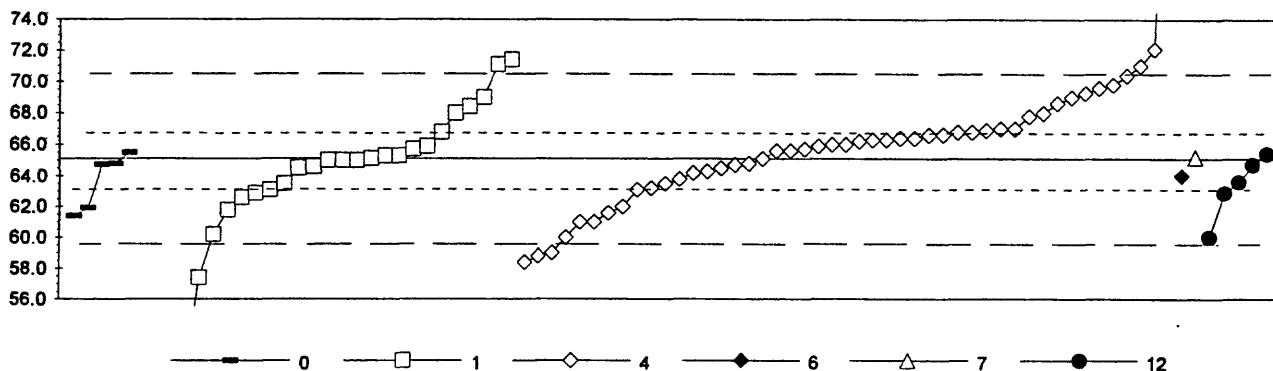


| | |
|-----------------------------|-----------------------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 1 9 5 3 |
| Minimum = | 50.00 5.00 0.50 0.60 0.46 |
| Maximum = | 52.00 31.00 0.72 |
| Median = | 1.02 |
| St Dev = | 0.509 |

MPV = 1.25
 F-pseudosigma = 5.404
 N = 19
 Hu = 8.00
 HI = 0.71

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|--------|-------|-------|
| 1 | 4 | -0.15 | | | | | 0.46 |
| 3 | NR | | | | | < 10 | |
| 4 | 0 | 5.51 | | | | 31.00 | |
| 5 | NR | | | | | < 10 | |
| 7 | NR | | | | | < 9 | |
| 8 | NR | | | | | < 5 | |
| 15 | NR | | | | | < 20 | |
| 16 | NR | | | | | < 20 | |
| 23 | 4 | -0.04 | | | 1.02 | | |
| 30 | 4 | -0.13 | | | | | 0.56 |
| 32 | NR | | | | | | < 0.3 |
| 39 | NR | | | | | < 5 | |
| 43 | NR | | | | | < 10 | |
| 45 | 4 | 0.06 | | | 1.55 | | |
| 48 | NR | | | | | < 10 | |
| 50 | NR | | | | < 5 | | |
| 52 | NR | | | | < 5 | | |
| 57 | NR | | | | < 100 | | |
| 61 | NR | | | | < 10 | | |
| 70 | NR | | | | < 50 | | |
| 72 | NR | | | | < 1 | | |
| 75 | NR | | | | < 10 | | |
| 78 | 4 | -0.14 | | | 0.50 | | |
| 85 | NR | | | | < 50 | | |
| 87 | NR | | | | < 2 | | |
| 94 | NR | | | | < 5 | | |
| 97 | NR | | | | < 0.96 | | |
| 105 | 4 | -0.09 | | | | | 0.79 |
| 109 | 4 | -0.10 | | | 0.70 | | |
| 114 | 0 | 9.02 | 50.00 | | | | |
| 127 | NR | | | | | < 25 | |
| 131 | NR | | | | | < 3 | |
| 138 | NR | | | | < 2 | | |
| 141 | NR | | | | | < 10 | |
| 142 | 4 | 0.00 | | | 1.25 | | |
| 145 | NR | | | | | < 11 | |
| 146 | 4 | -0.12 | | | | 0.60 | |
| 149 | 4 | 0.14 | | | 2.00 | | |
| 179 | NR | | | | < 10 | | |
| 180 | 4 | 0.32 | | | | | 3.00 |
| 182 | 3 | 0.69 | | 5.00 | | | |
| 183 | 0 | 3.54 | | | 20.40 | | |
| 196 | 4 | -0.10 | | | | | 0.72 |
| 202 | NR | | | | < 1 | | |
| 210 | 1 | 1.80 | | | | 11.00 | |
| 211 | 0 | 9.39 | | | 52.00 | | |
| 217 | NR | | | | < 20 | | |
| 221 | 4 | -0.05 | | | 1.00 | | |

Table 13. —Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
Na (Sodium) **m g/L**



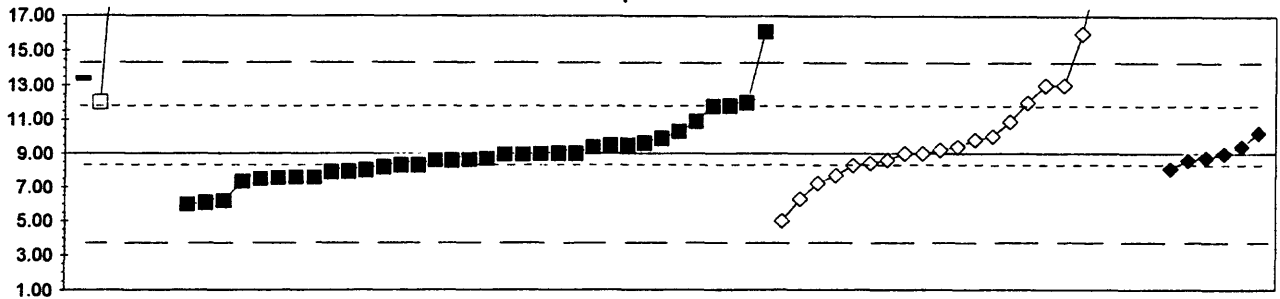
| | |
|-------------------|---|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 12. AA: flame emission |
| N = | 5 27 47 1 1 5 |
| Minimum = | 61.4 19.7 58.4 64.0 65.2 60.0 |
| Maximum = | 65.5 71.4 87.8 64.0 65.2 65.4 |
| Median = | 65.0 66.0 |
| St Dev = | 3.21 3.18 |

MPV = 65.1
 F-pseudosigma = 2.74
 N = 86
 Hu = 66.8
 HI = 63.1

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|---|---|------|
| 1 | 0 | 2.18 | 71.1 | | | | | |
| 3 | 4 | 0.43 | | 66.3 | | | | |
| 4 | 2 | -1.50 | | 61.0 | | | | |
| 5 | 3 | 0.55 | | 66.6 | | | | |
| 7 | 4 | 0.47 | | 66.4 | | | | |
| 8 | 2 | 1.05 | | 68.0 | | | | |
| 9 | 4 | -0.04 | 65.0 | | | | | |
| 11 | 2 | 1.42 | | 69.0 | | | | |
| 12 | 0 | 2.15 | | 71.0 | | | | |
| 13 | 4 | 0.07 | 65.3 | | | | | |
| 15 | 4 | 0.29 | | 65.9 | | | | |
| 16 | 3 | 0.69 | | 67.0 | | | | |
| 18 | 4 | -0.22 | | 64.5 | | | | |
| 19 | 4 | 0.18 | | 65.6 | | | | |
| 23 | 4 | 0.29 | 65.9 | | | | | |
| 24 | 3 | 0.61 | | 66.8 | | | | |
| 25 | 1 | 1.93 | | 70.4 | | | | |
| 27 | 0 | -16.56 | 19.7 | | | | | |
| 32 | 4 | -0.40 | | | 64.0 | | | |
| 33 | 2 | -1.17 | 61.9 | | | | | |
| 39 | 4 | 0.43 | | 66.3 | | | | |
| 42 | 3 | 0.61 | | 66.8 | | | | |
| 45 | 4 | 0.14 | 65.5 | | | | | |
| 46 | 3 | 0.98 | | 67.8 | | | | |
| 48 | 1 | 1.71 | | 69.8 | | | | |
| 51 | 3 | -0.81 | | | | | | 62.9 |
| 52 | 3 | -0.73 | | 63.1 | | | | |
| 54 | 4 | -0.22 | 64.5 | | | | | |
| 55 | 4 | 0.21 | 65.7 | | | | | |
| 57 | 2 | -1.28 | | 61.6 | | | | |
| 58 | 0 | -5.51 | 50.0 | | | | | |
| 59 | 1 | -1.86 | | 60.0 | | | | |
| 61 | 4 | 0.47 | | 66.4 | | | | |
| 63 | 0 | 2.55 | | 72.1 | | | | |
| 68 | 3 | 0.69 | | 67.0 | | | | |
| 69 | 1 | -1.86 | | | | | | 60.0 |
| 70 | 4 | 0.40 | | 66.2 | | | | |
| 72 | 0 | 8.27 | | 87.8 | | | | |
| 75 | 4 | -0.15 | | 64.7 | | | | |
| 78 | 3 | 0.61 | 66.8 | | | | | |
| 83 | 2 | -1.35 | 61.4 | | | | | |
| 84 | 4 | -0.15 | | | | | | 64.7 |
| 85 | 3 | -0.92 | 62.6 | | | | | |
| 86 | 4 | 0.21 | | 65.7 | | | | |
| 87 | 3 | -0.59 | 63.5 | | | | | |
| 89 | 2 | 1.20 | 68.4 | | | | | |
| 94 | 4 | -0.01 | | 65.1 | | | | |
| 97 | 0 | -2.81 | 57.4 | | | | | |
| 102 | 0 | -2.23 | | 59.0 | | | | |
| 105 | 0 | -2.30 | | 58.8 | | | | |
| 107 | 3 | -0.81 | 62.9 | | | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|---|------|------|
| 107 | 3 | -0.81 | | 62.9 | | | | |
| 109 | 2 | -1.21 | | 61.8 | | | | |
| 114 | 0 | -11.71 | | 33.0 | | | | |
| 116 | 4 | -0.33 | | | 64.2 | | | |
| 117 | 0 | -5.35 | 50.5 | | | | | |
| 119 | 4 | -0.30 | | 64.3 | | | | |
| 120 | 4 | 0.01 | 65.1 | | | | | |
| 121 | 4 | 0.32 | | 66.0 | | | | |
| 127 | 4 | -0.48 | | 63.8 | | | | |
| 129 | 4 | -0.04 | 65.0 | | | | | |
| 131 | 4 | 0.32 | | 66.0 | | | | |
| 134 | 4 | -0.19 | 64.6 | | | | | |
| 138 | 3 | -0.70 | | 63.2 | | | | |
| 140 | 4 | -0.04 | 65.0 | | | | | |
| 141 | 1 | 1.64 | | 69.6 | | | | |
| 142 | 1 | 1.51 | | 69.3 | | | | |
| 145 | 2 | 1.28 | | 68.6 | | | | |
| 148 | 0 | -2.45 | | 58.4 | | | | |
| 149 | 0 | 2.29 | 71.4 | | | | | |
| 154 | 4 | 0.18 | | 65.6 | | | | |
| 179 | 2 | 1.05 | 68.0 | | | | | |
| 180 | 3 | 0.54 | | 66.6 | | | | |
| 182 | 4 | 0.07 | 65.3 | | | | | |
| 190 | 4 | 0.03 | | | | | 65.2 | |
| 193 | 1 | -1.79 | 60.2 | | | | | |
| 194 | 3 | 0.65 | | 66.9 | | | | |
| 196 | 2 | 1.42 | 69.0 | | | | | |
| 198 | 4 | -0.11 | | 64.8 | | | | |
| 202 | 4 | -0.15 | 64.7 | | | | | |
| 203 | 4 | 0.10 | | | | | | 65.4 |
| 204 | 3 | -0.55 | | | | | | 63.6 |
| 210 | 2 | -1.50 | | 61.0 | | | | |
| 211 | 3 | -0.59 | | 63.5 | | | | |
| 212 | 4 | -0.11 | 64.8 | | | | | |
| 217 | 2 | -1.14 | | 62.0 | | | | |
| 221 | 3 | -0.73 | 63.1 | | | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
 Ni (Nickel) μ g/L



—■— 0
—□— 1
—■— 3
—◇— 4
—◆— 6

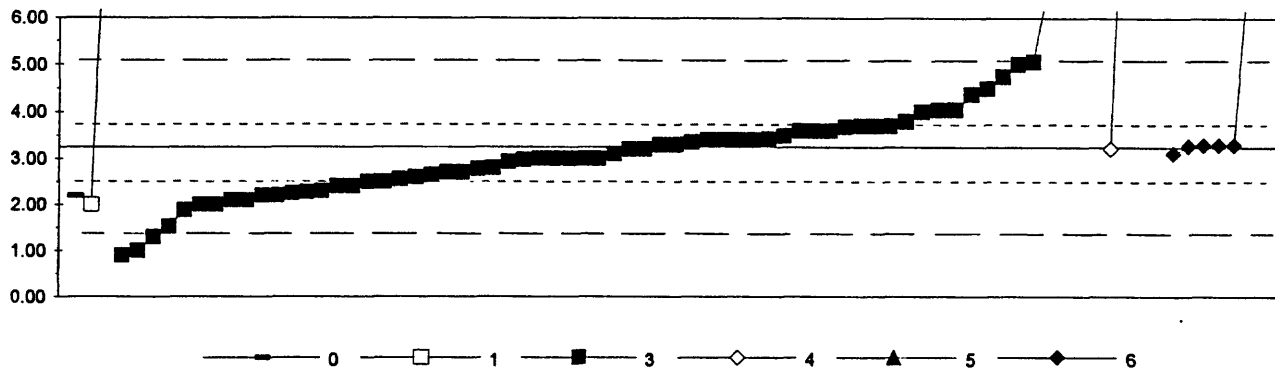
| | |
|-------------------------|--|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 5 34 22 6 |
| Minimum = | 13.40 12.00 6.00 5.00 8.10 |
| Maximum = | 185.00 16.10 260.0 10.23 |
| Median = | 8.66 9.10 |
| St Dev = | 1.937 2.634 |

MPV = 9.00
 F-pseudosigma = 2.632
 N = 68
 Hu = 11.80
 HI = 8.25

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|--------|-------|-------|-------|
| 1 | 4 | 0.15 | | | 9.40 | | |
| 3 | NR | | | | | < 40 | |
| 5 | 3 | 0.72 | | | | 10.89 | |
| 7 | NR | | | | | < 15 | |
| 8 | 4 | 0.00 | | | | 9.00 | |
| 11 | 1 | 1.52 | | | | | 13.00 |
| 12 | NR | | | | | < 20 | |
| 13 | NR | | < 50 | | | | |
| 15 | 3 | -0.54 | | | 7.57 | | |
| 16 | NR | | | | | < 25 | |
| 18 | 4 | 0.38 | | | | 10.00 | |
| 23 | 3 | -0.54 | | | 7.59 | | |
| 24 | 0 | 2.70 | | | 16.10 | | |
| 25 | NR | | | | | < 49 | |
| 29 | 0 | 6.08 | | 25.00 | | | |
| 30 | 4 | 0.16 | | | | | 9.41 |
| 32 | 4 | 0.00 | | | | | 9.00 |
| 39 | 4 | -0.34 | | | | | 8.10 |
| 42 | 4 | -0.15 | | | | | 8.60 |
| 43 | 0 | 21.89 | | | | 66.60 | |
| 45 | 4 | -0.40 | | | 7.94 | | |
| 48 | 2 | 1.06 | | | 11.80 | | |
| 50 | 4 | -0.38 | | | 8.00 | | |
| 51 | 3 | -0.53 | | | 7.60 | | |
| 52 | 4 | 0.49 | | | 10.30 | | |
| 55 | 4 | -0.27 | | | 8.30 | | |
| 57 | NR | | < 100 | | | | |
| 58 | 4 | -0.30 | | | 8.20 | | |
| 59 | 4 | -0.49 | | | | 7.70 | |
| 61 | 0 | 4.37 | | | | 20.50 | |
| 63 | 4 | 0.00 | | | 9.00 | | |
| 68 | 1 | 1.52 | | | | 13.00 | |
| 69 | 4 | 0.00 | | | 9.00 | | |
| 70 | NR | | | | | < 50 | |
| 72 | 4 | 0.30 | | | | 9.80 | |
| 73 | 2 | -1.03 | | | | 6.30 | |
| 75 | 4 | -0.15 | | | 8.60 | | |
| 76 | 4 | -0.10 | | | | | 8.75 |
| 78 | 4 | 0.23 | | | 9.60 | | |
| 79 | 4 | -0.11 | | | 8.70 | | |
| 85 | NR | | | | | < 10 | |
| 86 | 3 | -0.67 | | | | 7.23 | |
| 87 | NR | | < 10 | | | | |
| 89 | NR | | | < 12.5 | | | |
| 90 | 0 | 66.88 | | 185.00 | | | |
| 94 | 4 | -0.15 | | | | 8.60 | |
| 97 | 4 | -0.14 | | | 8.62 | | |
| 102 | 1 | -1.52 | | | | 5.00 | |
| 105 | 2 | 1.14 | | | | 12.00 | |
| 107 | 2 | -1.10 | | | 6.10 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|--------|---|-------|-------|
| 108 | 2 | -1.14 | | | | | 6.00 |
| 111 | 4 | 0.00 | | | | | 9.00 |
| 114 | NR | | | < 10 | | | |
| 118 | 4 | -0.41 | | | | | 7.91 |
| 119 | 4 | 0.34 | | | | | 9.90 |
| 120 | 4 | -0.15 | | | | | 8.60 |
| 121 | 2 | 1.14 | | | | | 12.00 |
| 127 | 4 | -0.02 | | | | | 8.95 |
| 131 | 4 | 0.00 | | | | | 9.00 |
| 133 | 4 | -0.22 | | | | | 8.42 |
| 134 | 4 | 0.19 | | | | | 9.50 |
| 138 | 4 | -0.02 | | | | | 8.95 |
| 140 | 2 | 1.14 | | 12.00 | | | |
| 141 | NR | | | | | | < 10 |
| 142 | 4 | 0.19 | | | | | 9.50 |
| 144 | 3 | -0.57 | | | | 7.50 | |
| 145 | NR | | | | | | < 22 |
| 146 | 4 | 0.15 | | | | | 9.40 |
| 154 | 4 | 0.08 | | | | | 9.20 |
| 179 | 2 | -1.06 | | | | 6.20 | |
| 180 | 4 | -0.27 | | | | | 8.30 |
| 183 | 3 | -0.62 | | | | 7.36 | |
| 190 | 3 | 0.72 | | | | 10.90 | |
| 193 | NR | | | | | < 10 | |
| 194 | NR | | | | | | < 100 |
| 196 | 4 | 0.47 | | | | | 10.23 |
| 198 | 0 | 2.66 | | | | | 16.00 |
| 202 | 4 | -0.27 | | | | 8.30 | |
| 210 | 0 | 95.38 | | | | | 260.0 |
| 211 | 0 | 9.50 | | | | | 34.00 |
| 212 | 1 | 1.67 | 13.40 | | | | |
| 213 | 0 | 49.40 | | 139.00 | | | |
| 216 | 0 | 8.09 | | 30.30 | | | |
| 217 | NR | | | | | | < 40 |
| 221 | 2 | 1.06 | | | | 11.80 | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Pb (Lead) **μ g/L**



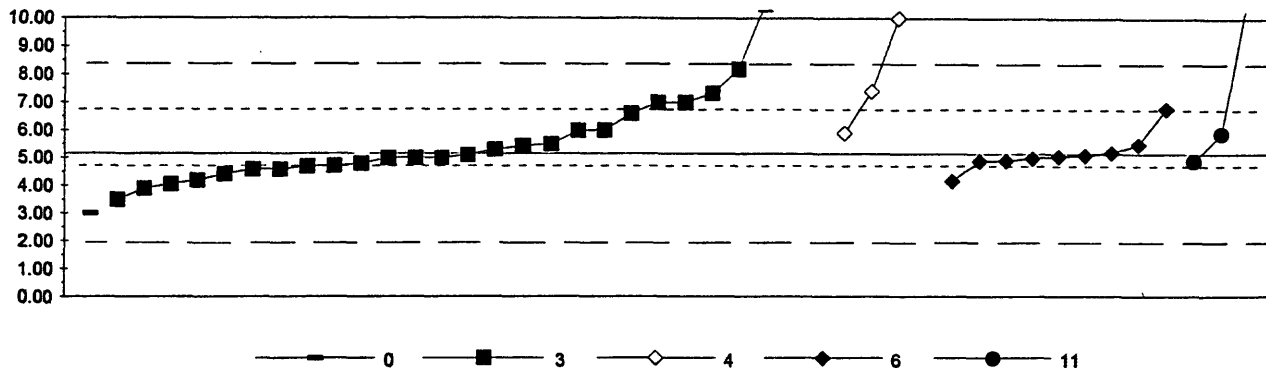
| | |
|-------------------------|---|
| 0. Other | 4. ICP |
| 1. AA: direct air | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| N = | 1 2 64 3 1 7 |
| Minimum = | 2.20 2.00 0.90 3.22 59.10 3.12 |
| Maximum = | 10.00 23.00 14.40 7.80 |
| Median = | 3.00 3.30 |
| St Dev = | 0.891 0.079 |

MPV = 3.25
 F-pseudostigma = 0.890
 N = 78
 Hu = 3.70
 HI = 2.50

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|---|------|-------|-------|-------|------|
| 1 | 4 | 0.39 | | | 3.60 | | | |
| 3 | 4 | -0.28 | | | 3.00 | | | |
| 5 | NR | | | | | < 30 | | |
| 7 | 0 | 5.11 | | | | | | 7.80 |
| 8 | NR | | | | | < 30 | | |
| 12 | NR | | | | < 10 | | | |
| 13 | NR | | | | < 5 | | | |
| 15 | 4 | -0.04 | | | 3.21 | | | |
| 16 | 3 | -0.78 | | | 2.56 | | | |
| 18 | 1 | 2.03 | | | 5.06 | | | |
| 23 | 2 | -1.09 | | | 2.28 | | | |
| 24 | 4 | 0.17 | | | 3.40 | | | |
| 25 | NR | | | | | < 71 | | |
| 27 | 0 | 6.06 | | | 8.64 | | | |
| 29 | 2 | -1.12 | | | 2.25 | | | |
| 30 | 4 | -0.15 | | | | | | 3.12 |
| 32 | 4 | 0.06 | | | | | | 3.30 |
| 33 | 0 | 62.78 | | | | | 59.10 | |
| 39 | 0 | 5.11 | | | | | | 7.80 |
| 42 | 4 | 0.06 | | | | | | 3.30 |
| 45 | 1 | -1.93 | | | 1.53 | | | |
| 46 | 4 | 0.17 | | | 3.40 | | | |
| 48 | 4 | 0.39 | | | 3.60 | | | |
| 50 | 4 | -0.28 | | | 3.00 | | | |
| 51 | 3 | 0.51 | | | 3.70 | | | |
| 52 | 4 | 0.48 | | | 3.68 | | | |
| 55 | 3 | -0.73 | | | 2.60 | | | |
| 57 | 2 | 1.41 | | | 4.50 | | | |
| 58 | 1 | 1.69 | | | 4.75 | | | |
| 59 | NR | | | | | | < 5 | |
| 60 | 3 | 0.62 | | | 3.80 | | | |
| 61 | NR | | | | | | < 50 | |
| 63 | 4 | -0.28 | | | 3.00 | | | |
| 68 | 3 | -0.62 | | | 2.70 | | | |
| 69 | 4 | 0.17 | | | 3.40 | | | |
| 70 | 2 | -1.18 | | | 2.20 | | | |
| 72 | 0 | 19.05 | | | 20.20 | | | |
| 73 | 0 | 10.62 | | | | 12.70 | | |
| 75 | NR | | | | | | < 40 | |
| 76 | 4 | -0.36 | | | 2.93 | | | |
| 78 | 0 | -2.64 | | | 0.90 | | | |
| 79 | 4 | 0.06 | | | 3.30 | | | |
| 80 | 0 | -2.53 | | | 1.00 | | | |
| 83 | 3 | -0.51 | | | 2.80 | | | |
| 84 | 3 | -0.53 | | | 2.78 | | | |
| 85 | NR | | | < 50 | | | | |
| 86 | 4 | -0.03 | | | | 3.22 | | |
| 87 | NR | | | < 20 | | | | |
| 89 | 4 | 0.11 | | | 3.35 | | | |
| 90 | 0 | 4.10 | | | 6.90 | | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|---|---|-------|---|-------|------|
| 94 | 4 | -0.31 | | | 2.97 | | | |
| 96 | 3 | -0.96 | | | 2.40 | | | |
| 97 | 3 | -0.67 | | | 2.65 | | | |
| 102 | NR | | | | | | | < 5 |
| 105 | 4 | 0.06 | | | | | | 3.30 |
| 107 | 4 | -0.06 | | | 3.20 | | | |
| 108 | 0 | 22.20 | | | 23.00 | | | |
| 109 | 0 | -2.19 | | | 1.30 | | | |
| 111 | 3 | 0.51 | | | 3.70 | | | |
| 114 | 0 | 7.59 | | | 10.00 | | | |
| 117 | 3 | 0.84 | | | 4.00 | | | |
| 118 | 3 | 0.90 | | | 4.05 | | | |
| 119 | 2 | -1.07 | | | 2.30 | | | |
| 120 | 2 | -1.18 | | | 2.20 | | | |
| 122 | 2 | 1.26 | | | 4.37 | | | |
| 127 | 4 | 0.19 | | | 3.42 | | | |
| 131 | NR | | | | | | | < 5 |
| 133 | 2 | -1.29 | | | 2.10 | | | |
| 134 | 3 | 0.51 | | | 3.70 | | | |
| 138 | 4 | 0.27 | | | 3.49 | | | |
| 140 | 2 | -1.41 | | | 2.00 | | | |
| 141 | NR | | | | | | | < 5 |
| 142 | 3 | -0.84 | | | 2.50 | | | |
| 145 | NR | | | | | | | < 84 |
| 146 | 4 | 0.06 | | | 3.30 | | | |
| 154 | 4 | 0.17 | | | 3.40 | | | |
| 158 | 3 | -0.96 | | | 2.40 | | | |
| 179 | NR | | | | | | | < 5 |
| 180 | 0 | 12.53 | | | | | 14.40 | |
| 183 | 4 | 0.39 | | | 3.60 | | | |
| 190 | 2 | -1.29 | | | 2.10 | | | |
| 193 | 2 | -1.41 | | | 2.00 | | | |
| 194 | NR | | | | | | | < 5 |
| 196 | 4 | 0.03 | | | | | | 3.28 |
| 198 | 4 | -0.28 | | | 3.00 | | | |
| 202 | 4 | -0.17 | | | 3.10 | | | |
| 203 | 3 | -0.84 | | | 2.50 | | | |
| 204 | 1 | -1.54 | | | 1.88 | | | |
| 210 | 1 | 1.97 | | | 5.00 | | | |
| 211 | 4 | -0.28 | | | 3.00 | | | |
| 212 | 2 | -1.18 | | | 2.20 | | | |
| 213 | 2 | -1.41 | | | 2.00 | | | |
| 217 | NR | | | | | | | < 5 |
| 220 | 3 | -0.62 | | | 2.70 | | | |
| 221 | 3 | 0.89 | | | 4.04 | | | |

Table 13. --Statistical summary of reported data for standard reference water sample T-127 (trace constituents)--Continued
Sb (Antimony) μ g/L



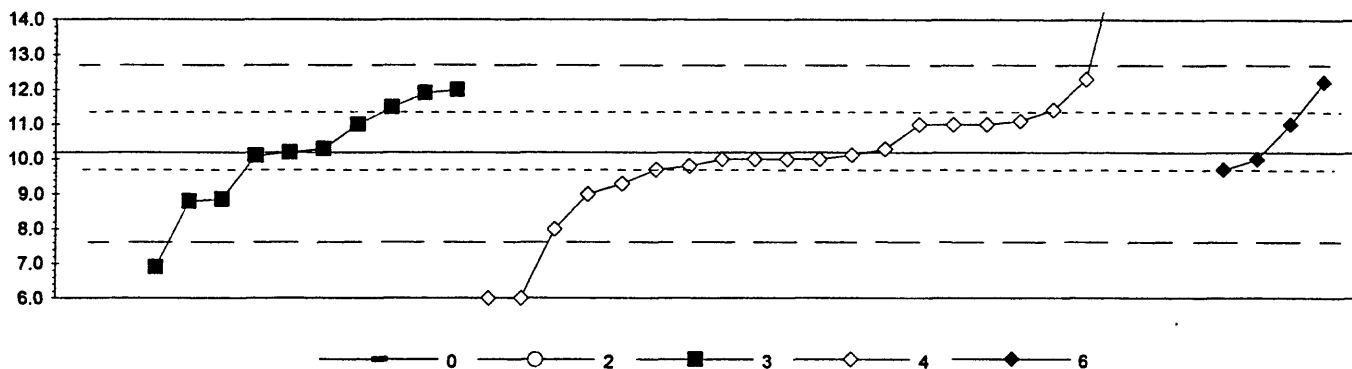
| | |
|-------------------------|--------------------------------------|
| 0. Other | 6. ICP/MS |
| 3. AA: graphite furnace | 11. AA: hydride |
| 4. ICP | |
| N = | 1 27 4 9 3 |
| Minimum = | 3.00 3.50 5.90 4.18 4.90 |
| Maximum = | 13.00 23.60 6.79 11.00 |
| Median = | 5.00 5.06 |
| St Dev = | 1.180 0.698 |

MPV = 5.15
 F-pseudostigma = 1.583
 N = 44
 Hu = 6.90
 HI = 4.76

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|---|-------|-------|------|-------|
| 1 | 4 | -0.03 | | | | 5.10 | |
| 3 | 2 | 1.17 | | 7.00 | | | |
| 5 | NR | | | | < 50 | | |
| 7 | 4 | -0.09 | | | | 5.00 | |
| 8 | 0 | 3.70 | | | | | 11.00 |
| 12 | NR | | | | < 100 | | |
| 16 | 4 | 0.47 | | | 5.90 | | |
| 18 | 4 | 0.09 | | 5.30 | | | |
| 23 | 4 | -0.46 | | 4.42 | | | |
| 24 | 1 | 1.93 | | 8.20 | | | |
| 25 | NR | | | | < 51 | | |
| 30 | 2 | 1.04 | | | | 6.79 | |
| 32 | 4 | -0.16 | | | | 4.90 | |
| 39 | 4 | 0.22 | | | | 5.50 | |
| 42 | 4 | 0.03 | | | | 5.20 | |
| 45 | 3 | 0.54 | | 6.01 | | | |
| 48 | 4 | -0.35 | | 4.60 | | | |
| 52 | NR | | | | < 6 | | |
| 55 | 4 | -0.03 | | 5.10 | | | |
| 57 | 2 | 1.17 | | 7.00 | | | |
| 58 | 0 | 4.96 | | 13.00 | | | |
| 60 | 4 | 0.22 | | 5.50 | | | |
| 61 | NR | | | | < 50 | | |
| 63 | NR | | | < 5 | | | |
| 69 | 4 | -0.35 | | 4.60 | | | |
| 70 | 4 | -0.22 | | 4.80 | | | |
| 72 | 4 | -0.26 | | 4.70 | | | |
| 75 | NR | | | | < 50 | | |
| 76 | 3 | -0.61 | | | | 4.18 | |
| 78 | 3 | -0.60 | | 4.20 | | | |
| 85 | NR | | | | < 100 | | |
| 86 | 0 | 3.06 | | | 10.00 | | |
| 94 | 2 | 1.38 | | 7.34 | | | |
| 97 | 4 | -0.27 | | 4.72 | | | |
| 102 | NR | | | | < 5 | | |
| 105 | 4 | -0.06 | | | | 5.06 | |
| 117 | 0 | 3.38 | | 10.50 | | | |
| 119 | 4 | -0.16 | | | | | 4.90 |
| 120 | 4 | -0.09 | | 5.00 | | | |
| 127 | 4 | 0.18 | | 5.44 | | | |
| 134 | 4 | 0.47 | | | | | 5.90 |
| 138 | 3 | -0.79 | | 3.90 | | | |
| 141 | NR | | | | < 20 | | |
| 142 | 2 | -1.04 | | 3.50 | | | |
| 146 | 2 | 1.42 | | | 7.40 | | |
| 179 | 4 | -0.09 | | 5.00 | | | |
| 180 | 0 | 11.66 | | | 23.60 | | |
| 194 | 3 | 0.54 | | 6.00 | | | |
| 196 | 4 | -0.15 | | | | 4.91 | |
| 198 | 3 | -0.69 | | 4.06 | | | |

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|------|-------|---|------|------|
| 202 | 3 | 0.92 | | 6.60 | | | |
| 210 | 0 | 3.51 | | 10.70 | | | |
| 211 | 4 | -0.09 | | | | 5.00 | |
| 212 | 2 | -1.36 | 3.00 | | | | |
| 217 | NR | | | | | | < 10 |

Table 13. Statistical summary of reported data for standard reference water sample T-127 (trace constituents)—Continued
V (Vanadium) μ g/L

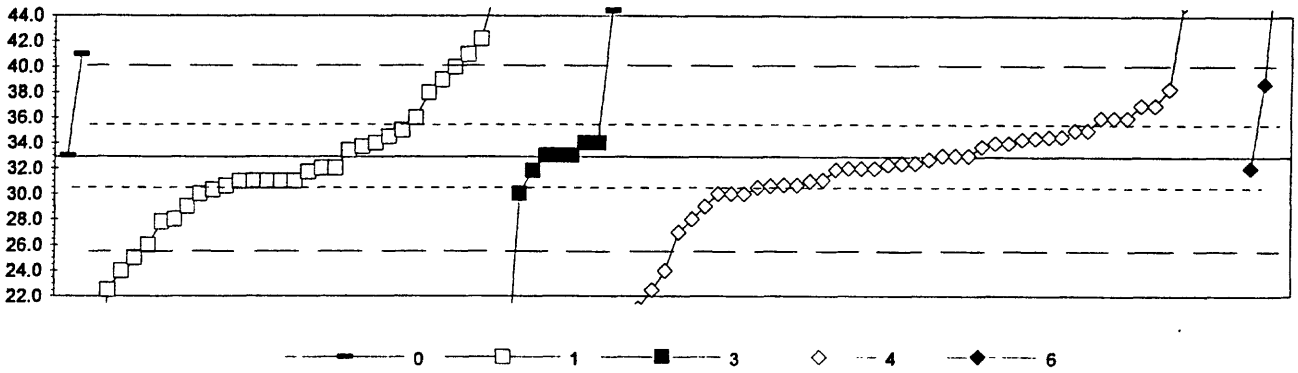


| | |
|-----------------------------|--|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 1 10 22 4 |
| Minimum = | 14.3 5.0 6.9 6.0 9.7 |
| Maximum = | 12.0 80.0 12.2 |
| Median = | 10.3 10.0 |
| St Dev = | 1.60 1.01 |

MPV = 10.2
 F-pseudosigma = 1.28
 N = 38
 Hu = 11.4
 HI = 9.7

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|-----|------|-------|------|
| 1 | 4 | -0.03 | | | | 10.1 | |
| 3 | 4 | -0.13 | | | | 10.0 | |
| 5 | 3 | 0.99 | | | | 11.4 | |
| 7 | 0 | 6.23 | | | | 18.1 | |
| 8 | 1 | -1.69 | | | | 8.0 | |
| 15 | 2 | 1.36 | | | 11.9 | | |
| 16 | NR | | | | | < 10 | |
| 18 | 4 | -0.13 | | | | 10.0 | |
| 23 | 4 | -0.05 | | | 10.1 | | |
| 24 | 3 | 0.74 | | | | 11.1 | |
| 25 | 3 | 0.66 | | | | 11.0 | |
| 32 | 3 | 0.66 | | | | | 11.0 |
| 39 | 4 | -0.36 | | | | | 9.7 |
| 42 | 4 | -0.13 | | | | | 10.0 |
| 48 | 0 | 54.78 | | | | 80.0 | |
| 50 | 3 | 0.66 | | | 11.0 | | |
| 51 | 2 | -1.07 | | | 8.8 | | |
| 52 | 0 | -2.56 | | | 6.9 | | |
| 57 | NR | | | | | < 100 | |
| 58 | 2 | -1.03 | | | 8.9 | | |
| 61 | 4 | -0.28 | | | | 9.8 | |
| 63 | 0 | 4.58 | | | | 16.0 | |
| 68 | 4 | -0.13 | | | | 10.0 | |
| 70 | NR | | | | | < 50 | |
| 75 | 3 | -0.67 | | | | 9.3 | |
| 78 | 4 | 0.11 | | | 10.3 | | |
| 85 | NR | | | | | < 20 | |
| 94 | 4 | -0.13 | | | | 10.0 | |
| 102 | 0 | -3.26 | | | | 6.0 | |
| 105 | 1 | 1.68 | | | | 12.3 | |
| 127 | 4 | 0.03 | | | 10.2 | | |
| 134 | 2 | 1.44 | | | 12.0 | | |
| 138 | 3 | 0.66 | | | | 11.0 | |
| 141 | 3 | 0.66 | | | | 11.0 | |
| 142 | 2 | 1.05 | | | 11.5 | | |
| 145 | NR | | | | | < 18 | |
| 146 | 4 | -0.36 | | | | 9.7 | |
| 154 | 3 | -0.91 | | | | 9.0 | |
| 180 | 4 | 0.11 | | | | 10.3 | |
| 182 | 0 | -4.05 | | 5.0 | | | |
| 196 | 1 | 1.62 | | | | | 12.2 |
| 210 | NR | | | | | < 50 | |
| 211 | 0 | -3.26 | | | | 6.0 | |
| 212 | 0 | 3.25 | 14.3 | | | | |
| 217 | NR | | | | | < 10 | |

Table 13. —Statistical summary of reported data for standard reference sample T-127 (trace constituents)—Continued
Zn (Zinc) **m g/L**



| | |
|-------------------------|--------------------------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 2 31 10 46 3 |
| Minimum = | 33.0 5.0 13.9 21.0 32.0 |
| Maximum = | 41.0 46.0 50.0 60.0 51.0 |
| Median = | 31.0 33.0 32.4 |
| St Dev = | 4.89 1.40 3.27 |

MPV = 32.9
 F-pseudostigma = 3.63
 N = 92
 Hu = 35.5
 Hl = 30.6

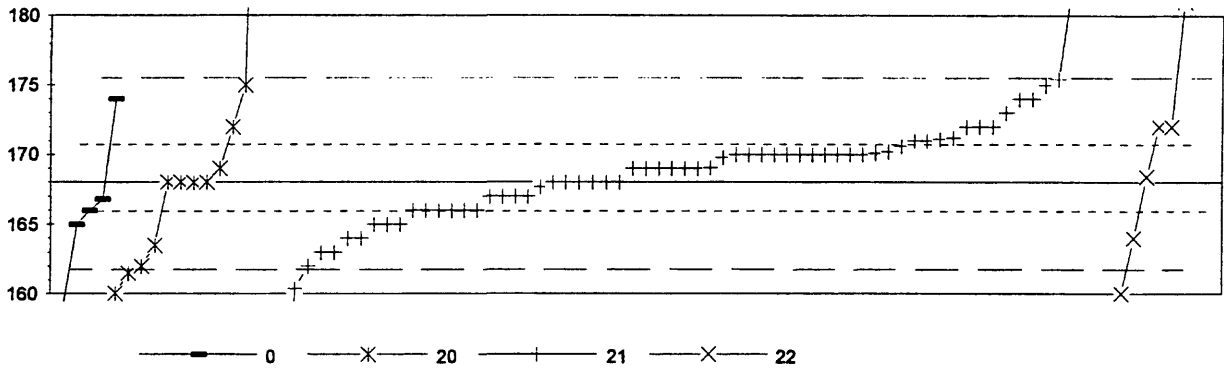
| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|------|---|
| 1 | 4 | -0.29 | | | 31.8 | | |
| 3 | 4 | 0.32 | | | | 34.0 | |
| 4 | 0 | -2.44 | | | | 24.0 | |
| 5 | 4 | -0.04 | | | | 32.7 | |
| 7 | 3 | 0.59 | | | | 35.0 | |
| 8 | 3 | 0.59 | | | | 35.0 | |
| 9 | 2 | -1.06 | 29.0 | | | | |
| 11 | 2 | 1.14 | | | | 37.0 | |
| 12 | 3 | -0.78 | | | | 30.0 | |
| 13 | 3 | -0.51 | 31.0 | | | | |
| 15 | 4 | 0.45 | | | | 34.5 | |
| 16 | 4 | 0.32 | | | | 34.0 | |
| 18 | 2 | -1.06 | | | | 29.0 | |
| 23 | 4 | -0.32 | 31.7 | | | | |
| 24 | 4 | -0.26 | | | | 31.9 | |
| 25 | 1 | -1.61 | | | | 27.0 | |
| 29 | 0 | -2.85 | 22.5 | | | | |
| 30 | 1 | 1.61 | | | | 38.7 | |
| 32 | 0 | 5.00 | | | | 51.0 | |
| 42 | 4 | -0.23 | | | | 32.0 | |
| 45 | 0 | 2.57 | 42.2 | | | | |
| 46 | 4 | 0.04 | | | | 33.0 | |
| 48 | 3 | -0.78 | | | | 30.0 | |
| 50 | 4 | 0.04 | | | 33.0 | | |
| 51 | 4 | 0.32 | | | 34.0 | | |
| 52 | 3 | -0.59 | | | | 30.7 | |
| 55 | 3 | -0.65 | | | | 30.5 | |
| 57 | 1 | 1.97 | 40.0 | | | | |
| 58 | 3 | -0.51 | 31.0 | | | | |
| 59 | 3 | -0.78 | | | | 30.0 | |
| 61 | 0 | 3.46 | | | | 45.4 | |
| 63 | 4 | 0.04 | | | 33.0 | | |
| 68 | 2 | 1.14 | | | | 37.0 | |
| 70 | 4 | -0.12 | | | | 32.4 | |
| 72 | 3 | -0.62 | | | | 30.6 | |
| 73 | 4 | -0.48 | | | | 31.1 | |
| 75 | 4 | 0.04 | | | | 33.0 | |
| 78 | 3 | -0.62 | 30.6 | | | | |
| 79 | 0 | 3.98 | | | | 47.3 | |
| 80 | 4 | -0.23 | 32.0 | | | | |
| 83 | 3 | -0.59 | | | | 30.7 | |
| 85 | 4 | 0.15 | 33.4 | | | | |
| 86 | 4 | -0.15 | | | | 32.3 | |
| 87 | 4 | 0.32 | 34.0 | | | | |
| 89 | 3 | 0.87 | 36.0 | | | | |
| 90 | 4 | 0.04 | | | 33.0 | | |
| 94 | 3 | 0.87 | | | | 36.0 | |
| 96 | 0 | 3.62 | 46.0 | | | | |
| 97 | 0 | -2.44 | 24.0 | | | | |
| 102 | 0 | -3.26 | | | | 21.0 | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 105 | 3 | 0.87 | | | | | 36.0 |
| 107 | 4 | 0.45 | | 34.5 | | | |
| 108 | 2 | 1.42 | | 38.0 | | | |
| 111 | 0 | 3.29 | | | | 44.8 | |
| 114 | 3 | -0.78 | | 30.0 | | | |
| 116 | 4 | -0.23 | | | | | 32.0 |
| 117 | 0 | -2.16 | | 25.0 | | | |
| 118 | 0 | 2.24 | 41.0 | | | | |
| 119 | 0 | 3.34 | | | | | 45.0 |
| 120 | 4 | 0.32 | | | | 34.0 | |
| 122 | 0 | -5.22 | | | | 13.9 | |
| 127 | 4 | 0.23 | | 33.7 | | | |
| 131 | 2 | -1.34 | | | | | 28.0 |
| 133 | 4 | 0.23 | | | | | 33.7 |
| 134 | 4 | -0.23 | | | | | 32.0 |
| 138 | 4 | 0.43 | | | | | 34.4 |
| 140 | 4 | -0.23 | | 32.0 | | | |
| 141 | 0 | 4.58 | | | | | 49.5 |
| 142 | 2 | 1.50 | | | | | 38.3 |
| 144 | 3 | -0.51 | | 31.0 | | | |
| 145 | 3 | 0.87 | | | | | 36.0 |
| 146 | 0 | -2.85 | | | | | 22.5 |
| 149 | 3 | 0.59 | | 35.0 | | | |
| 154 | 4 | -0.23 | | | | | 32.0 |
| 158 | 2 | -1.34 | | 28.0 | | | |
| 179 | 1 | 1.69 | | 39.0 | | | |
| 180 | 4 | 0.40 | | | | | 34.3 |
| 182 | 0 | -7.67 | | 5.0 | | | |
| 183 | 2 | -1.39 | | 27.8 | | | |
| 190 | 0 | 2.24 | | 41.0 | | | |
| 193 | 3 | -0.51 | | 31.0 | | | |
| 194 | 0 | | | | | | < 5 |
| 198 | 4 | 0.45 | | | | | 34.5 |
| 202 | 3 | -0.51 | | | | | 31.0 |
| 203 | 3 | -0.70 | | 30.3 | | | |
| 204 | 4 | -0.12 | | | | | 32.4 |
| 210 | 0 | 4.72 | | | 50.0 | | |
| 211 | 0 | 7.47 | | | | | 60.0 |
| 212 | 4 | 0.04 | 33.0 | | | | |
| 213 | 3 | -0.51 | | 31.0 | | | |
| 217 | 4 | 0.04 | | | | | 33.0 |
| 220 | 1 | -1.89 | | 26.0 | | | |
| 221 | 3 | -0.78 | | | 30.0 | | |

Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)

| Definition of analytical methods, abbreviations, and symbols | | |
|--|----------------------|---|
| <u>Analytical methods</u> | | |
| 0. Other/Not reported | | |
| 1. AA: direct, air | = | atomic absorption: direct,air |
| 2. AA: direct, N2O | = | atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct current plasma |
| 6. ICP/MS | = | mass spectrometry/inductively coupled plasma |
| 7. IC | = | ion chromatography |
| 12. Flame emission | = | flame emission |
| 20. Titrate: color | = | titration: colorimetric [color reagent specified] |
| 21. Titrate: electro | = | titration: electrometric |
| 22. Color: | = | colorimetric [color reagent specified] |
| 40. Ion electrode | = | ion selective electrode |
| 41. Electro | = | electrometric: [type meter specified] |
| 50. Gravimetric | = | gravimetric: [precipitate specified] |
| <u>Abbreviations and symbols</u> | | |
| | N = | number of samples |
| | St dev = | traditional standard deviation |
| | MPV = | 95% confidence most probable value |
| | F-pseudosigma = | nonparametric statistic deviation |
| | Hu = | upper hinge value |
| | Hi = | lower hinge value |
| | m g/L = | milligrams per liter |
| | μ g/L = | micrograms per liter |
| | μ S/cm = | microsiemens per centimeter at 25 degrees C |
| | Lab = | laboratory code number |
| | NR = | not rated, less than value reported |
| | < = | less than |
| <u>Constituent</u> | | |
| Alk | Alkalinity as CaCO3 | 70 |
| B | Boron | 71 |
| Ca | Calcium | 72 |
| Cl | Chloride | 73 |
| DSRD | Dissolved solids | 74 |
| F | Fluoride | 75 |
| K | Potassium | 76 |
| Mg | Magnesium | 77 |
| Na | Sodium | 78 |
| total P | Phosphorus | 79 |
| pH | | 80 |
| SiO2 | Silica | 81 |
| SO4 | Sulfate | 82 |
| Sp Cond | Specific Conductance | 83 |
| Sr | Strontium | 84 |
| V | Vanadium | 85 |

Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
Alk (Alkalinity as calcium carbonate) m g/L



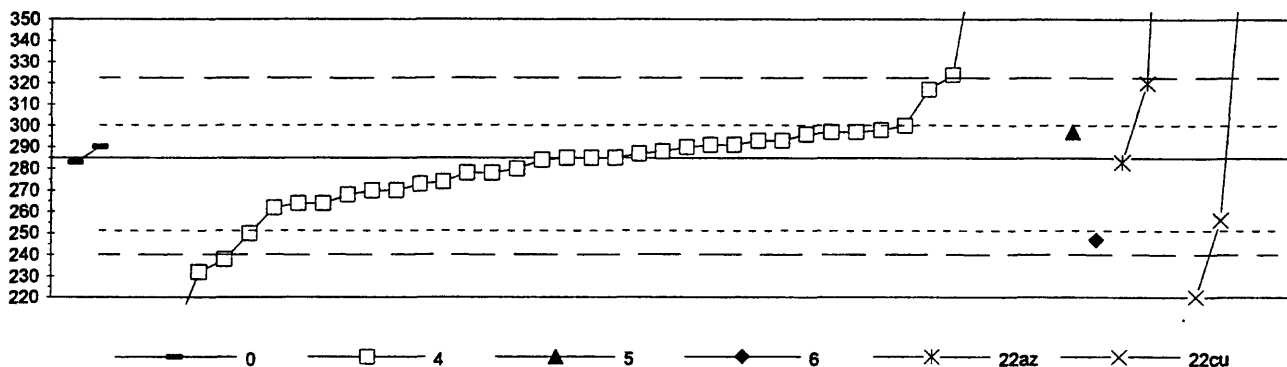
| 0. Other | | 22. Colorimetric | | | | |
|----------------------------|-----|------------------|-----|-----|-----|-----|
| 20. Titrate: colorimetric | | | | | | |
| 21. Titrate: electrometric | | | | | | |
| N = | 3 | 13 | 65 | 7 | 1 | 1 |
| Minimum = | 159 | 157 | 17 | 150 | 174 | 165 |
| Maximum = | 167 | 223 | 202 | 181 | | |
| Median = | 168 | 169 | 168 | | | |
| St Dev = | 4.6 | 3.1 | 5.2 | | | |

MPV = 169
 F-pseudostigma = 3.4
 N = 90
 Hu = 171
 Hl = 166

| Lab Rating | Z-value | 0 | 20 | 21 | 22 |
|------------|---------|--------|-----|-----|-----|
| 1 | 3 | 0.70 | | 171 | |
| 3 | 3 | 0.97 | | 172 | |
| 5 | 0 | 9.77 | | 202 | |
| 8 | 1 | 1.55 | | 174 | |
| 9 | 4 | 0.38 | | 170 | |
| 10 | 3 | 0.56 | | 171 | |
| 11 | 1 | 1.55 | 174 | | |
| 12 | 4 | -0.21 | | 168 | |
| 13 | 4 | 0.09 | | 169 | |
| 15 | 0 | -2.55 | 160 | | |
| 16 | 0 | 15.99 | 223 | | |
| 18 | 3 | 0.97 | | | 172 |
| 19 | 4 | 0.38 | | 170 | |
| 24 | 4 | -0.21 | | 168 | |
| 25 | 3 | 0.67 | | 171 | |
| 26 | 4 | 0.32 | | 170 | |
| 27 | 4 | -0.50 | | 167 | |
| 29 | 4 | 0.09 | | 169 | |
| 33 | 4 | 0.41 | | 170 | |
| 36 | 4 | 0.38 | | 170 | |
| 38 | 4 | -0.30 | | 168 | |
| 40 | 2 | -1.38 | | 164 | |
| 42 | 2 | 1.26 | | 173 | |
| 43 | 4 | 0.38 | | 170 | |
| 45 | 0 | 7.13 | | 193 | |
| 46 | 4 | -0.50 | | 167 | |
| 48 | 0 | 3.61 | | | 181 |
| 50 | 4 | 0.09 | | 169 | |
| 51 | 4 | -0.50 | | 167 | |
| 52 | 3 | -0.79 | 166 | | |
| 54 | 4 | -0.21 | | 168 | |
| 55 | 1 | 1.85 | | 175 | |
| 56 | 0 | -2.45 | | 160 | |
| 57 | 2 | -1.38 | | | 164 |
| 58 | 4 | -0.21 | | 168 | |
| 60 | 4 | -0.50 | | 167 | |
| 61 | 3 | 0.97 | | 172 | |
| 63 | 3 | -0.79 | | 166 | |
| 68 | 3 | 0.97 | | | 172 |
| 69 | 4 | -0.09 | | | 168 |
| 70 | 3 | -0.79 | | 166 | |
| 75 | 4 | 0.38 | | 170 | |
| 76 | 1 | -1.96 | 162 | | |
| 78 | 1 | -1.67 | | 163 | |
| 79 | 0 | -11.35 | | 130 | |
| 81 | 1 | -1.96 | | 162 | |
| 83 | 4 | 0.38 | | 170 | |
| 84 | 0 | -2.11 | 162 | | |
| 85 | 4 | 0.44 | | 170 | |
| 87 | 0 | -44.49 | | 17 | |

| Lab Rating | Z-value | 0 | 20 | 21 | 22 |
|------------|---------|-------|-----|----|-----|
| 89 | 4 | 0.38 | | | 170 |
| 90 | 4 | -0.21 | | | 168 |
| 94 | 4 | -0.21 | 168 | | |
| 96 | 3 | 0.67 | | | 171 |
| 97 | 1 | 1.96 | | | 175 |
| 105 | 4 | 0.09 | | | 169 |
| 107 | 2 | -1.09 | | | 165 |
| 109 | 1 | 1.55 | | | 174 |
| 114 | 4 | -0.21 | | | 168 |
| 117 | 4 | 0.12 | | | 169 |
| 118 | 1 | 1.85 | 175 | | |
| 119 | 4 | -0.21 | 168 | | |
| 120 | 2 | -1.09 | 165 | | |
| 127 | 4 | 0.09 | | | 169 |
| 128 | 0 | -5.48 | | | 150 |
| 129 | 4 | -0.21 | 168 | | |
| 134 | 4 | 0.38 | | | 170 |
| 136 | 1 | -1.52 | 164 | | |
| 138 | 3 | 0.97 | | | 172 |
| 141 | 2 | -1.09 | | | 165 |
| 142 | 4 | 0.38 | | | 170 |
| 145 | 0 | -2.55 | | | 160 |
| 146 | 3 | -0.79 | | | 166 |
| 153 | 1 | -1.67 | | | 163 |
| 154 | 4 | 0.38 | | | 170 |
| 158 | 2 | -1.09 | | | 165 |
| 180 | 3 | -0.79 | | | 166 |
| 183 | 4 | -0.21 | 168 | | |
| 191 | 4 | 0.09 | 169 | | |
| 194 | 4 | 0.38 | | | 170 |
| 197 | 3 | 0.73 | | | 171 |
| 202 | 3 | 0.97 | 172 | | |
| 203 | 0 | -3.47 | 157 | | |
| 204 | 2 | -1.38 | | | 164 |
| 210 | 3 | -0.79 | | | 166 |
| 211 | 0 | 3.90 | | | 182 |
| 212 | 0 | -2.84 | 159 | | |
| 213 | 3 | -0.79 | | | 166 |
| 218 | 3 | -0.56 | 167 | | |
| 220 | 4 | 0.09 | | | 169 |

**Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
B (Boron) m g/L**



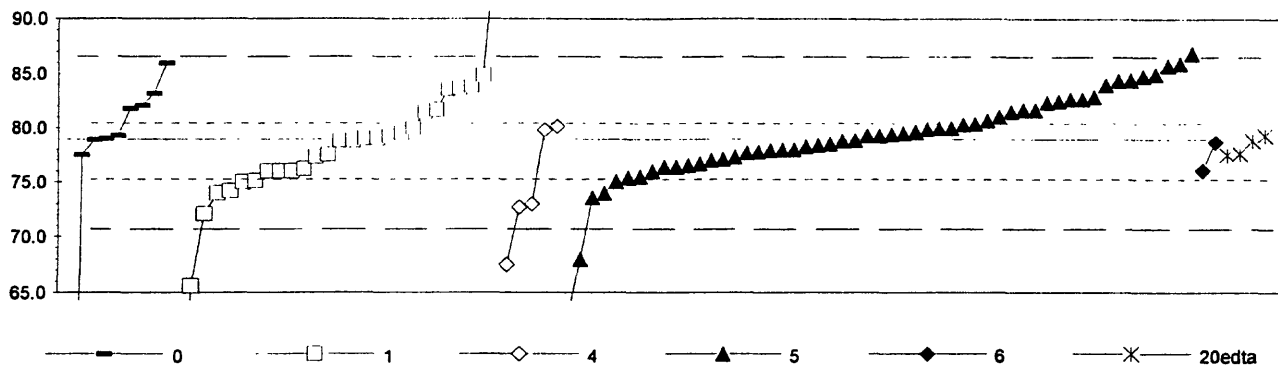
| 0. Other | | 6. ICP/MS | | | | | |
|-----------|-----|---------------------------|-----|-----|-----|-----|---|
| 4. ICP | | 22az: Titrate: azomethine | | | | | |
| 5. DCP | | 22cu: Titrate: curcimin | | | | | |
| | N = | 2 | 40 | 1 | 1 | 3 | 4 |
| Minimum = | 283 | 0 | 297 | 247 | 283 | 220 | |
| Maximum = | 290 | 700 | | | 593 | 451 | |
| Median = | | 285 | | | | | |
| St Dev = | | 19.6 | | | | | |

MPV = 285
 F-pseudosigma = 21.5
 N = 50
 Hu = 297
 Hi = 268

| Lab | Rating | Z-value | 0 | 4 | 5 | 6 | 22az | 22cu |
|-----|--------|---------|-------|-----|-----|-----|------|------|
| 1 | 3 | 0.56 | | | 297 | | | |
| 3 | 3 | -0.51 | | 274 | | | | |
| 4 | 3 | 0.60 | | 298 | | | | |
| 5 | 4 | -0.32 | | 278 | | | | |
| 8 | 3 | -0.70 | | 270 | | | | |
| 11 | 4 | 0.28 | | 291 | | | | |
| 15 | 4 | 0.37 | | 293 | | | | |
| 16 | 0 | 5.72 | | 408 | | | | |
| 18 | 4 | 0.00 | | 285 | | | | |
| 23 | 0 | 7.72 | | | | | | 451 |
| 24 | 1 | 1.81 | | 324 | | | | |
| 25 | 3 | -0.98 | | 264 | | | | |
| 29 | 0 | -3.02 | | | | | | 220 |
| 32 | 1 | -1.77 | | | | 247 | | |
| 36 | 0 | 14.33 | | | | | 593 | |
| 39 | 4 | -0.09 | 283 | | | | | |
| 40 | 2 | -1.07 | | 262 | | | | |
| 42 | 2 | 1.49 | | 317 | | | | |
| 45 | 3 | -0.56 | | 273 | | | | |
| 46 | 4 | -0.05 | | 284 | | | | |
| 50 | 1 | 1.63 | | | | | 320 | |
| 52 | NR | | < 300 | | | | | |
| 57 | 0 | 4.88 | | 390 | | | | |
| 61 | 3 | -0.70 | | 270 | | | | |
| 63 | 3 | 0.56 | | 297 | | | | |
| 68 | 0 | 12.33 | | 550 | | | | |
| 70 | 4 | 0.09 | | 287 | | | | |
| 85 | 4 | 0.37 | | 293 | | | | |
| 86 | 3 | -0.79 | | 268 | | | | |
| 94 | 4 | 0.14 | | 288 | | | | |
| 109 | 0 | -13.25 | | 0 | | | | |
| 116 | 4 | 0.28 | | 291 | | | | |
| 119 | 3 | 0.70 | | 300 | | | | |
| 121 | 4 | -0.23 | | 280 | | | | |
| 127 | 3 | 0.56 | | 297 | | | | |
| 128 | 0 | -2.19 | | 238 | | | | |
| 129 | 4 | -0.09 | | | | | 283 | |
| 131 | 0 | 19.30 | | 700 | | | | |
| 134 | 3 | 0.51 | | 296 | | | | |
| 141 | 0 | -2.47 | | 232 | | | | |
| 142 | 4 | 0.00 | | 285 | | | | |
| 145 | 4 | -0.33 | | 278 | | | | |
| 146 | 1 | -1.63 | | 250 | | | | |
| 149 | 0 | 5.44 | | | | | | 402 |
| 154 | 3 | -0.98 | | 264 | | | | |
| 180 | 4 | 0.00 | | 285 | | | | |
| 182 | 2 | -1.34 | | | | | | 256 |
| 210 | 0 | -3.95 | | 200 | | | | |
| 211 | 0 | -11.40 | | 40 | | | | |
| 212 | 4 | 0.23 | 290 | | | | | |

| Lab | Rating | Z-value | 0 | 4 | 5 | 6 | 22az | 22cu |
|-----|--------|---------|---|-----|---|---|------|------|
| 217 | 4 | 0.23 | | 290 | | | | |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
Ca (Calcium) m g/L



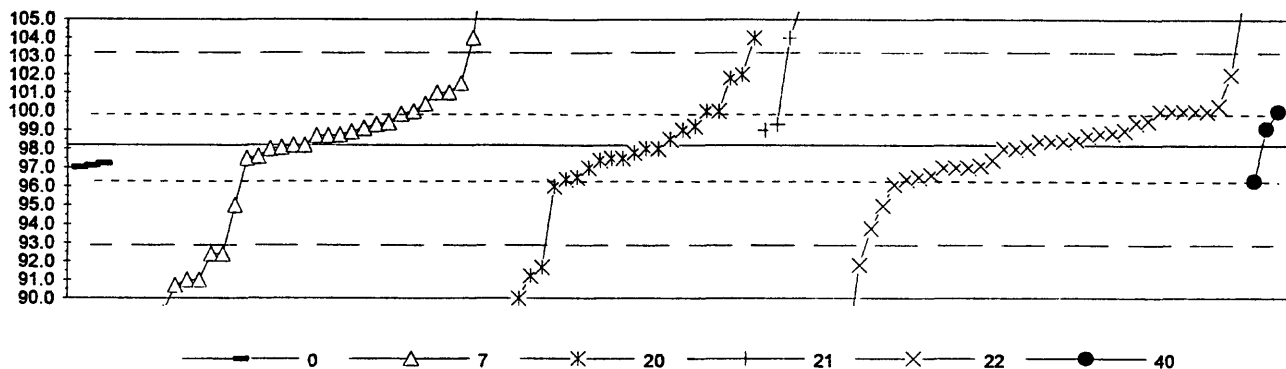
| | | | | | |
|-------------------|-------------------|------|------|------|------|
| 0. Other | 5. DCP | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | |
| 4. ICP | 20. Titrate: edta | | | | |
| N = 7 | 27 | 5 | 53 | 2 | 4 |
| Minimum = 0.5 | 23.0 | 67.5 | 62.7 | 76.1 | 77.5 |
| Maximum = 86.0 | 98.0 | 80.1 | 86.9 | 78.7 | 79.3 |
| Median = 82.0 | 78.8 | | 79.4 | | |
| St Dev = 2.68 | 3.47 | | 3.61 | | |

MPV = 78.9
 F-pseudostigma = 3.92
 N = 98
 Hu = 81.7
 HI = 76.4

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 6 | 20edta |
|-----|--------|---------|------|------|------|------|------|--------|
| 1 | 2 | 1.28 | | 83.9 | | | | |
| 3 | 2 | 1.41 | | | | 84.4 | | |
| 4 | 3 | -0.86 | | | | 75.5 | | |
| 5 | 3 | -0.59 | | | | 76.6 | | |
| 7 | 4 | 0.26 | | | | 79.9 | | |
| 8 | 3 | 0.72 | | | | 81.7 | | |
| 9 | 3 | -0.73 | | 76.0 | | | | |
| 10 | 4 | 0.08 | | 79.2 | | | | |
| 11 | 3 | 0.90 | | | | 82.4 | | |
| 12 | 2 | 1.31 | | | | 84.0 | | |
| 13 | 4 | 0.16 | | 79.5 | | | | |
| 15 | 3 | -0.63 | | | | 76.4 | | |
| 16 | 4 | -0.22 | | | | 78.0 | | |
| 18 | 4 | 0.11 | | | | 79.3 | | |
| 19 | 4 | -0.10 | | | | 78.5 | | |
| 24 | 4 | -0.45 | | | | 77.1 | | |
| 25 | 1 | 1.51 | | | | 84.8 | | |
| 26 | 3 | 0.82 | 82.1 | | | | | |
| 27 | 3 | -0.71 | | | | | 76.1 | |
| 29 | 4 | 0.11 | | | | | | 79.3 |
| 30 | 4 | -0.40 | | 77.3 | | | | |
| 32 | 4 | -0.02 | | | | | | 78.8 |
| 33 | 4 | -0.05 | | | | 78.7 | | |
| 36 | 0 | -2.90 | | | 67.5 | | | |
| 38 | 4 | 0.23 | | | 79.8 | | | |
| 39 | 2 | 1.10 | 83.2 | | | | | |
| 40 | 4 | 0.39 | | | | 80.4 | | |
| 42 | 4 | 0.29 | | | | 80.0 | | |
| 43 | 4 | 0.16 | | | | 79.5 | | |
| 45 | 4 | 0.01 | 78.9 | | | | | |
| 46 | 3 | -0.56 | | | | 76.7 | | |
| 48 | 1 | 1.76 | | | | 85.8 | | |
| 50 | 3 | -0.73 | | 76.0 | | | | |
| 51 | 3 | -0.63 | | | | 76.4 | | |
| 52 | 4 | -0.02 | | | | 78.8 | | |
| 54 | 4 | -0.35 | | 77.5 | | | | |
| 55 | 3 | 0.67 | | | | 81.5 | | |
| 56 | 3 | -0.96 | | 75.1 | | | | |
| 57 | 1 | 1.82 | | | | 86.0 | | |
| 58 | 2 | -1.19 | | 74.2 | | | | |
| 61 | 4 | -0.15 | | | | 78.3 | | |
| 63 | 1 | 2.05 | | | | 86.9 | | |
| 64 | 4 | 0.29 | | | | 80.0 | | |
| 68 | 4 | -0.22 | | | | 78.0 | | |
| 69 | 3 | -0.68 | | 76.2 | | | | |
| 70 | 4 | 0.46 | | | | 80.7 | | |
| 75 | 2 | -1.24 | | 74.0 | | | | |
| 76 | 1 | 1.54 | | 84.9 | | | | |
| 78 | 2 | 1.23 | | 83.7 | | | | |
| 81 | 3 | 0.92 | | | | 82.5 | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 6 | 20edta |
|-----|--------|---------|------|------|------|------|---|--------|
| 83 | 3 | -0.97 | | | | | | 75.1 |
| 84 | 4 | -0.02 | | 78.8 | | | | |
| 85 | 3 | -0.73 | | 76.0 | | | | |
| 86 | 4 | -0.28 | | | | | | 77.8 |
| 87 | 2 | -1.50 | | | | 73.0 | | |
| 89 | 4 | 0.03 | | 79.0 | | | | |
| 90 | 4 | 0.03 | 79.0 | | | | | |
| 93 | 2 | 1.42 | | | | | | 84.5 |
| 94 | 4 | -0.24 | | | | | | 77.9 |
| 97 | 0 | -3.39 | | 65.6 | | | | |
| 102 | 2 | -1.24 | | | | | | 74.0 |
| 105 | 3 | -0.89 | | | | | | 75.4 |
| 109 | 4 | -0.02 | | 78.8 | | | | |
| 110 | 0 | -19.99 | 0.5 | | | | | |
| 114 | 4 | 0.29 | | 80.0 | | | | |
| 116 | 3 | 0.97 | | | | | | 82.7 |
| 117 | 2 | 1.20 | | 83.6 | | | | |
| 119 | 4 | -0.40 | | | | | | 77.3 |
| 120 | 3 | 0.67 | | 81.5 | | | | |
| 121 | 4 | -0.48 | | | | | | 77.0 |
| 127 | 4 | 0.11 | | | | | | 79.3 |
| 128 | 4 | 0.21 | | | | | | 79.7 |
| 129 | 0 | 4.88 | | 98.0 | | | | |
| 131 | 2 | -1.35 | | | | | | 73.6 |
| 133 | 3 | 0.55 | | | | | | 81.1 |
| 134 | 4 | 0.37 | | | | | | 80.3 |
| 136 | 4 | -0.35 | | | | | | 77.5 |
| 138 | 2 | 1.03 | | | | | | 82.9 |
| 140 | 4 | 0.03 | | 79.0 | | | | |
| 141 | 3 | 0.72 | | | | | | 81.7 |
| 142 | 3 | 0.97 | | | | | | 82.7 |
| 145 | 4 | -0.01 | | | | | | 78.9 |
| 146 | 0 | -4.13 | | | | | | 62.7 |
| 149 | 0 | -14.25 | | 23.0 | | | | |
| 153 | 1 | 1.82 | 86.0 | | | | | |
| 154 | 4 | 0.13 | | | | | | 79.4 |
| 179 | 1 | -1.73 | | 72.1 | | | | |
| 180 | 3 | -0.73 | | | | | | 76.0 |
| 182 | 1 | -1.58 | | | 72.7 | | | |
| 191 | 4 | -0.33 | | | | | | 77.6 |
| 196 | 3 | 0.72 | | 81.7 | | | | |
| 204 | 4 | -0.12 | | | | | | 78.4 |
| 210 | 0 | -2.77 | | | | | | 68.0 |
| 211 | 1 | 1.56 | | | | | | 85.0 |
| 212 | 3 | 0.74 | 81.8 | | | | | |
| 217 | 4 | -0.30 | | | | | | 77.7 |
| 218 | 4 | 0.32 | | | 80.1 | | | |
| 220 | 3 | -0.99 | | 75.0 | | | | |

Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
Cl (Chloride)
m g/L



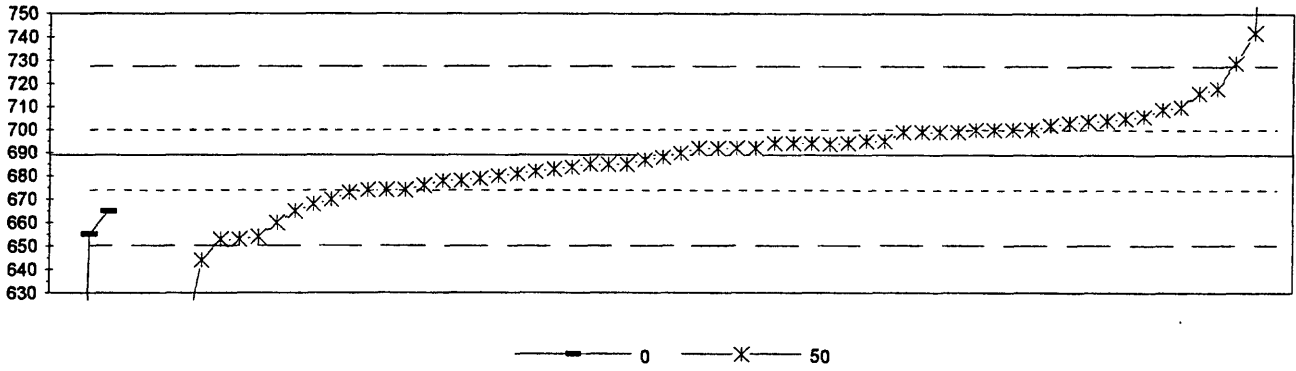
| | | | | | |
|---------------------------|-----------------------------|-------|-----|-----|-----|
| 0. Other | 21. Titrate: electrometric | | | | |
| 7. Ion chromatography | 22. Colorimetric | | | | |
| 20. Titrate: colorimetric | 40. Selective ion electrode | | | | |
| N = 3 | 34 | 21 | 4 | 37 | 3 |
| Minimum = 97 | 36 | 90 | 99 | 11 | 96 |
| Maximum = 97 | 119 | 104 | 106 | 106 | 100 |
| Median = 98.7 | 97.8 | 98.1 | | | |
| St Dev = 3.51 | 3.43 | 18.13 | | | |

MPV = 98.2
 F-pseudosigma = 2.56
 N = 102
 Hu = 99.9
 HI = 96.4

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|------|-------|-------|-------|-------|-------|
| 1 | 1 | -1.70 | | | | | 93.8 | |
| 3 | 3 | -0.60 | | | | | 96.6 | |
| 5 | 4 | 0.21 | | 98.7 | | | | |
| 7 | 0 | -2.90 | | 90.7 | | | | |
| 8 | 2 | -1.23 | | 95.0 | | | | |
| 10 | 4 | -0.41 | | | | | 97.1 | |
| 11 | 3 | 0.72 | | | | | 100.0 | |
| 12 | 4 | -0.06 | | | | | 98.0 | |
| 13 | 2 | 1.50 | | | | | 102.0 | |
| 15 | 0 | -5.13 | 85.0 | | | | | |
| 16 | 4 | 0.10 | | | | | 98.4 | |
| 18 | 4 | -0.45 | | | | | 97.0 | |
| 19 | 3 | 0.72 | | | 100.0 | | | |
| 24 | 4 | -0.02 | | | | | 98.1 | |
| 25 | 0 | -24.39 | | 35.6 | | | | |
| 26 | 0 | -3.96 | | 88.0 | | | | |
| 29 | 0 | 2.28 | | | 104.0 | | | |
| 30 | 0 | -2.24 | | 92.4 | | | | |
| 32 | 0 | -2.24 | | 92.4 | | | | |
| 33 | 2 | 1.31 | | 101.5 | | | | |
| 36 | 3 | -0.68 | | | | | 96.4 | |
| 39 | 0 | 2.28 | | | | 104.0 | | |
| 40 | 3 | 0.72 | | | | | 100.0 | |
| 42 | 4 | 0.21 | | 98.7 | | | | |
| 43 | 3 | 0.72 | | | | | | 100.0 |
| 45 | 3 | 0.53 | | | | | 99.5 | |
| 46 | 3 | 0.84 | | | | | 100.3 | |
| 48 | 4 | -0.45 | | | 97.0 | | | |
| 50 | 2 | -1.23 | | | | | 95.0 | |
| 51 | 0 | 4.07 | | 108.6 | | | | |
| 52 | 4 | 0.14 | | | | | 98.5 | |
| 54 | 0 | -19.20 | | | | | 48.9 | |
| 55 | 0 | -2.48 | | | | | 91.8 | |
| 56 | 0 | -2.53 | | | 91.7 | | | |
| 57 | 0 | -33.98 | | | | | 11.0 | |
| 58 | 3 | -0.68 | | | 96.4 | | | |
| 60 | 2 | 1.50 | | | 102.0 | | | |
| 61 | 0 | 3.06 | | | | 106.0 | | |
| 63 | 4 | -0.45 | | | | | 97.0 | |
| 64 | 4 | 0.45 | | 99.3 | | | | |
| 68 | 0 | -4.43 | | | | | 86.8 | |
| 69 | 4 | 0.33 | | | | | 99.0 | |
| 70 | 4 | -0.06 | | | 98.0 | | | |
| 75 | 3 | 0.72 | | 100.0 | | | | |
| 76 | 4 | -0.21 | | 97.6 | | | | |
| 78 | 4 | -0.06 | | | | | 98.0 | |
| 81 | 4 | -0.14 | | | 97.8 | | | |
| 83 | 4 | 0.14 | | | 98.5 | | | |
| 84 | 4 | -0.29 | | | | | 97.4 | |
| 85 | 4 | 0.10 | | | | | 98.4 | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|------|-------|-------|------|-------|-------|
| 86 | 0 | 6.18 | | 114.0 | | | | |
| 87 | 0 | -19.55 | | | | | | 48.0 |
| 89 | 4 | 0.41 | | | 99.2 | | | |
| 93 | 3 | 0.67 | | 99.9 | | | | |
| 94 | 4 | -0.45 | | | | | | 97.0 |
| 96 | 4 | 0.25 | | | | | | 98.8 |
| 97 | 4 | 0.10 | | | | | | 98.4 |
| 102 | 3 | 0.72 | | | | | | 100.0 |
| 105 | 4 | 0.02 | | 98.2 | | | | |
| 107 | 3 | 0.72 | | | 100.0 | | | |
| 109 | 4 | 0.33 | | | | 99.0 | | |
| 114 | 4 | 0.37 | | | | | | 99.1 |
| 116 | 4 | 0.29 | | 98.9 | | | | |
| 117 | 2 | 1.42 | | | 101.8 | | | |
| 119 | 3 | -0.84 | | | 96.0 | | | |
| 120 | 3 | -0.64 | | | 96.5 | | | |
| 127 | 4 | -0.25 | | 97.5 | | | | |
| 128 | 3 | 0.72 | | | | | 100.0 | |
| 129 | 0 | -2.79 | | 91.0 | | | | |
| 131 | 4 | -0.06 | | 98.0 | | | | |
| 134 | 4 | 0.49 | | 99.4 | | | | |
| 138 | 2 | 1.11 | | 101.0 | | | | |
| 140 | 4 | 0.27 | | | | | | 98.9 |
| 141 | 3 | -0.80 | | | | | | 96.1 |
| 142 | 4 | 0.21 | | | | | | 98.7 |
| 145 | 4 | 0.23 | | 98.8 | | | | |
| 146 | 0 | 3.06 | | | | | | 108.0 |
| 149 | 2 | 1.11 | | 101.0 | | | | |
| 153 | 0 | -2.79 | | 91.0 | | | | |
| 154 | 3 | -0.64 | | | | | | 96.5 |
| 179 | 4 | -0.06 | | | 98.0 | | | |
| 180 | 3 | 0.72 | | | | | 100.0 | |
| 182 | 0 | -3.18 | | | 90.0 | | | |
| 183 | 4 | -0.29 | | | 97.4 | | | |
| 190 | 4 | 0.02 | | 98.2 | | | | |
| 191 | 3 | 0.88 | | 100.4 | | | | |
| 193 | 0 | -3.49 | | 89.2 | | | | |
| 194 | 3 | -0.72 | | | | | | 96.3 |
| 196 | 4 | -0.03 | | 98.1 | | | | |
| 197 | 4 | 0.37 | | 99.1 | | | | |
| 202 | 4 | 0.33 | | | 99.0 | | | |
| 203 | 0 | -2.71 | | | 91.2 | | | |
| 204 | 4 | 0.45 | | | | 99.3 | | |
| 208 | 0 | 2.28 | | 104.0 | | | | |
| 210 | 0 | -5.91 | | 83.0 | | | | |
| 211 | 4 | -0.25 | | | 97.5 | | | |
| 212 | 4 | -0.41 | 97.1 | | | | | |
| 213 | 4 | -0.25 | | | 97.5 | | | |
| 217 | 4 | -0.37 | 97.2 | | | | | |
| 218 | 0 | 8.21 | | 119.2 | | | | |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
DSRD (Dissolved solids) **m g/L**



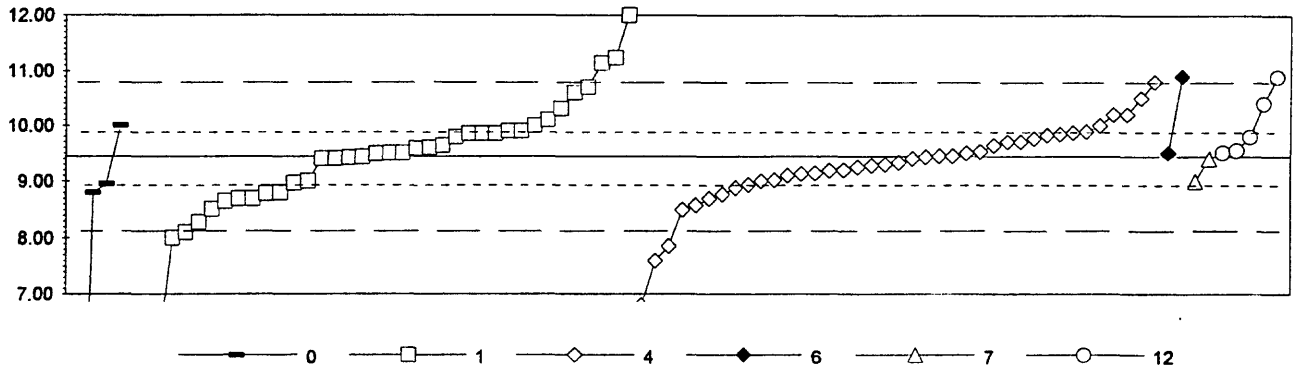
| | | | |
|-----------------|-----|-------|--|
| 0. Other | | | |
| 50. Gravimetric | | | |
| N = | 3 | 63 | |
| Minimum = | 0 | 17 | |
| Maximum = | 665 | 868 | |
| Median = | | 692 | |
| St Dev = | | 18.31 | |

MPV = 689
 F-pseudostigma = 19.3
 N = 66
 Hu = 700
 Hl = 674

| Lab | Rating | Z-value | 0 | 50 |
|-----|--------|---------|-----|-----|
| 1 | 4 | -0.26 | 684 | 684 |
| 3 | 3 | 0.57 | 700 | 700 |
| 5 | 0 | -32.10 | 70 | 70 |
| 8 | 4 | -0.21 | 685 | 685 |
| 10 | 4 | 0.16 | 692 | 692 |
| 11 | 3 | -0.57 | 678 | 678 |
| 12 | 2 | 1.50 | 718 | 718 |
| 13 | 4 | -0.31 | 683 | 683 |
| 15 | 2 | -1.25 | 665 | 665 |
| 16 | 0 | -32.24 | 68 | 68 |
| 18 | 4 | -0.47 | 680 | 680 |
| 19 | 3 | -0.67 | 676 | 676 |
| 23 | 4 | 0.16 | 692 | 692 |
| 25 | 1 | -1.82 | 654 | 654 |
| 26 | 4 | 0.31 | 695 | 695 |
| 29 | 4 | 0.26 | 694 | 694 |
| 32 | 0 | -4.41 | 604 | 604 |
| 36 | 3 | 0.52 | 699 | 699 |
| 38 | 0 | -34.87 | 17 | 17 |
| 39 | 2 | 1.09 | 710 | 710 |
| 40 | 3 | 0.88 | 706 | 706 |
| 43 | 3 | 0.78 | 704 | 704 |
| 45 | 3 | 0.67 | 702 | 702 |
| 46 | 4 | 0.26 | 694 | 694 |
| 48 | 3 | 0.57 | 700 | 700 |
| 50 | 4 | -0.21 | 685 | 685 |
| 51 | 3 | -0.57 | 678 | 678 |
| 52 | 4 | -0.42 | 681 | 681 |
| 54 | 3 | -0.99 | 670 | 670 |
| 55 | 4 | 0.26 | 694 | 694 |
| 57 | 4 | 0.05 | 690 | 690 |
| 60 | 3 | 0.52 | 699 | 699 |
| 61 | 4 | -0.21 | 685 | 685 |
| 63 | 3 | -0.78 | 674 | 674 |
| 69 | 2 | 1.04 | 709 | 709 |
| 70 | 4 | -0.36 | 682 | 682 |
| 75 | 3 | 0.57 | 700 | 700 |
| 76 | 4 | -0.05 | 688 | 688 |
| 78 | 2 | -1.25 | 665 | 665 |
| 81 | 4 | 0.16 | 692 | 692 |
| 85 | 4 | -0.10 | 687 | 687 |
| 89 | 0 | 2.08 | 729 | 729 |
| 90 | 2 | -1.50 | 660 | 660 |
| 94 | 3 | 0.83 | 705 | 705 |
| 97 | 2 | -1.09 | 668 | 668 |
| 105 | 0 | 9.29 | 868 | 868 |
| 109 | 2 | 1.40 | 716 | 716 |
| 114 | 0 | 2.75 | 742 | 742 |
| 119 | 3 | -0.78 | 674 | 674 |
| 120 | 3 | 0.73 | 703 | 703 |

| Lab | Rating | Z-value | 0 | 50 |
|-----|--------|---------|-----|-----|
| 127 | 4 | 0.31 | 695 | 695 |
| 129 | 0 | -2.33 | 644 | 644 |
| 131 | 1 | -1.76 | 655 | 655 |
| 134 | 3 | 0.52 | 699 | 699 |
| 136 | 3 | 0.77 | 704 | 704 |
| 138 | 1 | -1.87 | 653 | 653 |
| 140 | 1 | -1.87 | 653 | 653 |
| 141 | 4 | 0.26 | 694 | 694 |
| 142 | 4 | 0.26 | 694 | 694 |
| 146 | 3 | -0.83 | 673 | 673 |
| 158 | 3 | 0.52 | 699 | 699 |
| 182 | 3 | -0.52 | 679 | 679 |
| 183 | 3 | 0.57 | 700 | 700 |
| 190 | 0 | -35.74 | 0 | 0 |
| 202 | 3 | -0.78 | 674 | 674 |
| 211 | 4 | 0.16 | 692 | 692 |

Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
K (Potassium)
m g/L



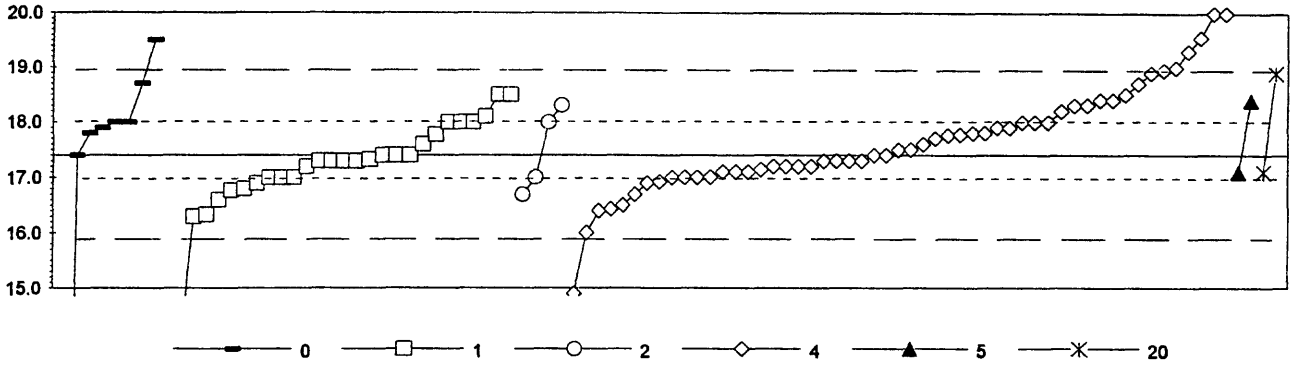
| | |
|-------------------|--|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 12. Flame emission |
| N = | 4 38 39 2 2 5 |
| Minimum = | 0.07 2.31 6.80 9.50 9.00 9.51 |
| Maximum = | 10.00 12.00 10.80 10.90 9.40 10.89 |
| Median = | 9.50 9.37 |
| St Dev = | 0.791 0.639 |

MPV = 9.44
 F-pseudosigma = 0.675
 N = 90
 Hu = 9.85
 Hl = 8.94

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|-------|-------|-------|-------|-------|------|
| 1 | 4 | -0.01 | 9.43 | | | | | |
| 3 | 1 | 1.57 | | 10.50 | | | | |
| 5 | 3 | 0.57 | | | 9.83 | | | |
| 7 | 3 | 0.83 | | | 10.00 | | | |
| 8 | 4 | 0.09 | | 9.50 | | | | |
| 9 | 4 | -0.06 | 9.40 | | | | | |
| 10 | 4 | 0.09 | 9.50 | | | | | |
| 11 | 3 | -0.83 | | | 8.88 | | | |
| 12 | 4 | 0.39 | | | 9.70 | | | |
| 13 | 2 | -1.38 | 8.51 | | | | | |
| 15 | 3 | 0.59 | | | 9.84 | | | |
| 16 | 1 | 1.87 | 10.70 | | | | | |
| 18 | 4 | -0.50 | | | 9.10 | | | |
| 19 | 4 | 0.01 | | | 9.45 | | | |
| 23 | 3 | -0.98 | 8.78 | | | | | |
| 24 | 3 | -0.99 | | | 8.77 | | | |
| 25 | 2 | 1.13 | | | 10.20 | | | |
| 26 | 4 | -0.06 | | | | 9.40 | | |
| 27 | 2 | 1.27 | 10.30 | | | | | |
| 29 | 4 | 0.10 | | | | | | 9.51 |
| 32 | 0 | 2.16 | | | | 10.90 | | |
| 33 | 3 | 0.83 | 10.00 | | | | | |
| 36 | 3 | -0.73 | 8.95 | | | | | |
| 38 | 3 | 0.52 | | 9.79 | | | | |
| 40 | 4 | -0.24 | | | 9.28 | | | |
| 42 | 4 | 0.39 | | | 9.70 | | | |
| 43 | 4 | -0.36 | | | 9.20 | | | |
| 45 | 4 | 0.30 | | 9.64 | | | | |
| 46 | 2 | -1.27 | | | 8.58 | | | |
| 48 | 4 | 0.30 | | | 9.64 | | | |
| 50 | 4 | -0.06 | 9.40 | | | | | |
| 51 | 3 | 0.53 | | | | | 9.80 | |
| 52 | 3 | -0.74 | | | 8.94 | | | |
| 54 | 3 | -0.65 | | 9.00 | | | | |
| 55 | 4 | 0.21 | | 9.58 | | | | |
| 56 | 0 | 2.67 | | 11.24 | | | | |
| 57 | 0 | 3.79 | | 12.00 | | | | |
| 58 | 3 | -0.95 | | 8.80 | | | | |
| 61 | 3 | 0.64 | | | 9.87 | | | |
| 63 | 1 | 2.02 | | | 10.80 | | | |
| 64 | 4 | -0.03 | | 9.42 | | | | |
| 68 | 4 | -0.21 | | | 9.30 | | | |
| 69 | 2 | 1.42 | | | | | 10.40 | |
| 70 | 2 | 1.13 | | | 10.20 | | | |
| 75 | 2 | -1.10 | | 8.70 | | | | |
| 76 | 3 | 0.61 | | 9.85 | | | | |
| 78 | 4 | 0.24 | | 9.60 | | | | |
| 81 | 4 | 0.13 | | | 9.53 | | | |
| 83 | 0 | 2.52 | | 11.14 | | | | |
| 85 | 3 | 0.61 | | 9.85 | | | | |
| 86 | 4 | -0.06 | | 9.40 | | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|-------|------|------|------|-------|
| 86 | 4 | -0.06 | | | 9.40 | | | |
| 87 | 2 | -1.17 | | 8.65 | | | | |
| 89 | 3 | 0.98 | | 10.10 | | | | |
| 93 | 0 | 2.15 | | | | | | 10.89 |
| 94 | 4 | -0.46 | | | | | 9.13 | |
| 97 | 4 | 0.07 | | 9.49 | | | | |
| 102 | 0 | -2.73 | | | 7.60 | | | |
| 105 | 4 | -0.28 | | | 9.25 | | | |
| 109 | 3 | 0.61 | | 9.85 | | | | |
| 110 | 0 | -13.89 | 0.07 | | | | | |
| 114 | 0 | -5.10 | | 6.00 | | | | |
| 117 | 1 | -1.72 | | 8.28 | | | | |
| 119 | 3 | -0.65 | | | 9.00 | | | |
| 120 | 0 | -10.57 | | 2.31 | | | | |
| 127 | 4 | -0.16 | | | 9.33 | | | |
| 128 | 4 | -0.01 | | | 9.43 | | | |
| 129 | 1 | 1.72 | | 10.60 | | | | |
| 131 | 0 | -3.91 | | | 6.80 | | | |
| 134 | 3 | 0.68 | | 9.90 | | | | |
| 138 | 3 | -0.62 | | | 9.02 | | | |
| 140 | 4 | 0.09 | | 9.50 | | | | |
| 141 | 3 | 0.67 | | | 9.89 | | | |
| 142 | 4 | 0.47 | | | 9.76 | | | |
| 145 | 4 | -0.44 | | | 9.14 | | | |
| 146 | 0 | -2.34 | | | 7.86 | | | |
| 149 | 0 | -2.13 | | 8.00 | | | | |
| 153 | 3 | -0.65 | | | | | 9.00 | |
| 154 | 4 | 0.01 | | | 9.45 | | | |
| 179 | 3 | 0.68 | | 9.90 | | | | |
| 180 | 4 | -0.37 | | | 9.19 | | | |
| 182 | 1 | -1.99 | | 8.10 | | | | |
| 191 | 4 | 0.09 | | | | 9.50 | | |
| 196 | 3 | -0.70 | | 8.97 | | | | |
| 204 | 4 | 0.16 | | | | | | 9.55 |
| 210 | 0 | -6.14 | | 5.30 | | | | |
| 211 | 2 | -1.39 | | | 8.50 | | | |
| 212 | 3 | -0.95 | 8.80 | | | | | |
| 217 | 2 | -1.10 | | | 8.70 | | | |
| 218 | 3 | 0.83 | | 10.00 | | | | |
| 220 | 2 | -1.10 | | 8.70 | | | | |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
Mg (Magnesium) m g/L



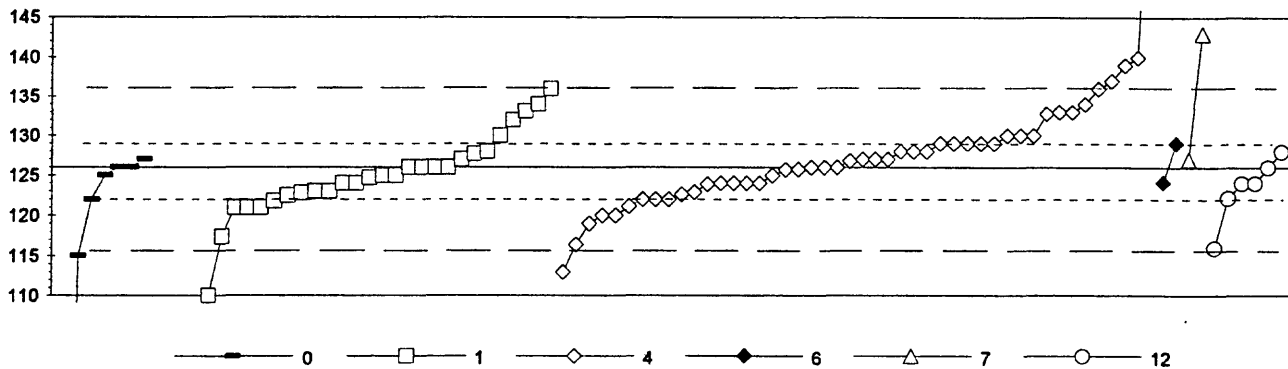
| | | | | | |
|-----------------------------|-------------------|------|------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: direct air | 5. DCP | | | | |
| 2. AA: direct nitrous oxide | 20. Titrate: edta | | | | |
| N = 8 | 28 | 4 | 53 | 2 | 2 |
| Minimum = 0.1 | 10.0 | 16.7 | 14.9 | 17.1 | 17.1 |
| Maximum = 19.5 | 18.5 | 18.3 | 20.0 | 18.4 | 18.9 |
| Median = 18.0 | 17.3 | | 17.5 | | |
| St Dev = 0.70 | 0.59 | | 0.78 | | |

MPV = 17.4
 F-pseudosigma = 0.74
 N = 97
 Hu = 18.0
 Hl = 17.0

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 20 |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 4 | -0.40 | | | | 17.1 | | |
| 3 | 3 | 0.54 | | | | 17.8 | | |
| 4 | 3 | -0.54 | | | | 17.0 | | |
| 5 | 3 | -0.65 | | | | 16.9 | | |
| 7 | 3 | 0.67 | | | | 17.9 | | |
| 8 | 2 | -1.21 | | | | 16.5 | | |
| 9 | 3 | -0.81 | | 16.8 | | | | |
| 10 | 4 | -0.13 | | 17.3 | | | | |
| 11 | 2 | 1.35 | | | | 18.4 | | |
| 12 | 2 | 1.21 | | | | 18.3 | | |
| 13 | 2 | 1.48 | | 18.5 | | | | |
| 15 | 2 | 1.48 | | | | 18.5 | | |
| 16 | 3 | -0.54 | | | | 17.0 | | |
| 18 | 4 | -0.27 | | | | 17.2 | | |
| 19 | 4 | 0.27 | | | | 17.6 | | |
| 23 | 4 | 0.00 | | 17.4 | | | | |
| 24 | 4 | -0.27 | | | | 17.2 | | |
| 25 | 1 | 2.02 | | | | 18.9 | | |
| 26 | 3 | 0.67 | | 17.9 | | | | |
| 27 | 4 | -0.40 | | | | | 17.1 | |
| 29 | 4 | -0.40 | | | | | | 17.1 |
| 30 | 4 | -0.27 | | 17.2 | | | | |
| 32 | 0 | 2.83 | 19.5 | | | | | |
| 33 | 2 | 1.35 | | | | | 18.4 | |
| 36 | 3 | -0.94 | | | 16.7 | | | |
| 38 | 4 | 0.50 | | 17.8 | | | | |
| 39 | 3 | 0.81 | 18.0 | | | | | |
| 40 | 3 | 0.54 | | | | 17.8 | | |
| 42 | 3 | 0.81 | | | | 18.0 | | |
| 43 | 4 | -0.13 | | | | 17.3 | | |
| 45 | 3 | 0.54 | 17.8 | | | | | |
| 46 | 4 | 0.13 | | | | 17.5 | | |
| 48 | 0 | 2.16 | | | | 19.0 | | |
| 50 | 3 | -0.54 | | 17.0 | | | | |
| 51 | 2 | -1.08 | | 16.6 | | | | |
| 52 | 4 | -0.27 | | | | 17.2 | | |
| 54 | 4 | 0.00 | | 17.4 | | | | |
| 55 | 2 | 1.08 | | | | 18.2 | | |
| 56 | 2 | -1.44 | | 16.3 | | | | |
| 57 | 1 | 1.75 | | | | 18.7 | | |
| 58 | 0 | -4.72 | | 13.9 | | | | |
| 61 | 4 | 0.49 | | | | 17.8 | | |
| 63 | 0 | 2.56 | | | | 19.3 | | |
| 64 | 4 | -0.13 | | | | 17.3 | | |
| 68 | 3 | 0.81 | | | | 18.0 | | |
| 69 | 3 | -0.67 | | 16.9 | | | | |
| 70 | 4 | 0.40 | | | | 17.7 | | |
| 75 | 3 | 0.81 | | 18.0 | | | | |
| 78 | 2 | 1.48 | | 18.5 | | | | |
| 81 | 3 | -0.54 | | | | 17.0 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 20 |
|-----|--------|---------|------|------|------|------|---|------|
| 83 | 2 | -1.31 | | | | 16.4 | | |
| 84 | 4 | -0.13 | | 17.3 | | | | |
| 85 | 4 | 0.00 | | 17.4 | | | | |
| 86 | 2 | 1.35 | | | | 18.4 | | |
| 87 | 3 | -0.54 | | 17.0 | | | | |
| 89 | 4 | 0.27 | | 17.6 | | | | |
| 93 | 0 | 2.90 | | | | 19.6 | | |
| 94 | 4 | -0.40 | | | | 17.1 | | |
| 97 | 4 | -0.13 | | 17.3 | | | | |
| 102 | 3 | -0.94 | | | | 16.7 | | |
| 105 | 2 | -1.35 | | | | 16.4 | | |
| 109 | 3 | 0.81 | | 18.0 | | | | |
| 110 | 0 | -23.39 | 0.1 | | | | | |
| 114 | 3 | 0.81 | | | 18.0 | | | |
| 116 | 4 | -0.13 | | | | 17.3 | | |
| 117 | 3 | -0.85 | | 16.8 | | | | |
| 119 | 4 | -0.27 | | | | 17.2 | | |
| 120 | 4 | -0.10 | | 17.3 | | | | |
| 121 | 0 | 3.51 | | | | 20.0 | | |
| 127 | 4 | -0.13 | | | | 17.3 | | |
| 128 | 4 | -0.35 | | | | 17.1 | | |
| 129 | 0 | -9.98 | | 10.0 | | | | |
| 131 | 3 | 0.67 | | | | 17.9 | | |
| 133 | 4 | 0.13 | | | | 17.5 | | |
| 134 | 4 | 0.50 | | | | 17.8 | | |
| 136 | 1 | 2.02 | | | | | | 18.9 |
| 138 | 4 | 0.00 | | | | 17.4 | | |
| 140 | 4 | -0.13 | | 17.3 | | | | |
| 141 | 2 | 1.23 | | | | 18.3 | | |
| 142 | 0 | 2.09 | | | | 19.0 | | |
| 145 | 3 | -0.53 | | | | 17.0 | | |
| 146 | 0 | -3.37 | | | | 14.9 | | |
| 149 | 2 | -1.48 | | 16.3 | | | | |
| 153 | 1 | 1.75 | 18.7 | | | | | |
| 154 | 4 | -0.40 | | | | 17.1 | | |
| 179 | 3 | 0.94 | | 18.1 | | | | |
| 180 | 3 | 0.81 | | | | 18.0 | | |
| 182 | 3 | -0.54 | | | 17.0 | | | |
| 191 | 4 | 0.00 | 17.4 | | | | | |
| 196 | 3 | 0.81 | | 18.0 | | | | |
| 204 | 4 | 0.00 | | | | 17.4 | | |
| 210 | 1 | -1.89 | | | | 16.0 | | |
| 211 | 0 | 3.51 | | | | 20.0 | | |
| 212 | 3 | 0.81 | 18.0 | | | | | |
| 217 | 3 | -0.67 | | | | 16.9 | | |
| 218 | 2 | 1.23 | | | 18.3 | | | |
| 220 | 3 | -0.54 | | 17.0 | | | | |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
Na (Sodium) m g/L



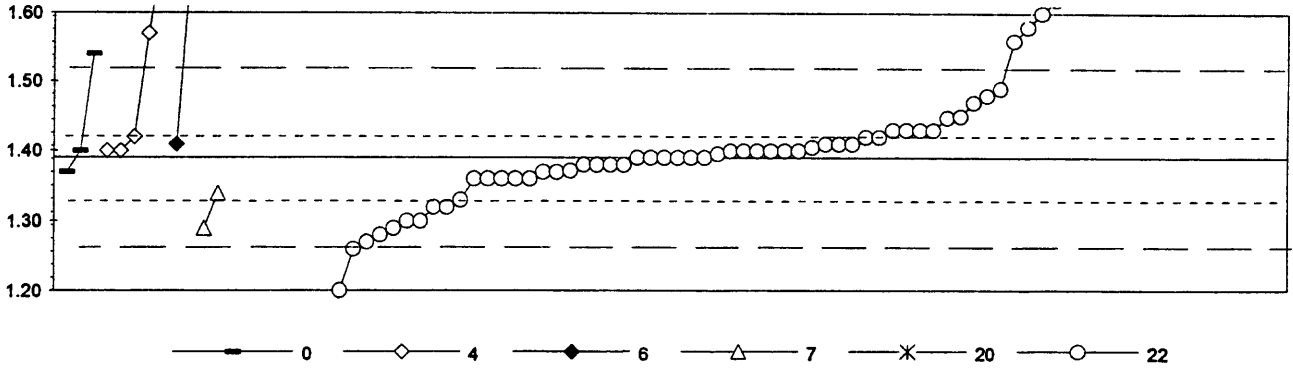
| | | | | | |
|-------------------|-----------------------|-----|-----|-----|-----|
| 0. Other | 6. ICP/MS | | | | |
| 1. AA: direct air | 7. Ion chromatography | | | | |
| 4. ICP | 12. Flame emission | | | | |
| N = 7 | 31 | 46 | 2 | 2 | 6 |
| Minimum = 0 | 55 | 113 | 124 | 127 | 116 |
| Maximum = 127 | 136 | 173 | 129 | 143 | 128 |
| Median = 126 | 125 | 127 | | | |
| St Dev = 4.5 | 4.4 | 5.6 | | | |

MPV = 126
 F-pseudosigma = 5.0
 N = 94
 Hu = 129
 HI = 122

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 3 | -0.94 | | | 121 | | | |
| 3 | 0 | 2.21 | | | 137 | | | |
| 4 | 3 | 0.62 | | | 129 | | | |
| 5 | 4 | -0.39 | | | 124 | | | |
| 7 | 3 | 0.62 | | | 129 | | | |
| 8 | 3 | 0.62 | | | 129 | | | |
| 9 | 4 | -0.37 | | 124 | | | | |
| 10 | 4 | -0.23 | | 125 | | | | |
| 11 | 3 | 0.82 | | | 130 | | | |
| 12 | 4 | 0.42 | | | 128 | | | |
| 13 | 4 | -0.17 | | 125 | | | | |
| 15 | 4 | 0.22 | | | 127 | | | |
| 16 | 4 | 0.02 | | | 126 | | | |
| 18 | 3 | -0.59 | | | 123 | | | |
| 19 | 4 | 0.18 | | | 127 | | | |
| 23 | 3 | -0.57 | | 123 | | | | |
| 24 | 3 | -0.77 | | | 122 | | | |
| 25 | 1 | 1.61 | | | 134 | | | |
| 26 | 4 | 0.22 | | | | | 127 | |
| 29 | 4 | -0.37 | | | | | | 124 |
| 32 | 3 | 0.62 | | | | 129 | | |
| 33 | 0 | -2.16 | 115 | | | | | |
| 36 | 3 | -0.77 | 122 | | | | | |
| 38 | 1 | -1.68 | | 117 | | | | |
| 39 | 4 | 0.22 | 127 | | | | | |
| 40 | 4 | -0.37 | | | 124 | | | |
| 42 | 3 | 0.62 | | | 129 | | | |
| 43 | 4 | 0.02 | | | 126 | | | |
| 45 | 4 | 0.02 | 126 | | | | | |
| 46 | 3 | -0.77 | | | 122 | | | |
| 48 | 0 | 2.60 | | | 139 | | | |
| 50 | 3 | -0.57 | | 123 | | | | |
| 51 | 3 | -0.73 | | | | | 122 | |
| 52 | 4 | -0.37 | | | 124 | | | |
| 54 | 4 | 0.02 | | 126 | | | | |
| 55 | 4 | 0.42 | | 128 | | | | |
| 56 | 3 | -0.61 | | 123 | | | | |
| 57 | 4 | 0.02 | | | 126 | | | |
| 58 | 0 | -6.21 | | 95 | | | | |
| 61 | 4 | -0.04 | | | 126 | | | |
| 63 | 0 | 2.80 | | | 140 | | | |
| 64 | 4 | -0.17 | | 125 | | | | |
| 68 | 3 | 0.82 | | | 130 | | | |
| 69 | 1 | -1.96 | | | | | 116 | |
| 70 | 4 | 0.22 | | | 127 | | | |
| 75 | 4 | 0.02 | | 126 | | | | |
| 78 | 2 | 1.21 | | 132 | | | | |
| 81 | 0 | 9.35 | | | 173 | | | |
| 83 | 1 | -1.88 | | | 116 | | | |
| 84 | 4 | 0.42 | | | | | | 128 |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|-----|-----|-----|-----|---|-----|
| 85 | 3 | -0.97 | | 121 | | | | |
| 86 | 4 | 0.22 | | | 127 | | | |
| 87 | 3 | -0.97 | | 121 | | | | |
| 89 | 3 | 0.82 | | 130 | | | | |
| 93 | 4 | -0.37 | | | | | | 124 |
| 94 | 3 | -0.65 | | | | 123 | | |
| 97 | 0 | -3.15 | | 110 | | | | |
| 102 | 0 | -2.56 | | | | 113 | | |
| 105 | 3 | 0.62 | | | | 129 | | |
| 109 | 3 | -0.81 | | 122 | | | | |
| 110 | 0 | -24.95 | 0 | | | | | |
| 114 | 0 | -11.88 | | 66 | | | | |
| 116 | 4 | -0.37 | | | 124 | | | |
| 117 | 0 | -5.97 | | 96 | | | | |
| 119 | 4 | -0.37 | | | 124 | | | |
| 120 | 4 | 0.36 | | 128 | | | | |
| 121 | 4 | -0.17 | | | 125 | | | |
| 126 | 0 | -14.14 | | 55 | | | | |
| 127 | 3 | -0.77 | | | 122 | | | |
| 128 | 4 | 0.42 | | | 128 | | | |
| 129 | 3 | -0.97 | | 121 | | | | |
| 131 | 2 | 1.41 | | | 133 | | | |
| 134 | 4 | 0.22 | | 127 | | | | |
| 138 | 1 | 2.01 | | | 136 | | | |
| 140 | 4 | -0.37 | | 124 | | | | |
| 141 | 2 | 1.41 | | | 133 | | | |
| 142 | 2 | 1.37 | | | 133 | | | |
| 145 | 4 | -0.02 | | | 126 | | | |
| 146 | 2 | -1.36 | | | 119 | | | |
| 149 | 2 | 1.43 | | 133 | | | | |
| 153 | 0 | 3.40 | | | | | | 143 |
| 154 | 4 | 0.42 | | | 128 | | | |
| 179 | 4 | 0.02 | | 126 | | | | |
| 180 | 4 | -0.17 | 125 | | | | | |
| 182 | 3 | -0.67 | | 123 | | | | |
| 191 | 4 | -0.35 | | | | 124 | | |
| 196 | 1 | 1.61 | | 134 | | | | |
| 204 | 4 | 0.02 | | | | | | 126 |
| 210 | 2 | -1.17 | | | 120 | | | |
| 211 | 3 | 0.82 | | | 130 | | | |
| 212 | 4 | 0.02 | 126 | | | | | |
| 217 | 2 | -1.17 | | | 120 | | | |
| 218 | 1 | 2.01 | | 136 | | | | |
| 220 | 4 | 0.02 | | 126 | | | | |

**Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
total P (total Phosphorus) m g/L**



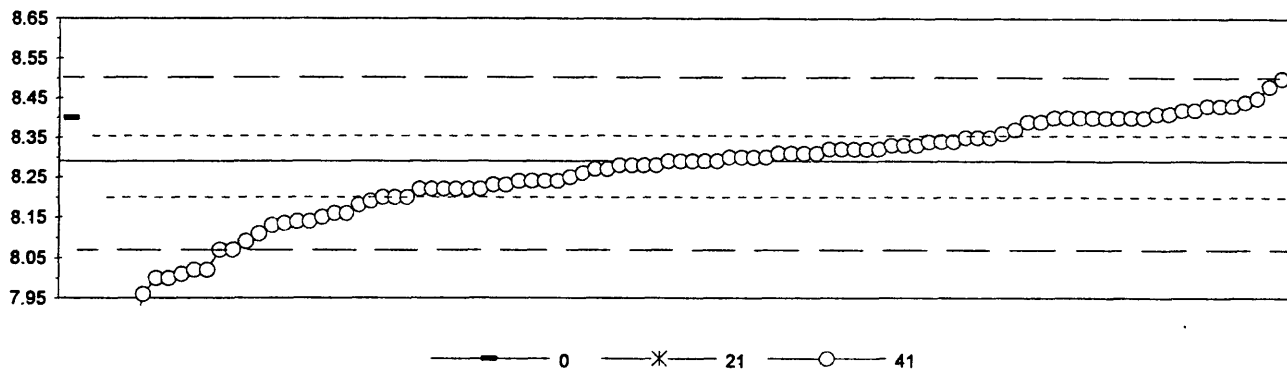
| | 0. Other | 4. ICP | 6. ICP/MS | 7. Ion chromatography | 20. Titrate: colorimetric | 22. Color: phosphomolybdate | |
|-----------|----------|--------|-----------|-----------------------|---------------------------|-----------------------------|-------|
| N = | | 3 | 5 | 2 | 2 | 1 | 61 |
| Minimum = | | 1.37 | 1.40 | 1.41 | 1.29 | 1.12 | 0.08 |
| Maximum = | | 1.54 | 1.70 | 1.68 | 1.34 | 1.12 | 1.62 |
| Median = | | | | | | | 1.39 |
| St Dev = | | | | | | | 0.067 |

MPV = 1.39
F-pseudosigma = 0.067
N = 74
Hu = 1.42
Hi = 1.33

| Lab | Rating | Z-value | 0 | 4 | 6 | 7 | 20 | 22 |
|-----|--------|---------|------|------|---|---|----|------|
| 1 | 4 | 0.22 | | | | | | 1.41 |
| 3 | 3 | 0.60 | | | | | | 1.43 |
| 7 | 4 | 0.30 | | | | | | 1.41 |
| 8 | 0 | -19.61 | | | | | | 0.08 |
| 9 | 4 | 0.15 | | | | | | 1.40 |
| 11 | 0 | -6.75 | | | | | | 0.94 |
| 12 | 4 | 0.30 | | | | | | 1.41 |
| 13 | 4 | -0.15 | | | | | | 1.38 |
| 15 | 4 | -0.45 | | | | | | 1.36 |
| 18 | 4 | -0.45 | | | | | | 1.36 |
| 19 | 4 | 0.15 | | | | | | 1.40 |
| 23 | 4 | -0.15 | | | | | | 1.38 |
| 25 | 0 | 2.70 | 1.57 | | | | | |
| 32 | 0 | 4.35 | | 1.68 | | | | |
| 36 | 2 | -1.50 | | | | | | 1.29 |
| 38 | 4 | -0.27 | | | | | | 1.37 |
| 45 | 4 | 0.45 | | | | | | 1.42 |
| 46 | 4 | 0.00 | | | | | | 1.39 |
| 48 | 4 | 0.15 | | | | | | 1.40 |
| 51 | 0 | -18.45 | | | | | | 0.16 |
| 52 | 4 | 0.00 | | | | | | 1.39 |
| 57 | 0 | -7.34 | | | | | | 0.90 |
| 58 | 3 | 0.90 | | | | | | 1.45 |
| 60 | 2 | 1.50 | | | | | | 1.49 |
| 61 | 1 | -1.95 | | | | | | 1.26 |
| 63 | 4 | 0.15 | | | | | | 1.40 |
| 64 | 3 | 0.60 | | | | | | 1.43 |
| 68 | 4 | 0.15 | 1.40 | | | | | |
| 70 | 0 | -4.65 | | | | | | 1.08 |
| 75 | 4 | 0.45 | | | | | | 1.42 |
| 78 | 0 | -9.14 | | | | | | 0.78 |
| 81 | 0 | 2.85 | | | | | | 1.58 |
| 83 | 4 | 0.15 | 1.40 | | | | | |
| 85 | 2 | -1.35 | | | | | | 1.30 |
| 86 | 4 | 0.45 | 1.42 | | | | | |
| 87 | 2 | 1.35 | | | | | | 1.48 |
| 89 | 4 | -0.15 | | | | | | 1.38 |
| 94 | 3 | -0.90 | | | | | | 1.33 |
| 102 | 4 | 0.00 | | | | | | 1.39 |
| 104 | 0 | -19.64 | | | | | | 0.08 |
| 105 | 4 | -0.15 | | | | | | 1.38 |
| 107 | 4 | -0.30 | | | | | | 1.37 |
| 111 | 0 | 2.55 | | | | | | 1.56 |
| 114 | 4 | -0.45 | | | | | | 1.36 |
| 119 | 4 | -0.45 | | | | | | 1.36 |
| 120 | 4 | 0.00 | | | | | | 1.39 |
| 127 | 4 | 0.00 | | | | | | 1.39 |
| 128 | 2 | -1.35 | | | | | | 1.30 |
| 129 | 3 | 0.87 | | | | | | 1.45 |
| 131 | 0 | 4.65 | 1.70 | | | | | |

| Lab | Rating | Z-value | 0 | 4 | 6 | 7 | 20 | 22 |
|-----|--------|---------|------|------|---|------|------|------|
| 134 | 4 | 0.15 | | | | | | 1.40 |
| 136 | 4 | 0.09 | | | | | | 1.40 |
| 138 | 1 | -1.80 | | | | | | 1.27 |
| 140 | 4 | -0.45 | | | | | | 1.36 |
| 141 | 3 | 0.60 | | | | | | 1.43 |
| 142 | 2 | -1.05 | | | | | | 1.32 |
| 145 | 2 | 1.20 | | | | | | 1.47 |
| 154 | 0 | -2.85 | | | | | | 1.20 |
| 158 | 3 | 0.60 | | | | | | 1.43 |
| 179 | 0 | -4.05 | | | | | 1.12 | |
| 180 | 0 | 2.25 | 1.54 | | | | | |
| 182 | 0 | 3.45 | | | | | | 1.62 |
| 191 | 4 | 0.30 | | 1.41 | | | | |
| 194 | 4 | 0.00 | | | | | | 1.39 |
| 196 | 3 | -0.75 | | | | 1.34 | | |
| 200 | 4 | -0.30 | 1.37 | | | | | |
| 202 | 4 | 0.15 | | | | | | 1.40 |
| 203 | 2 | -1.05 | | | | | | 1.32 |
| 204 | 4 | 0.30 | | | | | | 1.41 |
| 208 | 2 | -1.50 | | | | 1.29 | | |
| 210 | 0 | 3.15 | | | | | | 1.60 |
| 211 | 1 | -1.65 | | | | | | 1.28 |
| 212 | 4 | 0.15 | 1.40 | | | | | |
| 213 | 4 | -0.30 | | | | | | 1.37 |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
pH



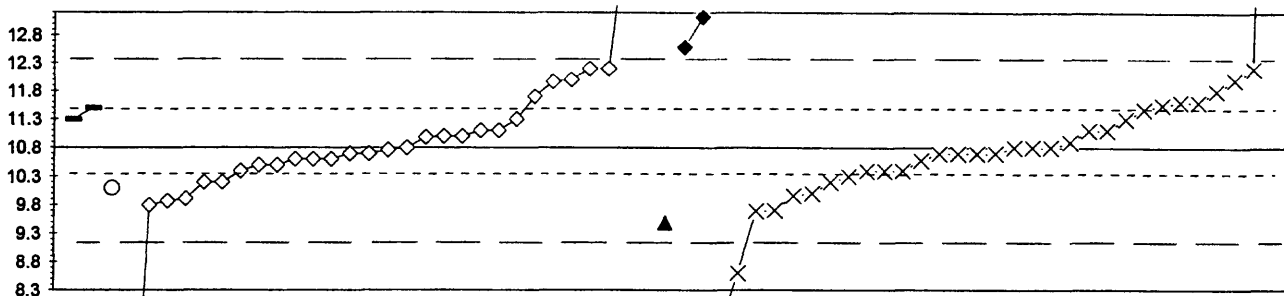
| | | | | | |
|----------------------------|-----------|------|------|-------|--|
| 0. Other | | | | | |
| 21. Titrate: electrometric | | | | | |
| 41. Direct reading | | | | | |
| | N = | 1 | 1 | 96 | |
| | Minimum = | 8.40 | 7.28 | 7.48 | |
| | Maximum = | | | 8.50 | |
| | Median = | | | 8.29 | |
| | St Dev = | | | 0.120 | |

MPV = 8.29
F-pseudostigma = 0.111
N = 98
Hu = 8.35
Hi = 8.20

| Lab | Rating | Z-value | 0 | 21 | 41 |
|-----|--------|---------|---|------|------|
| 1 | 2 | -1.39 | | | 8.14 |
| 3 | 3 | 0.54 | | | 8.35 |
| 5 | 0 | -9.08 | | 7.28 | |
| 7 | 1 | -1.80 | | | 8.09 |
| 8 | 0 | -2.43 | | | 8.02 |
| 10 | 3 | 0.90 | | | 8.39 |
| 11 | 4 | 0.18 | | | 8.31 |
| 12 | 3 | -0.81 | | | 8.20 |
| 13 | 4 | 0.27 | | | 8.32 |
| 15 | 0 | -5.40 | | | 7.69 |
| 16 | 0 | -2.97 | | | 7.96 |
| 18 | 4 | 0.27 | | | 8.32 |
| 19 | 4 | -0.45 | | | 8.24 |
| 23 | 4 | -0.18 | | | 8.27 |
| 24 | 3 | 0.54 | | | 8.35 |
| 25 | 3 | -0.54 | | | 8.23 |
| 26 | 1 | 1.89 | | | 8.50 |
| 29 | 2 | 1.26 | | | 8.43 |
| 30 | 2 | -1.17 | | | 8.16 |
| 32 | 4 | 0.09 | | | 8.30 |
| 33 | 4 | -0.18 | | | 8.27 |
| 36 | 4 | 0.18 | | | 8.31 |
| 38 | 3 | 0.99 | | | 8.40 |
| 39 | 3 | -0.63 | | | 8.22 |
| 40 | 4 | -0.09 | | | 8.28 |
| 42 | 1 | -1.62 | | | 8.11 |
| 43 | 4 | -0.27 | | | 8.26 |
| 45 | 0 | -5.22 | | | 7.71 |
| 46 | 4 | -0.45 | | | 8.24 |
| 48 | 0 | -2.61 | | | 8.00 |
| 50 | 4 | 0.09 | | | 8.30 |
| 51 | 2 | 1.08 | | | 8.41 |
| 52 | 3 | 0.90 | | | 8.39 |
| 54 | 4 | 0.36 | | | 8.33 |
| 55 | 2 | 1.17 | | | 8.42 |
| 56 | 3 | -0.63 | | | 8.22 |
| 57 | 3 | -0.81 | | | 8.20 |
| 58 | 2 | -1.35 | | | 8.14 |
| 60 | 2 | 1.08 | | | 8.41 |
| 61 | 0 | -2.43 | | | 8.02 |
| 62 | 4 | 0.00 | | | 8.29 |
| 63 | 4 | 0.45 | | | 8.34 |
| 64 | 4 | 0.18 | | | 8.31 |
| 68 | 2 | 1.17 | | | 8.42 |
| 69 | 4 | 0.45 | | | 8.34 |
| 70 | 3 | -0.63 | | | 8.22 |
| 75 | 0 | -2.61 | | | 8.00 |
| 76 | 1 | -1.98 | | | 8.07 |
| 78 | 4 | 0.27 | | | 8.32 |
| 79 | 3 | 0.99 | | | 8.40 |

| Lab | Rating | Z-value | 0 | 21 | 41 |
|-----|--------|---------|------|----|------|
| 81 | 3 | -0.81 | | | 8.20 |
| 84 | 0 | -7.28 | | | 7.48 |
| 85 | 2 | 1.26 | | | 8.43 |
| 86 | 4 | 0.00 | | | 8.29 |
| 87 | 4 | -0.45 | | | 8.24 |
| 89 | 4 | -0.09 | | | 8.28 |
| 93 | 2 | 1.26 | | | 8.43 |
| 94 | 2 | 1.44 | | | 8.45 |
| 96 | 1 | 1.71 | | | 8.48 |
| 97 | 4 | 0.36 | | | 8.33 |
| 104 | 2 | -1.26 | | | 8.15 |
| 105 | 4 | -0.09 | | | 8.28 |
| 107 | 4 | 0.00 | | | 8.29 |
| 109 | 4 | 0.36 | | | 8.33 |
| 114 | 4 | 0.27 | | | 8.32 |
| 118 | 4 | 0.45 | | | 8.34 |
| 119 | 3 | 0.99 | | | 8.40 |
| 120 | 3 | 0.99 | | | 8.40 |
| 127 | 3 | 0.63 | | | 8.36 |
| 128 | 2 | 1.35 | | | 8.44 |
| 129 | 4 | 0.00 | | | 8.29 |
| 131 | 3 | -0.63 | | | 8.22 |
| 134 | 3 | 0.72 | | | 8.37 |
| 136 | 3 | -0.90 | | | 8.19 |
| 138 | 3 | -0.63 | | | 8.22 |
| 140 | 2 | -1.44 | | | 8.13 |
| 141 | 1 | -1.98 | | | 8.07 |
| 142 | 4 | -0.36 | | | 8.25 |
| 145 | 3 | 0.99 | | | 8.40 |
| 146 | 2 | -1.17 | | | 8.16 |
| 153 | 4 | 0.00 | | | 8.29 |
| 154 | 3 | 0.99 | | | 8.40 |
| 158 | 4 | 0.09 | | | 8.30 |
| 180 | 3 | 0.99 | | | 8.40 |
| 182 | 3 | -0.63 | | | 8.22 |
| 183 | 4 | 0.18 | | | 8.31 |
| 190 | 4 | -0.45 | | | 8.24 |
| 191 | 3 | -0.54 | | | 8.23 |
| 194 | 3 | 0.99 | | | 8.40 |
| 197 | 4 | 0.27 | | | 8.32 |
| 202 | 4 | 0.09 | | | 8.30 |
| 203 | 4 | -0.09 | | | 8.28 |
| 204 | 0 | -2.52 | | | 8.01 |
| 210 | 3 | 0.54 | | | 8.35 |
| 211 | 0 | -4.41 | | | 7.80 |
| 212 | 3 | 0.99 | 8.40 | | |
| 213 | 2 | -1.35 | | | 8.14 |
| 218 | 3 | -0.99 | | | 8.18 |

Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
SiO2 (Silica) m g/L



— 0 ○ 2 ◇ 4 ▲ 5 ◆ 6 × 22

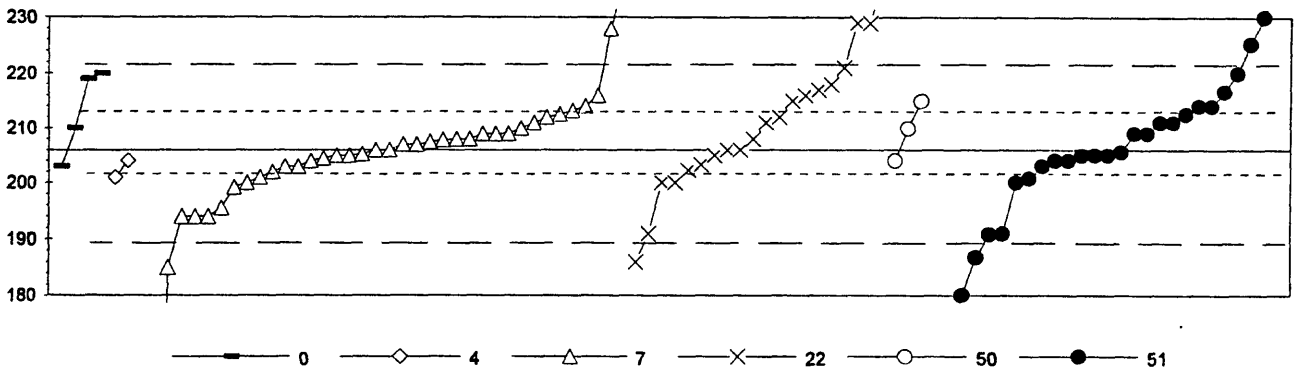
| | |
|-----------------------------|---------------------------|
| 0. Other | 5. DCP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 4. ICP | 22. Color: molybdate blue |
| N = 2 | 1 29 1 2 31 |
| Minimum = 11.3 | 10.1 4.0 9.5 12.6 7.6 |
| Maximum = 11.5 | 16.5 13.1 25.5 |
| Median = 10.7 | 10.7 |
| St Dev = 0.69 | 0.78 |

MPV = 10.8
 F-pseudosigma = 0.82
 N = 66
 Hu = 11.5
 Hi = 10.4

| Lab | Rating | Z-value | 0 | 2 | 4 | 5 | 6 | 22 |
|-----|--------|---------|------|------|------|-----|------|------|
| 1 | 4 | -0.34 | | | 10.5 | | | |
| 3 | 2 | 1.13 | | | 11.7 | | | |
| 4 | 4 | -0.34 | | | 10.5 | | | |
| 5 | 4 | 0.02 | | | 10.8 | | | |
| 7 | 4 | 0.39 | | | 11.1 | | | |
| 8 | 2 | 1.25 | | | | | | 11.8 |
| 9 | 3 | -0.96 | | | | | | 10.0 |
| 10 | 4 | -0.10 | | | | | | 10.7 |
| 11 | 2 | 1.01 | | | | | | 11.6 |
| 13 | 3 | -0.71 | | | | | | 10.2 |
| 15 | 4 | -0.47 | | | 10.4 | | | |
| 18 | 2 | 1.01 | | | | | | 11.6 |
| 24 | 4 | 0.39 | | | 11.1 | | | |
| 25 | 0 | 5.42 | | | 15.2 | | | |
| 32 | 0 | 2.88 | | | | | 13.1 | |
| 33 | 1 | -1.57 | | | | 9.5 | | |
| 36 | 0 | 18.05 | | | | | | 25.5 |
| 38 | 4 | -0.24 | | | | | | 10.6 |
| 40 | 2 | 1.50 | | | 12.0 | | | |
| 42 | 1 | 1.74 | | | 12.2 | | | |
| 43 | 3 | 0.64 | | | 11.3 | | | |
| 45 | 4 | -0.22 | | | 10.6 | | | |
| 50 | 1 | 1.74 | | | | | | 12.2 |
| 51 | 3 | 0.94 | | | | | | 11.6 |
| 52 | 3 | -0.59 | | | | | | 10.3 |
| 55 | 4 | 0.25 | | | 11.0 | | | |
| 57 | 2 | -1.20 | | | 9.8 | | | |
| 61 | 3 | 0.88 | 11.5 | | | | | |
| 63 | 1 | 1.74 | | | 12.2 | | | |
| 64 | 3 | -0.71 | | | 10.2 | | | |
| 68 | 4 | 0.03 | | | | | | 10.8 |
| 70 | 4 | -0.47 | | | | | | 10.4 |
| 78 | 3 | -0.83 | | 10.1 | | | | |
| 83 | 2 | -1.31 | | | | | | 9.7 |
| 85 | 4 | -0.10 | | | | | | 10.7 |
| 87 | 3 | 0.64 | | | | | | 11.3 |
| 89 | 4 | -0.47 | | | | | | 10.4 |
| 97 | 4 | 0.03 | | | | | | 10.8 |
| 102 | 4 | 0.39 | | | | | | 11.1 |
| 104 | 4 | -0.10 | | | | | | 10.7 |
| 105 | 3 | -0.71 | | | 10.2 | | | |
| 107 | 4 | 0.39 | | | | | | 11.1 |
| 109 | 2 | -1.12 | | | 9.9 | | | |
| 116 | 4 | -0.22 | | | 10.6 | | | |
| 118 | 2 | 1.50 | | | | | | 12.0 |
| 119 | 4 | 0.27 | | | 11.0 | | | |
| 121 | 4 | -0.22 | | | 10.6 | | | |
| 127 | 4 | -0.10 | | | 10.7 | | | |
| 128 | 2 | -1.06 | | | 9.9 | | | |
| 129 | 3 | 0.85 | | | | | | 11.5 |

| Lab | Rating | Z-value | 0 | 2 | 4 | 5 | 6 | 22 |
|-----|--------|---------|------|---|------|---|------|------|
| 131 | 4 | 0.27 | | | 11.0 | | | |
| 134 | 4 | -0.02 | | | 10.8 | | | |
| 136 | 4 | -0.09 | | | | | | 10.7 |
| 138 | 4 | 0.03 | | | | | | 10.8 |
| 140 | 0 | -2.67 | | | | | | 8.6 |
| 141 | 4 | -0.47 | | | | | | 10.4 |
| 142 | 2 | 1.46 | | | 12.0 | | | |
| 145 | 4 | -0.10 | | | 10.7 | | | |
| 146 | 0 | 7.02 | | | 16.5 | | | |
| 149 | 4 | 0.15 | | | | | | 10.9 |
| 191 | 0 | 2.23 | | | | | 12.6 | |
| 203 | 2 | -1.01 | | | | | | 10.0 |
| 204 | 2 | -1.34 | | | | | | 9.7 |
| 210 | 0 | -8.36 | | | 4.0 | | | |
| 211 | 0 | -3.90 | | | | | | 7.6 |
| 212 | 3 | 0.64 | 11.3 | | | | | |

Table 14. --Statistical summary of reported data for standard reference sample M-128 (major constituents)--Continued
SO4 (Sulfate) m g/L



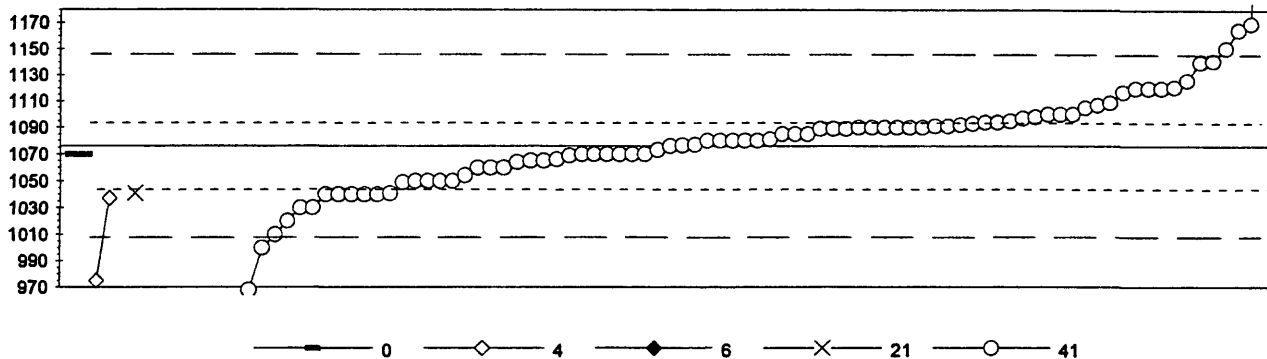
| | | | | | |
|-----------------------|-------------------|--------|--------|-------|--------|
| 0. Other | 22. Colorimetric | | | | |
| 4. ICP | 50. Gravimetric | | | | |
| 7. Ion chromatography | 51. Turbidimetric | | | | |
| N = 4 | N = 2 | N = 38 | N = 20 | N = 3 | N = 27 |
| Minimum = 203 | 201 | 2 | 186 | 204 | 170 |
| Maximum = 220 | 204 | 236 | 236 | 215 | 236 |
| Median = 206 | | 206 | 208 | | 206 |
| St Dev = 7.7 | | 7.7 | 11.3 | | 10.3 |

MPV = 206
 F-pseudostigma = 7.9
 N = 94
 Hu = 213
 HI = 202

| Lab | Rating | Z-value | 0 | 4 | 7 | 22 | 50 | 51 |
|-----|--------|---------|-----|---|-----|-----|-----|----|
| 1 | 3 | 0.51 | | | 210 | | | |
| 3 | 0 | -2.55 | | | | 186 | | |
| 5 | 3 | -0.51 | | | 202 | | | |
| 7 | 0 | -25.95 | | | 2 | | | |
| 8 | 4 | -0.38 | | | 203 | | | |
| 9 | 0 | 2.93 | | | | 229 | | |
| 10 | 4 | -0.05 | | | | | 206 | |
| 11 | 4 | -0.13 | | | | | 205 | |
| 12 | 2 | 1.40 | | | | 217 | | |
| 13 | 1 | -1.91 | | | | 191 | | |
| 15 | 1 | -1.53 | | | 194 | | | |
| 16 | 0 | 2.46 | | | | | 225 | |
| 18 | 3 | 0.64 | | | | 211 | | |
| 19 | 4 | -0.33 | | | | 203 | | |
| 24 | 4 | -0.13 | | | | 205 | | |
| 25 | 0 | -21.52 | | | 37 | | | |
| 26 | 4 | -0.25 | | | 204 | | | |
| 29 | 4 | -0.13 | | | 205 | | | |
| 30 | 3 | -0.87 | | | 199 | | | |
| 32 | 1 | -1.53 | | | 194 | | | |
| 33 | 2 | -1.34 | | | 196 | | | |
| 36 | 3 | -0.76 | | | | | 200 | |
| 39 | 1 | 1.78 | 220 | | | | | |
| 40 | 3 | -0.64 | | | 201 | | | |
| 42 | 4 | 0.19 | | | 208 | | | |
| 43 | 4 | -0.25 | | | | 204 | | |
| 45 | 3 | 0.64 | | | | | 211 | |
| 46 | 1 | 1.91 | | | 221 | | | |
| 48 | 2 | 1.02 | | | | | 214 | |
| 50 | 4 | 0.00 | | | | 206 | | |
| 51 | 3 | 0.84 | | | 213 | | | |
| 52 | 4 | -0.13 | | | | | 205 | |
| 54 | 2 | 1.02 | | | | | 214 | |
| 55 | 2 | 1.27 | | | 216 | | | |
| 56 | 3 | -0.66 | | | | | 201 | |
| 57 | 0 | -3.31 | | | | | 180 | |
| 58 | 2 | 1.15 | | | | 215 | | |
| 61 | 1 | 1.78 | | | | | 220 | |
| 63 | 0 | -2.44 | | | | | 187 | |
| 64 | 3 | 0.64 | | | 211 | | | |
| 69 | 4 | -0.47 | | | | 202 | | |
| 70 | 1 | -1.91 | | | | | 191 | |
| 75 | 2 | 1.27 | | | 216 | | | |
| 76 | 4 | -0.13 | | | 205 | | | |
| 78 | 0 | -4.58 | | | | | 170 | |
| 83 | 4 | -0.14 | | | | | 205 | |
| 85 | 3 | -0.76 | | | 200 | | | |
| 86 | 0 | 2.80 | | | 228 | | | |
| 87 | 4 | 0.38 | | | | | 209 | |
| 89 | 4 | -0.25 | | | | | 204 | |
| 93 | 4 | -0.19 | | | 204 | | | |

| Lab | Rating | Z-value | 0 | 4 | 7 | 22 | 50 | 51 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 93 | 4 | -0.19 | | | 204 | | | |
| 94 | 4 | 0.00 | | | | 206 | | |
| 96 | 3 | 0.83 | | | | | | 213 |
| 97 | 1 | 1.53 | | | | 218 | | |
| 102 | 3 | -0.76 | | | | 200 | | |
| 105 | 3 | 0.92 | | | 213 | | | |
| 109 | 3 | 0.51 | | | | | 210 | |
| 114 | 4 | 0.38 | | | | | | 209 |
| 116 | 4 | 0.13 | | | 207 | | | |
| 119 | 4 | -0.25 | | | | | | 204 |
| 120 | 3 | -0.76 | | | | 200 | | |
| 127 | 4 | 0.38 | | | 209 | | | |
| 128 | 3 | -0.64 | | 201 | | | | |
| 129 | 4 | 0.00 | | | 206 | | | |
| 131 | 4 | -0.25 | | 204 | | | | |
| 134 | 4 | 0.13 | | | 207 | | | |
| 138 | 2 | 1.02 | | | 214 | | | |
| 140 | 0 | 3.82 | | | | | | 236 |
| 141 | 3 | 0.64 | | | | | | 211 |
| 142 | 2 | 1.36 | | | | | | 217 |
| 145 | 4 | -0.10 | | | 205 | | | |
| 149 | 4 | -0.38 | | | 203 | | | |
| 153 | 4 | 0.38 | | | 209 | | | |
| 154 | 3 | 0.76 | | | | 212 | | |
| 158 | 4 | 0.25 | | | | 208 | | |
| 180 | 0 | 3.82 | | | | 236 | | |
| 182 | 0 | -4.58 | | | | | | 170 |
| 183 | 1 | -1.92 | | | | | | 191 |
| 190 | 0 | -2.67 | | | 185 | | | |
| 191 | 4 | 0.25 | | | 208 | | | |
| 193 | 4 | 0.00 | | | 206 | | | |
| 194 | 2 | 1.15 | | | | 215 | | |
| 196 | 3 | 0.76 | | | 212 | | | |
| 197 | 4 | 0.23 | | | 208 | | | |
| 203 | 0 | 3.05 | | | | | | 230 |
| 204 | 0 | 2.93 | | | | 229 | | |
| 208 | 4 | 0.38 | | | 209 | | | |
| 210 | 1 | -1.53 | | | 194 | | | |
| 211 | 4 | -0.38 | | | | | | 203 |
| 212 | 4 | -0.38 | 203 | | | | | |
| 217 | 4 | 0.25 | | | 208 | | | |
| 218 | 0 | 3.81 | | | 236 | | | |
| 219 | 1 | 1.65 | 219 | | | | | |
| 220 | 3 | 0.51 | 210 | | | | | |

**Table 14. --Statistical summary of reported data for standard reference water sample M-128 (major constituents)--Continued
Sp Cond (Specific Conductance) μ S/cm**



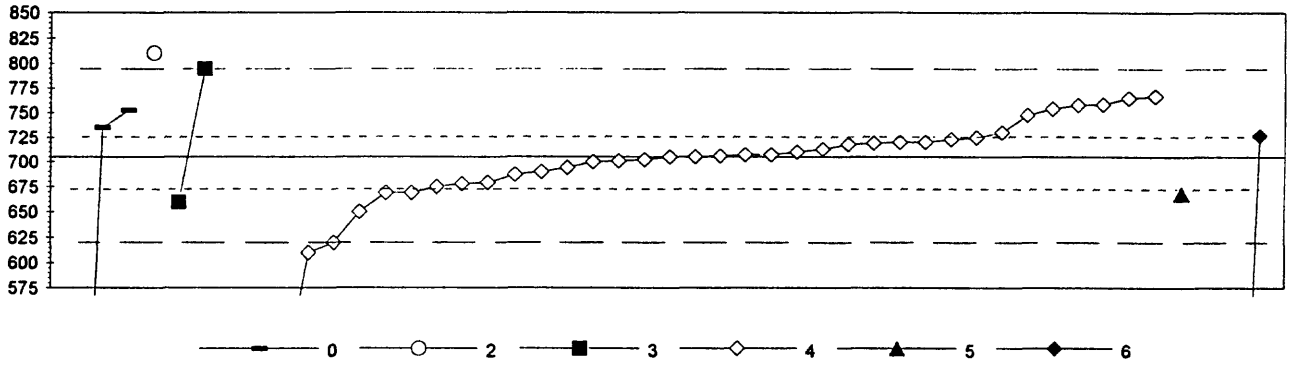
| | | | | | | |
|-----------|----------------------------|------|------|-----|------|------|
| 0. Other | 21. Titrate: electrometric | | | | | |
| 4. ICP | 41. Direct reading | | | | | |
| 6. ICP/MS | N = | 2 | 2 | 1 | 1 | 89 |
| | Minimum = | 1070 | 975 | 752 | 1041 | 105 |
| | Maximum = | 1070 | 1037 | | | 1382 |
| | Median = | | | | | 1080 |
| | St Dev = | | | | | 32.3 |

MPV = 1076
F-pseudostigma = 35.2
N = 95
Hu = 1093
HI = 1045

| Lab | Rating | Z-value | 0 | 4 | 6 | 21 | 41 |
|-----|--------|---------|------|---|---|----|------|
| 1 | 4 | 0.26 | | | | | 1085 |
| 3 | 3 | 0.68 | | | | | 1100 |
| 5 | 1 | -1.59 | | | | | 1020 |
| 7 | 4 | -0.45 | | | | | 1060 |
| 8 | 4 | -0.09 | | | | | 1073 |
| 10 | 4 | 0.37 | | | | | 1089 |
| 11 | 3 | 0.68 | | | | | 1100 |
| 12 | 4 | 0.11 | | | | | 1080 |
| 13 | 2 | -1.02 | | | | | 1040 |
| 15 | 2 | 1.25 | | | | | 1120 |
| 16 | 3 | -1.00 | | | | | 1041 |
| 18 | 2 | -1.11 | 1037 | | | | |
| 19 | 4 | 0.11 | | | | | 1080 |
| 23 | 0 | -27.43 | | | | | 110 |
| 24 | 4 | 0.26 | | | | | 1085 |
| 25 | 3 | 0.51 | | | | | 1094 |
| 26 | 4 | 0.03 | | | | | 1077 |
| 29 | 4 | 0.43 | | | | | 1091 |
| 32 | 2 | -1.31 | | | | | 1030 |
| 33 | 2 | -1.31 | | | | | 1030 |
| 36 | 0 | 2.53 | | | | | 1165 |
| 38 | 3 | 0.83 | | | | | 1105 |
| 39 | 4 | -0.17 | 1070 | | | | |
| 40 | 4 | 0.37 | | | | | 1089 |
| 42 | 4 | -0.20 | | | | | 1069 |
| 43 | 4 | 0.40 | | | | | 1090 |
| 45 | 4 | -0.17 | | | | | 1070 |
| 46 | 4 | 0.00 | | | | | 1076 |
| 48 | 3 | 0.51 | | | | | 1094 |
| 50 | 4 | 0.40 | | | | | 1090 |
| 51 | 3 | -0.77 | | | | | 1049 |
| 52 | 1 | -1.87 | | | | | 1010 |
| 54 | 3 | -0.62 | | | | | 1054 |
| 56 | 4 | -0.34 | | | | | 1064 |
| 57 | 0 | -3.07 | | | | | 968 |
| 58 | 0 | -4.63 | | | | | 913 |
| 60 | 4 | 0.26 | | | | | 1085 |
| 61 | 2 | 1.25 | | | | | 1120 |
| 62 | 4 | -0.28 | | | | | 1066 |
| 63 | 4 | 0.37 | | | | | 1089 |
| 64 | 2 | 1.25 | | | | | 1120 |
| 68 | 1 | 1.82 | | | | | 1140 |
| 69 | 3 | -0.74 | | | | | 1050 |
| 70 | 0 | 2.67 | | | | | 1170 |
| 75 | 4 | 0.11 | | | | | 1080 |
| 76 | 4 | -0.17 | | | | | 1070 |
| 78 | 4 | 0.11 | | | | | 1080 |
| 79 | 3 | -0.74 | | | | | 1050 |
| 81 | 4 | -0.17 | | | | | 1070 |
| 84 | 3 | 0.94 | | | | | 1109 |

| Lab | Rating | Z-value | 0 | 4 | 6 | 21 | 41 |
|-----|--------|---------|------|---|-----|------|------|
| 85 | 4 | -0.17 | | | | | 1070 |
| 86 | 3 | 0.54 | | | | | 1095 |
| 87 | 0 | -6.82 | | | | | 836 |
| 89 | 3 | -0.74 | | | | | 1050 |
| 93 | 0 | -4.17 | | | | | 929 |
| 94 | 2 | 1.42 | | | | | 1126 |
| 96 | 4 | 0.01 | | | | | 1076 |
| 97 | 4 | 0.11 | | | | | 1080 |
| 102 | 3 | 0.68 | | | | | 1100 |
| 104 | 3 | 0.88 | | | | | 1107 |
| 105 | 3 | -0.99 | | | | 1041 | |
| 107 | 4 | 0.40 | | | | | 1090 |
| 109 | 4 | -0.17 | | | | | 1070 |
| 114 | 4 | 0.40 | | | | | 1090 |
| 117 | 4 | 0.14 | | | | | 1081 |
| 118 | 3 | -0.74 | | | | | 1050 |
| 119 | 4 | 0.43 | | | | | 1091 |
| 127 | 4 | -0.45 | | | | | 1060 |
| 128 | 4 | -0.17 | | | | | 1070 |
| 129 | 1 | 1.85 | | | | | 1141 |
| 131 | 0 | -2.87 | 975 | | | | |
| 134 | 4 | 0.45 | | | | | 1092 |
| 136 | 4 | -0.31 | | | | | 1065 |
| 140 | 4 | -0.45 | | | | | 1060 |
| 141 | 2 | 1.28 | | | | | 1121 |
| 142 | 4 | 0.40 | | | | | 1090 |
| 145 | 4 | -0.31 | | | | | 1065 |
| 146 | 2 | -1.02 | | | | | 1040 |
| 153 | 2 | -1.02 | | | | | 1040 |
| 154 | 4 | 0.48 | | | | | 1093 |
| 158 | 3 | 0.62 | | | | | 1098 |
| 180 | 2 | 1.16 | | | | | 1117 |
| 182 | 0 | -8.46 | | | | | 778 |
| 183 | 0 | -12.95 | | | | | 620 |
| 190 | 3 | 0.60 | | | | | 1097 |
| 193 | 0 | -27.58 | | | | | 105 |
| 194 | 2 | -1.02 | | | | | 1040 |
| 196 | 0 | -9.21 | | | 752 | | |
| 197 | 0 | 8.69 | | | | | 1382 |
| 202 | 0 | 2.13 | | | | | 1151 |
| 203 | 0 | -4.43 | | | | | 920 |
| 204 | 2 | -1.02 | | | | | 1040 |
| 210 | 0 | -2.16 | | | | | 1000 |
| 211 | 4 | 0.40 | | | | | 1090 |
| 212 | 4 | -0.17 | 1070 | | | | |

Table 14. --Statistical summary of reported data for standard reference water sample M-128 (major constituents)--Continued
Sr (Strontium) μ g/L

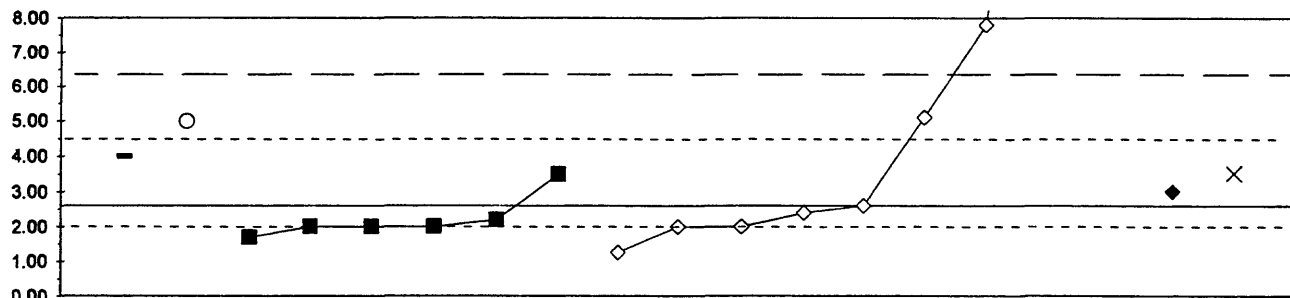


| | |
|-----------------------------|------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| N = 3 | 1 2 37 1 3 |
| Minimum = 75 | 810 660 69 668 1 |
| Maximum = 753 | 795 767 727 |
| Median = 707 | |
| St Dev = 36.7 | |

MPV = 705
F-pseudostigma = 42.3
N = 47
Hu = 726
Hi = 669

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | -0.13 | | | | 700 | | |
| 3 | 4 | -0.43 | | | | 687 | | |
| 4 | 4 | 0.12 | | | | 710 | | |
| 5 | 4 | -0.10 | | | | 701 | | |
| 7 | 4 | 0.47 | | | | 725 | | |
| 8 | 2 | 1.42 | | | | 765 | | |
| 11 | 4 | 0.33 | | | | 719 | | |
| 15 | 4 | 0.43 | | | | 723 | | |
| 16 | 3 | -0.71 | | | | 675 | | |
| 18 | 4 | 0.05 | | | | 707 | | |
| 24 | 4 | 0.19 | | | | 713 | | |
| 25 | 2 | 1.16 | | | | 754 | | |
| 32 | 3 | 0.52 | | | | | | 727 |
| 33 | 3 | -0.87 | | | | | 668 | |
| 39 | 3 | 0.71 | 735 | | | | | |
| 40 | 3 | -0.85 | | | | 669 | | |
| 42 | 2 | 1.25 | | | | 758 | | |
| 46 | 3 | -0.85 | | | | 669 | | |
| 52 | 4 | 0.05 | | | | 707 | | |
| 55 | 0 | -15.05 | | | | 69 | | |
| 63 | 4 | 0.36 | | | | 720 | | |
| 68 | 3 | 0.59 | | | | 730 | | |
| 70 | 4 | 0.36 | | | | 720 | | |
| 81 | 2 | 1.02 | | | | 748 | | |
| 85 | 4 | -0.07 | | | | 702 | | |
| 94 | 4 | -0.36 | | | | 690 | | |
| 97 | 2 | -1.07 | | | 660 | | | |
| 102 | 2 | -1.30 | | | | 650 | | |
| 105 | 4 | 0.02 | | | | 706 | | |
| 116 | 4 | 0.00 | | | | 705 | | |
| 121 | 2 | 1.47 | | | | 767 | | |
| 127 | 4 | 0.31 | | | | 718 | | |
| 131 | 4 | 0.00 | | | | 705 | | |
| 134 | 3 | -0.62 | | | | 679 | | |
| 138 | 4 | -0.26 | | | | 694 | | |
| 141 | 0 | 2.13 | | | 795 | | | |
| 142 | 2 | 1.27 | | | | 759 | | |
| 145 | 3 | -0.65 | | | | 678 | | |
| 146 | 1 | -2.01 | | | | 620 | | |
| 154 | 0 | -14.97 | | | | 72 | | |
| 182 | 0 | -14.91 | 75 | | | | | |
| 191 | 0 | -16.67 | | | | | | 1 |
| 196 | 0 | -16.62 | | | | | | 3 |
| 210 | 0 | -5.56 | | | | 470 | | |
| 211 | 0 | -2.25 | | | | 610 | | |
| 212 | 2 | 1.14 | 753 | | | | | |
| 218 | 0 | 2.49 | | 810 | | | | |

**Table 14. —Statistical summary of reported data for standard reference sample M-128 (major constituents)—Continued
V (Vanadium) μ g/L**



—■— 0 —○— 2 —■— 3 —◇— 4 —◆— 6 —×— 22

| | |
|-----------------------------|------------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | 22. Color: gallic acid |
| N = 1 | 1 6 9 1 1 |
| Minimum = 4.0 | 5.0 1.7 1.3 3.0 3.5 |
| Maximum = | 3.5 80.0 |
| Median = | 2.4 |
| St Dev = | 2.32 |

MPV = 2.6
F-pseudosigma = 1.85
N = 19
Hu = 4.50
HI = 2.00

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 | 22 |
|-----|--------|---------|-----|---|-----|--------|-----|-----|
| 1 | 4 | 0.50 | | | | | | 3.5 |
| 3 | NR | | | | | < 10 | | |
| 5 | 0 | 2.81 | | | | 7.8 | | |
| 7 | NR | | | | | < 22 | | |
| 8 | NR | | | | | < 5 | | |
| 15 | 4 | -0.49 | | | 1.7 | | | |
| 16 | NR | | | | | < 10 | | |
| 18 | NR | | | | | < 5 | | |
| 25 | NR | | | | | < 4 | | |
| 32 | 4 | 0.22 | | | | | 3.0 | |
| 39 | 3 | 0.76 | 4.0 | | | | | |
| 48 | 0 | 41.77 | | | | 80.0 | | |
| 51 | 4 | -0.32 | | | 2.0 | | | |
| 52 | 4 | 0.49 | | | 3.5 | | | |
| 57 | NR | | | | | < 100 | | |
| 61 | 4 | 0.00 | | | | 2.8 | | |
| 63 | NR | | | | | < 0.01 | | |
| 68 | NR | | | | | < 3.0 | | |
| 70 | NR | | | | | < 50 | | |
| 78 | 4 | -0.32 | | | 2.0 | | | |
| 85 | NR | | | | | < 20 | | |
| 86 | 3 | -0.72 | | | | 1.3 | | |
| 94 | NR | | | | | < 5 | | |
| 102 | NR | | | | | < 1 | | |
| 105 | 4 | -0.32 | | | | 2.0 | | |
| 127 | NR | | | | < 2 | | | |
| 128 | NR | | | | | < 5 | | |
| 134 | 4 | -0.22 | | | 2.2 | | | |
| 138 | NR | | | | | < 3 | | |
| 141 | NR | | | | | < 10 | | |
| 142 | 4 | -0.32 | | | 2.0 | | | |
| 145 | NR | | | | | < 18.0 | | |
| 146 | 4 | -0.11 | | | | 2.4 | | |
| 154 | 4 | -0.32 | | | | 2.0 | | |
| 180 | 2 | 1.35 | | | | 5.1 | | |
| 182 | 2 | 1.30 | 5.0 | | | | | |
| 210 | NR | | | | | < 50 | | |
| 211 | 0 | 9.39 | | | | 20.0 | | |
| 217 | NR | | | | | < 10 | | |

Table 15. –Statistical summary of reported data for standard reference sample N-41(nutrients)

Definition of analytical methods, abbreviations, and symbols

Analytical methods

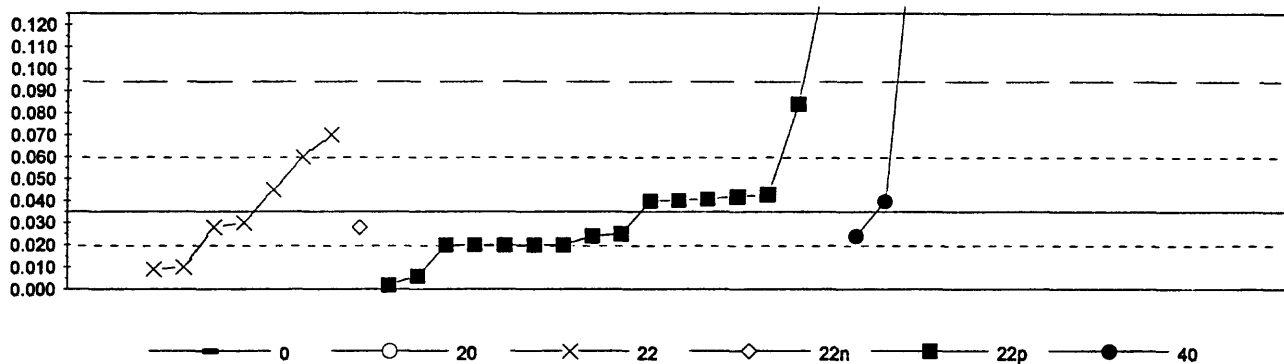
| | | |
|---------------------------|---|--|
| 0. Other/Not reported | | |
| 4. ICP | = | inductively coupled plasma |
| 7. IC | = | ion chromatography |
| 20. Titrate: colorimetric | | |
| 22. Color: | = | colorimetric [color reagent specified] |
| 40. Ion electrode | = | specific ion electrode |

Abbreviations and symbols

| | | |
|--|----------------|-------------------------------------|
| | N = | number of samples |
| | St dev = | traditional standard deviation |
| | MPV = | 95% confidence most probable value |
| | F-pseudsigma = | nonparametric statistic deviation |
| | Hu = | upper hinge value |
| | Hi = | lower hinge value |
| | mg/L = | milligrams per liter |
| | Lab = | laboratory code number |
| | NR = | not rated, less than value reported |
| | < = | less than |

| <u>Constituent</u> | | <u>page</u> |
|--------------------|----------------------------------|-------------|
| NH3 as N | Ammonia as nitrogen | 87 |
| NH3+Org N as N | Ammonia plus organic nitrogen | 89 |
| NO3+NO2 as N | Nitrate plus nitrite as nitrogen | 91 |
| total P as P | total Phosphorus as phosphorus | 93 |
| PO4 as P | Orthophosphate as phosphorus | 95 |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (preserved nutrients)--Continued
NH3 as N (Ammonia) m g/L**

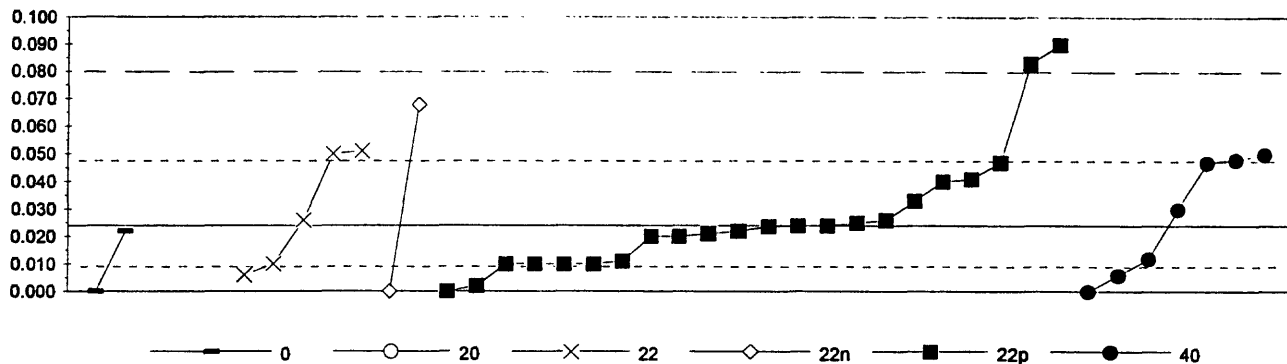


| | | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|-------|-------|
| 0. Other | 22n. Color: Nesslerization | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | 0 | 2 | 7 | 1 | 16 | 4 |
| Minimum = | 0.300 | 0.009 | 0.028 | 0.002 | 0.024 | 0.024 |
| Maximum = | 0.570 | 0.070 | | 0.149 | 4.300 | |
| Median = | | 0.030 | | 0.024 | | |
| St Dev = | | 0.024 | | 0.020 | | |

MPV = 0.035
 F-pseudosigma = 0.030
 N = 30
 Hu = 0.060
 HI = 0.020

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|-------|----|--------|-----|-------|-------|
| 1 | 4 | 0.18 | | | | | 0.040 | |
| 7 | NR | | | | < 0.05 | | | |
| 11 | 3 | 0.84 | | | 0.060 | | | |
| 13 | 3 | -0.51 | | | | | 0.020 | |
| 15 | 4 | 0.34 | | | 0.045 | | | |
| 33 | 4 | -0.17 | | | 0.030 | | | |
| 36 | 0 | 4.72 | | | | | | 0.175 |
| 48 | 3 | -0.51 | | | | | 0.020 | |
| 52 | 4 | -0.24 | | | 0.028 | | | |
| 60 | 0 | 18.04 | 0.570 | | | | | |
| 63 | 0 | 8.94 | 0.300 | | | | | |
| 68 | 4 | 0.17 | | | | | 0.040 | |
| 75 | 4 | 0.20 | | | | | 0.041 | |
| 78 | 4 | -0.37 | | | | | | 0.024 |
| 88 | 4 | 0.24 | | | | | 0.042 | |
| 89 | 4 | -0.34 | | | | | 0.025 | |
| 90 | 3 | -0.51 | | | | | 0.020 | |
| 93 | 4 | 0.17 | | | | | 0.040 | |
| 97 | NR | | | | < 0.03 | | | |
| 105 | 2 | 1.18 | | | 0.070 | | | |
| 114 | NR | | | | | | | < 0.1 |
| 118 | 3 | -0.51 | | | | | 0.020 | |
| 119 | NR | | | | | | | < 0.1 |
| 120 | 1 | 1.65 | | | | | 0.084 | |
| 121 | 4 | -0.37 | | | | | 0.024 | |
| 122 | 0 | 3.84 | | | | | 0.149 | |
| 129 | 4 | -0.24 | | | 0.028 | | | |
| 133 | 0 | 143.84 | | | | | | 4.300 |
| 134 | 4 | 0.27 | | | | | 0.043 | |
| 140 | 3 | -0.88 | | | 0.009 | | | |
| 141 | NR | | | | | | | < 0.1 |
| 145 | 3 | -0.51 | | | | | 0.020 | |
| 154 | 3 | -0.98 | | | | | 0.006 | |
| 179 | NR | < 1 | | | | | | |
| 214 | 2 | -1.11 | | | | | 0.002 | |
| 220 | 3 | -0.84 | | | 0.010 | | | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (nonpreserved nutrients)--Continued
NH3 as N (Ammonia) m g/L**



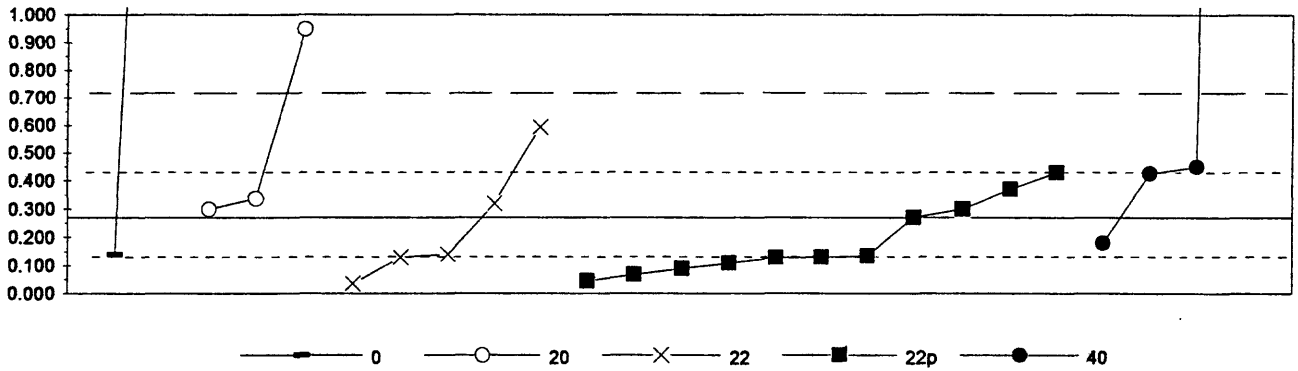
| | | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|-------|-------|
| 0. Other | 22n. Color: Nesslerization | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | 2 | 3 | 5 | 2 | 22 | 7 |
| Minimum = | 0.000 | 0.200 | 0.006 | 0.000 | 0.000 | 0.000 |
| Maximum = | 0.022 | 0.490 | 0.051 | 0.068 | 0.090 | 0.050 |
| Median = | | | | | 0.023 | 0.030 |
| St Dev = | | | | | 0.023 | 0.021 |

MPV = 0.024
 F-pseudosigma = 0.027
 N = 41
 Hu = 0.047
 HI = 0.010

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|--------|----|---------|---------|-------|--------|
| 3 | NR | | | | < 0.001 | | | |
| 5 | 3 | -0.51 | | | | | 0.010 | |
| 9 | 3 | 0.84 | | | | | 0.047 | |
| 10 | 4 | 0.22 | | | | | | 0.030 |
| 15 | 3 | 0.98 | | | 0.051 | | | |
| 16 | NR | | < 0.1 | | | | | |
| 18 | 3 | -0.51 | | | | | 0.010 | |
| 19 | NR | | | | | < 0.05 | | |
| 23 | 4 | -0.47 | | | | 0.011 | | |
| 25 | 3 | 0.88 | | | | | 0.048 | |
| 26 | NR | | < 0.05 | | | | | |
| 32 | NR | | < 0.02 | | | | | |
| 33 | 4 | 0.07 | | | 0.026 | | | |
| 36 | 3 | 0.84 | | | | | | 0.047 |
| 38 | 4 | 0.00 | | | | | 0.024 | |
| 46 | NR | | | | | < 0.005 | | |
| 51 | NR | -0.88 | | | | | | 0.000 |
| 52 | NR | | | | < 0.01 | | | |
| 59 | NR | | | | | < 0.04 | | |
| 60 | 0 | 16.99 | 0.490 | | | | | |
| 63 | 0 | 6.42 | 0.200 | | | | | |
| 68 | 4 | -0.44 | | | | | | 0.012 |
| 70 | NR | | | | | < 0.1 | | |
| 72 | NR | | | | < 0.03 | | | |
| 78 | 3 | -0.66 | | | | | | 0.006 |
| 80 | 3 | 0.95 | | | 0.050 | | | |
| 81 | NR | | | | < 0.05 | | | |
| 83 | NR | -0.88 | | | | | 0.000 | |
| 85 | NR | | | | | < 0.005 | | |
| 87 | NR | | | | | < 0.1 | | |
| 88 | 0 | 2.15 | | | | | 0.083 | |
| 89 | 4 | 0.00 | | | | | 0.024 | |
| 91 | NR | | | | | < 0.03 | | |
| 94 | 4 | 0.07 | | | | | 0.026 | |
| 96 | 4 | -0.15 | | | | | 0.020 | |
| 97 | NR | | | | < 0 | | | |
| 102 | NR | | | | | < 0.02 | | |
| 104 | NR | | | | | < 0.004 | | |
| 107 | 4 | 0.04 | | | | | 0.025 | |
| 111 | 3 | 0.58 | | | | | 0.040 | |
| 114 | NR | | | | | | | < 0.10 |
| 118 | 3 | -0.51 | | | | | 0.010 | |
| 119 | NR | | | | | | | < 0.1 |
| 122 | NR | | | | | < 0.01 | | |
| 127 | NR | | | | | < 0.03 | | |
| 129 | NR | -0.88 | | | | 0.000 | | |
| 134 | 4 | 0.33 | | | | | 0.033 | |
| 136 | 4 | -0.01 | | | | | 0.024 | |
| 138 | 4 | -0.11 | | | | | 0.021 | |
| 142 | 3 | -0.66 | | | 0.006 | | | |

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|--------|----|-------|-------|-------|--------|
| 145 | 4 | -0.15 | | | | | 0.020 | |
| 149 | NR | | | | | | | < 0.1 |
| 179 | NR | | < 1 | | | | | |
| 180 | 3 | 0.62 | | | | | 0.041 | |
| 182 | 1 | 1.60 | | | | 0.068 | | |
| 183 | 3 | 0.95 | | | | | | 0.050 |
| 198 | 4 | -0.07 | 0.022 | | | | | |
| 200 | NR | | < 0.02 | | | | | |
| 202 | NR | | | | | | | < 0.05 |
| 203 | 3 | -0.51 | | | | | 0.010 | |
| 204 | 4 | -0.07 | | | | | 0.022 | |
| 213 | 0 | 13.71 | 0.400 | | | | | |
| 214 | 3 | -0.80 | | | | | 0.002 | |
| 215 | 0 | 2.41 | | | | | 0.090 | |
| 220 | 3 | -0.51 | | | 0.010 | | | |
| 221 | NR | -0.88 | 0.000 | | | | | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (preserved nutrients)--Continued
NH3 + Org. N as N (Ammonia + Organic N) m g/L**

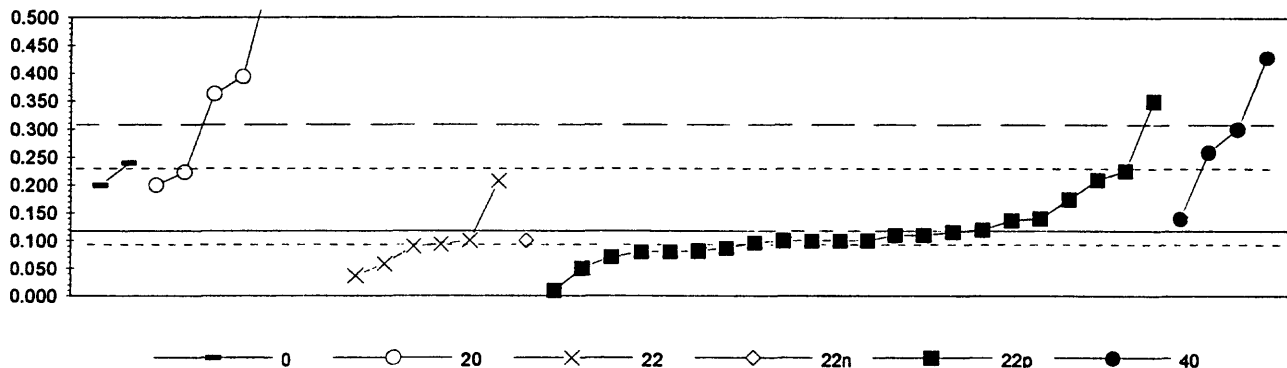


| | | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|-------|--------|
| 0. Other | 22p. Color: phenate | | | | | |
| 20. Titrate: colorimetric | 40. Selective ion electrode | | | | | |
| 22. Colorimetric | N = | 2 | 3 | 5 | 11 | 4 |
| | Minimum = | 0.140 | 0.300 | 0.035 | 0.044 | 0.180 |
| | Maximum = | 3.870 | 0.950 | 0.594 | 0.430 | 12.200 |
| | Median = | 0.130 | | | | |
| | St Dev = | 0.131 | | | | |

MPV = 0.270
 F-pseudostigma = 0.220
 N = 25
 Hu = 0.427
 HI = 0.130

| Lab | Rating | Z-value | 0 | 20 | 22 | 22p | 40 |
|-----|--------|---------|-------|----|--------|-------|--------|
| 1 | 3 | -0.92 | | | | 0.067 | |
| 11 | 3 | -0.64 | | | 0.130 | | |
| 13 | 3 | -0.64 | | | | 0.130 | |
| 15 | NR | | | | < 0.5 | | |
| 21 | 3 | -0.62 | | | | 0.134 | |
| 36 | 4 | 0.31 | 0.338 | | | | |
| 45 | 3 | 0.71 | | | | | 0.427 |
| 48 | 4 | 0.14 | | | | 0.300 | |
| 52 | NR | | | | < 0.01 | | |
| 56 | 4 | 0.45 | | | | 0.370 | |
| 60 | 0 | 3.09 | 0.950 | | | | |
| 63 | 4 | 0.14 | 0.300 | | | | |
| 68 | 3 | -0.59 | 0.140 | | | | |
| 78 | 3 | 0.82 | | | | | 0.450 |
| 89 | 3 | -0.73 | | | | 0.109 | |
| 90 | 3 | 0.73 | | | | 0.430 | |
| 97 | 3 | -0.59 | | | 0.140 | | |
| 105 | 4 | 0.23 | | | 0.320 | | |
| 118 | 4 | 0.00 | | | | 0.270 | |
| 119 | 4 | -0.41 | | | | | 0.180 |
| 120 | 3 | -0.64 | | | | 0.129 | |
| 133 | 0 | 54.19 | | | | | 12.200 |
| 134 | NR | | | | | | < 0.2 |
| 140 | 2 | 1.47 | | | 0.594 | | |
| 141 | NR | | | | | | < 0.1 |
| 145 | 3 | -0.82 | | | | 0.090 | |
| 154 | 2 | -1.03 | | | | 0.044 | |
| 179 | 0 | 16.35 | 3.870 | | | | |
| 214 | 2 | -1.07 | | | 0.035 | | |

Table 15. --Statistical summary of reported data for standard reference sample N-40 (nonpreserved nutrients)--Continued
NH3 + Org. N as N (Ammonia + Organic N) m g/L

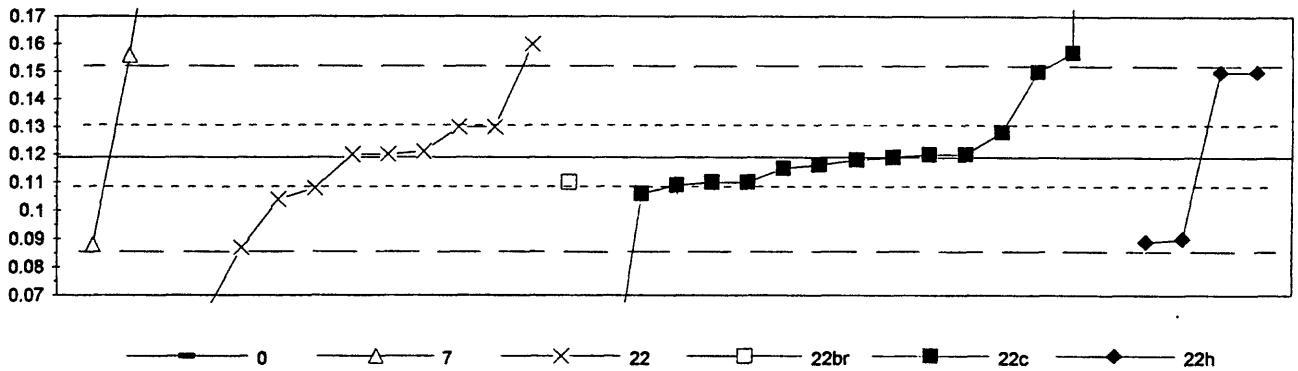


| | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|-------|
| 0. Other | 22n. Color: Nesslerization | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | |
| N = 2 | 7 | 6 | 1 | 22 | 4 |
| Minimum = 0.200 | 0.200 | 0.037 | 0.100 | 0.010 | 0.140 |
| Maximum = 0.240 | 1.000 | 0.208 | 0.100 | 0.350 | 0.430 |
| Median = | | | | 0.100 | |
| St Dev = | | | | 0.070 | |

MPV = 0.118
 F-pseudosigma = 0.098
 N = 42
 Hu = 0.226
 HI = 0.094

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|-------|-------|--------|-------|--------|-------|
| 3 | 0 | 2.82 | | 0.394 | | | | |
| 9 | 2 | -1.10 | | | | | 0.010 | |
| 10 | 4 | -0.39 | | | | | 0.080 | |
| 15 | NR | | | | < 0.5 | | | |
| 16 | 2 | 1.08 | | 0.224 | | | | |
| 18 | 3 | 0.58 | | | | | 0.175 | |
| 21 | 4 | -0.32 | | | | | 0.087 | |
| 36 | 0 | 2.50 | | 0.363 | | | | |
| 38 | 4 | -0.18 | | | | 0.100 | | |
| 45 | 1 | 1.87 | | | | | | 0.301 |
| 46 | 4 | -0.18 | | | | | 0.100 | |
| 51 | 2 | 1.45 | | | | | | 0.260 |
| 52 | NR | | | | < 0.01 | | | |
| 58 | 0 | 6.77 | | 0.780 | | | | |
| 59 | 4 | -0.18 | | | | | 0.100 | |
| 60 | 0 | 9.01 | | 1.000 | | | | |
| 63 | 3 | 0.84 | | 0.200 | | | | |
| 70 | 0 | 2.37 | | | | | 0.350 | |
| 72 | 4 | -0.18 | | | 0.100 | | | |
| 78 | 0 | 3.19 | | | | | | 0.430 |
| 79 | NR | | | | | | < 0.2 | |
| 81 | 3 | 0.92 | | | 0.208 | | | |
| 85 | 4 | -0.18 | | | | | 0.100 | |
| 87 | 4 | 0.22 | | | | | 0.140 | |
| 89 | 4 | -0.37 | | | | | 0.082 | |
| 91 | 4 | 0.02 | | | | | 0.120 | |
| 94 | 4 | 0.19 | | | | | 0.137 | |
| 96 | 4 | -0.08 | | | | | 0.110 | |
| 97 | 4 | -0.29 | | | 0.090 | | | |
| 102 | 3 | -0.69 | | | | | 0.050 | |
| 118 | 4 | -0.49 | | | | | 0.070 | |
| 119 | 4 | 0.22 | | | | | | 0.140 |
| 127 | NR | | | | | | < 0.15 | |
| 134 | 2 | 1.10 | | | | | 0.226 | |
| 136 | 4 | -0.22 | | | | | 0.097 | |
| 138 | 4 | -0.02 | | | | | 0.116 | |
| 142 | 3 | -0.61 | | | 0.058 | | | |
| 145 | 4 | -0.39 | | | | | 0.080 | |
| 179 | NR | | < 2.0 | | | | | |
| 180 | 4 | -0.18 | | | | | 0.100 | |
| 198 | 2 | 1.25 | 0.240 | | | | | |
| 202 | 4 | -0.08 | | | | | 0.110 | |
| 204 | 4 | -0.25 | | | 0.094 | | | |
| 213 | 0 | 4.93 | | 0.600 | | | | |
| 214 | 3 | -0.83 | | | 0.037 | | | |
| 215 | 3 | 0.94 | | | | | 0.210 | |
| 221 | 3 | 0.84 | 0.200 | | | | | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (preserved nutrients)--Continued
NO3 + NO2 as N (Nitrate + Nitrite) m g/L**

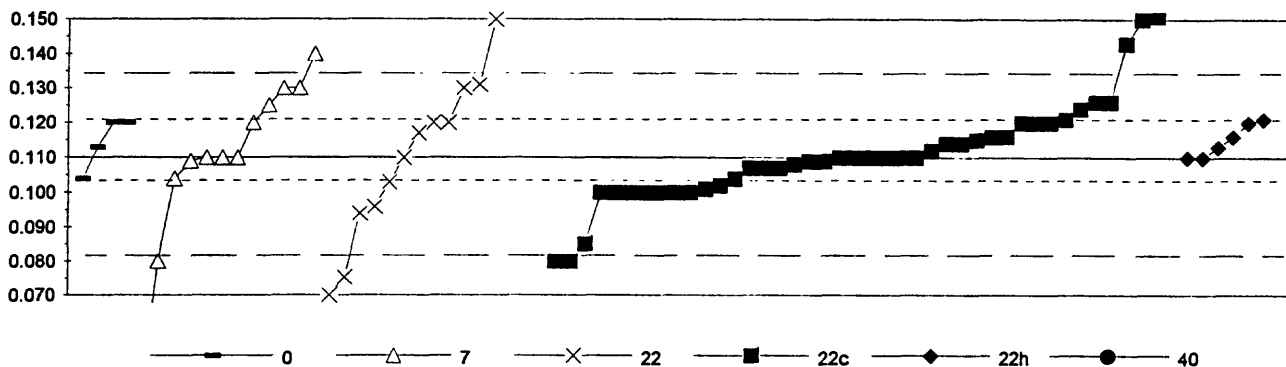


| | | | | | | |
|-----------------------|------------------------------|-------|-------|-------|-------|---|
| 0. Other | 22br. Color: brucine sulfate | | | | | |
| 7. Ion chromatography | 22c. Color: Cd diazo | | | | | |
| 22. Colorimetric | 22h. Color: hydrazine diazo | | | | | |
| N = | 0 | 3 | 10 | 1 | 15 | 4 |
| Minimum = | 0.088 | 0.062 | 0.110 | 0.020 | 0.089 | |
| Maximum = | 0.240 | 0.160 | | 1.890 | 0.150 | |
| Median = | | 0.120 | | 0.118 | | |
| St Dev = | | 0.026 | | 0.459 | | |

MPV = 0.119
 F-pseudosigma = 0.016
 N = 33
 Hu = 0.130
 HI = 0.108

| Lab | Rating | Z-value | 0 | 7 | 22 | 22br | 22c | 22h |
|-----|--------|---------|-------|-------|-------|------|-------|-------|
| 1 | 4 | -0.17 | | | | | 0.116 | |
| 7 | 3 | 0.67 | | 0.130 | | | | |
| 11 | 4 | 0.06 | | 0.120 | | | | |
| 13 | 4 | 0.06 | | | | | 0.120 | |
| 15 | 3 | -0.92 | | 0.104 | | | | |
| 21 | 1 | -1.84 | | | | | | 0.089 |
| 29 | 0 | 7.42 | 0.240 | | | | | |
| 36 | 1 | -1.96 | | 0.087 | | | | |
| 42 | 0 | 2.27 | 0.156 | | | | | |
| 43 | 4 | 0.06 | | 0.120 | | | | |
| 45 | 0 | 2.33 | | | | | 0.157 | |
| 48 | 1 | 1.90 | | | | | | 0.150 |
| 52 | 4 | 0.12 | | 0.121 | | | | |
| 60 | 4 | 0.06 | | | | | 0.120 | |
| 63 | 0 | 2.51 | | 0.160 | | | | |
| 75 | 4 | -0.25 | | | | | 0.115 | |
| 78 | 0 | -6.07 | | | | | 0.020 | |
| 88 | 0 | 108.59 | | | | | 1.890 | |
| 93 | 1 | -1.90 | 0.088 | | | | | |
| 97 | 3 | -0.55 | | | | | 0.110 | |
| 105 | 3 | -0.67 | | 0.108 | | | | |
| 117 | 1 | 1.90 | | | | | 0.150 | |
| 118 | 1 | 1.90 | | | | | | 0.150 |
| 119 | 3 | -0.55 | | | 0.110 | | | |
| 121 | 3 | -0.61 | | | | | 0.109 | |
| 122 | 3 | -0.80 | | | | | 0.106 | |
| 134 | 4 | -0.06 | | | | | 0.118 | |
| 140 | 0 | -3.50 | | 0.062 | | | | |
| 141 | 1 | -1.78 | | | | | | 0.090 |
| 145 | 3 | -0.55 | | | | | 0.110 | |
| 154 | 4 | 0.00 | | | | | 0.119 | |
| 214 | 3 | 0.55 | | | | | 0.128 | |
| 220 | 3 | 0.67 | | 0.130 | | | | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (nonpreserved nutrients)--Continued
NO3 + NO2 as N (Nitrate + Nitrite) m g/L**



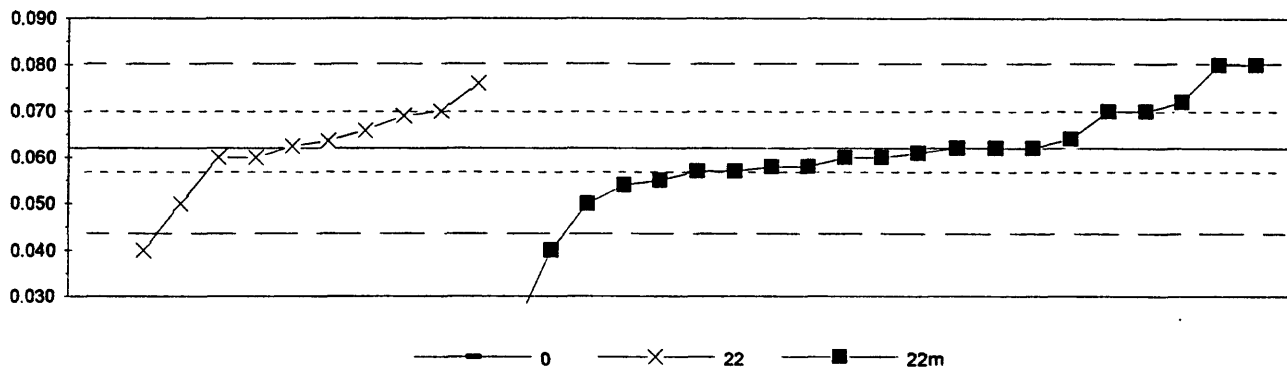
| | | | | | | |
|-----------------------|-----------------------------|-------|-------|-------|-------|-------|
| 0. Other | 22c. Color: Cd diazo | | | | | |
| 7. Ion chromatography | 22h. Color: hydrazine diazo | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| | N = 4 | 12 | 15 | 42 | 6 | 1 |
| Minimum = | 0.104 | 0.040 | 0.070 | 0.080 | 0.110 | 0.245 |
| Maximum = | 0.120 | 0.140 | 0.736 | 1.880 | 0.121 | |
| Median = | 0.110 | 0.110 | 0.114 | 0.110 | | |
| St Dev = | 0.016 | 0.018 | 0.012 | | | |

MPV = 0.110
F-pseudosigma = 0.012
N = 80
Hu = 0.121
HI = 0.104

| Lab | Rating | Z-value | 0 | 7 | 22 | 22c | 22h | 40 |
|-----|--------|---------|-------|---|-------|--------|-------|----|
| 3 | 3 | 0.57 | | | 0.117 | | | |
| 5 | 4 | 0.25 | | | | | 0.113 | |
| 9 | 3 | 0.90 | | | | 0.121 | | |
| 10 | 4 | 0.00 | | | | 0.110 | | |
| 12 | 4 | 0.00 | | | | 0.110 | | |
| 15 | 0 | -2.84 | | | 0.075 | | | |
| 16 | 0 | 51.18 | | | 0.736 | | | |
| 18 | 3 | -0.65 | | | | 0.102 | | |
| 19 | 4 | -0.25 | | | | 0.107 | | |
| 21 | 4 | 0.49 | | | | | 0.116 | |
| 23 | 4 | 0.33 | | | | 0.114 | | |
| 25 | 3 | 0.82 | | | 0.120 | | | |
| 26 | 0 | -2.45 | | | 0.080 | | | |
| 29 | 4 | 0.00 | | | 0.110 | | | |
| 32 | 1 | 1.64 | | | 0.130 | | | |
| 33 | 4 | 0.00 | | | 0.110 | | | |
| 36 | 2 | -1.15 | | | 0.096 | | | |
| 38 | 2 | 1.14 | | | | 0.124 | | |
| 42 | 2 | 1.23 | | | 0.125 | | | |
| 45 | 0 | 3.35 | | | | 0.151 | | |
| 46 | 4 | -0.25 | | | | 0.107 | | |
| 51 | 0 | 2.45 | | | 0.140 | | | |
| 52 | 1 | 1.72 | | | 0.131 | | | |
| 53 | 4 | -0.08 | | | | 0.109 | | |
| 55 | 3 | 0.82 | | | | 0.120 | | |
| 56 | 3 | -0.82 | | | | 0.100 | | |
| 58 | 1 | 1.64 | | | 0.130 | | | |
| 59 | 4 | 0.00 | | | | 0.110 | | |
| 60 | 3 | 0.82 | | | | 0.120 | | |
| 63 | 0 | 5.72 | | | 0.180 | | | |
| 68 | 3 | 0.82 | 0.120 | | | 0.100 | | |
| 69 | 3 | -0.82 | | | | 0.100 | | |
| 70 | 3 | -0.82 | | | | 0.100 | | |
| 72 | 0 | -3.27 | | | 0.070 | | | |
| 78 | 0 | | | | | < 0.01 | | |
| 80 | 0 | 13.90 | | | 0.280 | | | |
| 81 | 3 | 0.82 | | | 0.120 | | | |
| 83 | 0 | -2.45 | | | 0.080 | | | |
| 85 | 3 | 0.82 | | | 0.120 | | | |
| 87 | 4 | 0.00 | | | 0.110 | | | |
| 88 | 0 | 144.71 | | | 1.880 | | | |
| 89 | 4 | -0.49 | | | 0.104 | | | |
| 90 | 3 | 0.82 | | | | 0.120 | | |
| 91 | 4 | 0.00 | | | | 0.110 | | |
| 94 | 3 | -0.82 | | | 0.100 | | | |
| 96 | 3 | 0.90 | | | | 0.121 | | |
| 97 | 3 | -0.82 | | | 0.100 | | | |
| 102 | 0 | 3.27 | | | 0.150 | | | |
| 104 | 4 | 0.16 | | | 0.112 | | | |
| 107 | 4 | 0.49 | | | 0.116 | | | |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22c | 22h | 40 |
|-----|--------|---------|-------|---|-------|-------|-------|-------|
| 117 | 0 | 3.27 | | | | 0.150 | | |
| 118 | 4 | 0.00 | | | | | 0.110 | |
| 119 | 4 | 0.00 | | | 0.110 | | | |
| 120 | 3 | -0.82 | | | | 0.100 | | |
| 121 | 4 | -0.16 | | | | 0.108 | | |
| 122 | 4 | -0.25 | | | | 0.107 | | |
| 126 | 2 | -1.31 | | | 0.094 | | | |
| 127 | 1 | -2.04 | | | | 0.085 | | |
| 133 | 0 | -2.45 | | | | 0.080 | | |
| 134 | 4 | 0.33 | | | | 0.114 | | |
| 136 | 4 | 0.48 | | | | 0.116 | | |
| 138 | 3 | -0.74 | | | | 0.101 | | |
| 142 | 3 | -0.57 | | | 0.103 | | | |
| 145 | 4 | 0.00 | | | | 0.110 | | |
| 146 | 4 | -0.49 | 0.104 | | | | | |
| 149 | 0 | -5.72 | 0.040 | | | | | |
| 180 | 4 | 0.41 | | | | 0.115 | | |
| 183 | 0 | 11.04 | | | | | | 0.245 |
| 191 | 4 | -0.49 | 0.104 | | | | | |
| 193 | 4 | 0.00 | 0.110 | | | | | |
| 196 | 4 | -0.08 | 0.109 | | | | | |
| 197 | 1 | 1.64 | | | 0.130 | | | |
| 198 | 4 | 0.25 | 0.113 | | | | | |
| 200 | NR | < 0.20 | | | | | | |
| 202 | 3 | -0.82 | | | | 0.100 | | |
| 203 | 4 | -0.08 | | | | 0.109 | | |
| 204 | 2 | 1.31 | | | | 0.126 | | |
| 212 | 3 | 0.82 | 0.120 | | | | | |
| 214 | 2 | 1.31 | | | | 0.126 | | |
| 215 | 4 | 0.00 | | | | 0.110 | | |
| 220 | 3 | 0.82 | | | 0.120 | | | |
| 221 | 0 | 2.70 | | | | 0.143 | | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (preserved nutrients)--Continued
Total P as P (total Phosphorus) m g/L**

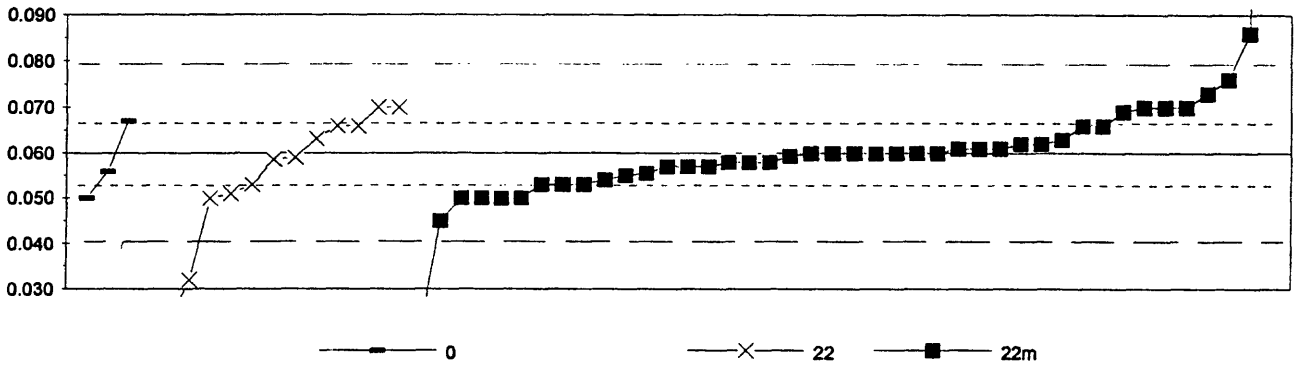


| | | | |
|------------------------------|-------|-------|-------|
| 0. Other | | | |
| 22. Colorimetric | | | |
| 22m. Color: phosphomolybdate | | | |
| N = | 1 | 10 | 21 |
| Minimum = | 0.097 | 0.040 | 0.022 |
| Maximum = | | 0.076 | 0.080 |
| Median = | | 0.063 | 0.060 |
| St Dev = | | 0.010 | 0.013 |

MPV = 0.062
 F-pseudosigma = 0.009
 N = 32
 Hu = 0.070
 HI = 0.057

| Lab | Rating | Z-value | 0 | 22 | 22m |
|-----|--------|---------|--------|-------|-------|
| 1 | 4 | -0.49 | | | 0.057 |
| 7 | 4 | -0.16 | | 0.060 | |
| 11 | 3 | 0.92 | | 0.070 | |
| 13 | 1 | 2.00 | | | 0.080 |
| 15 | 4 | 0.10 | | 0.062 | |
| 36 | 4 | 0.23 | | 0.064 | |
| 42 | 4 | 0.27 | | | 0.064 |
| 45 | 4 | 0.05 | | | 0.062 |
| 48 | 0 | -2.32 | | | 0.040 |
| 52 | 1 | 1.56 | | 0.076 | |
| 56 | 4 | 0.05 | | | 0.062 |
| 60 | 2 | 1.13 | | | 0.072 |
| 63 | 4 | -0.16 | | 0.060 | |
| 68 | 0 | 3.83 | 0.097 | | |
| 75 | 4 | -0.38 | | | 0.058 |
| 78 | 0 | -4.26 | | | 0.022 |
| 89 | 4 | 0.05 | | | 0.062 |
| 90 | 1 | 2.00 | | | 0.080 |
| 97 | 2 | -1.24 | | 0.050 | |
| 105 | 3 | 0.81 | | 0.069 | |
| 114 | 4 | -0.38 | | | 0.058 |
| 117 | 3 | -0.70 | | | 0.055 |
| 118 | 2 | -1.24 | | | 0.050 |
| 119 | 4 | -0.16 | | | 0.060 |
| 122 | 4 | -0.49 | | | 0.057 |
| 129 | 4 | -0.05 | | | 0.061 |
| 134 | 3 | 0.92 | | | 0.070 |
| 140 | 0 | -2.32 | | 0.040 | |
| 141 | 4 | -0.16 | | | 0.060 |
| 145 | 3 | 0.92 | | | 0.070 |
| 154 | 3 | -0.81 | | | 0.054 |
| 179 | NR | | < 0.18 | | |
| 220 | 4 | 0.49 | | 0.066 | |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (nonpreserved nutrients)--Continued
Total P as P (total Phosphorus) m g/L**



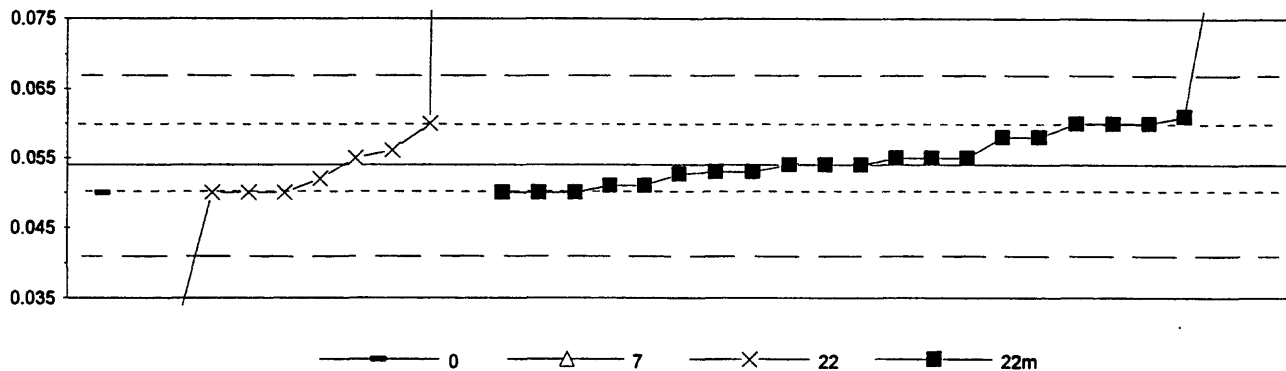
0. Other
 22. Colorimetric
 22m. Color: phosphomolybdate
 N = 3 13 42
 Minimum = 0.050 0.020 0.019
 Maximum = 0.067 0.070 0.180
 Median = 0.059 0.060
 St Dev = 0.011 0.008

MPV = 0.060
 F-pseudosigma = 0.010
 N = 58
 Hu = 0.066
 Hi = 0.053

| Lab | Rating | Z-value | 0 | 22 | 22m |
|-----|--------|---------|---|-------|-------|
| 3 | 3 | 0.65 | | 0.066 | |
| 5 | 4 | 0.03 | | | 0.060 |
| 9 | 1 | 1.69 | | | 0.076 |
| 10 | 4 | 0.03 | | | 0.060 |
| 15 | 4 | 0.36 | | 0.063 | |
| 18 | 3 | -0.70 | | | 0.053 |
| 19 | 2 | -1.01 | | | 0.050 |
| 21 | 4 | 0.24 | | | 0.062 |
| 22 | 4 | -0.07 | | 0.059 | |
| 23 | 4 | -0.28 | | | 0.057 |
| 25 | NR | < 0.121 | | | |
| 36 | 4 | -0.12 | | 0.059 | |
| 38 | 4 | 0.34 | | | 0.063 |
| 45 | 4 | -0.28 | | | 0.057 |
| 46 | 4 | 0.03 | | | 0.060 |
| 51 | 3 | -0.90 | | 0.051 | |
| 52 | 3 | -0.70 | | 0.053 | |
| 55 | 4 | 0.03 | | | 0.060 |
| 59 | NR | | | | < 0.1 |
| 60 | 3 | 0.65 | | | 0.066 |
| 63 | 2 | -1.01 | | 0.050 | |
| 70 | NR | | | | < 0.1 |
| 72 | 2 | 1.07 | | 0.070 | |
| 78 | 0 | -4.22 | | | 0.019 |
| 79 | NR | | | | < 0.2 |
| 81 | 0 | -3.81 | | 0.023 | |
| 85 | 2 | -1.01 | | | 0.050 |
| 87 | 3 | 0.65 | | | 0.066 |
| 89 | 4 | 0.13 | | | 0.061 |
| 91 | 0 | 2.73 | | | 0.086 |
| 94 | 3 | -0.59 | | | 0.054 |
| 96 | 4 | 0.03 | | | 0.060 |
| 97 | 2 | 1.07 | | 0.070 | |
| 102 | 4 | -0.18 | | | 0.058 |
| 107 | 4 | -0.18 | | | 0.058 |
| 111 | 4 | 0.24 | | | 0.062 |
| 114 | 4 | 0.13 | | | 0.061 |
| 118 | 2 | -1.01 | | | 0.050 |
| 119 | 4 | 0.03 | | | 0.060 |
| 120 | 2 | -1.01 | | | 0.050 |
| 122 | 3 | -0.70 | | | 0.053 |
| 127 | 4 | -0.44 | | | 0.056 |
| 129 | 3 | -0.70 | | | 0.053 |
| 133 | 2 | 1.38 | | | 0.073 |
| 134 | 2 | 1.07 | | | 0.070 |
| 136 | 4 | -0.03 | | | 0.059 |
| 138 | 4 | -0.28 | | | 0.057 |
| 142 | 0 | -2.87 | | 0.032 | |
| 145 | 4 | 0.03 | | | 0.060 |
| 149 | 0 | -4.12 | | 0.020 | |

| Lab | Rating | Z-value | 0 | 22 | 22m |
|-----|--------|---------|--------|-------|-------|
| 179 | NR | | < 0.18 | | |
| 180 | 2 | 1.07 | | | 0.070 |
| 182 | 0 | 12.48 | | | 0.180 |
| 183 | 4 | -0.18 | | | 0.058 |
| 198 | 4 | -0.38 | 0.056 | | |
| 200 | 2 | -1.01 | 0.050 | | |
| 202 | 1 | -1.53 | | | 0.045 |
| 203 | 4 | -0.49 | | | 0.055 |
| 204 | 4 | 0.13 | | | 0.061 |
| 212 | 3 | 0.76 | 0.067 | | |
| 213 | 2 | 1.07 | | | 0.070 |
| 220 | 3 | 0.65 | | 0.066 | |
| 221 | 3 | 0.97 | | | 0.069 |

**Table 15. --Statistical summary of reported data for standard reference sample N-40 (preserved nutrients)--Continued
PO4 as P (Orthophosphate) m g/L**

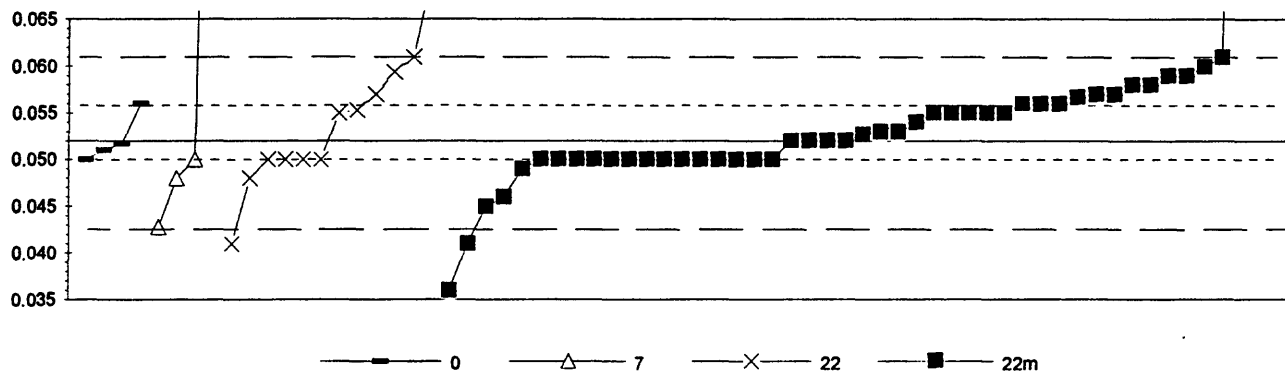


| | | | | |
|-----------------------|-----------------------------|-------|-------|-------|
| 0. Other | 22m. Color: phophomolybdate | | | |
| 7. Ion chromatography | | | | |
| 22. Colorimetric | | | | |
| N = | 1 | 1 | 9 | 22 |
| Minimum = | 0.050 | 0.160 | 0.030 | 0.050 |
| Maximum = | | | 0.578 | 0.323 |
| Median = | | | 0.052 | 0.054 |
| St Dev = | | | 0.004 | 0.004 |

MPV = 0.054
 F-pseudosigma = 0.007
 N = 33
 Hu = 0.060
 Hl = 0.051

| Lab | Rating | Z-value | 0 | 7 | 22 | 22m |
|-----|--------|---------|-------|---|-------|---------|
| 1 | 4 | -0.19 | | | | 0.053 |
| 11 | 3 | 0.90 | | | 0.060 | |
| 13 | 3 | 0.90 | | | | 0.060 |
| 15 | 4 | 0.31 | | | 0.056 | |
| 29 | 0 | 15.89 | 0.160 | | | |
| 36 | 0 | 78.54 | | | 0.578 | |
| 42 | 3 | 0.60 | | | | 0.058 |
| 45 | 4 | 0.00 | | | | 0.054 |
| 48 | 0 | | | | | < 0.005 |
| 52 | 4 | 0.15 | | | 0.055 | |
| 56 | 4 | 0.00 | | | | 0.054 |
| 60 | 2 | 1.05 | | | | 0.061 |
| 63 | 3 | -0.60 | | | 0.050 | |
| 75 | 4 | 0.15 | | | | 0.055 |
| 78 | 0 | 5.40 | | | | 0.090 |
| 88 | 0 | 40.32 | | | | 0.323 |
| 89 | 4 | 0.15 | | | | 0.055 |
| 90 | 4 | -0.15 | | | | 0.053 |
| 97 | 3 | -0.60 | | | 0.050 | |
| 105 | 3 | -0.60 | | | 0.050 | |
| 117 | 3 | -0.60 | | | | 0.050 |
| 118 | 3 | -0.60 | | | | 0.050 |
| 119 | 3 | 0.90 | | | | 0.060 |
| 121 | 4 | 0.00 | | | | 0.054 |
| 122 | 4 | -0.45 | | | | 0.051 |
| 129 | 3 | 0.60 | | | | 0.058 |
| 134 | 4 | 0.15 | | | | 0.055 |
| 140 | 0 | -3.60 | | | 0.030 | |
| 141 | 3 | 0.90 | | | | 0.060 |
| 145 | 3 | -0.60 | | | | 0.050 |
| 154 | 4 | -0.45 | | | | 0.051 |
| 179 | 3 | -0.60 | 0.050 | | | |
| 214 | 4 | -0.15 | | | | 0.053 |
| 220 | 4 | -0.30 | | | 0.052 | |

Table 15. —Statistical summary of reported data for standard reference sample N-40 (nonpreserved nutrients)—Continued
 PO4 as P (Orthophosphate) m g/L



| | | | | |
|-----------------------|------------------------------|-------|-------|-------|
| 0. Other | 22m. Color: phosphomolybdate | | | |
| 7. Ion chromatography | | | | |
| 22. Colorimetric | | | | |
| N = | 4 | 4 | 12 | 47 |
| Minimum = | 0.050 | 0.043 | 0.041 | 0.036 |
| Maximum = | 0.056 | 0.150 | 0.070 | 0.400 |
| Median = | 0.053 | | | |
| St Dev = | 0.007 | | | |
| | 0.057 | | | |

MPV = 0.052
 F-pseudosigma = 0.005
 N = 67
 Hu = 0.056
 HI = 0.050

| Lab | Rating | Z-value | 0 | 7 | 22 | 22m |
|-----|--------|---------|-------|-------|-------|-------|
| 3 | 3 | 0.64 | | | 0.055 | |
| 5 | 3 | -0.64 | | | | 0.049 |
| 9 | 0 | -3.40 | | | | 0.036 |
| 10 | 2 | 1.06 | | | | 0.057 |
| 15 | 1 | 1.57 | | | 0.059 | |
| 18 | 4 | 0.00 | | | | 0.052 |
| 19 | 4 | -0.42 | | | | 0.050 |
| 21 | 2 | 1.27 | | | | 0.058 |
| 23 | 4 | -0.42 | | | | 0.050 |
| 25 | 0 | -2.34 | | | | 0.041 |
| 26 | NR | | < 0.5 | | | |
| 29 | 0 | 20.82 | | 0.150 | | |
| 32 | 1 | -1.95 | | 0.043 | | |
| 33 | 4 | -0.42 | | 0.050 | | |
| 36 | 3 | 0.70 | | | 0.055 | |
| 38 | 3 | 0.64 | | | | 0.055 |
| 45 | 4 | 0.00 | | | | 0.052 |
| 46 | 4 | 0.00 | | | | 0.052 |
| 51 | 4 | -0.42 | | | 0.050 | |
| 52 | 3 | -0.85 | | | 0.048 | |
| 53 | 4 | 0.15 | | | | 0.053 |
| 55 | 1 | 1.70 | | | | 0.060 |
| 59 | 4 | -0.42 | | | | 0.050 |
| 60 | 2 | 1.49 | | | | 0.059 |
| 63 | 4 | -0.42 | | | 0.050 | |
| 70 | NR | | | | | < 0.1 |
| 72 | 0 | 3.82 | | | 0.070 | |
| 78 | 0 | 16.57 | | | | 0.130 |
| 80 | 4 | -0.42 | | | 0.050 | |
| 81 | 0 | -2.34 | | | 0.041 | |
| 83 | 4 | -0.42 | | | | 0.050 |
| 85 | 4 | 0.00 | | | | 0.052 |
| 87 | 2 | 1.06 | | | | 0.057 |
| 88 | 0 | 73.93 | | | | 0.400 |
| 89 | 3 | 0.85 | | | | 0.056 |
| 96 | 4 | -0.42 | | | | 0.050 |
| 97 | 4 | -0.42 | | | 0.050 | |
| 102 | 4 | 0.21 | | | | 0.053 |
| 107 | 2 | -1.49 | | | | 0.045 |
| 111 | 3 | 0.64 | | | | 0.055 |
| 117 | 4 | -0.42 | | | | 0.050 |
| 118 | 4 | -0.42 | | | | 0.050 |
| 119 | 4 | -0.42 | | | | 0.050 |
| 120 | 4 | -0.42 | | | | 0.050 |
| 121 | 4 | -0.42 | | | | 0.050 |
| 122 | 2 | -1.27 | | | | 0.046 |
| 127 | 3 | 0.64 | | | | 0.055 |
| 129 | 3 | 0.64 | | | | 0.055 |
| 133 | 4 | -0.42 | | | | 0.050 |
| 134 | 3 | 0.85 | | | | 0.056 |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22m |
|-----|--------|---------|-------|-------|-------|-------|
| 136 | 3 | 1.00 | | | | 0.057 |
| 138 | 3 | 0.85 | | | | 0.056 |
| 142 | 1 | 1.91 | | | 0.061 | |
| 145 | 4 | -0.42 | | | | 0.050 |
| 146 | 4 | -0.06 | 0.052 | | | |
| 179 | 3 | 0.85 | 0.056 | | | |
| 180 | 2 | 1.49 | | | | 0.059 |
| 182 | 0 | 37.81 | | | | 0.230 |
| 183 | 4 | 0.42 | | | | 0.054 |
| 191 | 3 | -0.85 | | 0.048 | | |
| 198 | 4 | -0.21 | 0.051 | | | |
| 200 | 4 | -0.42 | 0.050 | | | |
| 202 | 1 | 1.91 | | | | 0.061 |
| 203 | 3 | 0.64 | | | | 0.055 |
| 204 | 2 | 1.27 | | | | 0.058 |
| 213 | 4 | -0.42 | | | | 0.050 |
| 214 | 4 | 0.21 | | | | 0.053 |
| 220 | 2 | 1.06 | | | 0.057 | |
| 221 | 4 | -0.42 | | | | 0.050 |

Table 16. –Statistical summary of reported data for standard reference sample N-41(nutrients)

Definition of analytical methods, abbreviations, and symbols

Analytical methods

| | |
|---------------------------|--|
| 0. Other/Not reported | |
| 4. ICP | = inductively coupled plasma |
| 7. IC | = ion chromatography |
| 20. Titrate: colorimetric | |
| 22. Color: | = colorimetric [color reagent specified] |
| 40. Ion electrode | = specific ion electrode |

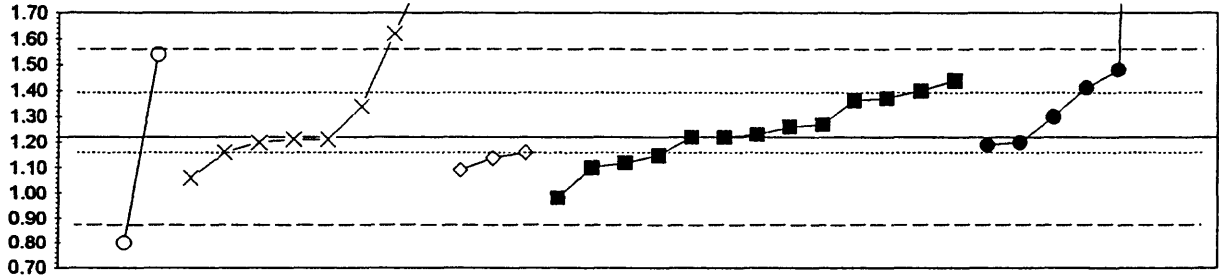
Abbreviations and symbols

| | |
|------------------|-------------------------------------|
| N = | number of samples |
| St dev = | traditional standard deviation |
| MPV = | 95% confidence most probable value |
| F-pseudostigma = | nonparametric statistic deviation |
| Hu = | upper hinge value |
| Hi = | lower hinge value |
| mg/L = | milligrams per liter |
| Lab = | laboratory code number |
| NR = | not rated, less than value reported |
| < = | less than |

| <u>Constituent</u> | | <u>page</u> |
|--------------------|----------------------------------|-------------|
| NH3 as N | Ammonia as nitrogen | 98 |
| NH3+Org N as N | Ammonia plus organic nitrogen | 100 |
| NO3+NO2 as N | Nitrate plus nitrite as nitrogen | 102 |
| total P as P | total Phosphorus as phosphorus | 104 |
| PO4 as P | Orthophosphate as phosphorus | 106 |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (preserved nutrient)
 —Continued

NH₃ as N (Ammonia) mg/L



— 0 —○— 20 —×— 22 —◇— 22n —■— 22p —●— 40

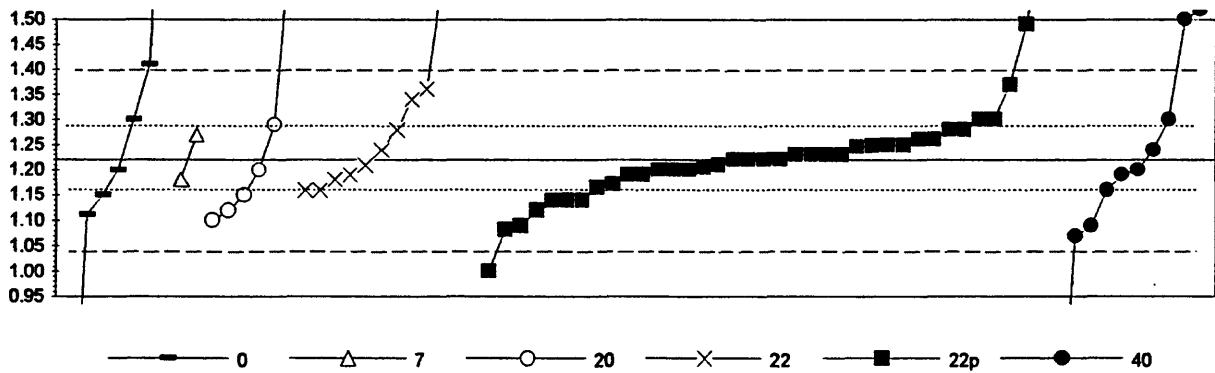
| | | | | | | |
|---------------------------|-----------------------------|------|-------|------|-------|------|
| 0. Other | 22n. Color: Nesslerization | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | < | 2 | 8 | 3 | 13 | 6 |
| Minimum = | | 0.80 | 1.06 | 1.09 | 0.98 | 1.19 |
| Maximum = | | 1.54 | 1.89 | 1.16 | 1.44 | 5.60 |
| Median = | | | 1.21 | | 1.23 | 1.36 |
| St Dev = | | | 0.279 | | 0.132 | |

MPV = 1.22
 F-pseudosigma = 0.170
 N = 32
 Hu = 1.39
 HI = 1.16

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|---|------|------|------|------|------|
| 1 | 4 | 0.00 | | | | | 1.22 | |
| 7 | 4 | -0.11 | | | 1.20 | | | |
| 11 | 0 | 3.93 | | | 1.89 | | | |
| 15 | 4 | -0.35 | | | 1.16 | | | |
| 36 | 1 | 1.53 | | | | | | 1.48 |
| 48 | 3 | -0.70 | | | | | 1.10 | |
| 52 | 4 | 0.30 | | | | | 1.27 | |
| 60 | 1 | 1.88 | | 1.54 | | | | |
| 61 | 3 | 0.71 | | | 1.34 | | | |
| 63 | 0 | -2.46 | | 0.80 | | | | |
| 75 | 2 | 1.29 | | | | | 1.44 | |
| 78 | 4 | 0.47 | | | | | | 1.30 |
| 88 | 4 | -0.47 | | | | 1.14 | | |
| 89 | 4 | 0.06 | | | | | 1.23 | |
| 90 | 4 | 0.00 | | | | | 1.22 | |
| 93 | 2 | 1.06 | | | | | 1.40 | |
| 97 | 3 | -0.94 | | | 1.06 | | | |
| 105 | 0 | 2.35 | | | 1.62 | | | |
| 108 | 4 | -0.11 | | | | | | 1.20 |
| 114 | 2 | 1.12 | | | | | | 1.41 |
| 118 | 3 | -0.58 | | | | | 1.12 | |
| 119 | 4 | -0.17 | | | | | | 1.19 |
| 120 | 3 | 0.84 | | | | | 1.36 | |
| 122 | 3 | 0.88 | | | | | 1.37 | |
| 129 | 3 | -0.75 | | | | 1.09 | | |
| 133 | 0 | 25.69 | | | | | | 5.60 |
| 134 | 4 | -0.41 | | | | | 1.15 | |
| 140 | 4 | -0.06 | | | 1.21 | | | |
| 141 | 4 | -0.35 | | | | 1.16 | | |
| 145 | 4 | 0.24 | | | | | 1.26 | |
| 154 | 2 | -1.40 | | | | | 0.98 | |
| 179 | NR | < 1 | | | | | | |
| 220 | 4 | -0.06 | | | 1.21 | | | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (nonpreserved nutrient)
—Continued

NH3 as N (Ammonia) mg/L



| | | | | | |
|---------------------------|-----------------------------|-------|-------|-------|------|
| 0. Other | 22. Colorimetric | | | | |
| 7. Ion chromatography | 22p. Color: phenate | | | | |
| 20. Titrate: colorimetric | 40. Selective ion electrode | | | | |
| N = 7 | 2 | 6 | 12 | 37 | 10 |
| Minimum = 0.49 | 1.18 | 1.10 | 1.16 | 1.00 | 0.55 |
| Maximum = 2.00 | 1.27 | 1.67 | 1.66 | 1.66 | 1.52 |
| Median = 1.20 | 1.23 | 1.18 | 1.26 | 1.22 | 1.20 |
| St Dev = 0.105 | | 0.076 | 0.084 | 0.136 | |

MPV = 1.22
F-pseudosigma = 0.089
N = 74
Hu = 1.28
HI = 1.16

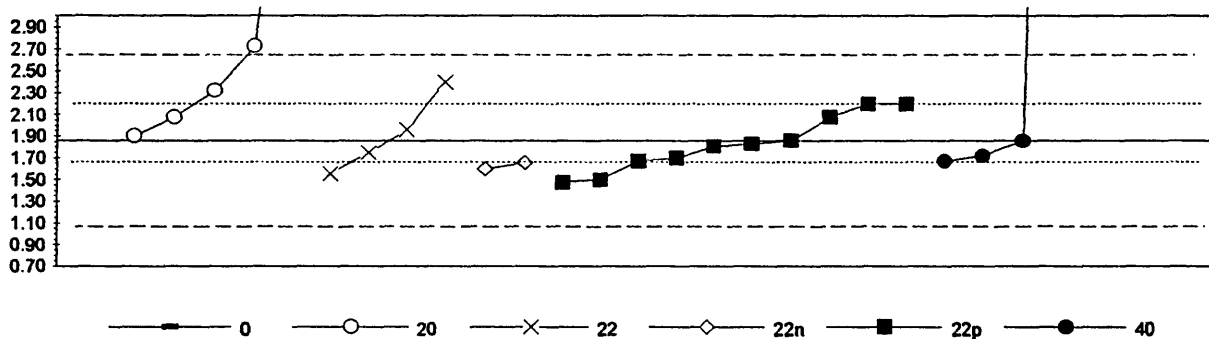
| Lab | Rating | Z-value | 0 | 7 | 20 | 22 | 22p | 40 |
|-----|--------|---------|---|------|------|------|------|------|
| 3 | 0 | 4.61 | | | | 1.63 | | |
| 5 | 0 | 3.04 | | | | | 1.49 | |
| 9 | 0 | 4.95 | | | | | 1.66 | |
| 10 | 4 | 0.22 | | | | | | 1.24 |
| 11 | 0 | 4.95 | | | | 1.66 | | |
| 12 | 3 | 0.90 | | | | | 1.30 | |
| 13 | 4 | 0.00 | | | | | 1.22 | |
| 15 | 4 | -0.11 | | | | 1.21 | | |
| 16 | 2 | -1.12 | | | 1.12 | | | |
| 18 | 4 | -0.22 | | | | | 1.20 | |
| 19 | 3 | 0.90 | | | | | 1.30 | |
| 23 | 3 | -0.90 | | | | | 1.14 | |
| 25 | 1 | -1.69 | | | | | | 1.07 |
| 26 | 3 | 0.56 | | | 1.27 | | | |
| 32 | 4 | -0.45 | | | 1.18 | | | |
| 33 | 1 | 1.57 | | | | 1.36 | | |
| 36 | 0 | 3.37 | | | | | | 1.52 |
| 37 | 4 | 0.45 | | | | | 1.26 | |
| 38 | 4 | 0.30 | | | | | 1.25 | |
| 46 | 3 | -0.90 | | | | | 1.14 | |
| 52 | 4 | 0.45 | | | | | 1.26 | |
| 55 | 4 | 0.34 | | | | | 1.25 | |
| 57 | 3 | -0.79 | | | 1.15 | | | |
| 58 | 2 | -1.46 | | | | | | 1.09 |
| 59 | 4 | 0.00 | | | | | 1.22 | |
| 60 | 0 | 5.06 | | | 1.67 | | | |
| 63 | 2 | -1.35 | | | 1.10 | | | |
| 68 | 0 | -7.53 | | | | | | 0.55 |
| 70 | 4 | -0.22 | | | | | 1.20 | |
| 72 | 3 | -0.67 | | | | 1.16 | | |
| 76 | 4 | -0.34 | | | | | 1.19 | |
| 78 | 3 | 0.90 | | | | | | 1.30 |
| 80 | 2 | 1.35 | | | | 1.34 | | |
| 81 | 0 | 4.05 | | | | 1.58 | | |
| 83 | 0 | -2.47 | | | | | 1.00 | |
| 84 | 4 | 0.22 | | | | 1.24 | | |
| 85 | 3 | -0.56 | | | | | 1.17 | |
| 87 | 4 | 0.11 | | | | | 1.23 | |
| 88 | 3 | -0.79 | | 1.15 | | | | |
| 89 | 4 | 0.00 | | | | | 1.22 | |
| 91 | 4 | 0.34 | | | | | 1.25 | |
| 94 | 4 | 0.11 | | | | | 1.23 | |
| 96 | 4 | -0.34 | | | | | 1.19 | |
| 97 | 3 | -0.67 | | | | 1.16 | | |
| 102 | 2 | -1.12 | | | | | 1.12 | |
| 104 | 4 | 0.29 | | | | | 1.25 | |
| 111 | 1 | 1.69 | | | | | 1.37 | |
| 114 | 0 | 3.15 | | | | | | 1.50 |
| 118 | 2 | -1.46 | | | | | 1.09 | |
| 119 | 4 | -0.34 | | | | | | 1.19 |

| Lab | Rating | Z-value | 0 | 7 | 20 | 22 | 22p | 40 |
|-----|--------|---------|------|---|----|----|-----|------|
| 122 | 1 | -1.55 | | | | | 22p | 1.08 |
| 127 | 4 | 0.11 | | | | | 22s | 1.23 |
| 128 | 4 | -0.17 | | | | | 22p | 1.21 |
| 129 | 2 | -1.21 | 1.11 | | | | | |
| 134 | 3 | -0.90 | | | | | 22s | 1.14 |
| 136 | 3 | -0.62 | | | | | 22p | 1.16 |
| 138 | 4 | 0.00 | | | | | 22p | 1.22 |
| 142 | 3 | 0.67 | | | | | | 1.28 |
| 145 | 4 | -0.22 | | | | | 22s | 1.20 |
| 149 | 3 | -0.67 | | | | | | 1.16 |
| 179 | 0 | -2.47 | < 1 | | | | | |
| 180 | 4 | 0.11 | | | | | 22p | 1.23 |
| 182 | 0 | -8.23 | 0.49 | | | | | |
| 183 | 4 | -0.22 | | | | | | 1.20 |
| 197 | 4 | -0.34 | | | | | | 1.19 |
| 198 | 4 | -0.22 | 1.20 | | | | | |
| 200 | 0 | 2.14 | 1.41 | | | | | |
| 202 | 3 | 0.67 | | | | | 22p | 1.28 |
| 205 | 3 | 0.79 | | | | | | 1.29 |
| 211 | 3 | 0.67 | | | | | 22p | 1.28 |
| 212 | 0 | 8.77 | 2.00 | | | | | |
| 213 | 4 | -0.22 | | | | | | 1.20 |
| 215 | 4 | -0.11 | | | | | 22p | 1.21 |
| 220 | 4 | -0.45 | | | | | | 1.18 |
| 221 | 3 | 0.90 | 1.30 | | | | | |

Table 16. --Statistical summary of reported data for standard reference water sample N-41 (preserved nutrient)

--Continued

NH₃ + Org N as N (Ammonia + Organic N) mg/L



| | | | | | | |
|---------------------------|-----------------------------|------|------|------|-------|------|
| 0. Other | 22n. Color: Nesslerization | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | 1 | 5 | 4 | 2 | 10 | 4 |
| Minimum = | 5.47 | 1.90 | 1.56 | 1.60 | 1.48 | 1.67 |
| Maximum = | 5.43 | 2.40 | 1.66 | 2.20 | 15.10 | |
| Median = | | 2.32 | 1.86 | | 1.82 | 1.79 |
| St Dev = | | | | | 0.260 | |

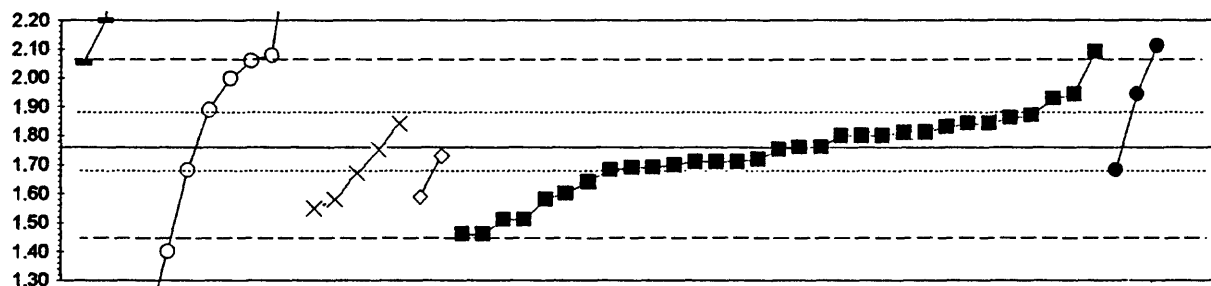
MPV = 1.86
 F-pseudosigma = 0.391
 N = 26
 Hu = 2.20
 HI = 1.67

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|------|------|-------|
| 1 | 4 | -0.48 | | | | | 1.67 | |
| 11 | 4 | -0.28 | | | 1.75 | | | |
| 15 | 3 | -0.77 | | | 1.56 | | | |
| 36 | 2 | 1.18 | | 2.32 | | | | |
| 45 | 4 | -0.48 | | | | | | 1.67 |
| 48 | 3 | 0.87 | | | | | 2.20 | |
| 52 | 4 | -0.41 | | | | | 1.70 | |
| 60 | 3 | 0.57 | | 2.08 | | | | |
| 61 | 0 | 2.23 | | 2.73 | | | | |
| 63 | 4 | 0.10 | | 1.90 | | | | |
| 78 | 4 | 0.00 | | | | | | 1.86 |
| 89 | 4 | -0.07 | | | | | 1.83 | |
| 90 | 3 | 0.57 | | | | | 2.08 | |
| 105 | 4 | 0.26 | | | 1.96 | | | |
| 108 | 0 | 9.14 | | 5.43 | | | | |
| 118 | 3 | 0.87 | | | | | 2.20 | |
| 119 | 4 | -0.36 | | | | | | 1.72 |
| 120 | 4 | 0.00 | | | | | 1.86 | |
| 129 | 3 | -0.67 | | | | 1.60 | | |
| 133 | 0 | 33.89 | | | | | | 15.10 |
| 134 | 4 | -0.13 | | | | | 1.81 | |
| 140 | 2 | 1.38 | | | 2.40 | | | |
| 141 | 3 | -0.51 | | | | 1.66 | | |
| 145 | 3 | -0.97 | | | | | 1.48 | |
| 154 | 3 | -0.92 | | | | | 1.50 | |
| 179 | 0 | 9.24 | 5.47 | | | | | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (nonpreserved nutrient)

—Continued

NH₃ + Org N as N (Ammonia + Organic N) mg/L



—■— 0 —○— 20 —×— 22 —◇— 22n —■— 22p —●— 40

| | | | | | | |
|---------------------------|-----------------------------|-------|------|-------|------|------|
| 0. Other | 22n. Color: Nesslerization | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | 3 | 8 | 5 | 2 | 31 | 3 |
| Minimum = | 2.05 | 1.13 | 1.55 | 1.59 | 1.46 | 1.68 |
| Maximum = | 2.82 | 2.60 | 1.84 | 1.73 | 2.09 | 2.11 |
| Median = | 2.20 | 1.95 | 1.67 | | 1.75 | 1.94 |
| St Dev = | 0.266 | 0.120 | | 0.143 | | |

MPV = 1.76
 F-pseudosigma = 0.152
 N = 52
 Hu = 1.88
 HI = 1.68

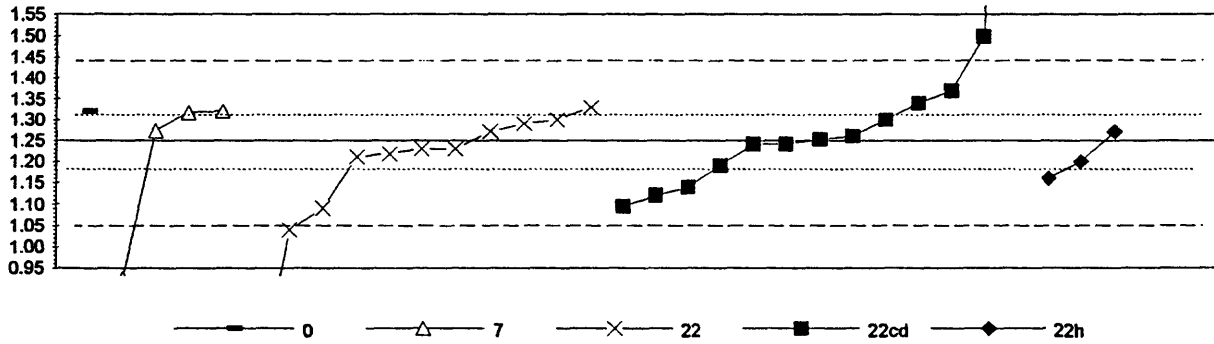
| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|-----|------|------|
| 3 | 3 | 0.89 | | 1.89 | | | | |
| 9 | 2 | 1.22 | | | | | 1.94 | |
| 10 | 4 | 0.03 | | | | | 1.76 | |
| 11 | 3 | -0.56 | | | 1.67 | | | |
| 12 | 2 | -1.02 | | | | | 1.60 | |
| 13 | 4 | 0.03 | | | | | 1.76 | |
| 15 | 2 | -1.15 | | | 1.58 | | | |
| 16 | 4 | -0.49 | | 1.68 | | | | |
| 18 | 4 | -0.03 | | | | | 1.75 | |
| 23 | 3 | 0.56 | | | | | 1.84 | |
| 36 | 0 | 2.14 | | 2.08 | | | | |
| 37 | 3 | 0.69 | | | | | 1.86 | |
| 38 | 4 | -0.16 | | | 1.73 | | | |
| 45 | 2 | 1.22 | | | | | | 1.94 |
| 46 | 4 | -0.43 | | | | | 1.69 | |
| 52 | 3 | -0.76 | | | | | 1.64 | |
| 55 | 1 | -1.61 | | | | | 1.51 | |
| 57 | 0 | 5.56 | | 2.60 | | | | |
| 58 | 0 | -4.11 | | 1.13 | | | | |
| 59 | 4 | -0.36 | | | | | 1.70 | |
| 60 | 1 | 2.01 | | 2.06 | | | | |
| 63 | 1 | 1.61 | | 2.00 | | | | |
| 70 | 1 | -1.94 | | | | | 1.46 | |
| 72 | 4 | -0.03 | | | 1.75 | | | |
| 78 | 0 | 2.34 | | | | | | 2.11 |
| 79 | 4 | 0.30 | | | | | 1.80 | |
| 81 | 2 | -1.35 | | | 1.55 | | | |
| 85 | 4 | 0.30 | | | | | 1.80 | |
| 87 | 3 | 0.56 | | | | | 1.84 | |
| 89 | 3 | 0.76 | | | | | 1.87 | |
| 91 | 4 | 0.36 | | | | | 1.81 | |
| 94 | 4 | -0.30 | | | | | 1.71 | |
| 96 | 4 | -0.30 | | | | | 1.71 | |
| 102 | 1 | -1.61 | | | | | 1.51 | |
| 118 | 4 | 0.49 | | | | | 1.83 | |
| 119 | 4 | -0.49 | | | | | | 1.68 |
| 127 | 4 | -0.23 | | | | | 1.72 | |
| 128 | 2 | 1.14 | | | | | 1.93 | |
| 129 | 2 | -1.09 | | | 1.59 | | | |
| 134 | 4 | 0.30 | | | | | 1.80 | |
| 136 | 4 | -0.42 | | | | | 1.69 | |
| 138 | 4 | -0.49 | | | | | 1.68 | |
| 142 | 3 | 0.56 | | | 1.84 | | | |
| 145 | 1 | -1.94 | | | | | 1.46 | |
| 179 | 0 | 7.01 | 2.82 | | | | | |
| 180 | 4 | -0.30 | | | | | 1.71 | |
| 198 | 1 | 1.94 | 2.05 | | | | | |
| 202 | 4 | 0.36 | | | | | 1.81 | |
| 211 | 2 | -1.15 | | | | | 1.58 | |
| 213 | 0 | -2.34 | 1.40 | | | | | |

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|----|----|-----|-----|------|
| 215 | 0 | 2.20 | | | | | | |
| 221 | 0 | 2.93 | 2.20 | | | | | 2.09 |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (preserved nutrient)

—Continued

NO₃ + NO₃ as N (Nitrate + Nitrite) mg/L



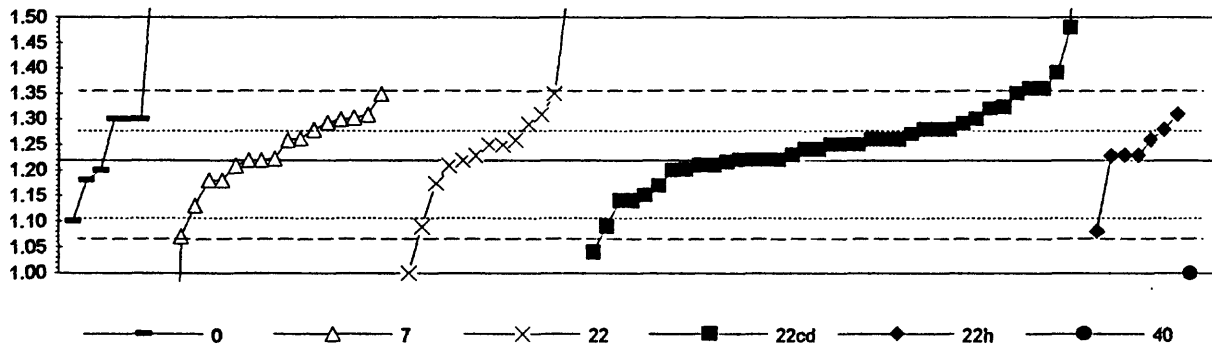
| | | | | | |
|-----------------------|-----------------------------|------|-------|-------|------|
| 0. Other | 22cd. Cd diazotization | | | | |
| 7. Ion chromatography | 22h. Color: hydrazine diazo | | | | |
| 22. Colorimetric | N = 1 | 4 | 11 | 13 | 3 |
| Minimum = | 1.32 | 0.93 | 0.65 | 1.10 | 1.16 |
| Maximum = | 1.32 | 1.32 | 1.33 | 2.89 | 1.27 |
| Median = | 1.30 | | 1.23 | 1.25 | |
| St Dev = | | | 0.092 | 0.114 | |

MPV = 1.25
 F-pseudosigma = 0.099
 N = 32
 Hu = 1.31
 HI = 1.18

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h |
|-----|--------|---------|------|------|------|------|------|
| 1 | 4 | 0.05 | | | | 1.25 | |
| 7 | 3 | 0.54 | | | 1.30 | | |
| 11 | 4 | 0.23 | | | 1.27 | | |
| 15 | 0 | -2.09 | | | 1.04 | | |
| 29 | 3 | 0.74 | | 1.32 | | | |
| 36 | 3 | 0.84 | | | 1.33 | | |
| 42 | 3 | 0.71 | | 1.32 | | | |
| 43 | 4 | -0.27 | | | 1.22 | | |
| 45 | 3 | 0.94 | | | | 1.34 | |
| 48 | 4 | -0.47 | | | | | 1.20 |
| 52 | 4 | 0.13 | | | | 1.26 | |
| 60 | 2 | -1.08 | | | | 1.14 | |
| 61 | 1 | -1.59 | | | 1.09 | | |
| 63 | 4 | -0.37 | | | 1.21 | | |
| 75 | 3 | 0.54 | | | | 1.30 | |
| 78 | 2 | -1.28 | | | | 1.12 | |
| 88 | 0 | 16.60 | | | | 2.89 | |
| 93 | 0 | -3.24 | | 0.93 | | | |
| 97 | 2 | 1.24 | | | | 1.37 | |
| 105 | 4 | -0.17 | | | 1.23 | | |
| 108 | 4 | -0.17 | | | 1.23 | | |
| 117 | 0 | 2.56 | | | | 1.50 | |
| 118 | 4 | 0.23 | | | | | 1.27 |
| 119 | 3 | 0.74 | 1.32 | | | | |
| 122 | 4 | -0.05 | | | | 1.24 | |
| 129 | 4 | 0.27 | | 1.27 | | | |
| 134 | 4 | -0.07 | | | | 1.24 | |
| 140 | 0 | -6.01 | | | 0.65 | | |
| 141 | 3 | -0.88 | | | | | 1.16 |
| 145 | 3 | -0.58 | | | | 1.19 | |
| 154 | 1 | -1.54 | | | | 1.10 | |
| 220 | 4 | 0.43 | | | 1.29 | | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (nonpreserved nutrient)
 —Continued

NO₃ + NO₂ as N (Nitrate + Nitrite) mg/L



| | | | | | | |
|-----------------------|-----------------------------|-------|-------|-------|-------|------|
| 0. Other | 22cd. Cd diazotization | | | | | |
| 7. Ion chromatography | 22h. Color: hydrazine diazo | | | | | |
| 22. Colorimetric | 40. Selective ion electrode | | | | | |
| N = | 7 | 19 | 15 | 38 | 7 | 1 |
| Minimum = | 1.10 | 0.00 | 0.89 | 1.04 | 1.08 | 1.00 |
| Maximum = | 1.66 | 1.35 | 1.91 | 2.88 | 1.31 | 1.00 |
| Median = | 1.30 | 1.22 | 1.25 | 1.25 | 1.23 | |
| St Dev = | 0.098 | 0.073 | 0.096 | 0.083 | 0.073 | |

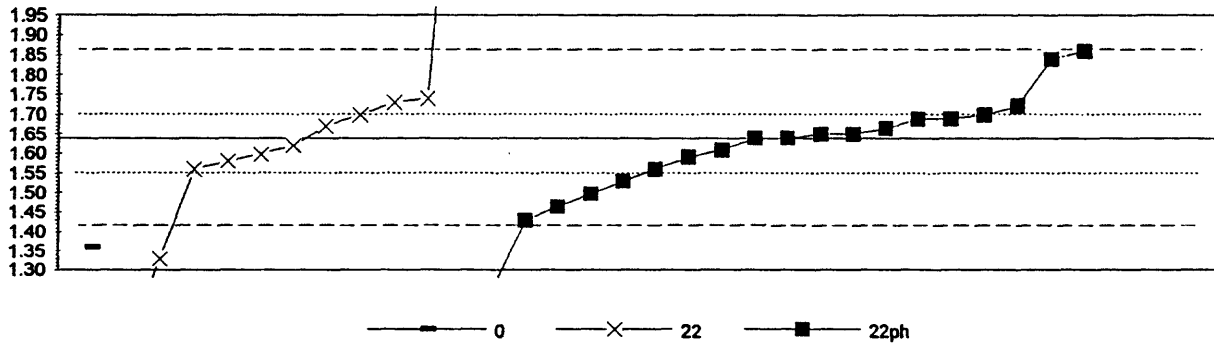
MPV = 1.25
 F-pseudostigma = 0.073
 N = 85
 Hu = 1.30
 HI = 1.20

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 40 |
|-----|--------|---------|------|------|------|------|------|----|
| 3 | 0 | -3.41 | | | 1.00 | | | |
| 5 | 4 | -0.27 | | | | | 1.23 | |
| 9 | 3 | 0.68 | | | | 1.30 | | |
| 10 | 4 | -0.14 | | | | 1.24 | | |
| 11 | 4 | -0.27 | | | 1.23 | | | |
| 12 | 4 | 0.27 | | | | 1.27 | | |
| 13 | 4 | -0.14 | | | | 1.24 | | |
| 15 | 0 | -4.88 | | | 0.89 | | | |
| 16 | 0 | 8.97 | | | 1.91 | | | |
| 18 | 2 | -1.50 | | | | 1.14 | | |
| 19 | 4 | -0.41 | | | | 1.22 | | |
| 23 | 4 | 0.14 | | | | 1.26 | | |
| 25 | 4 | -0.41 | | 1.22 | | | | |
| 26 | 4 | 0.41 | | 1.28 | | | | |
| 29 | 3 | 0.82 | | 1.31 | | | | |
| 32 | 1 | -1.64 | | 1.13 | | | | |
| 33 | 3 | 0.68 | | 1.30 | | | | |
| 36 | 3 | 0.82 | | | 1.31 | | | |
| 37 | 4 | -0.41 | | 1.22 | | | | |
| 38 | 3 | 0.99 | | | | 1.32 | | |
| 42 | 3 | 0.59 | | 1.29 | | | | |
| 45 | 2 | 1.36 | | | | 1.35 | | |
| 46 | 4 | -0.41 | | | | 1.22 | | |
| 52 | 4 | 0.00 | | | | 1.25 | | |
| 53 | 2 | 1.49 | | | | 1.36 | | |
| 55 | 3 | 0.55 | | | | 1.29 | | |
| 57 | 0 | -2.18 | | | 1.09 | | | |
| 58 | 2 | 1.36 | | 1.35 | | | | |
| 59 | 4 | 0.41 | | | | 1.28 | | |
| 60 | 2 | -1.50 | | | | 1.14 | | |
| 63 | 3 | -0.55 | | | | 1.21 | | |
| 68 | 3 | -0.95 | 1.18 | | | | | |
| 69 | 4 | 0.14 | | | | 1.26 | | |
| 70 | 0 | -2.18 | | | | 1.09 | | |
| 72 | 4 | 0.14 | | | | 1.26 | | |
| 76 | 3 | -0.95 | | 1.18 | | | | |
| 78 | 4 | -0.41 | | | | 1.22 | | |
| 80 | 2 | 1.36 | | | | 1.35 | | |
| 81 | 4 | 0.00 | | | | 1.25 | | |
| 83 | 0 | -2.86 | | | | 1.04 | | |
| 84 | 4 | -0.41 | | | 1.22 | | | |
| 85 | 4 | 0.14 | | | | 1.26 | | |
| 87 | 3 | 0.95 | | | | 1.32 | | |
| 88 | 0 | 22.21 | | | | 2.88 | | |
| 89 | 4 | -0.27 | | | | 1.23 | | |
| 90 | 4 | 0.14 | | | | | 1.26 | |
| 91 | 0 | -2.32 | | | | | 1.08 | |
| 94 | 3 | -0.55 | | | | 1.21 | | |
| 96 | 4 | 0.41 | | | | | 1.28 | |
| 97 | 2 | 1.50 | | | | 1.36 | | |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 40 |
|-----|--------|---------|------|------|------|------|------|------|
| 102 | 3 | -0.68 | 1.20 | | | | | |
| 104 | 3 | -0.67 | | | | | 1.20 | |
| 112 | 0 | -16.68 | | 0.03 | | | | |
| 117 | 1 | 1.91 | | | | | 1.39 | |
| 118 | 4 | -0.27 | | | | | | 1.23 |
| 119 | 3 | 0.68 | 1.30 | | | | | |
| 120 | 3 | -0.55 | | | | | 1.21 | |
| 122 | 4 | -0.46 | | | | | 1.22 | |
| 127 | 4 | 0.14 | | 1.26 | | | | |
| 128 | 4 | -0.30 | | | | | | 1.23 |
| 129 | 4 | -0.37 | | 1.22 | | | | |
| 133 | 0 | 3.13 | | | | | 1.48 | |
| 134 | 4 | 0.00 | | | | | 1.25 | |
| 136 | 4 | 0.00 | | | | | 1.25 | |
| 138 | 2 | -1.36 | | | | | 1.15 | |
| 142 | 3 | 0.55 | | | 1.29 | | | |
| 145 | 3 | -0.68 | | | | | 1.20 | |
| 146 | 0 | 5.59 | 1.66 | | | | | |
| 149 | 0 | -2.45 | | 1.07 | | | | |
| 180 | 4 | -0.41 | | | | | 1.22 | |
| 183 | 0 | -3.43 | | | | | | 1.00 |
| 191 | 3 | -0.55 | | 1.21 | | | | |
| 193 | 3 | -0.95 | | 1.18 | | | | |
| 196 | 3 | 0.71 | | 1.30 | | | | |
| 197 | 0 | 4.22 | | | 1.56 | | | |
| 198 | 3 | 0.68 | 1.30 | | | | | |
| 200 | 1 | -2.04 | 1.10 | | | | | |
| 202 | 2 | -1.09 | | | | | 1.17 | |
| 205 | 4 | 0.41 | | | | | 1.28 | |
| 208 | 4 | 0.16 | | 1.26 | | | | |
| 211 | 3 | 0.82 | | | | | | 1.31 |
| 212 | 3 | 0.68 | 1.30 | | | | | |
| 215 | 4 | 0.41 | | | | | 1.28 | |
| 220 | 4 | 0.00 | | | 1.25 | | | |
| 221 | 2 | -1.02 | | | 1.18 | | | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (preserved nutrient)
—Continued

total P as P (total Phosphorus) mg/L



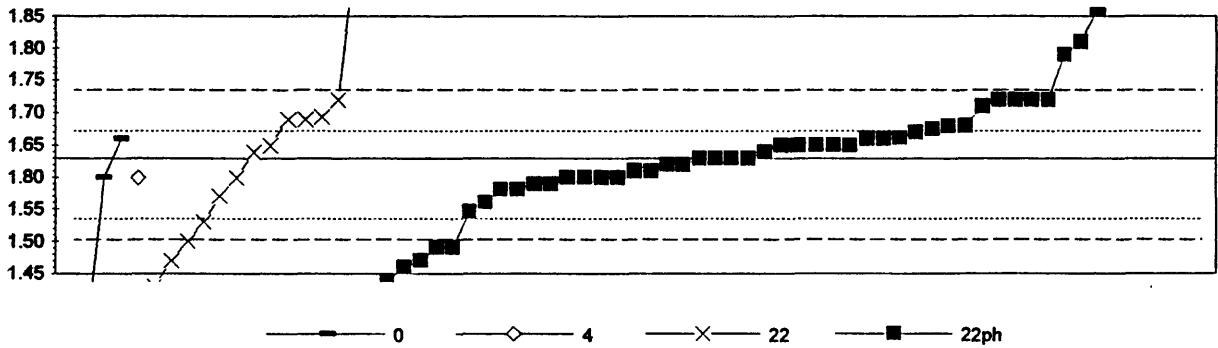
| | | | |
|------------------------------|-------|-------|------|
| 0. Other | | | |
| 22. Colorimetric | | | |
| 22ph. Color:phosphomolybdate | | | |
| N = | 1 | 12 | 19 |
| Minimum = | 1.36 | 0.00 | 1.25 |
| Maximum = | 2.75 | 1.86 | |
| Median = | 1.61 | 1.64 | |
| St Dev = | 0.125 | 0.114 | |

MPV = 1.64
F-pseudostigma = 0.111
N = 31
Hu = 1.70
HI = 1.55

| Lab | Rating | Z-value | 0 | 22 | 22ph |
|-----|--------|---------|------|------|------|
| 1 | 4 | 0.22 | | | 1.66 |
| 7 | 3 | 0.81 | 1.73 | | |
| 11 | 0 | -2.79 | 1.33 | | |
| 15 | 4 | -0.18 | 1.62 | | |
| 36 | 3 | -0.54 | 1.58 | | |
| 42 | 0 | -3.51 | | | 1.25 |
| 45 | 4 | -0.27 | | | 1.61 |
| 48 | 3 | 0.54 | | | 1.70 |
| 52 | 4 | 0.27 | 1.67 | | |
| 60 | 1 | 1.80 | | | 1.84 |
| 61 | 0 | -4.95 | 1.09 | | |
| 63 | 3 | 0.54 | 1.70 | | |
| 75 | 4 | 0.00 | | | 1.64 |
| 78 | 3 | -0.99 | | | 1.53 |
| 89 | 3 | 0.72 | | | 1.72 |
| 90 | 1 | 1.98 | | | 1.86 |
| 105 | 4 | -0.36 | 1.60 | | |
| 108 | 0 | 9.98 | 2.75 | | |
| 114 | 3 | -0.72 | | | 1.56 |
| 117 | 4 | 0.45 | | | 1.69 |
| 118 | 4 | 0.09 | | | 1.65 |
| 119 | 4 | 0.09 | | | 1.65 |
| 122 | 1 | -1.58 | | | 1.46 |
| 129 | 2 | -1.28 | | | 1.50 |
| 134 | 4 | 0.45 | | | 1.69 |
| 140 | 3 | -0.72 | 1.56 | | |
| 141 | 4 | -0.45 | | | 1.59 |
| 145 | 4 | 0.00 | | | 1.64 |
| 154 | 1 | -1.89 | | | 1.43 |
| 179 | 0 | -2.52 | 1.36 | 0 | |
| 220 | 3 | 0.90 | | 1.74 | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (nonpreserved nutrient)
 —Continued

total P as P (total Phosphorus) mg/L



| | | | | |
|-----------------------|------------------------------|-------|-------|------|
| 0. Other | 22ph. Color:phosphomolybdate | | | |
| 4. ICP | | | | |
| 20h: Titrate: mercury | | | | |
| N = | 4 | 1 | 14 | 46 |
| Minimum = | 1.25 | 1.60 | 1.43 | 1.44 |
| Maximum = | 1.66 | | 2.10 | 1.98 |
| Median = | 1.49 | | 1.65 | 1.64 |
| St Dev = | | 0.098 | 0.079 | |

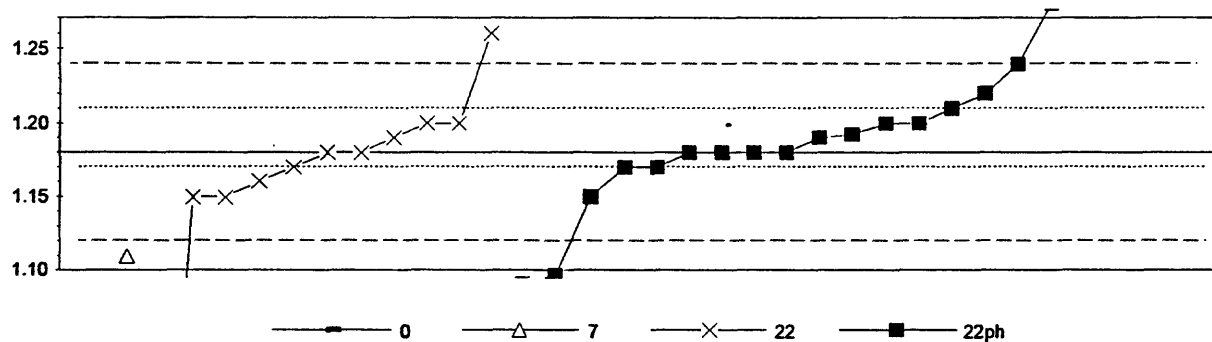
MPV = 1.63
 F-pseudosigma = 0.067
 N = 65
 Hu = 1.68
 Hl = 1.59

| Lab | Rating | Z-value | 0 | 4 | 22 | 22ph |
|-----|--------|---------|---|------|------|------|
| 3 | 3 | 0.90 | | | 1.69 | |
| 5 | 0 | 2.40 | | | | 1.79 |
| 9 | 0 | -2.55 | | | | 1.46 |
| 10 | 4 | 0.00 | | | | 1.63 |
| 11 | 0 | -2.40 | | | 1.47 | |
| 12 | 4 | 0.30 | | | | 1.65 |
| 13 | 0 | 4.80 | | | | 1.95 |
| 15 | 4 | 0.15 | | | 1.64 | |
| 18 | 4 | -0.15 | | | | 1.62 |
| 19 | 3 | -0.60 | | | | 1.59 |
| 22 | 3 | 0.94 | | | 1.69 | |
| 23 | 4 | 0.00 | | | | 1.63 |
| 25 | 4 | -0.45 | | 1.80 | | |
| 36 | 3 | -0.90 | | | 1.57 | |
| 37 | 3 | 0.90 | | | 1.69 | |
| 38 | 4 | -0.45 | | | | 1.60 |
| 45 | 4 | 0.30 | | | | 1.65 |
| 46 | 4 | -0.30 | | | | 1.61 |
| 52 | 4 | 0.30 | | | 1.65 | |
| 55 | 4 | -0.15 | | | | 1.62 |
| 57 | 0 | 7.04 | | | 2.10 | |
| 59 | 4 | -0.45 | | | | 1.60 |
| 60 | 0 | 3.45 | | | | 1.86 |
| 63 | 4 | -0.45 | | | 1.60 | |
| 70 | 0 | -2.10 | | | | 1.49 |
| 72 | 1 | -1.95 | | | 1.50 | |
| 78 | 0 | 2.70 | | | | 1.81 |
| 79 | 4 | -0.45 | | | | 1.60 |
| 81 | 0 | 4.80 | | | 1.95 | |
| 85 | 3 | -0.75 | | | | 1.58 |
| 87 | 2 | 1.35 | | | | 1.72 |
| 89 | 4 | 0.30 | | | | 1.65 |
| 91 | 3 | 0.75 | | | | 1.68 |
| 94 | 4 | 0.45 | | | | 1.66 |
| 96 | 4 | 0.30 | | | | 1.65 |
| 102 | 4 | 0.15 | | | | 1.64 |
| 111 | 0 | 5.25 | | | | 1.98 |
| 114 | 3 | -0.75 | | | | 1.58 |
| 117 | 0 | -2.40 | | | | 1.47 |
| 118 | 4 | 0.00 | | | | 1.63 |
| 119 | 4 | 0.30 | | | | 1.65 |
| 120 | 4 | 0.45 | | | | 1.66 |
| 122 | 0 | -2.88 | | | | 1.44 |
| 127 | 4 | 0.00 | | | | 1.63 |
| 128 | 2 | -1.26 | | | | 1.55 |
| 129 | 3 | 0.67 | | | | 1.68 |
| 133 | 2 | 1.20 | | | | 1.71 |
| 134 | 3 | 0.75 | | | | 1.68 |
| 136 | 4 | 0.46 | | | | 1.66 |
| 138 | 3 | -0.60 | | | | 1.59 |

| Lab | Rating | Z-value | 0 | 4 | 22 | 22ph |
|-----|--------|---------|------|---|------|------|
| 142 | 0 | -3.00 | | | | 1.43 |
| 145 | 3 | 0.60 | | | | 1.67 |
| 149 | 2 | -1.50 | | | 1.53 | |
| 179 | 0 | -3.75 | 1.38 | | | |
| 180 | 4 | -0.30 | | | | 1.61 |
| 182 | 2 | 1.35 | | | | 1.72 |
| 183 | 0 | -2.10 | | | | 1.49 |
| 198 | 0 | -5.70 | 1.25 | | | |
| 200 | 4 | 0.45 | 1.66 | | | |
| 202 | 2 | -1.05 | | | | 1.56 |
| 211 | 4 | -0.45 | | | | 1.60 |
| 212 | 4 | -0.45 | 1.60 | | | |
| 213 | 2 | 1.35 | | | | 1.72 |
| 220 | 2 | 1.35 | | | 1.72 | |
| 221 | 2 | 1.35 | | | | 1.72 |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (preserved nutrient)
 —Continued

PO₄ as P (Orthophosphate) mg/L



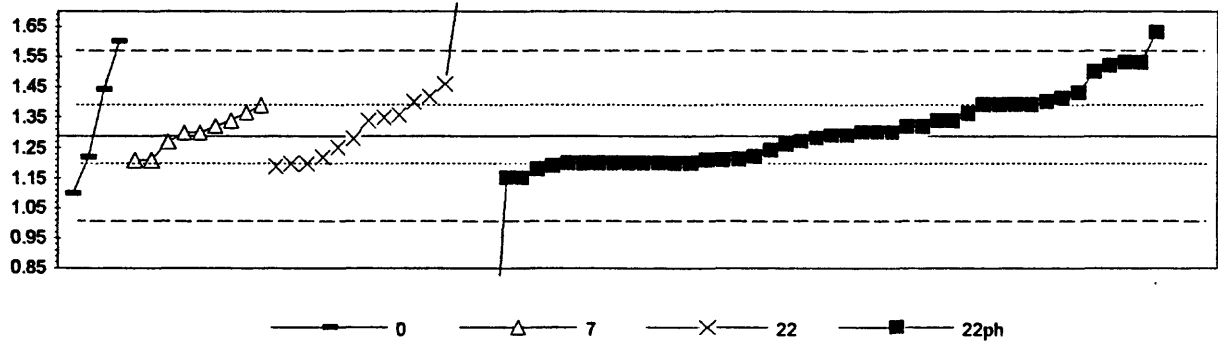
| | 22ph. Color:phosphomolybdate | | | |
|-----------------------|------------------------------|------|-------|-------|
| 0. Other | | | | |
| 7. Ion chromatography | | | | |
| 22. Colorimetric | | | | |
| N = | 1 | 1 | 11 | 19 |
| Minimum = | 1.42 | 1.11 | 0.84 | 1.09 |
| Maximum = | | | 1.26 | 1.30 |
| Median = | | | 1.18 | 1.19 |
| St Dev = | | | 0.032 | 0.033 |

MPV = 1.18
 F-pseudosigma = 0.030
 N = 32
 Hu = 1.21
 Hi = 1.17

| Lab | Rating | Z-value | 0 | 7 | 22 | 22ph |
|-----|--------|---------|------|------|------|------|
| 1 | 4 | 0.00 | | | | 1.18 |
| 11 | 3 | -0.67 | | | 1.16 | |
| 15 | 4 | 0.00 | | | 1.18 | |
| 29 | 0 | -2.36 | | 1.11 | | |
| 36 | 4 | 0.34 | | | 1.19 | |
| 42 | 4 | 0.40 | | | | 1.19 |
| 45 | 2 | 1.01 | | | | 1.21 |
| 48 | 4 | -0.34 | | | | 1.17 |
| 52 | 4 | -0.34 | | | 1.17 | |
| 60 | 0 | 3.71 | | | | 1.29 |
| 61 | 0 | -11.47 | | | 0.84 | |
| 63 | 3 | 0.67 | | | 1.20 | |
| 75 | 3 | 0.67 | | | | 1.20 |
| 78 | 0 | -3.04 | | | | 1.09 |
| 88 | 1 | 2.02 | | | | 1.24 |
| 89 | 4 | 0.00 | | | | 1.18 |
| 90 | 4 | 0.00 | | | | 1.18 |
| 97 | 3 | 0.67 | | | 1.20 | |
| 105 | 2 | -1.01 | | | 1.15 | |
| 108 | 2 | -1.01 | | | 1.15 | |
| 117 | 0 | 4.05 | | | | 1.30 |
| 118 | 3 | 0.67 | | | | 1.20 |
| 119 | 2 | -1.01 | | | | 1.15 |
| 122 | 4 | 0.00 | | | | 1.18 |
| 129 | 4 | -0.34 | | | | 1.17 |
| 134 | 4 | 0.34 | | | | 1.19 |
| 140 | 4 | 0.00 | | | 1.18 | |
| 141 | 2 | 1.35 | | | | 1.22 |
| 145 | 0 | 3.37 | | | | 1.28 |
| 154 | 0 | -2.83 | | | | 1.10 |
| 179 | 0 | | 8.09 | 1.42 | | |
| 220 | 0 | 2.70 | | | 1.26 | |

Table 16. —Statistical summary of reported data for standard reference water sample N-41 (nonpreserved nutrient)
 —Continued

PO₄ as P (Orthophosphate) mg/L



| 0. Other | 22ph. Color:phosphomolybdate | | | |
|-----------------------|------------------------------|-------|-------|------|
| 7. Ion chromatography | | | | |
| 22. Colorimetric | | | | |
| N = | 4 | 9 | 13 | 45 |
| Minimum = | 1.10 | 1.21 | 1.19 | 0.08 |
| Maximum = | 1.60 | 1.39 | 1.83 | 1.63 |
| Median = | 1.33 | 1.30 | 1.34 | 1.28 |
| St Dev = | 0.063 | 0.095 | 0.118 | |

MPV = 1.29
 F-pseudosigma = 0.141
 N = 71
 Hu = 1.39
 Hl = 1.20

| Lab | Rating | Z-value | 0 | 7 | 22 | 22ph |
|-----|--------|---------|---|------|------|------|
| 3 | 4 | -0.50 | | | 1.22 | |
| 5 | 3 | 0.71 | | | | 1.39 |
| 9 | 4 | 0.07 | | | | 1.30 |
| 10 | 3 | -0.78 | | | | 1.18 |
| 11 | 3 | 0.92 | | | 1.42 | |
| 12 | 3 | 0.71 | | | | 1.39 |
| 13 | 3 | -0.57 | | | | 1.21 |
| 15 | 3 | -0.71 | | | 1.19 | |
| 18 | 4 | 0.07 | | | | 1.30 |
| 19 | 3 | -0.99 | | | | 1.15 |
| 25 | 0 | -6.13 | | | | 0.43 |
| 26 | 4 | 0.36 | | 1.34 | | |
| 29 | 4 | 0.07 | | 1.30 | | |
| 32 | 3 | 0.71 | | 1.39 | | |
| 33 | 3 | -0.57 | | 1.21 | | |
| 36 | 4 | 0.36 | | | 1.34 | |
| 37 | 3 | -0.57 | | 1.21 | | |
| 38 | 3 | -0.65 | | | | 1.20 |
| 45 | 1 | 1.63 | | | | 1.52 |
| 46 | 4 | 0.07 | | | | 1.30 |
| 52 | 4 | 0.43 | | | 1.35 | |
| 53 | 4 | 0.50 | | | | 1.36 |
| 55 | 3 | -0.64 | | | | 1.20 |
| 57 | 0 | 3.83 | | | 1.83 | |
| 58 | 1 | 1.70 | | | | 1.53 |
| 59 | 3 | -0.64 | | | | 1.20 |
| 60 | 2 | 1.49 | | | | 1.50 |
| 63 | 3 | -0.64 | | | 1.20 | |
| 70 | 3 | 0.78 | | | | 1.40 |
| 72 | 3 | 0.78 | | | | 1.40 |
| 78 | 4 | -0.07 | | | | 1.28 |
| 80 | 4 | 0.50 | | | 1.36 | |
| 81 | 2 | 1.21 | | | 1.46 | |
| 83 | 4 | 0.21 | | | | 1.32 |
| 85 | 3 | -0.64 | | | | 1.20 |
| 87 | 3 | -0.71 | | | | 1.19 |
| 88 | 4 | -0.21 | | | | 1.26 |
| 89 | 3 | -0.64 | | | | 1.20 |
| 96 | 4 | 0.00 | | | | 1.29 |
| 97 | 3 | -0.64 | | | 1.20 | |
| 102 | 3 | -0.99 | | | | 1.15 |
| 111 | 4 | 0.21 | | | | 1.32 |
| 117 | 3 | 0.99 | | | | 1.43 |
| 118 | 4 | -0.50 | | | | 1.22 |
| 119 | 3 | -0.64 | | | | 1.20 |
| 120 | 4 | 0.00 | | | | 1.29 |
| 122 | 3 | 0.71 | | | | 1.39 |
| 127 | 4 | -0.14 | | 1.27 | | |
| 128 | 4 | 0.33 | | | | 1.34 |
| 129 | 4 | 0.33 | | | | 1.34 |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22ph |
|-----|--------|---------|------|------|------|------|
| 133 | 0 | 2.41 | | | | 1.63 |
| 134 | 3 | -0.64 | | | | 1.20 |
| 136 | 3 | -0.56 | | | | 1.21 |
| 138 | 3 | -0.64 | | | | 1.20 |
| 142 | 4 | -0.07 | | | 1.28 | |
| 145 | 4 | -0.14 | | | | 1.27 |
| 146 | 4 | -0.50 | 1.22 | | | |
| 179 | 2 | 1.07 | 1.44 | | | |
| 180 | 3 | -0.57 | | | | 1.21 |
| 182 | 0 | -8.59 | | | | 0.08 |
| 183 | 4 | -0.36 | | | | 1.24 |
| 191 | 4 | 0.07 | | 1.30 | | |
| 196 | 4 | 0.23 | | 1.32 | | |
| 197 | 3 | 0.54 | | 1.37 | | |
| 198 | 2 | -1.35 | 1.10 | | | |
| 202 | 3 | -0.64 | | | | 1.20 |
| 211 | 1 | 1.70 | | | | 1.53 |
| 212 | 0 | 2.20 | 1.60 | | | |
| 213 | 3 | 0.85 | | | | 1.41 |
| 220 | 4 | -0.28 | | | 1.25 | |
| 221 | 3 | 0.71 | | | | 1.39 |

Table 17. —Statistical summary of reported data for standard reference sample P-21 (low ionic strength)

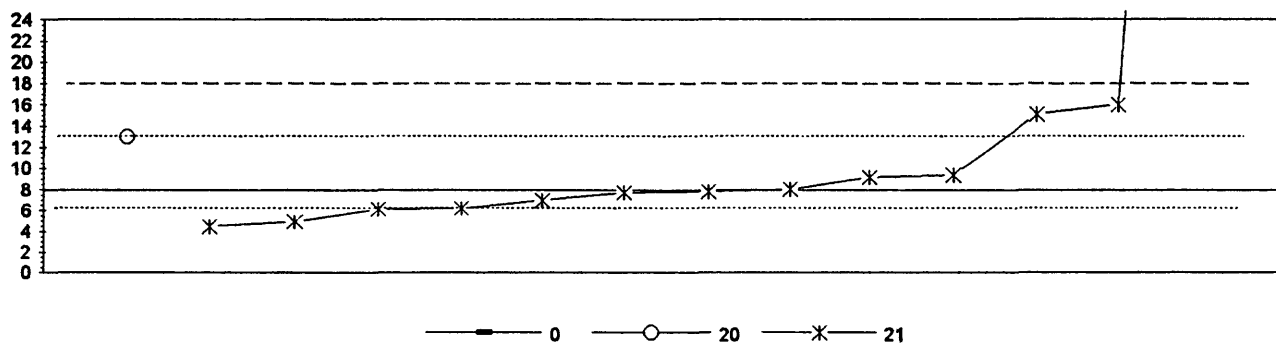
| Definition of analytical methods, abbreviations, and symbols | | |
|--|---|---|
| <u>Analytical methods</u> | | |
| 0. Other/Not reported | | |
| 1. AA: direct, air | = | atomic absorption: direct,air |
| 2. AA: direct, N2O | = | atomic absorption: direct,nitrous oxide |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct current plasma |
| 6. ICP/MS | = | mass spectrometry/inductively coupled plasma |
| 7. IC | = | ion chromatography |
| 20. Titrate: color | = | titration: colorimetric [color reagent specified] |
| 21. Titrate: electro | = | titration: electrometric |
| 22. Color: | = | colorimetric [color reagent specified] |
| 40. Selective ion electrode | | |
| 41. Electro | = | electrometric: [type meter specified] |
| 50. Gravimetric | = | gravimetric: [precipitate specified] |
| 51. Turbidimetric | = | turbidimetric [suspension specified] |

Abbreviations and symbols

| | | |
|---------------|---|---|
| N | = | number of samples |
| SI dev | = | traditional standard deviation |
| MPV | = | 95% confidence most probable value |
| F-pseudosigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| m g/L | = | milligrams per liter |
| μ S/cm | = | microsiemens per centimeter at 25 degrees C |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| <u>Constituent</u> | <u>page</u> | |
|--------------------|------------------------------|-----|
| Acid | Acidity as CaCO3 | 109 |
| Ca | Calcium | 110 |
| Cl | Chloride | 111 |
| F | Fluoride | 112 |
| K | Potassium | 113 |
| Mg | Magnesium | 114 |
| Na | Sodium | 115 |
| pH | | 116 |
| PO4 as P | Orthophosphate as Phosphorus | 117 |
| SO4 | Sulfate | 118 |
| Sp Cond | Specific Conductance | 119 |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Acid as CaCO₃ (Acidity) mg/L

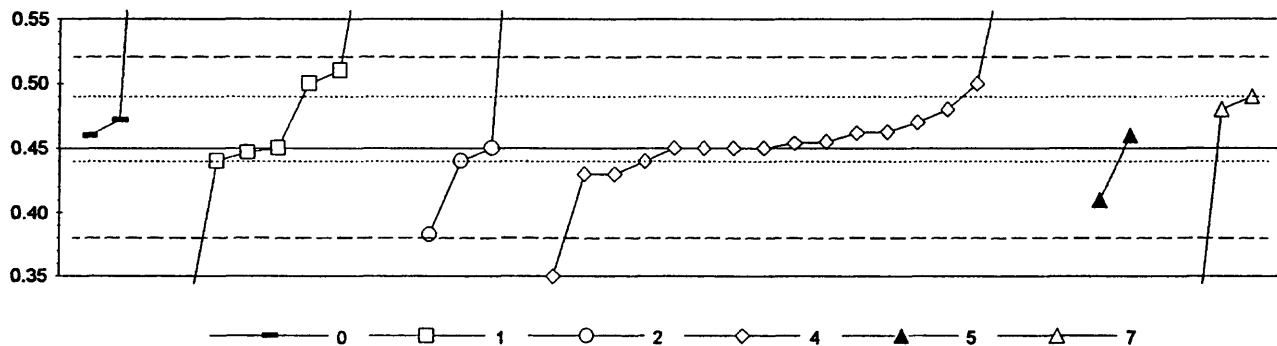


| | | |
|----------------------------|-------|--------|
| 0. Other | | |
| 20. Titrate: colorimetric | | |
| 21. Titrate: electrometric | | |
| N = | 1 | 13 |
| Minimum = | 13.00 | 4.50 |
| Maximum = | | 116.40 |
| Median = | | 7.82 |
| St Dev = | | 3.618 |

MPV = 7.93
 F-pseudostigma = 5.019
 N = 14
 Hu = 13.00
 HI = 6.23

| Lab | Rating | Z-value | 0 | 20 | 21 |
|-----|--------|---------|-------|----|--------|
| 1 | 4 | -0.34 | | | 6.23 |
| 2 | 3 | -0.60 | | | 4.92 |
| 3 | 2 | 1.43 | | | 15.10 |
| 5 | NR | | | | < 4.5 |
| 15 | 2 | 1.01 | 13.00 | | |
| 32 | 4 | -0.35 | | | 6.17 |
| 36 | 4 | 0.02 | | | 8.03 |
| 52 | 4 | -0.05 | | | 7.68 |
| 61 | 3 | -0.68 | | | 4.50 |
| 63 | NR | | | | < 1 |
| 78 | NR | | | | < 1 |
| 89 | 4 | -0.02 | | | 7.82 |
| 105 | 4 | 0.29 | | | 9.40 |
| 127 | 4 | 0.24 | | | 9.13 |
| 141 | 1 | 1.61 | | | 16.00 |
| 145 | 4 | -0.18 | | | 7.00 |
| 158 | 0 | 21.61 | | | 116.40 |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Ca (Calcium) mg/L

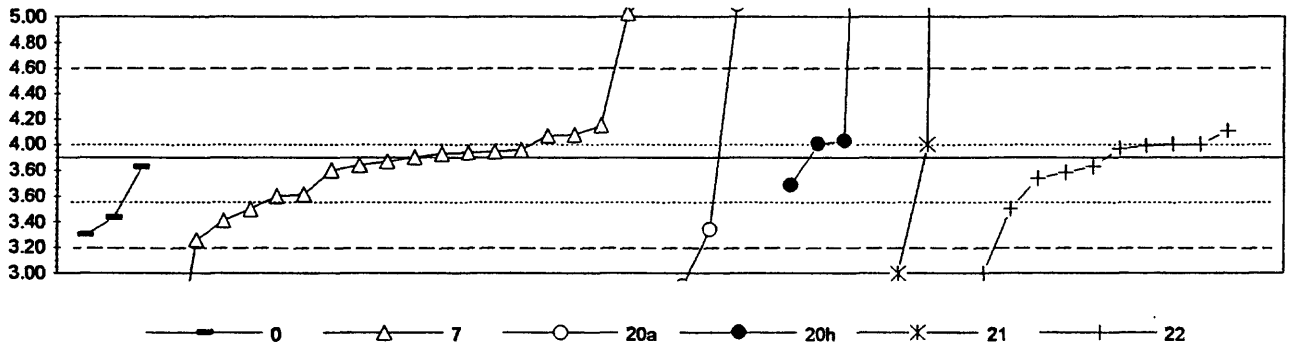


| | |
|-----------------------------|---------------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 5. DCP |
| 2. AA: direct nitrous oxide | 7. Ion chromatography |
| N = 3 | 9 4 17 2 4 |
| Minimum = 0.46 | 0.00 0.38 0.35 0.41 0.13 |
| Maximum = 0.92 | 7.30 0.80 10.95 0.46 0.49 |
| Median = 0.47 | 0.45 0.45 0.45 0.45 0.37 |
| St Dev = 0.0755 | 0.0328 |

MPV = 0.45
 F-pseudostigma = 0.037
 N = 38
 Hu = 0.49
 HI = 0.44

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 7 |
|-----|--------|---------|------|------|------|-------|------|------|
| 1 | 4 | -0.12 | | | | 0.45 | | |
| 3 | 4 | -0.12 | | | | 0.45 | | |
| 5 | 4 | -0.13 | | | | 0.45 | | |
| 8 | 4 | -0.12 | | | | 0.45 | | |
| 15 | 3 | -0.66 | | | | 0.43 | | |
| 23 | 0 | 5.27 | | 0.65 | | | | |
| 26 | 3 | 0.69 | | | | | | 0.48 |
| 33 | 4 | 0.15 | | | | 0.46 | | |
| 36 | 1 | -1.93 | | | 0.38 | | | |
| 38 | 4 | -0.39 | | | 0.44 | | | |
| 39 | 4 | 0.47 | 0.47 | | | | | |
| 44 | 4 | -0.12 | | 0.45 | | | | |
| 46 | 4 | 0.23 | | | | 0.46 | | |
| 48 | 2 | 1.23 | | | | 0.50 | | |
| 52 | NR | | | | | < 0.6 | | |
| 58 | 4 | -0.20 | | 0.45 | | | | |
| 61 | 4 | -0.01 | | | | 0.45 | | |
| 63 | 0 | 4.20 | | | | 0.61 | | |
| 64 | 4 | -0.39 | | | | 0.44 | | |
| 78 | 2 | 1.50 | | 0.51 | | | | |
| 89 | 0 | -4.20 | | 0.30 | | | | |
| 93 | 0 | 283.17 | | | | 10.95 | | |
| 105 | 4 | 0.42 | | | | 0.47 | | |
| 112 | 2 | -1.20 | | | | | 0.41 | |
| 117 | 0 | 184.69 | | 7.30 | | | | |
| 127 | 4 | 0.20 | | | | 0.46 | | |
| 134 | 4 | 0.01 | | | | 0.46 | | |
| 136 | 0 | 12.56 | 0.92 | | | | | |
| 138 | 3 | 0.96 | | | | | | 0.49 |
| 140 | 2 | 1.23 | | 0.50 | | | | |
| 141 | 3 | 0.69 | | | | 0.48 | | |
| 145 | 3 | -0.66 | | | | 0.43 | | |
| 158 | 0 | -8.76 | | | | | | 0.13 |
| 182 | 0 | 9.32 | | | 0.80 | | | |
| 185 | 4 | -0.12 | | | 0.45 | | | |
| 190 | 0 | -5.25 | | | | | | 0.26 |
| 196 | 4 | -0.39 | | 0.44 | | | | |
| 204 | 0 | -2.82 | | | | 0.35 | | |
| 212 | 4 | 0.15 | 0.46 | | | | | |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Cl (Chloride) mg/L

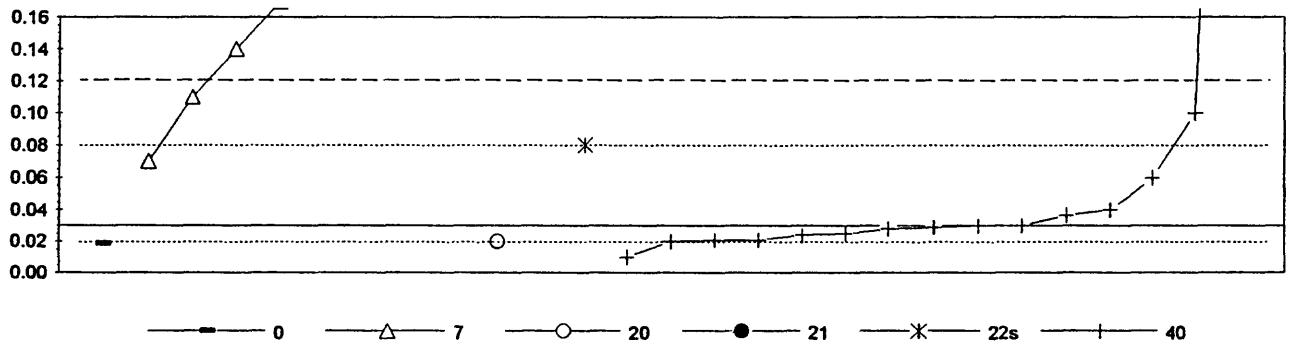


| | | | | | | |
|-----------------------|----------------------------|--------|------|-------|-------|--------|
| 0. Other | 20h: Titrate: mercury | | | | | |
| 7. Ion chromatography | 21. Titrate: electrometric | | | | | |
| 20a: Titrate: silver | 22. Colorimetric | | | | | |
| N = | 3 | 19 | 4 | 4 | 3 | 10 |
| Minimum = | 3.30 | 1.98 | 2.90 | 3.68 | 3.00 | 3.00 |
| Maximum = | 3.83 | 5.21 | 8.40 | 10.00 | 64.00 | 4.11 |
| Median = | 3.43 | 3.90 | 4.22 | 4.02 | 4.00 | 3.90 |
| St Dev = | | 0.2558 | | | | 0.3293 |

MPV = 3.90
 F-pseudosigma = 0.345
 N = 43
 Hu = 4.02
 HI = 3.55

| Lab | Rating | Z-value | 0 | 7 | 20a | 20h | 21 | 22 |
|-----|--------|---------|------|------|------|-------|-------|------|
| 112 | 0 | -5.56 | | 1.98 | | | | |
| 203 | 0 | -2.90 | | | 2.90 | | | |
| 61 | 0 | -2.61 | | | | | 3.00 | |
| 141 | 0 | -2.61 | | | | | | 3.00 |
| 7 | 1 | -1.85 | | 3.26 | | | | |
| 212 | 1 | -1.74 | 3.30 | | | | | |
| 117 | 1 | -1.62 | | | 3.34 | | | |
| 44 | 2 | -1.42 | | 3.41 | | | | |
| 23 | 2 | -1.36 | 3.43 | | | | | |
| 15 | 2 | -1.16 | | 3.50 | | | | |
| 78 | 2 | -1.16 | | | | | | 3.50 |
| 197 | 3 | -0.87 | | 3.60 | | | | |
| 138 | 3 | -0.84 | | 3.61 | | | | |
| 89 | 3 | -0.64 | | | | 3.68 | | |
| 127 | 4 | -0.46 | | | | | | 3.74 |
| 140 | 4 | -0.35 | | | | | | 3.78 |
| 8 | 4 | -0.29 | | 3.80 | | | | |
| 110 | 4 | -0.22 | 3.83 | | | | | |
| 3 | 4 | -0.20 | | | | | | 3.83 |
| 32 | 4 | -0.17 | | 3.84 | | | | |
| 64 | 4 | -0.09 | | 3.87 | | | | |
| 26 | 4 | 0.00 | | 3.90 | | | | |
| 145 | 4 | 0.09 | | 3.93 | | | | |
| 105 | 4 | 0.12 | | 3.94 | | | | |
| 185 | 4 | 0.12 | | 3.94 | | | | |
| 33 | 4 | 0.17 | | 3.98 | | | | |
| 36 | 4 | 0.20 | | | | | | 3.97 |
| 52 | 4 | 0.26 | | | | | | 3.99 |
| 48 | 4 | 0.29 | | | | 4.00 | | |
| 63 | 4 | 0.29 | | | | | | 4.00 |
| 204 | 4 | 0.29 | | | | | 4.00 | |
| 46 | 4 | 0.29 | | | | | | 4.00 |
| 58 | 4 | 0.38 | | | | 4.03 | | |
| 196 | 4 | 0.50 | | 4.07 | | | | |
| 93 | 3 | 0.52 | | 4.08 | | | | |
| 1 | 3 | 0.61 | | | | | | 4.11 |
| 134 | 3 | 0.72 | | 4.15 | | | | |
| 5 | 0 | 3.27 | | 5.03 | | | | |
| 183 | 0 | 3.46 | | | 5.10 | | | |
| 158 | 0 | 3.80 | | 5.21 | | | | |
| 107 | 0 | 13.04 | | | 8.40 | | | |
| 182 | 0 | 17.68 | | | | 10.00 | | |
| 39 | 0 | 174.17 | | | | | 64.00 | |

**Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
F (Fluoride) mg/L**

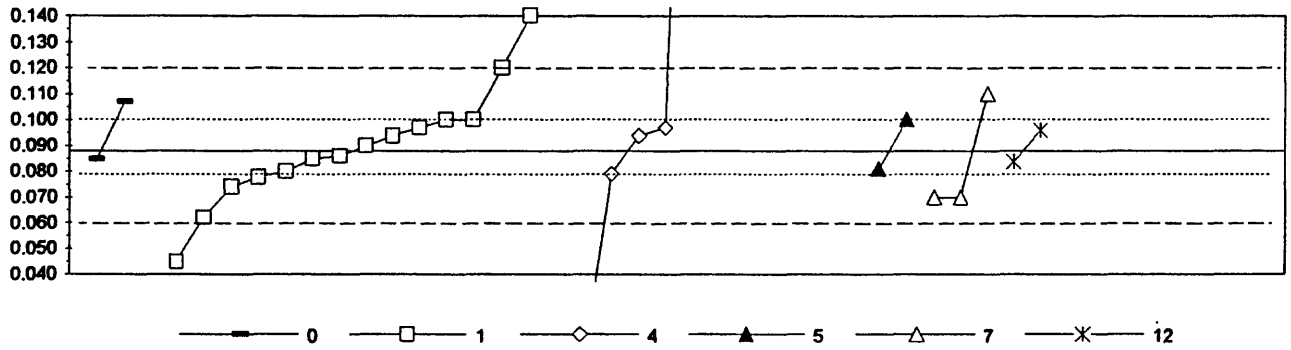


| | | | | | |
|---------------------------|-----------------------------|------|------|------|-------|
| 0. Other | 21. Titrate: electrometric | | | | |
| 7. Ion chromatography | 22s. Color: SPADNS | | | | |
| 20. Titrate: colorimetric | 40. selective ion electrode | | | | |
| N = 1 | 4 | 1 | < | 1 | 15 |
| Minimum = 0.02 | 0.07 | 0.02 | 0.08 | 0.01 | 0.01 |
| Maximum = | 0.17 | | | | 0.71 |
| Median = | 0.13 | | | | 0.03 |
| St Dev = | | | | | 0.022 |

MPV = 0.03
 F-pseudostigma = 0.044
 N = 22
 Hu = 0.08
 HI = 0.02

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22s | 40 |
|-----|--------|---------|------|--------|------|-------|------|--------|
| 1 | 0 | 2.52 | | 0.14 | | | | |
| 3 | 4 | -0.21 | | | | | | 0.02 |
| 7 | NR | | | < 0.5 | | | | |
| 8 | NR | | | | | | | < 0.05 |
| 15 | 4 | -0.05 | | | | | | 0.03 |
| 23 | 4 | 0.00 | | | | | | 0.03 |
| 26 | 3 | 0.91 | | 0.07 | | | | |
| 32 | NR | | | < 0.02 | | | | |
| 33 | 1 | 1.83 | | 0.11 | | | | |
| 36 | 4 | -0.23 | | | 0.02 | | | |
| 39 | 0 | 15.64 | | | | | | 0.71 |
| 46 | 4 | -0.46 | | | | | | 0.01 |
| 52 | NR | | | | | | | < 0.05 |
| 58 | 4 | -0.02 | | | | | | 0.03 |
| 61 | 4 | -0.23 | | | | | | 0.02 |
| 63 | NR | | | | | | | < 0.2 |
| 78 | 3 | 0.69 | | | | | | 0.06 |
| 89 | 4 | 0.00 | | | | | | 0.03 |
| 93 | 4 | -0.21 | | | | | | 0.02 |
| 105 | NR | | | < 0.2 | | | | |
| 107 | 4 | -0.11 | | | | | | 0.03 |
| 117 | 2 | 1.14 | | | | | 0.08 | |
| 127 | 4 | 0.15 | | | | | | 0.04 |
| 134 | NR | | | | | < 0.1 | | |
| 138 | 4 | -0.25 | 0.02 | | | | | |
| 140 | 4 | 0.23 | | | | | | 0.04 |
| 141 | NR | | | | | | | < 0.1 |
| 145 | NR | | | < 0.2 | | | | |
| 158 | 0 | 3.20 | | 0.17 | | | | |
| 183 | 1 | 1.60 | | | | | | 0.10 |
| 190 | 4 | -0.14 | | | | | | 0.02 |

**Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
K (Potassium) mg/L**

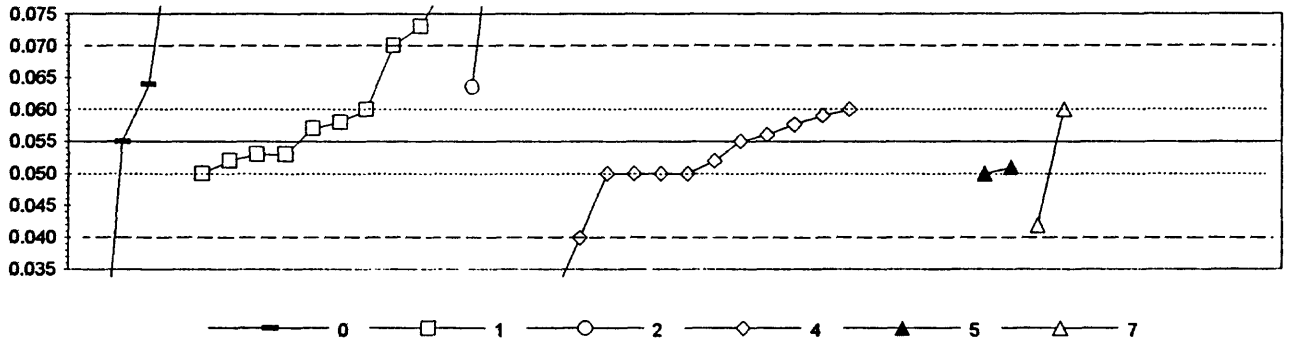


| | |
|-------------------|-----------------------|
| 0. Other | 5. DCP |
| 1. AA: Direct air | 7. Ion chromatography |
| 4. ICP | 12. Flame emission |
| N = 2 | 14 |
| Minimum = 0.085 | 0.045 |
| Maximum = 0.107 | 0.140 |
| Median = 0.088 | 0.094 |
| St Dev = 0.0188 | |

MPV = 0.088
F-pseudostigma = 0.016
N = 28
Hu = 0.100
Hi = 0.079

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 7 | 12 |
|-----|--------|---------|-------|--------|--------|-------|-------|-------|
| 1 | 4 | 0.38 | | 0.094 | | | | |
| 3 | 0 | -4.89 | | < 0.01 | | | | |
| 5 | NR | | | | < 1 | | | |
| 8 | NR | | | | < 0.5 | | | |
| 15 | 3 | -0.56 | | | 0.079 | | | |
| 23 | 4 | -0.13 | | 0.086 | | | | |
| 26 | 2 | -1.13 | | | | | 0.070 | |
| 33 | 3 | 0.75 | | | | 0.100 | | |
| 36 | 4 | -0.21 | 0.085 | | | | | |
| 38 | 4 | 0.13 | | 0.090 | | | | |
| 39 | NR | | < 1 | | | | | |
| 44 | 1 | 2.01 | | 0.120 | | | | |
| 46 | 0 | -5.08 | | | 0.007 | | | |
| 48 | 0 | 17.07 | | | 0.360 | | | |
| 52 | NR | | | | < 0.2 | | | |
| 61 | NR | | | | < 1 | | | |
| 63 | NR | | | | < 5 | | | |
| 64 | 4 | -0.50 | | 0.080 | | | | |
| 78 | 3 | 0.75 | | 0.100 | | | | |
| 89 | 1 | -1.63 | | 0.062 | | | | |
| 93 | 4 | 0.50 | | | | | | 0.096 |
| 105 | 4 | 0.38 | | | 0.094 | | | |
| 112 | 4 | -0.44 | | | | 0.081 | | |
| 117 | 3 | 0.75 | | 0.100 | | | | |
| 127 | 3 | 0.56 | | 0.097 | | | | |
| 134 | 4 | -0.19 | | 0.085 | | | | |
| 138 | 2 | 1.19 | 0.107 | | | | | |
| 140 | 0 | 3.26 | | 0.140 | | | | |
| 141 | 3 | 0.56 | | | 0.097 | | | |
| 145 | NR | | | | < 0.71 | | | |
| 158 | 2 | -1.13 | | | | | 0.070 | |
| 182 | 0 | -2.70 | | 0.045 | | | | |
| 185 | 3 | -0.63 | | 0.078 | | | | |
| 190 | 2 | 1.38 | | | | | 0.110 | |
| 196 | 3 | -0.88 | | 0.074 | | | | |
| 204 | 4 | -0.25 | | | | | | 0.084 |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Mg (Magnesium) mg/L

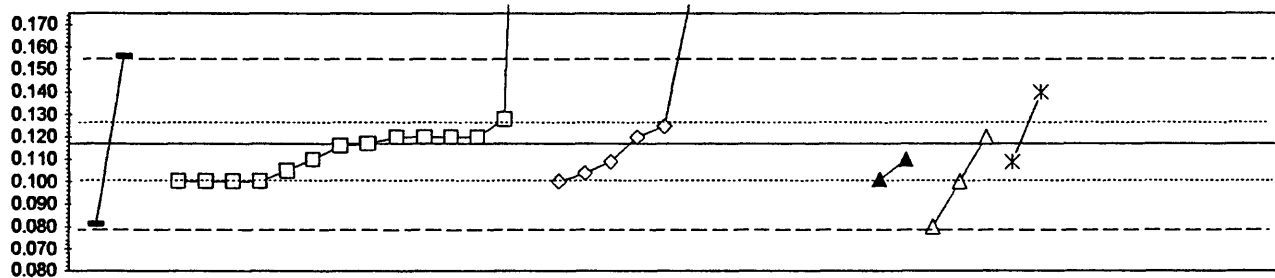


| | |
|-----------------------------|-----------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 5. DCP |
| 2. AA: direct nitrous oxide | 7. Ion chromatography |
| N = 4 | 10 |
| Minimum = 0.000 | 0.050 |
| Maximum = 0.093 | 0.080 |
| Median = 0.060 | 0.058 |
| St Dev = 0.008 | 0.006 |

MPV = 0.055
 F-pseudosigma = 0.007
 N = 33
 Hu = 0.060
 HI = 0.050

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 5 | 7 |
|-----|--------|---------|-------|-------|-------|--------|-------|-------|
| 1 | 4 | 0.40 | | 0.058 | | | | |
| 3 | 1 | -2.02 | | | | 0.040 | | |
| 5 | 4 | 0.36 | | | | 0.058 | | |
| 8 | 3 | -0.67 | | | | 0.050 | | |
| 15 | 3 | 0.54 | | | | 0.059 | | |
| 23 | 0 | 2.43 | | 0.073 | | | | |
| 26 | 3 | 0.67 | | | | | | 0.060 |
| 33 | 3 | -0.67 | | | | | 0.050 | |
| 36 | 2 | 1.16 | | | 0.064 | | | |
| 38 | 4 | 0.27 | | 0.057 | | | | |
| 39 | 0 | 5.13 | 0.093 | | | | | |
| 44 | 3 | -0.67 | | 0.050 | | | | |
| 46 | 4 | -0.40 | | | | 0.052 | | |
| 48 | 0 | -3.37 | | | | 0.030 | | |
| 52 | 4 | 0.13 | | | | 0.056 | | |
| 61 | NR | | | | | < 1 | | |
| 63 | NR | | | | | < 0.5 | | |
| 64 | 3 | -0.67 | | | | 0.050 | | |
| 78 | 0 | 3.37 | | 0.080 | | | | |
| 89 | 4 | -0.27 | | 0.053 | | | | |
| 93 | 0 | -7.42 | | | | 0.000 | | |
| 105 | 3 | 0.67 | | | | 0.060 | | |
| 112 | 3 | -0.54 | | | | | 0.051 | |
| 117 | 1 | 2.02 | | 0.070 | | | | |
| 127 | NR | | | | | < 0.06 | | |
| 134 | 3 | -0.67 | | | | 0.050 | | |
| 136 | 0 | -7.42 | 0.000 | | | | | |
| 138 | 4 | 0.00 | 0.055 | | | | | |
| 140 | 3 | 0.67 | | 0.060 | | | | |
| 141 | 4 | 0.00 | | | | 0.055 | | |
| 145 | NR | | | | | < 0.19 | | |
| 182 | 0 | 6.07 | | | 0.100 | | | |
| 185 | 4 | -0.40 | | 0.052 | | | | |
| 190 | 1 | -1.75 | | | | | | 0.042 |
| 196 | 4 | -0.27 | | 0.053 | | | | |
| 204 | 3 | -0.67 | | | | 0.050 | | |
| 212 | 2 | 1.21 | 0.064 | | | | | |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Na (Sodium) mg/L



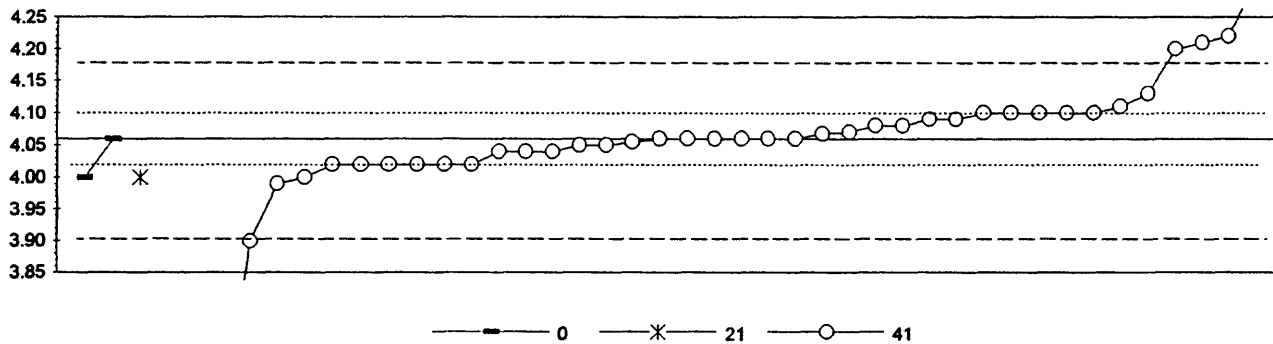
— 0 — □ — 1 — ◇ — 4 — ▲ — 5 — △ — 7 — * — 12

| | | | | | | | |
|-------------------|-----------|-------|-------|-------|-------|-------|-----------------------|
| 0. Other | | | | | | | 5. DCP |
| 1. AA: direct air | | | | | | | 7. Ion chromatography |
| 4. ICP | N = | 2 | 14 | 9 | 2 | 3 | 2 |
| | Minimum = | 0.081 | 0.100 | 0.100 | 0.101 | 0.080 | 0.109 |
| | Maximum = | 0.156 | 0.500 | 1.030 | 0.110 | 0.120 | 0.140 |
| | Median = | | 0.117 | 0.125 | | | |
| | St Dev = | | 0.010 | 0.031 | | | |

MPV = 0.117
 F-pseudostigma = 0.019
 N = 32
 Hu = 0.127
 HI = 0.101

| Lab | Rating | Z-value | 0 | 1 | 4 | 5 | 7 | 12 |
|-----|--------|---------|-------|-------|--------|-------|-------|-------|
| 1 | 3 | 0.60 | | 0.128 | | | | |
| 3 | 3 | -0.86 | | 0.100 | | | | |
| 5 | 0 | 3.55 | | | 0.185 | | | |
| 8 | 3 | -0.86 | | | 0.100 | | | |
| 15 | 0 | 11.96 | | | 0.347 | | | |
| 23 | 4 | -0.34 | | 0.110 | | | | |
| 26 | 4 | 0.18 | | | | | 0.120 | |
| 33 | 4 | -0.34 | | | 0.110 | | | |
| 36 | 1 | 2.05 | 0.156 | | | | | |
| 38 | 3 | -0.86 | | 0.100 | | | | |
| 39 | 1 | -1.84 | 0.081 | | | | | |
| 44 | 4 | 0.18 | | 0.120 | | | | |
| 46 | 3 | -0.65 | | | 0.104 | | | |
| 48 | 0 | 6.41 | | | 0.240 | | | |
| 52 | NR | | | | < 0.4 | | | |
| 61 | NR | | | | < 1 | | | |
| 63 | 0 | 47.40 | | | 1.030 | | | |
| 64 | 3 | -0.86 | | 0.100 | | | | |
| 78 | 3 | -0.86 | | 0.100 | | | | |
| 89 | 3 | -0.60 | | 0.105 | | | | |
| 93 | 4 | -0.39 | | | | | | 0.109 |
| 105 | 4 | 0.18 | | | 0.120 | | | |
| 112 | 3 | -0.80 | | | | 0.101 | | |
| 117 | 4 | 0.18 | | 0.120 | | | | |
| 127 | 4 | -0.39 | | | 0.109 | | | |
| 134 | 4 | -0.03 | | 0.116 | | | | |
| 138 | NR | | < 0.2 | | | | | |
| 140 | 4 | 0.18 | | 0.120 | | | | |
| 141 | 4 | 0.44 | | | | 0.125 | | |
| 145 | NR | | | | < 0.18 | | | |
| 158 | 3 | -0.86 | | | | | 0.100 | |
| 182 | 0 | 19.90 | | 0.500 | | | | |
| 185 | 4 | 0.03 | | 0.117 | | | | |
| 190 | 1 | -1.89 | | | | | 0.080 | |
| 196 | 4 | 0.18 | | 0.120 | | | | |
| 204 | 2 | 1.22 | | | | | | 0.140 |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued pH

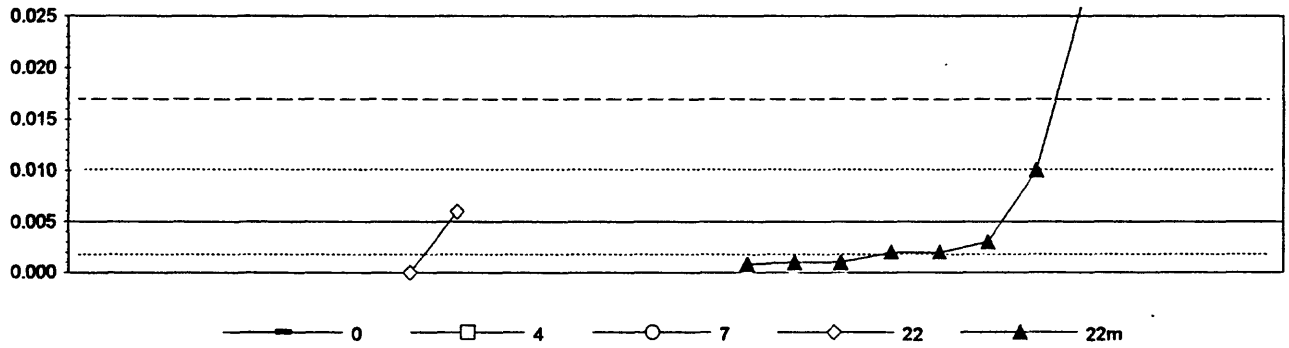


| | | | |
|----------------------------|------|------|-------|
| 0. Other | | | |
| 21. Titrate: electrometric | | | |
| 41. Direct reading | | | |
| N = | 2 | 1 | 43 |
| Minimum = | 4.00 | 4.00 | 3.22 |
| Maximum = | 4.06 | | 8.08 |
| Median = | | | 4.06 |
| St Dev = | | | 0.060 |

MPV = 4.06
 F-pseudostigma = 0.059
 N = 46
 Hu = 4.10
 HI = 4.02

| Lab | Rating | Z-value | 0 | 21 | 41 |
|-----|--------|---------|------|------|------|
| 1 | 4 | 0.13 | | | 4.07 |
| 2 | 4 | -0.08 | | | 4.06 |
| 3 | 4 | 0.00 | | | 4.06 |
| 5 | 2 | -1.01 | | 4.00 | |
| 7 | 4 | 0.00 | | | 4.06 |
| 8 | 2 | 1.18 | | | 4.13 |
| 15 | 0 | -14.16 | | | 3.22 |
| 23 | 3 | 0.84 | | | 4.11 |
| 26 | 0 | -2.70 | | | 3.90 |
| 32 | 3 | 0.67 | | | 4.10 |
| 33 | 3 | 0.51 | | | 4.09 |
| 36 | 3 | -0.67 | | | 4.02 |
| 38 | 0 | 2.36 | | | 4.20 |
| 39 | 0 | 67.79 | | | 8.08 |
| 46 | 0 | 2.53 | | | 4.21 |
| 48 | 0 | 4.05 | | | 4.30 |
| 52 | 4 | 0.17 | | | 4.07 |
| 58 | 2 | -1.18 | | | 3.99 |
| 61 | 0 | 19.22 | | | 5.20 |
| 62 | 3 | 0.67 | | | 4.10 |
| 63 | 3 | 0.67 | | | 4.10 |
| 64 | 4 | 0.00 | | | 4.06 |
| 78 | 4 | -0.17 | | | 4.05 |
| 89 | 3 | 0.51 | | | 4.09 |
| 93 | 4 | 0.34 | | | 4.08 |
| 105 | 4 | 0.00 | | | 4.06 |
| 107 | 4 | -0.34 | | | 4.04 |
| 110 | 4 | 0.00 | 4.06 | | |
| 112 | 4 | 0.34 | | | 4.08 |
| 127 | 3 | -0.67 | | | 4.02 |
| 134 | 4 | 0.00 | | | 4.06 |
| 136 | 0 | -7.76 | | | 3.60 |
| 138 | 3 | -0.67 | | | 4.02 |
| 140 | 3 | -0.67 | | | 4.02 |
| 141 | 4 | -0.17 | | | 4.05 |
| 145 | 0 | -7.76 | | | 3.60 |
| 158 | 4 | -0.34 | | | 4.04 |
| 182 | 3 | 0.67 | | | 4.10 |
| 183 | 3 | -0.67 | | | 4.02 |
| 185 | 4 | -0.34 | | | 4.04 |
| 190 | 2 | -1.01 | | | 4.00 |
| 197 | 0 | 2.70 | | | 4.22 |
| 202 | 3 | -0.67 | | | 4.02 |
| 203 | 3 | 0.67 | | | 4.10 |
| 204 | 4 | 0.00 | | | 4.06 |
| 212 | 2 | -1.01 | 4.00 | | |

**Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
PO4 as P (orthophosphate) mg/L**

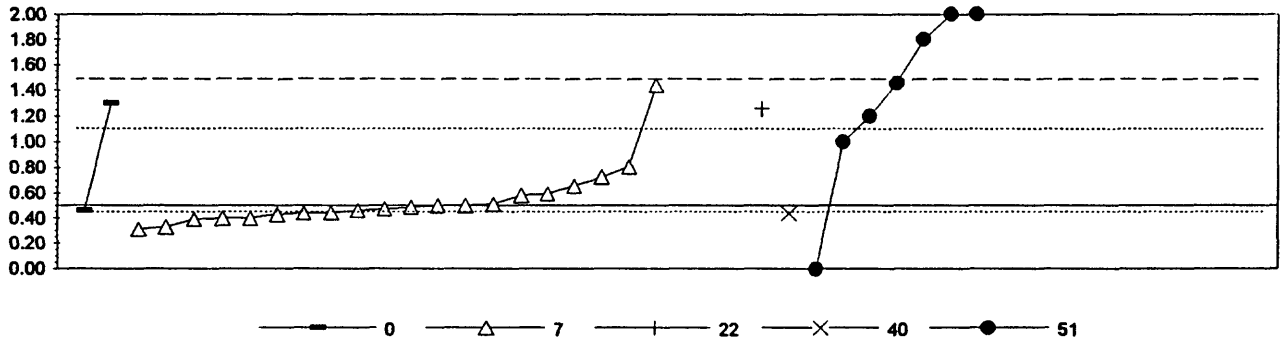


| | |
|-----------------------|----------------------------|
| 0. Other | 22. Colorimetric |
| 4. ICP | 22m. Color: molybdate blue |
| 7. Ion chromatography | |
| N = | < < < 2 10 |
| Minimum = | 0.000 0.001 |
| Maximum = | 0.006 0.900 |
| Median = | 0.003 |
| St Dev = | 0.009 |

MPV = 0.005
 F-pseudostigma = 0.0059
 N = 12
 Hu = 0.010
 HI = 0.002

| Lab | Rating | Z-value | 0 | 4 | 7 | 22 | 22m |
|-----|--------|---------|---|-------|---------|---------|---------|
| 1 | 0 | 3.71 | | | | | 0.027 |
| 3 | 4 | 0.17 | | | | 0.006 | |
| 7 | NR | | | | < 0.2 | | |
| 8 | NR | | | < 0.1 | | | |
| 15 | NR | | | | | | < 0.02 |
| 23 | NR | | | | | | < 0.01 |
| 26 | NR | | | | < 0.5 | | |
| 32 | NR | | | | < 0.007 | | |
| 33 | NR | | | | < 0.01 | | |
| 36 | 3 | -0.84 | | | | 0.000 | |
| 38 | 3 | -0.67 | | | | | 0.001 |
| 39 | NR | < 0.005 | | | | | |
| 46 | NR | | | | | | < 0.002 |
| 48 | 0 | 7.93 | | | | | 0.052 |
| 52 | NR | | | | | < 0.005 | |
| 61 | NR | | | | | < 0.04 | |
| 63 | NR | | | | | < 0.01 | |
| 64 | 3 | -0.51 | | | | | 0.002 |
| 78 | 4 | -0.34 | | | | | 0.003 |
| 89 | 3 | -0.51 | | | | | 0.002 |
| 105 | NR | | | | | < 0.002 | |
| 107 | NR | | | | | | < 0.005 |
| 117 | NR | | | | | | < 0.001 |
| 127 | NR | | | | | | < 0.02 |
| 134 | NR | | | | | | < 0.01 |
| 136 | 3 | -0.71 | | | | | 0.001 |
| 138 | NR | | | | | | < 0.01 |
| 140 | NR | | | | | < .01 | |
| 141 | NR | | | | | | < 0.05 |
| 145 | 3 | 0.84 | | | | | 0.010 |
| 182 | 0 | 150.92 | | | | | 0.900 |
| 202 | NR | | | | | | < 0.005 |
| 203 | NR | | | | | | < 0.005 |
| 204 | 3 | -0.67 | | | | | 0.001 |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
SO4 (Sulfate) mg/L

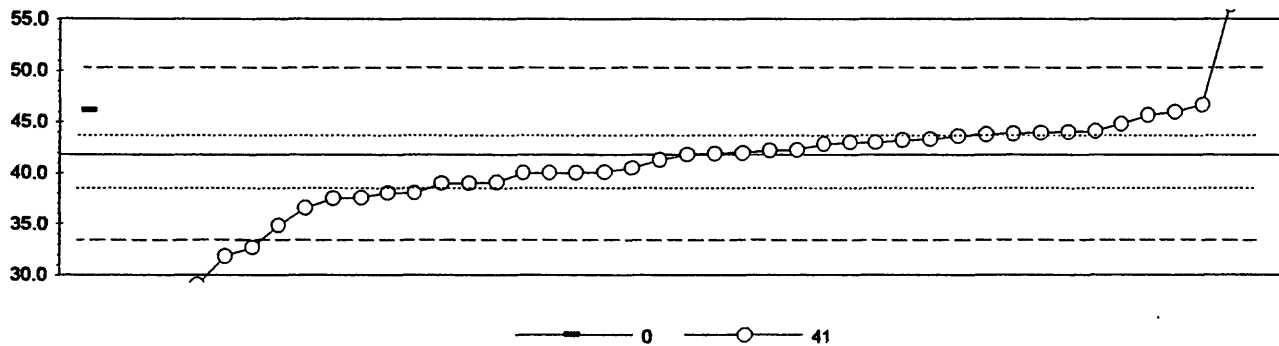


| | | | | | |
|-----------------------|-----------------------------|------|------|------|-------|
| 0. Other | 40. Selective ion electrode | | | | |
| 7. Ion chromatography | 51. Turbidimetric | | | | |
| 22. Colorimetric | N = 2 | 20 | 1 | 1 | 7 |
| Minimum = | 0.46 | 0.31 | 1.26 | 0.44 | 0.00 |
| Maximum = | 1.30 | 1.44 | 1.26 | 0.44 | 2.00 |
| Median = | 0.48 | | | | 1.46 |
| St Dev = | 0.2452 | | | | 0.423 |

MPV = 0.50
 F-pseudostigma = 0.491
 N = 31
 Hu = 1.10
 HI = 0.44

| Lab | Rating | Z-value | 0 | 7 | 22 | 40 | 51 |
|-----|--------|---------|------|-------|------|------|-------|
| 1 | 4 | 0.01 | | 0.51 | | | |
| 3 | 1 | 1.91 | | 1.44 | | | |
| 5 | NR | | | < 5 | | | |
| 7 | NR | | | < 0.5 | | | |
| 8 | 4 | -0.01 | | 0.50 | | | |
| 15 | 4 | 0.00 | | 0.50 | | | |
| 23 | 0 | 2.64 | | | | | 1.80 |
| 26 | 4 | -0.23 | | 0.39 | | | |
| 32 | 4 | -0.15 | | 0.43 | | | |
| 33 | 4 | -0.21 | | 0.40 | | | |
| 36 | 2 | -1.02 | | | | | 0.00 |
| 39 | 4 | -0.14 | | | | 0.44 | |
| 44 | 4 | 0.18 | | 0.59 | | | |
| 46 | 4 | -0.08 | | 0.46 | | | |
| 48 | 2 | 1.01 | | | | | 1.00 |
| 52 | NR | | | | | | < 10 |
| 61 | NR | | | | | | < 3 |
| 63 | 2 | 1.42 | | | | | 1.20 |
| 64 | 4 | -0.21 | | 0.40 | | | |
| 78 | NR | | | | | | < 1 |
| 89 | 1 | 1.95 | | | | | 1.46 |
| 93 | 3 | 0.63 | | 0.81 | | | |
| 105 | NR | | | < 1 | | | |
| 110 | 4 | -0.08 | 0.46 | | | | |
| 112 | 4 | 0.16 | | 0.58 | | | |
| 117 | NR | | | | | | < 0.1 |
| 127 | 4 | 0.32 | | 0.66 | | | |
| 134 | 4 | -0.12 | | 0.44 | | | |
| 138 | 4 | -0.07 | | 0.47 | | | |
| 140 | 0 | 3.05 | | | | | 2.00 |
| 141 | NR | | | | | | < 10 |
| 145 | 4 | -0.35 | | 0.33 | | | |
| 158 | 4 | -0.39 | | 0.31 | | | |
| 182 | 0 | 3.05 | | | | | 2.00 |
| 185 | 4 | 0.45 | | 0.72 | | | |
| 196 | 4 | -0.03 | | 0.49 | | | |
| 197 | 4 | -0.13 | | 0.44 | | | |
| 203 | NR | | | | | | < 1 |
| 204 | 1 | 1.54 | | | 1.26 | | |
| 212 | 1 | 1.62 | 1.30 | | | | |

Table 17. Statistical summary of reported data for standard reference water sample P-21 (low ionic strength)—Continued
Sp Cond (Specific Conductance) μ S/cm



| | |
|--------------------|-------------|
| 0. Other | |
| 41. Direct reading | |
| N = | 1 42 |
| Minimum = | 46.1 3.4 |
| Maximum = | 56.4 |
| Median = | 41.6 |
| St Dev = | 9.53 |

MPV = 41.8
 F-pseudosigma = 4.23
 N = 43
 Hu = 43.7
 HI = 38.0

| Lab | Rating | Z-value | 0 | 41 |
|-----|--------|---------|------|------|
| 1 | 4 | 0.28 | | 43.0 |
| 2 | 4 | 0.03 | | 41.9 |
| 3 | 4 | 0.12 | | 42.3 |
| 5 | 1 | -1.66 | | 34.8 |
| 7 | 3 | 0.54 | | 44.1 |
| 8 | 4 | 0.28 | | 43.0 |
| 15 | 2 | 1.16 | | 46.7 |
| 23 | 4 | 0.24 | | 42.8 |
| 26 | 4 | -0.43 | | 40.0 |
| 32 | 0 | -2.15 | | 32.7 |
| 33 | 4 | -0.12 | | 41.3 |
| 36 | 3 | 0.90 | | 45.6 |
| 38 | 3 | 0.99 | | 46.0 |
| 46 | 3 | 0.71 | | 44.8 |
| 48 | 4 | 0.33 | | 43.2 |
| 52 | 3 | -0.64 | | 39.1 |
| 58 | 0 | -2.34 | | 31.9 |
| 61 | 0 | -8.90 | | 4.2 |
| 62 | 4 | 0.50 | | 43.9 |
| 63 | 4 | 0.47 | | 43.8 |
| 64 | 3 | -0.99 | | 37.6 |
| 78 | 2 | -1.25 | | 36.5 |
| 89 | 4 | 0.00 | | 41.8 |
| 93 | 4 | 0.43 | | 43.6 |
| 105 | 3 | -0.90 | | 38.0 |
| 107 | 4 | 0.05 | | 42.0 |
| 117 | 2 | -1.02 | | 37.5 |
| 127 | 4 | -0.40 | | 40.1 |
| 134 | 3 | 0.52 | | 44.0 |
| 136 | 4 | -0.31 | | 40.5 |
| 140 | 4 | -0.43 | | 40.0 |
| 141 | 0 | -3.03 | | 29.0 |
| 145 | 3 | -0.66 | | 39.0 |
| 158 | 4 | 0.49 | | 43.9 |
| 182 | 0 | -4.45 | | 23.0 |
| 183 | 4 | -0.43 | | 40.0 |
| 185 | 4 | 0.09 | | 42.2 |
| 190 | 4 | 0.36 | | 43.3 |
| 197 | 0 | 3.46 | | 56.4 |
| 202 | 3 | -0.90 | | 38.0 |
| 203 | 0 | -9.09 | | 3.4 |
| 204 | 3 | -0.66 | | 39.0 |
| 212 | 2 | 1.02 | 46.1 | |

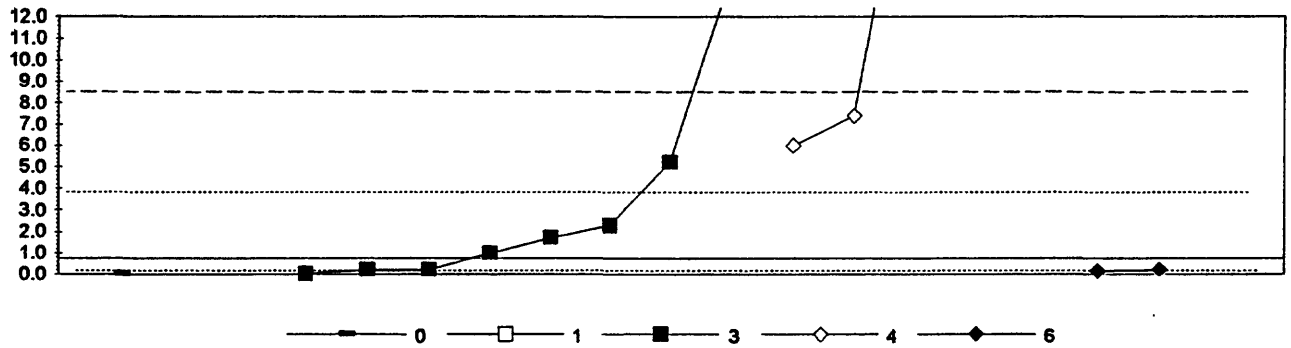
Table 18. –Statistical summary of reported data for standard reference sample Hg-17 (Mercury)

| <u>Definition of analytical methods, abbreviations, and symbols</u> | |
|---|---------------------------------------|
| <u>Analytical methods</u> | |
| 0. Other/Not reported | |
| 3. AA: graphite furnace | = atomic absorption: graphite furnace |
| 11. AA: cold vapor | = atomic absorption: cold vapor |
| <u>Abbreviations and symbols</u> | |
| N = | number of samples |
| St dev = | traditional standard deviation |
| MPV = | 95% confidence most probable value |
| F-pseudostigma = | nonparametric statistic deviation |
| Hu = | upper hinge value |
| Hi = | lower hinge value |
| μ g/L = | milligrams per liter |
| Lab = | laboratory code number |
| NR = | not rated, less than value reported |
| < = | less than |
| | |
| <u>Constituent</u> | <u>page</u> |
| Hg Mercury | 121 |

Table 19. —Statistical summary of reported data for standard reference sample AMW-3 (acid mine water)

| Definition of analytical methods, abbreviations, and symbols | | | | | |
|--|-----------------|-----|--|------------|-----|
| Analytical methods | | | | | |
| 0. Other/Not reported | | = | | | |
| 1. AA: direct, air | | = | atomic absorption: direct,air | | |
| 2. AA: direct, N2O | | = | atomic absorption: direct,nitrous oxide | | |
| 3. AA: graphite furnace | | = | atomic absorption: graphite furnace | | |
| 4. ICP | | = | inductively coupled plasma | | |
| 5. DCP | | = | direct current plasma | | |
| 6. ICP/MS | | = | inductively coupled plasma/mass spectrometry | | |
| 10. AA: extraction | | = | atomic absorption: extraction [chelating agent(s) specified] | | |
| 11. AA: hydride | | = | atomic absorption: hydride [reducing agent specified] | | |
| 22. Color: | | = | colorimetric [color reagent specified] | | |
| Abbreviations and symbols | | | | | |
| | N = | | number of samples | | |
| | St dev = | | traditional standard deviation | | |
| | MPV = | | 95% confidence most probable value | | |
| | F-pseudosigma = | | nonparametric statistic deviation | | |
| | Hu = | | upper hinge value | | |
| | Hl = | | lower hinge value | | |
| | μ g/L = | | micrograms per liter | | |
| | m g/L = | | milligrams per liter | | |
| | Lab = | | laboratory code number | | |
| | NR = | | not rated, less than value reported | | |
| | < = | | less than | | |
| Constituent | | | | | |
| Ag | Silver | 123 | Li | Lithium | 136 |
| Al | Aluminium | 124 | Mg | Magnesium | 137 |
| As | Arsenic | 125 | Mn | Manganese | 138 |
| B | Boron | 126 | Mo | Molybdenum | 139 |
| Ba | Barium | 127 | Na | Sodium | 140 |
| Be | Beryllium | 128 | Ni | Nickel | 141 |
| Ca | Calcium | 129 | Pb | Lead | 142 |
| Cd | Cadmium | 130 | Sb | Antimony | 143 |
| Co | Cobalt | 131 | Se | Selenium | 144 |
| Cr | Chromium | 132 | SiO2 | Silica | 145 |
| Cu | Copper | 133 | Sr | Strontium | 146 |
| Fe | Iron | 134 | V | Vanadium | 147 |
| K | Potassium | 135 | Zn | Zinc | 148 |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Ag (Silver) μ g/L

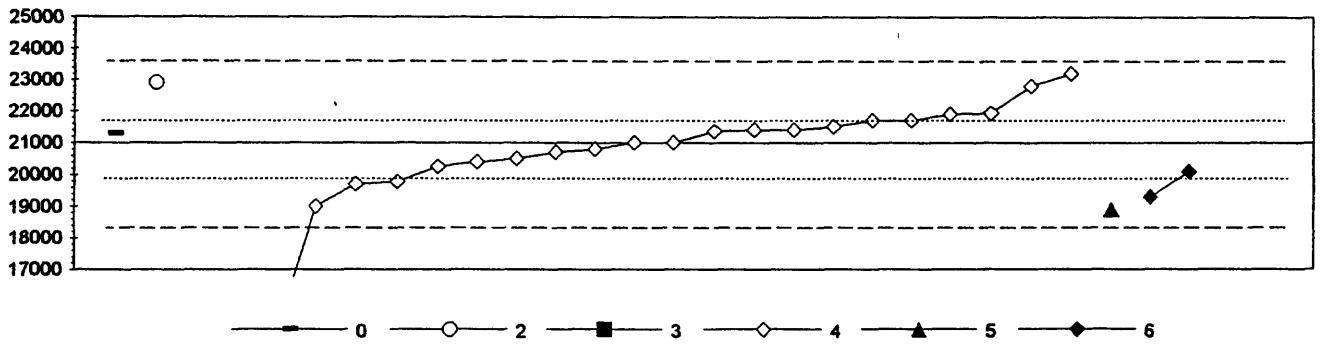


| | |
|-------------------------|------------------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 1 8 3 2 |
| Minimum = | 0.0 21.0 0.0 6.0 0.1 |
| Maximum = | 14.2 23.0 0.2 |
| Median = | 1.4 |
| St Dev = | 4.79 |

MPV = 0.8
 F-pseudosigma = 3.85
 N = 15
 Hu = 3.9
 Hi = 0.2

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|-----|------|-------|------|-------|
| 1 | NR | | | | < 1 | | |
| 3 | 4 | 0.06 | | | 1.0 | | |
| 7 | NR | | | | < 0.2 | | |
| 8 | 2 | 1.36 | | | | 6.0 | |
| 18 | NR | | | | | < 3 | |
| 32 | NR | | | | | | < 0.1 |
| 36 | 4 | -0.18 | | | 0.0 | | |
| 48 | 4 | -0.14 | | | 0.2 | | |
| 52 | 2 | 1.16 | | | 5.2 | | |
| 58 | 0 | 3.49 | | | 14.2 | | |
| 61 | 1 | 1.73 | | | | 7.4 | |
| 63 | NR | | | | < 0.5 | | |
| 84 | 0 | 5.26 | | 21.0 | | | |
| 85 | NR | | | < 5 | | | |
| 89 | 4 | 0.25 | | | 1.7 | | |
| 94 | NR | | | | | < 5 | |
| 105 | 4 | -0.16 | | | | | 0.1 |
| 117 | 4 | 0.40 | | | 2.3 | | |
| 119 | 4 | -0.14 | | | 0.2 | | |
| 127 | NR | | | | < 1 | | |
| 141 | 0 | 5.78 | | | | 23.0 | |
| 194 | NR | | | | < 1 | | |
| 202 | 4 | -0.19 | 0.0 | | | | |
| 210 | 4 | -0.14 | | | | | 0.2 |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Al (Aluminum) μ g/L

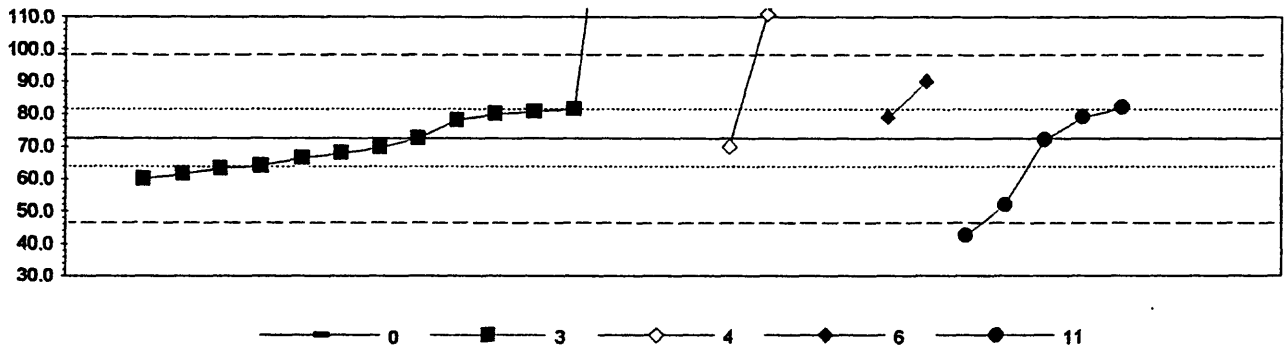


| | | | | | |
|-----------------------------|-----------|-------|-------|-------|-------|
| 0. Other | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 5. DCP | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | |
| N = 1 | 1 | 2 | 21 | 1 | 2 |
| Minimum = 21300 | 22900 | 7940 | 15000 | 18910 | 19300 |
| Maximum = 48700 | 23200 | 20100 | | | |
| Median = 28320 | 21000 | | | | |
| St Dev = 1661 | | | | | |

MPV = 21000
F-pseudostigma = 1309
N = 28
Hu = 21700
Hi = 19934

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-------|-------|-------|-------|-------|-------|
| 1 | 1 | -1.60 | | | | | 18910 | |
| 3 | 4 | -0.38 | | | | 20500 | | |
| 4 | 0 | -4.58 | | | | 15000 | | |
| 7 | 3 | 0.53 | | | | 21700 | | |
| 8 | 4 | 0.38 | | | | 21500 | | |
| 11 | 4 | -0.15 | | | | 20800 | | |
| 15 | 2 | 1.37 | | | | 22800 | | |
| 18 | 3 | -0.57 | | | | 20254 | | |
| 32 | 2 | -1.30 | | | | | | 19300 |
| 36 | 2 | 1.45 | | 22900 | | | | |
| 37 | 3 | -0.69 | | | | | | 20100 |
| 42 | 4 | 0.31 | | | | 21400 | | |
| 48 | 1 | 1.68 | | | | 23200 | | |
| 52 | 3 | -0.99 | | | | 19700 | | |
| 58 | 0 | 21.16 | | | 48700 | | | |
| 59 | 4 | 0.00 | | | | 21000 | | |
| 61 | 3 | 0.71 | | | | 21935 | | |
| 63 | 3 | 0.53 | | | | 21700 | | |
| 85 | 4 | 0.31 | | | | 21400 | | |
| 89 | 0 | -9.98 | | | 7940 | | | |
| 94 | 3 | -0.94 | | | | 19768 | | |
| 105 | 3 | 0.69 | | | | 21900 | | |
| 119 | 4 | 0.00 | | | | 21000 | | |
| 127 | 4 | -0.46 | | | | 20400 | | |
| 141 | 4 | 0.27 | | | | 21354 | | |
| 194 | 4 | -0.23 | | | | 20700 | | |
| 202 | 4 | 0.23 | 21300 | | | | | |
| 210 | 1 | -1.53 | | | | 19000 | | |

Table 19. --Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)--Continued
As (Arsenic) μ g/L

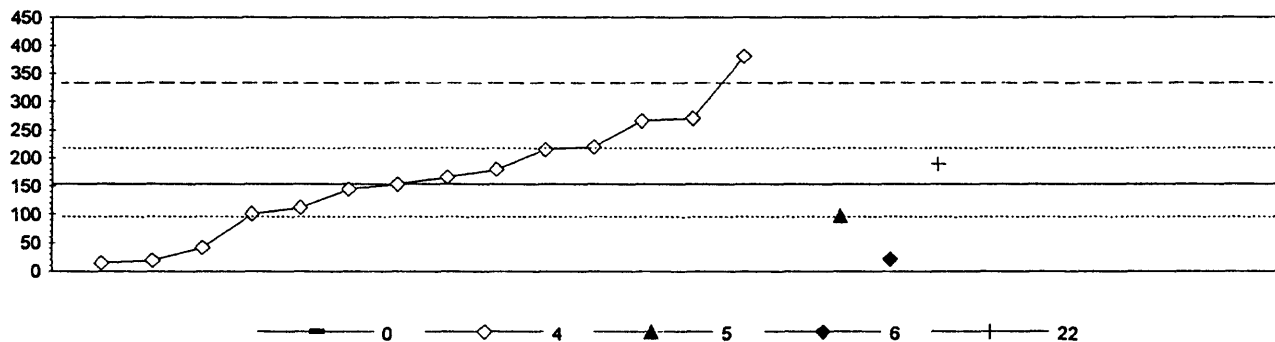


| | 0. Other | 3. AA: graphite furnace | 4. ICP | 6. ICP/MS | 11. AA: hydride |
|-----------|----------|-------------------------|--------|-----------|-----------------|
| N = | 1 | 14 | 3 | 2 | 5 |
| Minimum = | 1.5 | 60.1 | 70.0 | 79.0 | 42.7 |
| Maximum = | 241.0 | 130.0 | 90.0 | 82.0 | |
| Median = | 71.1 | 111.0 | 84.5 | 72.0 | |
| St Dev = | 7.87 | | | | |

MPV = 72.5
F-pseudosigma = 12.90
N = 25
Hu = 81.5
HI = 64.1

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|-----|-------|-------|------|------|
| 1 | 4 | 0.00 | | 72.5 | | | |
| 3 | 4 | 0.43 | | 78.1 | | | |
| 7 | 0 | -5.54 | | < 1 | | | |
| 8 | 1 | -1.59 | | | | | 52.0 |
| 11 | 0 | 4.46 | | | 130.0 | | |
| 15 | 3 | -0.71 | | 63.4 | | | |
| 18 | 4 | -0.22 | | 69.7 | | | |
| 32 | 2 | 1.36 | | | | 90.0 | |
| 36 | 4 | -0.47 | | 66.5 | | | |
| 48 | 3 | 0.64 | | 80.7 | | | |
| 52 | 3 | -0.96 | | 60.1 | | | |
| 58 | 0 | 13.06 | | 241.0 | | | |
| 59 | 4 | -0.19 | | | 70.0 | | |
| 61 | 3 | 0.70 | | 81.5 | | | |
| 63 | 3 | 0.58 | | 80.0 | | | |
| 84 | 3 | 0.74 | | | | | 82.0 |
| 85 | 4 | -0.04 | | | | | 72.0 |
| 69 | 0 | -2.31 | | | | | 42.7 |
| 94 | 4 | -0.36 | | 67.9 | | | |
| 105 | 4 | 0.50 | | | | 79.0 | |
| 117 | 0 | 8.18 | | 178.0 | | | |
| 119 | 4 | 0.50 | | | | | 79.0 |
| 127 | 3 | -0.65 | | 64.1 | | | |
| 141 | 0 | 2.98 | | | 111.0 | | |
| 194 | 3 | -0.85 | | 61.5 | | | |
| 202 | 0 | -5.50 | 1.5 | | | | |
| 210 | NR | | | | < 50 | | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
B (Boron) μ g/L

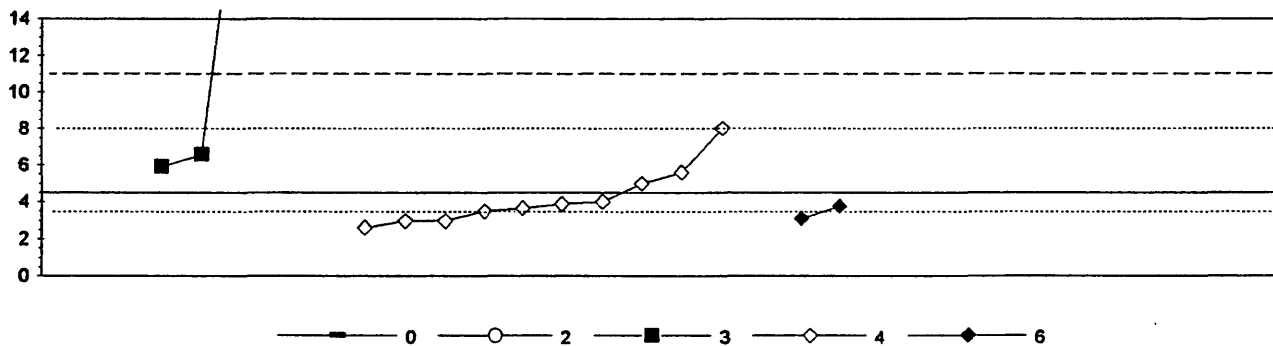


| | | | | | |
|----------|-----------|------------------|--|--|--|
| 0. Other | | 6. ICP/MS | | | |
| 4. ICP | | 22. Colorimetric | | | |
| 5. DCP | N = | | | | |
| | Minimum = | | | | |
| | Maximum = | | | | |
| | Median = | | | | |
| | St Dev = | | | | |

MPV = 153
 F-pseudostigma = 87.5
 N = 17
 Hu = 216
 HI = 98

| Lab | Rating | Z-value | 0 | 4 | 5 | 6 | 22 |
|-----|--------|---------|---|-------|----|----|-----|
| 1 | 3 | -0.63 | | | 98 | | |
| 3 | 3 | -0.61 | | 100 | | | |
| 4 | 4 | 0.15 | | 166 | | | |
| 8 | NR | | | < 10 | | | |
| 11 | 3 | 0.72 | | 216 | | | |
| 15 | 4 | -0.47 | | 112 | | | |
| 18 | 2 | -1.27 | | 42 | | | |
| 32 | 1 | -1.51 | | | | 21 | |
| 36 | 4 | 0.42 | | | | | 190 |
| 48 | 4 | 0.31 | | 180 | | | |
| 52 | NR | | | < 300 | | | |
| 61 | 4 | 0.00 | | 153 | | | |
| 85 | 2 | 1.35 | | 271 | | | |
| 94 | 1 | -1.58 | | 15 | | | |
| 116 | 2 | 1.29 | | 266 | | | |
| 119 | 3 | 0.77 | | 220 | | | |
| 127 | 1 | -1.53 | | 19 | | | |
| 141 | 4 | -0.10 | | 144 | | | |
| 194 | 0 | 2.60 | | 380 | | | |
| 210 | NR | | | < 100 | | | |

Table 19. --Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)--Continued
Ba (Barium) μ g/L

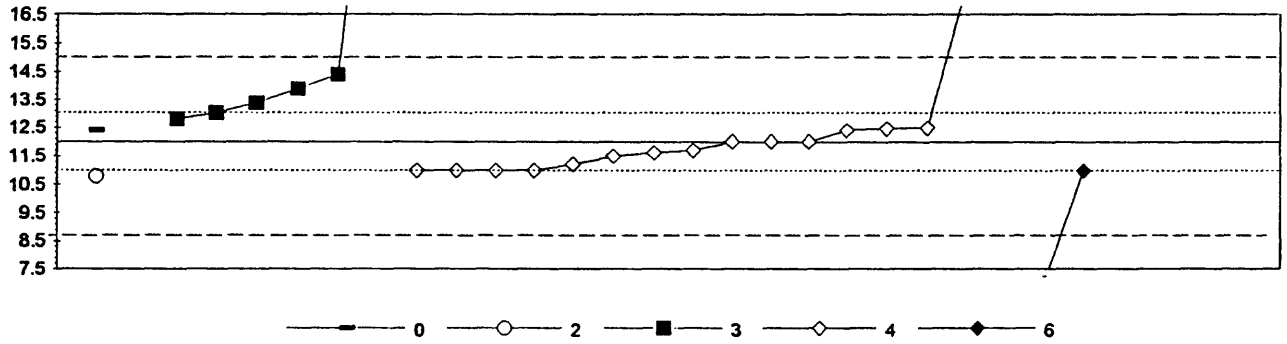


| | |
|-----------------------------|------------------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 0 2 4 10 2 |
| Minimum = | 140.0 5.9 2.6 3.1 |
| Maximum = | 366.0 140.0 8.0 3.8 |
| Median = | 253.0 15.3 3.8 3.4 |
| St Dev = | 1.61 |

MPV = 4.5
 F-pseudostigma = 3.34
 N = 18
 Hu = 8.0
 Hl = 3.5

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|------|-------|-----|
| 1 | 4 | -0.30 | | | | 3.5 | |
| 3 | 4 | -0.45 | | | | 3.0 | |
| 4 | 4 | -0.45 | | | | 3.0 | |
| 7 | 4 | 0.33 | | | | 5.6 | |
| 8 | 4 | 0.15 | | | | 5.0 | |
| 15 | NR | | | | | < 10 | |
| 18 | NR | | | | | < 5 | |
| 32 | 4 | -0.42 | | | | | 3.1 |
| 36 | 0 | 108.37 | 366.0 | | | | |
| 42 | 4 | -0.22 | | | | | 3.8 |
| 48 | 4 | 0.42 | | | 5.9 | | |
| 52 | NR | | | | < 11 | | |
| 58 | 3 | 0.61 | | | 6.6 | | |
| 59 | NR | | | | | < 10 | |
| 61 | 3 | -0.57 | | | | 2.6 | |
| 63 | NR | | | | | < 50 | |
| 84 | 0 | 40.62 | 140.0 | | | | |
| 85 | NR | | | | | < 5 | |
| 89 | 0 | 40.62 | | 140.0 | | | |
| 94 | 4 | -0.15 | | | | 4.0 | |
| 105 | 4 | -0.18 | | | | 3.9 | |
| 116 | NR | | | | | < 1 | |
| 117 | 0 | 5.85 | | 24.0 | | | |
| 119 | 2 | 1.05 | | | | 8.0 | |
| 127 | 4 | -0.25 | | | | 3.7 | |
| 141 | NR | | | | | < 10 | |
| 194 | NR | | | | | < 100 | |
| 210 | NR | | | | | < 50 | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Be (Beryllium) μ g/L**

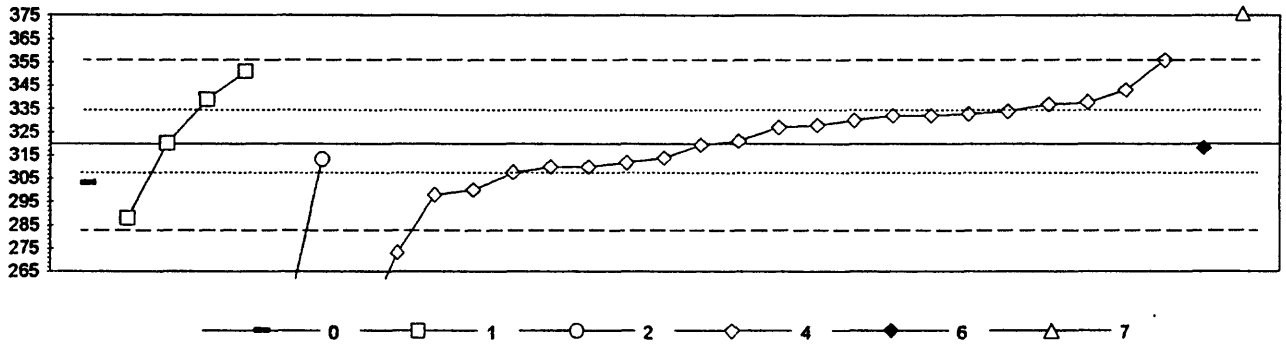


| | | | | | |
|-----------------------------|-----------|------|------|------|------|
| 0. Other | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| N = 1 | 1 | 6 | 16 | 2 | |
| Minimum = | 12.4 | 10.8 | 12.8 | 11.0 | 7.0 |
| Maximum = | | | 26.7 | 24.0 | 11.0 |
| Median = | | | 13.7 | 11.9 | 9.0 |
| St Dev = | | | 0.66 | 0.57 | |

MPV = 12.0
 F-pseudostigma = 1.48
 N = 26
 Hu = 13.0
 HI = 11.0

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 1 | 4 | 0.32 | | | | 12.5 | |
| 3 | 4 | 0.00 | | | | 12.0 | |
| 7 | 4 | 0.34 | | | | 12.5 | |
| 8 | 3 | -0.67 | | | | 11.0 | |
| 11 | 3 | -0.67 | | | | 11.0 | |
| 15 | 0 | 3.78 | | | | 17.6 | |
| 18 | 4 | 0.00 | | | | 12.0 | |
| 32 | 3 | -0.67 | | | | | 11.0 |
| 36 | 3 | -0.81 | | 10.8 | | | |
| 37 | 0 | -3.37 | | | | | 7.0 |
| 48 | 3 | 0.54 | | | 12.8 | | |
| 52 | 2 | 1.28 | | | 13.9 | | |
| 58 | 0 | 9.92 | | | 26.7 | | |
| 59 | 3 | -0.67 | | | | 11.0 | |
| 61 | 4 | 0.27 | | | | 12.4 | |
| 63 | 4 | 0.00 | | | | 12.0 | |
| 85 | 3 | -0.54 | | | | 11.2 | |
| 94 | 3 | -0.67 | | | | 11.0 | |
| 105 | 4 | -0.27 | | | | 11.6 | |
| 117 | 3 | 0.94 | | | 13.4 | | |
| 119 | 1 | 1.62 | | | 14.4 | | |
| 127 | 4 | -0.20 | | | | 11.7 | |
| 141 | 4 | -0.34 | | | | 11.5 | |
| 194 | 3 | 0.67 | | | 13.0 | | |
| 202 | 4 | 0.27 | 12.4 | | | | |
| 210 | 0 | 8.09 | | | | 24.0 | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Ca (Calcium) mg/L**

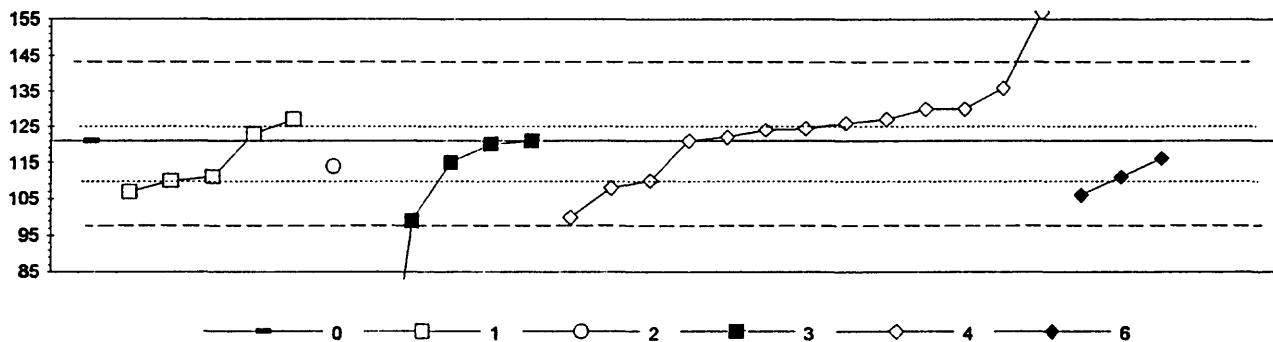


| | | | | | |
|-----------------------------|-----------|-----|-----|-----|-----|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 6. ICP/MS | | | | |
| 2. AA: direct nitrous oxide | 7. IC | | | | |
| N = 1 | 4 | 2 | 22 | 1 | 1 |
| Minimum = 303 | 288 | 239 | 237 | 318 | 376 |
| Maximum = 351 | 351 | 313 | 356 | | |
| Median = 330 | 276 | 324 | | | |
| St Dev = 18.4 | | | | | |

MPV = 320
 F-pseudostigma = 18.4
 N = 31
 Hu = 334
 HI = 309

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | -0.03 | | | | 320 | | |
| 3 | 1 | 1.96 | | | | 356 | | |
| 4 | 0 | -4.51 | | | | 237 | | |
| 7 | 3 | 0.98 | | | | 338 | | |
| 8 | 4 | 0.38 | | | | 327 | | |
| 11 | 3 | 0.54 | | | | 330 | | |
| 15 | 2 | -1.20 | | | | 298 | | |
| 18 | 4 | -0.44 | | | | 312 | | |
| 32 | 4 | -0.11 | | | | | 318 | |
| 36 | 0 | -4.41 | | | 239 | | | |
| 37 | 0 | 3.05 | | | | | | 376 |
| 42 | 3 | -0.54 | | | | 310 | | |
| 48 | 0 | -2.56 | | | | 273 | | |
| 52 | 3 | 0.65 | | | | 332 | | |
| 58 | 1 | -1.74 | | 288 | | | | |
| 59 | 3 | -0.54 | | | | 310 | | |
| 61 | 4 | -0.34 | | | | 314 | | |
| 63 | 3 | 0.71 | | | | 333 | | |
| 84 | 4 | -0.38 | | | 313 | | | |
| 85 | 4 | 0.00 | | 320 | | | | |
| 89 | 2 | 1.03 | | 339 | | | | |
| 94 | 3 | -0.69 | | | | 307 | | |
| 105 | 4 | 0.05 | | | | 321 | | |
| 116 | 2 | 1.25 | | | | 343 | | |
| 117 | 1 | 1.69 | | 351 | | | | |
| 119 | 4 | 0.44 | | | | 328 | | |
| 127 | 3 | 0.92 | | | | 337 | | |
| 141 | 3 | 0.65 | | | | 332 | | |
| 194 | 3 | 0.76 | | | | 334 | | |
| 202 | 3 | -0.92 | 303 | | | | | |
| 210 | 2 | -1.09 | | | | 300 | | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Cd (Cadmium) μ g/L

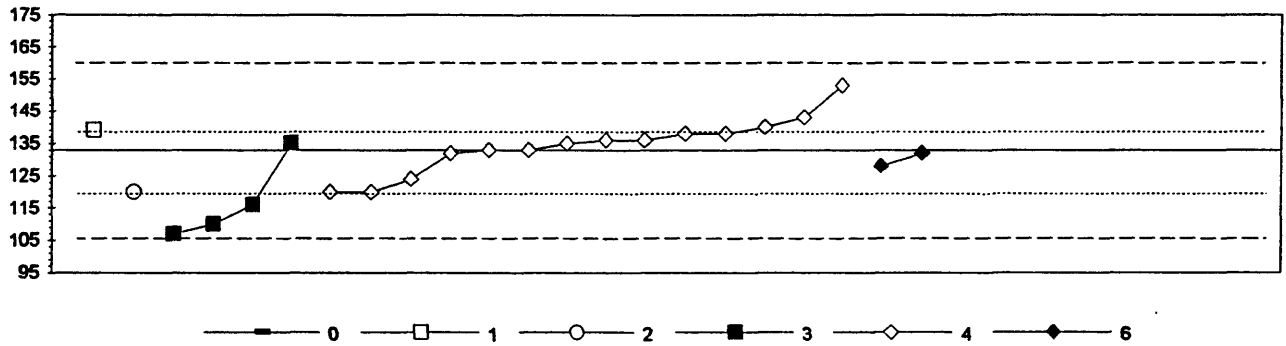


| | 0. Other | 1. AA: Direct air | 2. AA: direct nitrous oxide | 3. AA: graphite furnace | 4. ICP | 5. ICP/MS | 6. ICP/MS |
|-----------|----------|-------------------|-----------------------------|-------------------------|--------|-----------|-----------|
| N = | 1 | 5 | 1 | 5 | 13 | 3 | |
| Minimum = | 121 | 107 | 114 | 23 | 100 | 106 | |
| Maximum = | | 127 | | 121 | 157 | 116 | |
| Median = | | 111 | | 115 | 124 | 111 | |
| St Dev = | | | | | 10.4 | | |

MPV = 121
 F-pseudostigma = 11.3
 N = 28
 Hu = 125
 Hi = 110

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | 0.35 | | | | | 124 | |
| 3 | 1 | -1.91 | | | | 99 | | |
| 7 | 3 | 0.84 | | | | | 130 | |
| 8 | 4 | 0.04 | | | | | 121 | |
| 11 | 3 | 0.58 | | | | | 127 | |
| 15 | 2 | 1.38 | | | | | 136 | |
| 18 | 4 | 0.04 | | | | 121 | | |
| 32 | 4 | -0.40 | | | | | | 116 |
| 36 | 3 | -0.58 | | | 114 | | | |
| 42 | 3 | -0.84 | | | | | | 111 |
| 48 | 0 | 3.24 | | | | | 157 | |
| 52 | 2 | -1.11 | | | | | 108 | |
| 58 | 3 | -0.84 | | 111 | | | | |
| 59 | 4 | 0.31 | | | | | 124 | |
| 61 | 3 | 0.84 | | | | | 130 | |
| 63 | 4 | 0.22 | | 123 | | | | |
| 84 | 2 | -1.20 | | 107 | | | | |
| 85 | 3 | -0.93 | | 110 | | | | |
| 89 | 4 | -0.49 | | | | 115 | | |
| 94 | 3 | -0.93 | | | | | 110 | |
| 105 | 2 | -1.28 | | | | | | 106 |
| 117 | 0 | -8.70 | | | | 23 | | |
| 119 | 3 | 0.58 | | 127 | | | | |
| 127 | 4 | 0.13 | | | | | 122 | |
| 141 | 4 | 0.49 | | | | | 126 | |
| 194 | 4 | -0.04 | | | | 120 | | |
| 202 | 4 | 0.04 | 121 | | | | | |
| 210 | 1 | -1.82 | | | | | 100 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Co (Cobalt) μ g/L

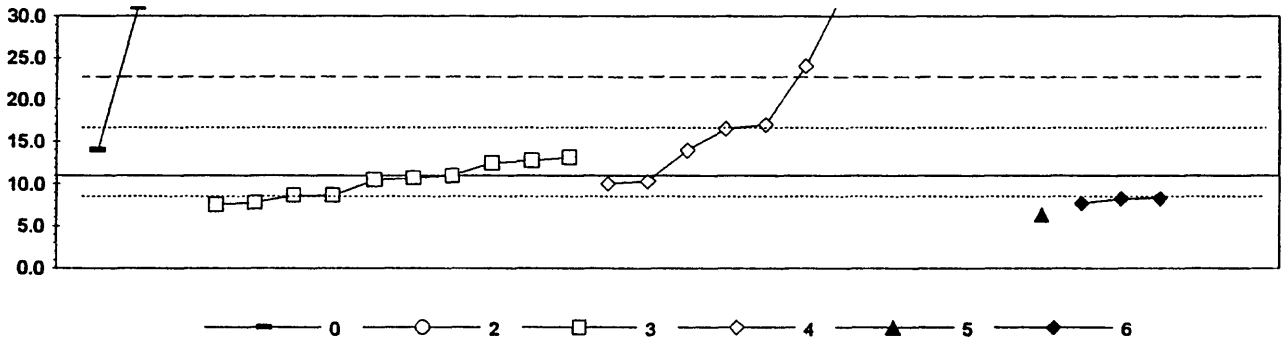


| | |
|-----------------------------|-------------------------|
| 0. Other | 3. AA: graphite furnace |
| 1. AA: Direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| N = 0 | 1 1 4 14 2 |
| Minimum = | 139 120 107 120 128 |
| Maximum = | 135 153 132 |
| Median = | 113 136 |
| St Dev = | 8.8 |

MPV = 133
 F-pseudosigma = 13.3
 N = 22
 Hu = 138
 HI = 120

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|---|-----|-----|-----|-----|
| 1 | 1 | -1.95 | | | | 107 | | |
| 3 | 3 | -0.97 | | | | | 120 | |
| 7 | 3 | 0.75 | | | | | 143 | |
| 8 | 4 | -0.07 | | | | | 132 | |
| 11 | 4 | 0.00 | | | | | 133 | |
| 15 | 2 | -1.27 | | | | 116 | | |
| 18 | 4 | 0.00 | | | | | 133 | |
| 32 | 4 | -0.07 | | | | | | 132 |
| 36 | 3 | -0.97 | | | 120 | | | |
| 42 | 4 | -0.37 | | | | | | 128 |
| 48 | 3 | 0.52 | | | | | 140 | |
| 52 | 4 | 0.22 | | | | | 136 | |
| 58 | 1 | -1.72 | | | | 110 | | |
| 61 | 2 | 1.50 | | | | | 153 | |
| 63 | 4 | 0.45 | 139 | | | | | |
| 85 | 4 | 0.15 | | | | | 135 | |
| 89 | 4 | 0.15 | | | | 135 | | |
| 94 | 3 | -0.67 | | | | | 124 | |
| 105 | 4 | 0.37 | | | | | 138 | |
| 127 | 4 | 0.22 | | | | | 136 | |
| 141 | 4 | 0.37 | | | | | 138 | |
| 210 | 3 | -0.97 | | | | | 120 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
total Cr (Chromium) $\mu\text{g/L}$

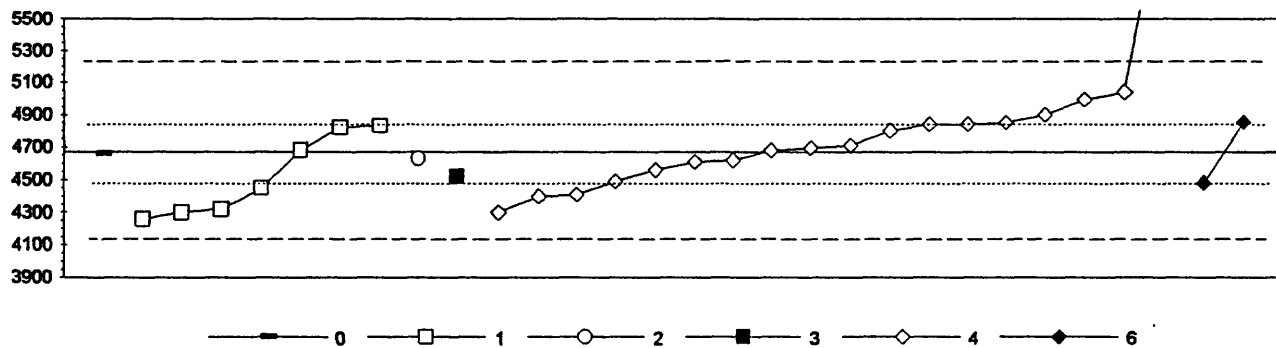


| | |
|-----------------------------|------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| N = 2 | 0 10 9 1 3 |
| Minimum = 14.0 | 7.6 10.0 6.4 7.7 |
| Maximum = 31.0 | 13.2 4000 8.3 |
| Median = 22.5 | 10.6 17.0 8.2 |
| St Dev = | 2.12 8.20 |

MPV = 11.0
F-pseudostigma = 5.88
N = 25
Hu = 16.5
Hi = 8.6

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|------|------|-----|
| 1 | 3 | -0.78 | | | | | 6.4 | |
| 3 | 4 | -0.17 | | | | 10.0 | | |
| 4 | 0 | 679 | | | | 4000 | | |
| 7 | NR | | | | | < 8 | | |
| 8 | 0 | 3.74 | | | | 33.0 | | |
| 15 | 4 | -0.41 | | | 8.6 | | | |
| 18 | 0 | 2.21 | | | | 24.0 | | |
| 32 | 4 | -0.46 | | | | | | 8.3 |
| 36 | 4 | 0.31 | | | 12.8 | | | |
| 37 | 4 | -0.48 | | | | | | 8.2 |
| 48 | 4 | -0.05 | | | 10.7 | | | |
| 52 | 3 | -0.56 | | | 7.7 | | | |
| 58 | 4 | 0.37 | | | 13.2 | | | |
| 59 | 2 | 1.02 | | | | 17.0 | | |
| 61 | 4 | -0.12 | | | | 10.3 | | |
| 63 | 0 | 3.40 | 31.0 | | | | | |
| 84 | NR | | | < 10 | | | | |
| 85 | NR | | | | | < 20 | | |
| 89 | 4 | 0.26 | | | 12.5 | | | |
| 94 | 3 | 0.51 | | | | 14.0 | | |
| 105 | 3 | -0.57 | | | | | | 7.7 |
| 117 | 4 | -0.09 | | | 10.5 | | | |
| 119 | 4 | -0.41 | | | 8.6 | | | |
| 127 | 3 | -0.59 | | | 7.6 | | | |
| 141 | 3 | 0.94 | | | | | 16.5 | |
| 194 | 4 | 0.00 | | | 11.0 | | | |
| 202 | 3 | 0.51 | 14.0 | | | | | |
| 210 | 0 | 78 | | | | | | 470 |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Cu (Copper) μ g/L**

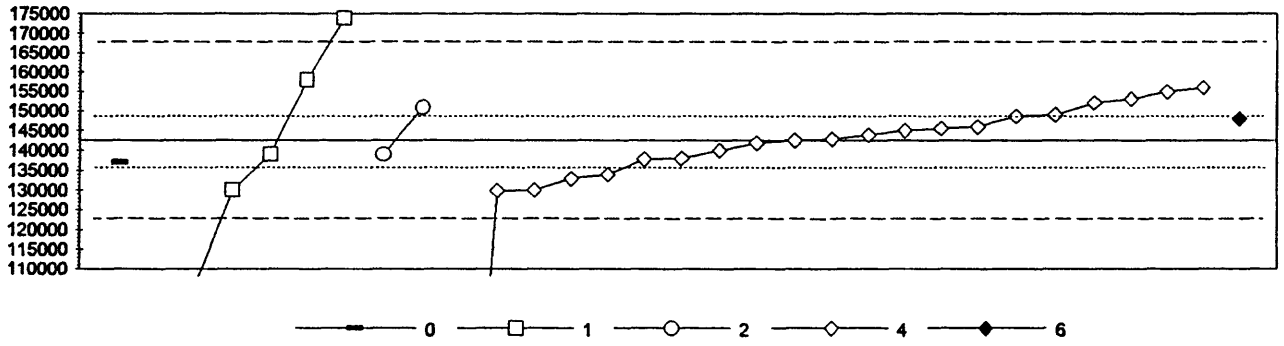


| | |
|-----------------------------|-------------------------|
| 0. Other | 3. AA: graphite furnace |
| 1. AA: Direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| N = 1 | 7 |
| Minimum = 4660 | 4261 |
| Maximum = 4830 | 4630 |
| Median = 4450 | 4520 |
| St Dev = 249 | 4300 |
| | 4480 |

MPV = 4670
F-pseudostigma = 267
N = 30
Hu = 4840
Hi = 4480

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|---|------|
| 1 | 3 | -0.67 | | | | | | 4491 |
| 3 | 4 | 0.04 | | | | | | 4680 |
| 4 | 0 | 6.48 | | | | | | 6400 |
| 7 | 3 | 0.64 | | | | | | 4840 |
| 8 | 4 | -0.22 | | | | | | 4610 |
| 11 | 4 | 0.15 | | | | | | 4710 |
| 15 | 3 | -0.56 | | | | 4520 | | |
| 18 | 4 | -0.40 | | | | | | 4564 |
| 32 | 3 | -0.71 | | | | | | 4480 |
| 36 | 4 | -0.15 | | | 4630 | | | |
| 37 | 3 | 0.67 | | | | | | 4850 |
| 42 | 3 | 0.86 | | | | | | 4900 |
| 48 | 2 | 1.39 | | | | | | 5040 |
| 52 | 2 | -1.39 | | | | | | 4300 |
| 58 | 2 | -1.39 | | 4300 | | | | |
| 59 | 4 | 0.49 | | | | | | 4800 |
| 61 | 2 | 1.22 | | | | | | 4996 |
| 63 | 3 | 0.56 | | 4820 | | | | |
| 84 | 3 | -0.82 | | 4450 | | | | |
| 85 | 4 | 0.04 | | 4680 | | | | |
| 89 | 2 | -1.31 | | 4320 | | | | |
| 94 | 3 | -0.98 | | | | | | 4409 |
| 105 | 3 | 0.67 | | | | | | 4850 |
| 117 | 1 | -1.53 | | 4261 | | | | |
| 119 | 4 | -0.19 | | | | | | 4620 |
| 127 | 3 | 0.64 | | | | | | 4840 |
| 141 | 4 | 0.09 | | | | | | 4695 |
| 194 | 3 | 0.60 | | 4830 | | | | |
| 202 | 4 | -0.04 | 4660 | | | | | |
| 210 | 2 | -1.01 | | | | | | 4400 |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Fe (Iron) μ g/L

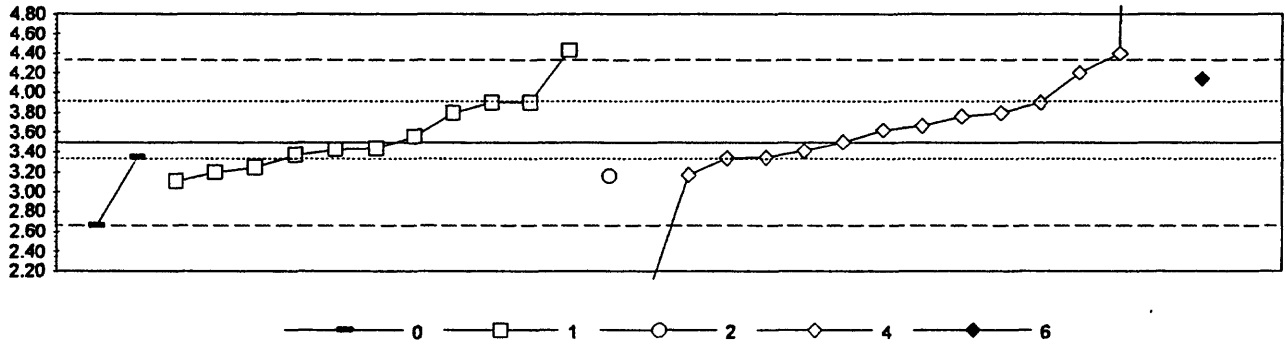


| | | | | |
|-----------------------------|-----------|--------|--------|--------|
| 0. Other | 4. ICP | | | |
| 1. AA: Direct air | 6. ICP/MS | | | |
| 2. AA: direct nitrous oxide | | | | |
| N = 1 | 6 | 2 | 21 | 1 |
| Minimum = 137000 | 94400 | 139000 | 141 | 148000 |
| Maximum = | 174000 | 151000 | 156000 | |
| Median = | 134475 | 143000 | | |
| St Dev = | | 7826 | | |

MPV = 142650
 F-pseudosigma = 9859
 N = 31
 Hu = 148800
 Hi = 135500

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|--------|--------|---|--------|--------|
| 1 | 4 | -0.38 | 138950 | | | | |
| 3 | 4 | -0.07 | | | | 142000 | |
| 4 | 3 | -0.98 | | | | 133000 | |
| 7 | 3 | 0.64 | | | | 149000 | |
| 8 | 4 | 0.04 | | | | 143000 | |
| 11 | 0 | -14.45 | | | | | 141 |
| 15 | 3 | 0.95 | | | | | 152000 |
| 18 | 4 | -0.49 | | | | | 137800 |
| 32 | 3 | 0.54 | | | | | 148000 |
| 36 | 4 | -0.37 | | 139000 | | | |
| 37 | 0 | -4.89 | 94400 | | | | |
| 42 | 4 | 0.30 | | | | 145600 | |
| 48 | 2 | 1.25 | | | | 155000 | |
| 52 | 4 | 0.14 | | | | 144000 | |
| 58 | 2 | -1.28 | 130000 | | | | |
| 59 | 4 | -0.47 | | | | 138000 | |
| 61 | 4 | 0.00 | | | | 142650 | |
| 63 | 0 | 3.18 | 174000 | | | | |
| 84 | 3 | 0.85 | | 151000 | | | |
| 85 | 4 | -0.27 | | | | 140000 | |
| 89 | 1 | 1.56 | 158000 | | | | |
| 94 | 2 | -1.29 | | | | 129940 | |
| 105 | 3 | -0.88 | | | | 134000 | |
| 116 | 2 | 1.05 | | | | 153000 | |
| 117 | 0 | -3.79 | 105300 | | | | |
| 119 | 2 | 1.35 | | | | 156000 | |
| 127 | 4 | 0.34 | | | | 146000 | |
| 141 | 3 | 0.60 | | | | 148600 | |
| 194 | 4 | 0.24 | | | | 145000 | |
| 202 | 3 | -0.57 | 137000 | | | | |
| 210 | 2 | -1.28 | | | | 130000 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
K (Potassium) mg/L



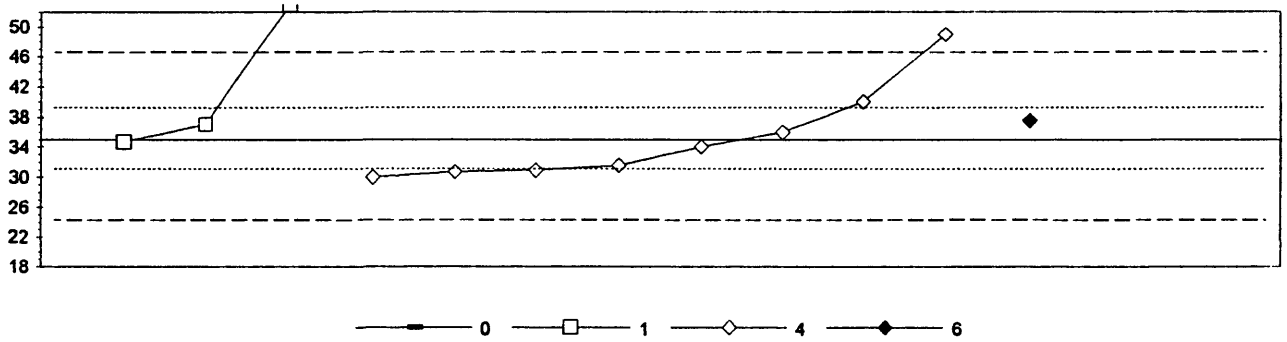
| | |
|-----------------------------|----------------------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | |
| N = | 2 11 1 14 1 |
| Minimum = | 2.66 3.11 3.16 2.00 4.14 |
| Maximum = | 3.35 4.43 4887 |
| Median = | 3.44 3.65 |
| St Dev = | 0.392 0.581 |

MPV = 3.50
 F-pseudostigma = 0.415
 N = 29
 Hu = 3.90
 HI = 3.34

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 1 | 3 | -0.60 | | 3.25 | | | |
| 3 | 4 | -0.31 | | 3.37 | | | |
| 7 | 1 | 1.69 | | | | 4.20 | |
| 8 | 3 | 0.72 | | | | 3.80 | |
| 11 | 4 | -0.36 | | | | 3.35 | |
| 15 | 4 | 0.41 | | | | 3.67 | |
| 18 | 3 | -0.79 | | | | 3.17 | |
| 32 | 1 | 1.54 | | | | | 4.14 |
| 36 | 3 | -0.82 | | | 3.16 | | |
| 37 | 4 | -0.14 | | 3.44 | | | |
| 42 | 4 | 0.00 | | | | 3.50 | |
| 48 | 3 | 0.63 | | | | 3.76 | |
| 52 | 4 | -0.22 | | | | 3.41 | |
| 58 | 4 | -0.17 | | 3.43 | | | |
| 59 | 3 | 0.96 | | | | 3.90 | |
| 61 | 0 | 11764 | | | | 4887 | |
| 63 | 0 | 2.17 | | | | 4.40 | |
| 84 | 3 | -0.72 | | 3.20 | | | |
| 85 | 3 | 0.96 | | 3.90 | | | |
| 89 | 4 | 0.14 | | 3.56 | | | |
| 94 | 4 | -0.39 | | | | 3.34 | |
| 105 | 4 | 0.29 | | | | 3.62 | |
| 117 | 3 | -0.94 | | 3.11 | | | |
| 119 | 3 | 0.72 | | 3.80 | | | |
| 127 | 3 | 0.96 | | 3.90 | | | |
| 141 | 4 | -0.36 | 3.35 | | | | |
| 194 | 0 | 2.24 | | 4.43 | | | |
| 202 | 1 | -2.02 | 2.66 | | | | |
| 210 | 0 | -3.61 | | | | 2.00 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued

Li (Lithium) μ g/L

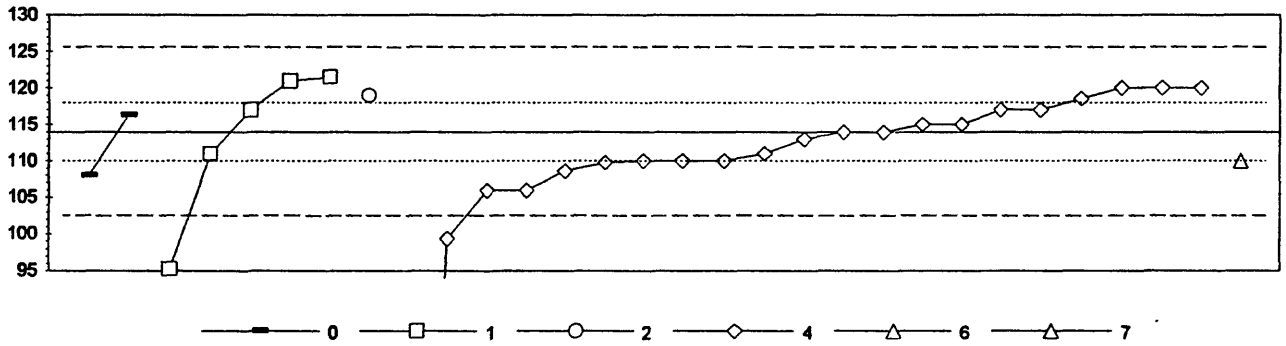


| | | | | | |
|-------------------|-----------|---|----|-----|----|
| 0. Other | 6. ICP/MS | | | | |
| 1. AA: Direct air | | | | | |
| 4. ICP | N = | 0 | 3 | 8 | 1 |
| | Minimum = | | 35 | 30 | 38 |
| | Maximum = | | 53 | 49 | |
| | Median = | | 37 | 33 | |
| | St Dev = | | | 6.5 | |

MPV = 35
 F-pseudostigma = 5.5
 N = 12
 Hu = 39
 HI = 31

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 |
|-----|--------|---------|---|----|----|----|
| 1 | 4 | -0.12 | | 35 | | |
| 3 | 3 | 0.84 | | | 40 | |
| 4 | 3 | -0.79 | | | 31 | |
| 8 | 4 | -0.24 | | | 34 | |
| 15 | 3 | -0.84 | | | 31 | |
| 32 | 4 | 0.39 | | | | 38 |
| 42 | 4 | 0.12 | | | 36 | |
| 63 | 0 | 3.20 | | 53 | | |
| 85 | 4 | 0.30 | | 37 | | |
| 105 | 0 | 2.47 | | | 49 | |
| 127 | 3 | -0.68 | | | 32 | |
| 210 | 3 | -0.97 | | | 30 | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Mg (Magnesium) mg/L**

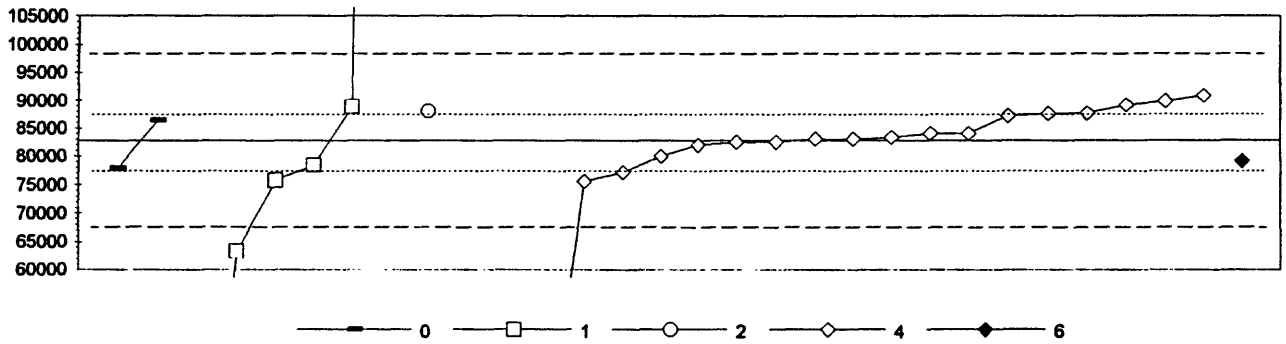


| | |
|-----------------------------|-----------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | 7. Ion chromatography |
| N = 2 | 5 1 21 1 1 |
| Minimum = 108 | 95 119 8 110 140 |
| Maximum = 116 | 122 120 |
| Median = 117 | 113 |
| St Dev = 5.4 | 5.4 |

MPV = 114
 F-pseudosigma = 5.8
 N = 31
 Hu = 118
 HI = 110

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 3 | -0.93 | | | | 109 | | |
| 3 | 4 | 0.17 | | | | 115 | | |
| 4 | 2 | -1.37 | | | | 106 | | |
| 7 | 2 | 1.03 | | | | 120 | | |
| 8 | 2 | -1.37 | | | | 106 | | |
| 11 | 3 | 0.52 | | | | 117 | | |
| 15 | 3 | 0.52 | | | | 117 | | |
| 18 | 3 | -0.69 | | | | 110 | | |
| 32 | 3 | -0.69 | | | | | 110 | |
| 36 | 3 | 0.86 | | | 119 | | | |
| 37 | 0 | 4.47 | | | | | | 140 |
| 42 | 3 | -0.69 | | | | 110 | | |
| 48 | 0 | -2.51 | | | | 99 | | |
| 52 | 4 | 0.00 | | | | 114 | | |
| 58 | 0 | -3.21 | | 95 | | | | |
| 59 | 4 | -0.17 | | | | 113 | | |
| 61 | 3 | 0.77 | | | | 119 | | |
| 63 | 2 | 1.03 | | | | 120 | | |
| 84 | 3 | -0.52 | | 111 | | | | |
| 85 | 3 | 0.52 | | 117 | | | | |
| 89 | 2 | 1.20 | | 121 | | | | |
| 94 | 3 | -0.72 | | | | 110 | | |
| 105 | 3 | -0.69 | | | | 110 | | |
| 116 | 4 | 0.17 | | | | 115 | | |
| 117 | 2 | 1.29 | | 122 | | | | |
| 119 | 3 | -0.52 | | | | 111 | | |
| 127 | 4 | 0.00 | | | | 114 | | |
| 141 | 4 | 0.40 | 116 | | | | | |
| 194 | 2 | 1.03 | | | | 120 | | |
| 202 | 2 | -1.03 | 108 | | | | | |
| 210 | 0 | -18.15 | | | | 8 | | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Mn (Manganese) μ g/L



| | |
|-----------------------------|-------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | |
| N = 2 | 6 1 20 1 |
| Minimum = 77900 | 86 88000 79 79200 |
| Maximum = 86470 | 807000 90800 |
| Median = 77100 | 83000 |
| St Dev = | 4226 |

MPV = 82800
 F-pseudostigma = 7650
 N = 30
 Hu = 87500
 HI = 77180

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|-------|--------|---|-------|-------|
| 1 | 4 | -0.10 | | | | 82043 | |
| 3 | 4 | 0.03 | | | | 83000 | |
| 4 | 4 | 0.16 | | | | 84000 | |
| 7 | 3 | 0.92 | | | | 89800 | |
| 8 | 0 | -10.81 | | | | 79 | |
| 11 | 4 | -0.04 | | | | 82500 | |
| 15 | 3 | 0.64 | | | | 87700 | |
| 18 | 3 | -0.73 | | | | 77180 | |
| 32 | 4 | -0.47 | | | | | 79200 |
| 36 | 3 | 0.68 | | 88000 | | | |
| 42 | 4 | 0.16 | | | | 84000 | |
| 48 | 0 | -7.56 | | | | 25000 | |
| 52 | 4 | -0.03 | | | | 82600 | |
| 58 | 3 | -0.58 | | 78400 | | | |
| 59 | 4 | -0.37 | | | | 80000 | |
| 61 | 3 | 0.58 | | | | 87244 | |
| 63 | 0 | -10.81 | | 86 | | | |
| 84 | 3 | -0.92 | | 75800 | | | |
| 85 | 0 | 94.67 | | 807000 | | | |
| 89 | 3 | 0.80 | | 88900 | | | |
| 94 | 4 | 0.07 | | | | 83328 | |
| 105 | 3 | -0.94 | | | | 75600 | |
| 116 | 3 | 0.61 | | | | 87500 | |
| 117 | 0 | -2.56 | | 63240 | | | |
| 119 | 2 | 1.05 | | | | 90800 | |
| 127 | 3 | 0.82 | | | | 89100 | |
| 141 | 4 | 0.48 | 86470 | | | | |
| 194 | 4 | 0.03 | | | | 83000 | |
| 202 | 3 | -0.64 | 77900 | | | | |
| 210 | 0 | -10.74 | | | | 630 | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Mo (Molybdenum) μ g/L**

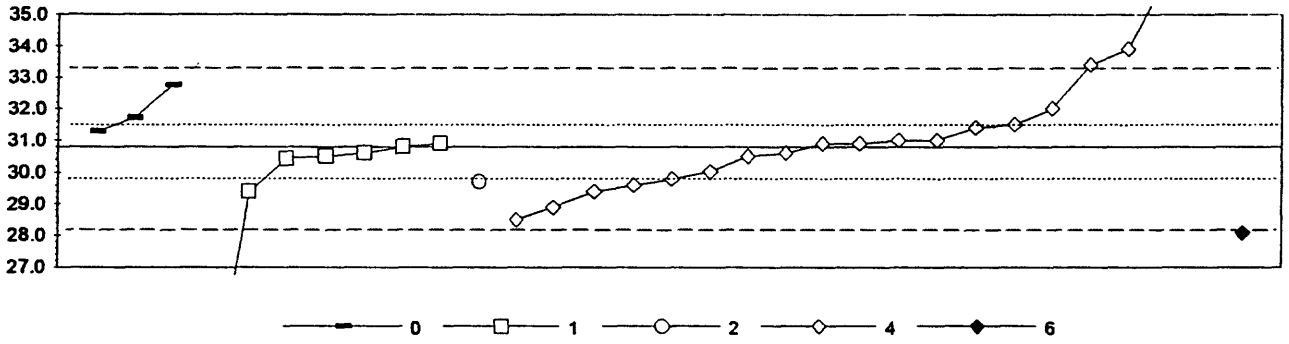
INSUFFICIENT DATA

| | | | |
|-------------------------|-----------|-------|-----|
| 0. Other | 6. ICP/MS | | |
| 3. AA: graphite furnace | | | |
| 4. ICP | | | |
| N = | 5 | 2 | 2 |
| Minimum = | 1.3 | 11.0 | 0.8 |
| Maximum = | 6.6 | 144.0 | 2.0 |
| Median = | | | |
| St Dev = | | | |

MPV =
F-pseudosigma =
N = 6
Hu =
Hi =

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|-----|-------|-----|---|
| 202 | | < 1.0 | | | | |
| 1 | | < 1 | | | | |
| 141 | | < 10 | | | | |
| 94 | | | < 5 | | | |
| 84 | | | < 2 | | | |
| 52 | | | 6.6 | | | |
| 36 | | | 1.3 | | | |
| 61 | | | | < 50 | | |
| 85 | | | | < 50 | | |
| 15 | | | | < 20 | | |
| 7 | | | | < 12 | | |
| 48 | | | | < 10 | | |
| 3 | | | | < 10 | | |
| 8 | | | | < 10 | | |
| 127 | | | | 144.0 | | |
| 210 | | | | 11.0 | | |
| 105 | | | | | 2.0 | |
| 32 | | | | | 0.8 | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Na (Sodium) mg/L**

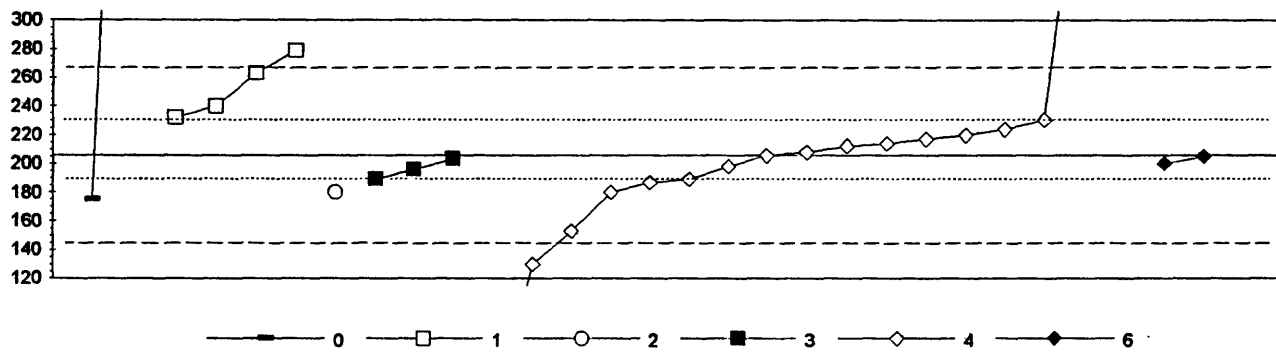


| | | | | | | |
|-----------------------------|-----------|-----------|------|----|------|----|
| 0. Other | | 4. ICP | | | | |
| 1. AA: Direct air | | 6. ICP/MS | | | | |
| 2. AA: direct nitrous oxide | | | | | | |
| | N = | 3 | 7 | 1 | 19 | 1 |
| | Minimum = | 31 | 23 | 30 | 29 | 28 |
| | Maximum = | 33 | 31 | | 311 | |
| | Median = | | 31 | | 31 | |
| | St Dev = | | 0.54 | | 1.43 | |

MPV = 30.8
 F-pseudostigma = 1.26
 N = 31
 Hu = 31.5
 HI = 29.8

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 |
|-----|--------|---------|------|------|---|-------|------|
| 1 | 4 | 0.08 | | 30.9 | | | |
| 3 | 4 | 0.16 | | | | 31.0 | |
| 4 | 1 | -1.83 | | | | 28.5 | |
| 7 | 4 | 0.48 | | | | 31.4 | |
| 8 | 4 | 0.40 | 31.3 | | | | |
| 11 | 3 | 0.56 | | | | 31.5 | |
| 15 | 4 | -0.16 | | | | 30.6 | |
| 18 | 3 | -0.79 | | | | 29.8 | |
| 32 | 0 | -2.14 | | | | | 28.1 |
| 36 | 3 | -0.87 | | 29.7 | | | |
| 37 | 4 | -0.16 | | 30.6 | | | |
| 42 | 4 | -0.24 | | | | 30.5 | |
| 48 | 0 | 4.29 | | | | 36.2 | |
| 52 | 1 | -1.51 | | | | 28.9 | |
| 58 | 0 | -6.59 | 22.5 | | | | |
| 59 | 3 | 0.95 | | | | 32.0 | |
| 61 | 0 | 2.22 | | | | 311.1 | |
| 63 | 0 | 2.06 | | | | 33.4 | |
| 84 | 2 | -1.11 | | 29.4 | | | |
| 85 | 4 | -0.24 | | 30.5 | | | |
| 89 | 4 | 0.00 | | 30.8 | | | |
| 94 | 3 | -0.60 | | | | 30.0 | |
| 105 | 0 | 2.46 | | | | 33.9 | |
| 116 | 4 | 0.08 | | | | 30.9 | |
| 117 | 4 | -0.29 | | 30.4 | | | |
| 119 | 3 | -0.95 | | | | 29.6 | |
| 127 | 4 | 0.08 | | | | 30.9 | |
| 141 | 3 | 0.73 | 31.7 | | | | |
| 194 | 2 | -1.11 | | | | 29.4 | |
| 202 | 1 | 1.56 | 32.8 | | | | |
| 210 | 4 | 0.16 | | | | 31.0 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
 Ni (Nickel) μ g/L

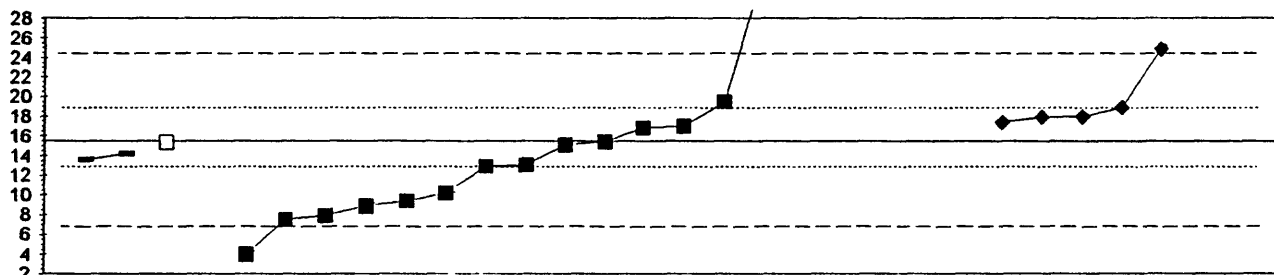


| | | | | | | |
|-----------------------------|-------------------------|-----|-----|-----|--------|-----|
| 0. Other | 3. AA: graphite furnace | | | | | |
| 1. AA: Direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| N = | 2 | 4 | 1 | 3 | 17 | 2 |
| Minimum = | 175 | 232 | 180 | 189 | 22 | 200 |
| Maximum = | 773 | 279 | | 203 | 127000 | 205 |
| Median = | 474 | 252 | | 196 | 208 | 203 |
| St Dev = | | | | | 28.2 | |

MPV = 206
 F-pseudostigma = 30.4
 N = 29
 Hu = 230
 HI = 189

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|-----|--------|-----|
| 1 | 4 | -0.09 | | | | 203 | | |
| 3 | 4 | 0.46 | | | | | 220 | |
| 4 | 0 | 4171.83 | | | | | 127000 | |
| 7 | 4 | 0.20 | | | | | 212 | |
| 8 | 3 | -0.63 | | | | | 187 | |
| 11 | 4 | 0.07 | | | | | 208 | |
| 15 | 3 | -0.56 | | | | 189 | | |
| 18 | 0 | -6.05 | | | | | 22 | |
| 32 | 4 | -0.20 | | | | | | 200 |
| 36 | 3 | -0.86 | | | 180 | | | |
| 37 | 4 | -0.03 | | | | | | 205 |
| 42 | 3 | 0.59 | | | | | 224 | |
| 48 | 3 | 0.79 | | | | | 230 | |
| 52 | 3 | -0.56 | | | | | 189 | |
| 58 | 3 | 0.86 | | 232 | | | | |
| 59 | 0 | 8.03 | | | | | | 450 |
| 61 | 1 | -1.74 | | | | | | 153 |
| 63 | 2 | 1.12 | | 240 | | | | |
| 84 | 1 | 1.88 | | 263 | | | | |
| 85 | 4 | 0.00 | | | | | | 206 |
| 89 | 4 | -0.33 | | | | 196 | | |
| 94 | 4 | -0.26 | | | | | | 198 |
| 105 | 4 | 0.26 | | | | | | 214 |
| 119 | 0 | 2.40 | | 279 | | | | |
| 127 | 4 | 0.36 | | | | | | 217 |
| 141 | 0 | 18.86 | 773 | | | | | |
| 194 | 3 | -0.86 | | | | | | 180 |
| 202 | 2 | -1.02 | 175 | | | | | |
| 210 | 0 | -2.50 | | | | | | 130 |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Pb (Lead) μ g/L



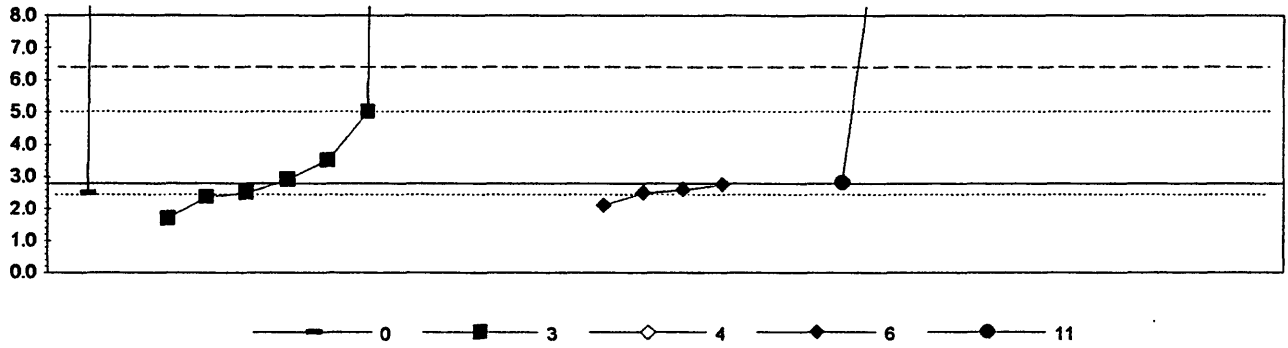
—■— 0 —□— 1 —■— 3 —◇— 4 —◆— 6

| | | | | |
|-------------------------|-----------|------|------|------|
| 0. Other | 4. ICP | | | |
| 1. AA: Direct air | 6. ICP/MS | | | |
| 3. AA: graphite furnace | | | | |
| N = 2 | 1 | 14 | 3 | 5 |
| Minimum = 13.6 | 15.4 | 4.0 | 36.0 | 17.4 |
| Maximum = 14.2 | | 33.7 | 38.0 | 24.9 |
| Median = | | 13.0 | | 18.0 |
| St Dev = | | 4.55 | | |

MPV = 15.5
 F-pseudostigma = 4.45
 N = 25
 Hu = 18.9
 HI = 12.9

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 1 | 2 | -1.36 | | | 9.4 | | |
| 3 | 4 | -0.08 | | | 15.1 | | |
| 4 | 0 | 5.07 | | | | 38.0 | |
| 7 | 0 | 2.12 | | | | | 24.9 |
| 8 | NR | | | | | < 30 | |
| 11 | 0 | 5.07 | | | | 38.0 | |
| 15 | 0 | -2.58 | | | 4.0 | | |
| 18 | 3 | 0.91 | | | 19.5 | | |
| 32 | 4 | 0.44 | | | | | 17.4 |
| 36 | 2 | -1.18 | | | 10.2 | | |
| 37 | 3 | 0.77 | | | | | 18.9 |
| 42 | 3 | 0.57 | | | | | 18.0 |
| 48 | 3 | -0.53 | | | 13.1 | | |
| 52 | 1 | -1.70 | | | 7.9 | | |
| 58 | 4 | -0.01 | | 15.4 | | | |
| 59 | 0 | 4.62 | | | | 36.0 | |
| 61 | NR | | | | | < 50 | |
| 63 | 4 | 0.35 | | | 17.0 | | |
| 84 | NR | | | < 20 | | | |
| 85 | NR | | | < 50 | | | |
| 89 | 1 | -1.78 | | | 7.5 | | |
| 94 | 4 | 0.00 | | | 15.5 | | |
| 105 | 3 | 0.55 | | | | | 17.9 |
| 117 | 0 | 4.10 | | | 33.7 | | |
| 119 | 4 | 0.30 | | | 16.8 | | |
| 127 | 0 | -3.25 | | | | < 1 | |
| 141 | 4 | -0.28 | 14.2 | | | | |
| 194 | 3 | -0.58 | | | 12.9 | | |
| 202 | 4 | -0.42 | 13.6 | | | | |
| 210 | 2 | -1.47 | | | 8.9 | | |

**Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Sb (Antimony) μ g/L**

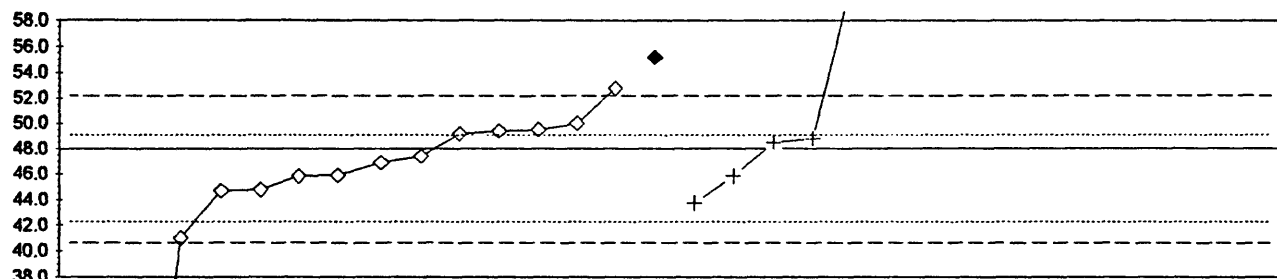


| 0. Other | | 6. ICP/MS | | | | | |
|-------------------------|--|-----------------|--------|-------|-----|------|---|
| 3. AA: graphite furnace | | 11. AA: hydride | | | | | |
| 4. ICP | | N = | 2 | 7 | 1 | 4 | 2 |
| Minimum = | | 2.5 | 1.7 | 664.0 | 2.1 | 2.8 | |
| Maximum = | | 117.0 | 135.0 | | 2.8 | 12.0 | |
| Median = | | | 2.9 | | 2.5 | | |
| St Dev = | | | 1.1495 | | | | |

MPV = 2.7
 F-pseudosigma = 1.85
 N = 16
 Hu = 5.0
 HI = 2.5

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|-------|-------|-------|-----|------|
| 1 | 4 | -0.09 | | 2.5 | | | |
| 3 | 2 | 1.26 | | 5.0 | | | |
| 7 | 4 | -0.09 | | | | 2.5 | |
| 8 | 0 | 5.04 | | | | | 12.0 |
| 18 | 4 | 0.12 | | 2.9 | | | |
| 32 | 4 | -0.31 | | | | 2.1 | |
| 36 | 4 | 0.45 | | 3.5 | | | |
| 42 | 4 | 0.04 | | | | 2.8 | |
| 48 | NR | | | < 3 | | | |
| 52 | NR | | | < 6 | | | |
| 61 | NR | | | | < 50 | | |
| 63 | NR | | | < 5 | | | |
| 85 | 0 | 357.48 | | | 664.0 | | |
| 94 | 3 | -0.52 | | 1.7 | | | |
| 105 | 4 | -0.04 | | | | 2.6 | |
| 117 | 0 | 71.53 | | 135.0 | | | |
| 119 | 4 | 0.07 | | | | | 2.8 |
| 127 | 4 | -0.16 | | 2.4 | | | |
| 141 | 0 | 61.80 | 117.0 | | | | |
| 194 | NR | | | < 5 | | | |
| 202 | 4 | -0.09 | 2.5 | | | | |
| 210 | NR | | | < 5 | | | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
SiO₂ (Silica) mg/L



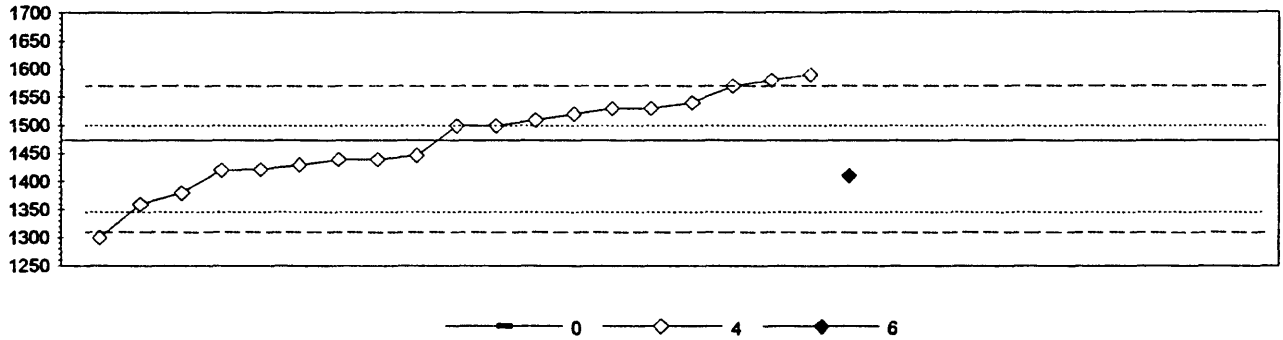
—■— 0 —◇— 4 —◆— 6 —+— 22m

| | | | | |
|-----------|---------------------------|------|------|-------|
| 0. Other | 22m. Color: molydate blue | | | |
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| N = | 0 | 13 | 1 | 6 |
| Minimum = | | 16.5 | 55.2 | 43.7 |
| Maximum = | | 52.8 | | 136.0 |
| Median = | | 48.9 | | 48.7 |
| St Dev = | | 3.13 | | |

MPV = 48.0
 F-pseudostigma = 3.31
 N = 20
 Hu = 49.8
 HI = 45.3

| Lab | Rating | Z-value | 0 | 4 | 6 | 22m |
|-----|--------|---------|-------|------|------|-------|
| 1 | 3 | -0.96 | | 44.8 | | |
| 3 | 4 | 0.38 | | 49.2 | | |
| 4 | 0 | -2.10 | | 41.0 | | |
| 8 | 4 | 0.17 | | | | 48.5 |
| 11 | 2 | 1.46 | | 52.8 | | |
| 15 | 3 | -0.98 | | 44.7 | | |
| 32 | 0 | 2.18 | | | 55.2 | |
| 36 | 0 | 26.57 | | | | 136.0 |
| 37 | 4 | 0.26 | | | | 48.8 |
| 42 | 4 | 0.47 | | 49.5 | | |
| 52 | 2 | -1.28 | | | | 43.7 |
| 61 | 3 | 0.62 | | 50.0 | | |
| 63 | 4 | 0.44 | | 49.4 | | |
| 84 | 0 | 4.06 | | | | 61.4 |
| 89 | 3 | -0.65 | | | | 45.8 |
| 105 | 3 | -0.65 | | 45.8 | | |
| 116 | 4 | -0.17 | | 47.4 | | |
| 119 | 4 | -0.32 | | 46.9 | | |
| 127 | 3 | -0.62 | | 45.9 | | |
| 141 | 0 | -14.44 | < 0.1 | | | |
| 210 | 0 | -9.49 | | 16.5 | | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Sr (Strontium) μ g/L

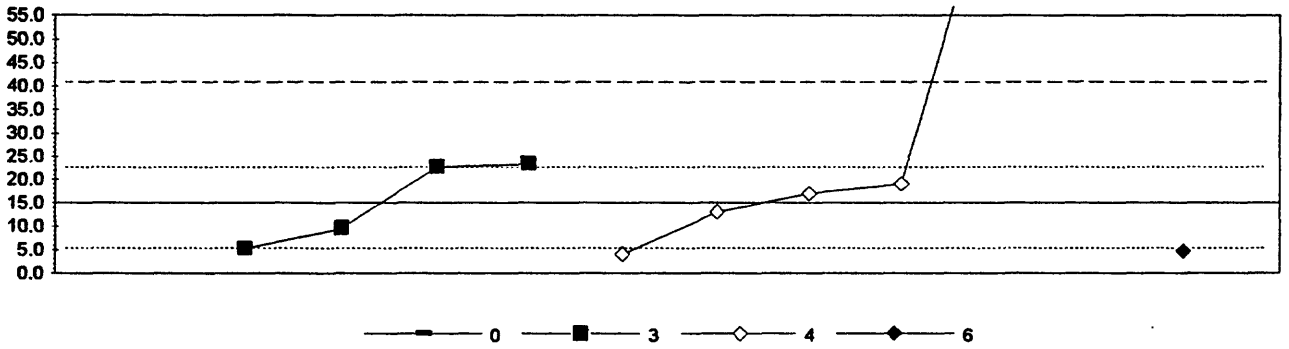


| | | | |
|-----------|---|------|------|
| 0. Other | | | |
| 4. ICP | | | |
| 6. ICP/MS | | | |
| N = | 0 | 19 | 1 |
| Minimum = | | 1300 | 1410 |
| Maximum = | | 1590 | |
| Median = | | 1500 | |
| St Dev = | | 79 | |

MPV = 1474
 F-pseudostigma = 81
 N = 20
 Hu = 1530
 HI = 1421

| Lab | Rating | Z-value | 0 | 4 | 6 |
|-----|--------|---------|---|------|------|
| 1 | 3 | -0.54 | | 1430 | |
| 3 | 4 | -0.41 | | 1440 | |
| 4 | 2 | -1.40 | | 1360 | |
| 7 | 2 | 1.32 | | 1580 | |
| 8 | 2 | 1.19 | | 1570 | |
| 11 | 3 | 0.82 | | 1540 | |
| 15 | 4 | 0.33 | | 1500 | |
| 18 | 4 | -0.33 | | 1447 | |
| 32 | 3 | -0.79 | | | 1410 |
| 42 | 3 | 0.70 | | 1530 | |
| 52 | 2 | -1.16 | | 1380 | |
| 59 | 4 | 0.33 | | 1500 | |
| 63 | 2 | 1.44 | | 1590 | |
| 85 | 4 | -0.41 | | 1440 | |
| 94 | 3 | -0.64 | | 1422 | |
| 105 | 3 | 0.70 | | 1530 | |
| 116 | 4 | 0.45 | | 1510 | |
| 127 | 3 | 0.58 | | 1520 | |
| 194 | 3 | -0.66 | | 1420 | |
| 210 | 0 | -2.15 | | 1300 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
V (Vanadium) μ g/L

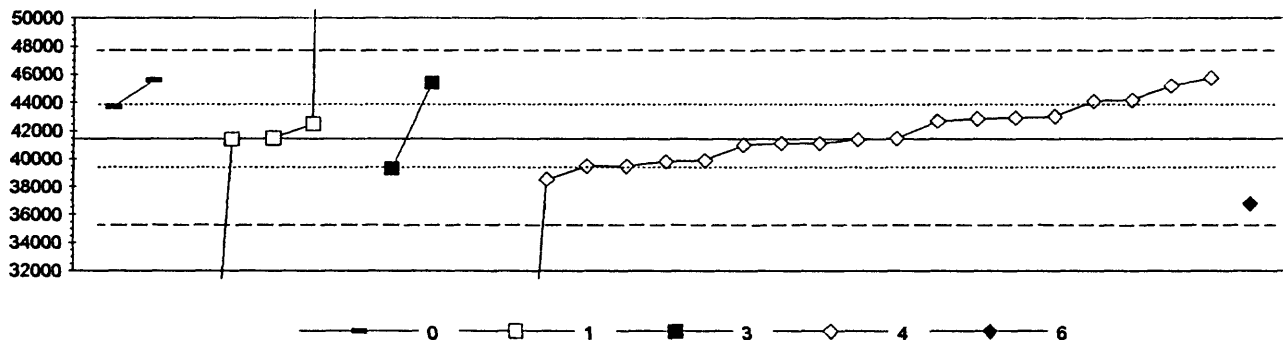


| | | | | | |
|-------------------------|-----------|---|------|------|-----|
| 0. Other | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | N = | 0 | 4 | 5 | 1 |
| | Minimum = | | 5.3 | 4.0 | 4.6 |
| | Maximum = | | 23.3 | 90.0 | |
| | Median = | | 16.1 | 17.0 | |
| | St Dev = | | | | |

MPV = 15.0
 F-pseudostigma = 12.9
 N = 10
 Hu = 22.7
 HI = 5.3

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|-----|
| 1 | 4 | 0.16 | | | 17.0 | |
| 3 | NR | | | | < 10 | |
| 7 | NR | | | | < 14 | |
| 8 | NR | | | | < 5 | |
| 15 | 4 | -0.43 | | 9.5 | | |
| 18 | 4 | 0.31 | | | 19.0 | |
| 32 | 3 | -0.81 | | | | 4.6 |
| 48 | 0 | 5.81 | | | 90.0 | |
| 52 | 3 | 0.64 | | 23.3 | | |
| 58 | 3 | 0.59 | | 22.7 | | |
| 61 | NR | | | | < 5 | |
| 63 | 4 | -0.16 | | | 13.0 | |
| 85 | NR | | | | < 20 | |
| 94 | NR | | | | < 5 | |
| 105 | 3 | -0.85 | | | 4.0 | |
| 127 | 3 | -0.75 | | 5.3 | | |
| 141 | NR | | < 10 | | | |
| 210 | NR | | | | < 50 | |

Table 19. —Statistical summary of reported data for standard reference water sample AMW-3 (acid mine water)—Continued
Zn (Zinc) $\mu\text{g/L}$



| | |
|-------------------------|--------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = 2 | 5 |
| Minimum = 43700 | 359 39300 |
| Maximum = 45580 | 392000 45400 |
| Median = 41500 | 41250 |
| St Dev = 2077 | 2077 |

MPV = 41450
 F-pseudosigma = 3113
 N = 30
 Hu = 43700
 Hl = 39500

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|--------|-------|-------|-------|
| 1 | 3 | -0.52 | | | | 39833 | |
| 3 | 4 | -0.02 | | | | 41400 | |
| 4 | 4 | 0.50 | | | | 43000 | |
| 7 | 2 | 1.20 | | | | 45200 | |
| 8 | 3 | -0.95 | | | | 38500 | |
| 11 | 4 | -0.11 | | | | 41100 | |
| 15 | 3 | 0.88 | | | | 44200 | |
| 18 | 3 | -0.63 | | | | 39480 | |
| 32 | 2 | -1.49 | | | | | 36800 |
| 36 | 3 | -0.69 | | | 39300 | | |
| 42 | 4 | 0.48 | | | | 42930 | |
| 48 | 2 | 1.27 | | | 45400 | | |
| 52 | 4 | 0.02 | | | | 41500 | |
| 58 | 0 | 113 | | 392000 | | | |
| 59 | 4 | -0.14 | | | | 41000 | |
| 61 | 2 | 1.37 | | | | 45715 | |
| 63 | 0 | -13.30 | | | | | 45 |
| 84 | 4 | -0.02 | | 41400 | | | |
| 85 | 4 | 0.34 | | 42500 | | | |
| 89 | 4 | 0.02 | | 41500 | | | |
| 94 | 4 | -0.49 | | | | 39920 | |
| 105 | 4 | -0.11 | | | | 41100 | |
| 116 | 4 | 0.47 | | | | 42900 | |
| 117 | 0 | -13.20 | | 359 | | | |
| 119 | 3 | 0.85 | | | | 44100 | |
| 127 | 4 | 0.40 | | | | 42700 | |
| 141 | 2 | 1.33 | 45580 | | | | |
| 194 | 3 | -0.63 | | | | 39500 | |
| 202 | 3 | 0.72 | 43700 | | | | |
| 210 | 0 | -13.27 | | | | | 130 |

Table 20. --Statistical summary of reported data for standard reference sample WW-1 (whole water)

Definition of analytical methods, abbreviations, and symbols

Analytical methods

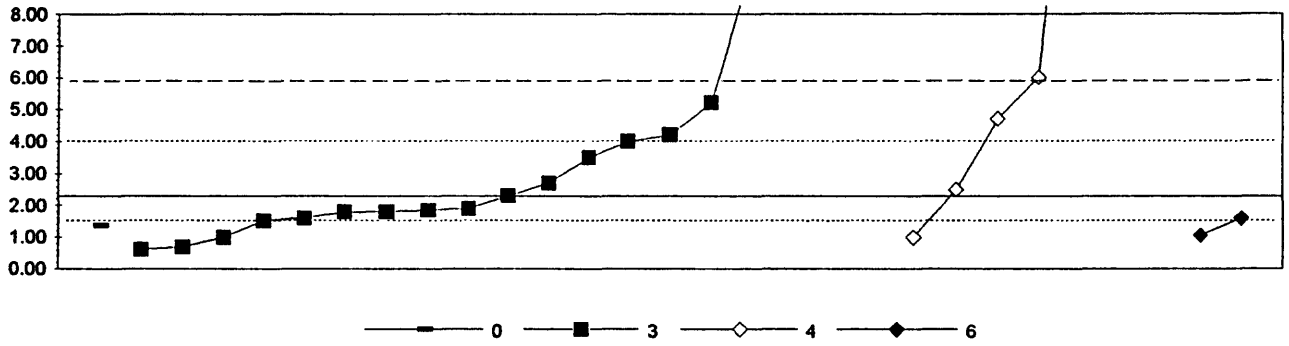
| | | |
|-------------------------|---|--|
| 0. Other/Not reported | = | |
| 1. AA: direct, air | = | atomic absorption: direct,air |
| 2. AA: direct, N2O | = | atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct current plasma |
| 6. ICP/MS | = | inductively coupled plasma/mass spectrometry |
| 10. AA: extraction | = | atomic absorption: extraction [chelating agent(s) specified] |
| 11. AA: hydride | = | atomic absorption: hydride [reducing agent specified] |
| 22. Color: | = | colorimetric [color reagent specified] |

Abbreviations and symbols

| | | |
|---------------|---|-------------------------------------|
| N | = | number of samples |
| St dev | = | traditional standard deviation |
| MPV | = | 95% confidence most probable value |
| F-pseudosigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| μ g/L | = | micrograms per liter |
| m g/L | = | milligrams per liter |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| Constituent | page | Constituent | page |
|--------------|------|---------------|------|
| Ag Silver | 150 | Li Lithium | 163 |
| Al Aluminium | 151 | Mg Magnesium | 164 |
| As Arsenic | 152 | Mn Manganese | 165 |
| B Boron | 153 | Mo Molybdenum | 166 |
| Ba Barium | 154 | Na Sodium | 167 |
| Be Beryllium | 155 | Ni Nickel | 168 |
| Ca Calcium | 156 | Pb Lead | 169 |
| Cd Cadmium | 157 | Sb Antimony | 170 |
| Co Cobalt | 158 | Se Selenium | 171 |
| Cr Chromium | 159 | SiO2 Silica | 172 |
| Cu Copper | 160 | Sr Strontium | 173 |
| Fe Iron | 161 | V Vanadium | 174 |
| K Potassium | 162 | Zn Zinc | 175 |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
 Ag (Silver) μ g/L

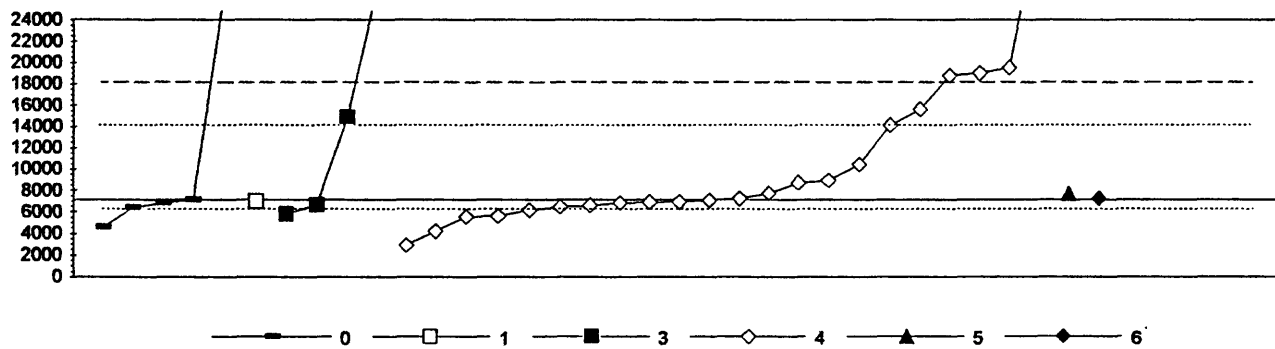


| 0. Other | | 6. ICP/MS | | | |
|-------------------------|--|-----------|-------|-------|------|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| N = | | 1 | 17 | 5 | 2 |
| Minimum = | | 1.36 | 0.62 | 1.00 | 1.07 |
| Maximum = | | 24.00 | 17.70 | 17.70 | 1.60 |
| Median = | | 1.90 | 4.70 | | |
| St Dev = | | 1.351 | | | |

MPV = 2.30
 F-pseudosigma = 1.830
 N = 25
 Hu = 4.00
 HI = 1.53

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|-------|------|
| 1 | 4 | -0.22 | | 1.90 | | |
| 3 | 4 | -0.27 | | 1.80 | | |
| 5 | NR | | | | < 4 | |
| 7 | 4 | 0.00 | | 2.30 | | |
| 8 | NR | | | | < 5 | |
| 15 | 0 | 8.42 | | | 17.70 | |
| 18 | NR | | | | < 5 | |
| 23 | NR | | < 0.2 | | | |
| 25 | NR | | | | < 6 | |
| 32 | 3 | -0.67 | | | | 1.07 |
| 36 | 3 | -0.92 | | 0.62 | | |
| 48 | 3 | -0.87 | | 0.70 | | |
| 52 | 4 | -0.38 | | 1.60 | | |
| 58 | 0 | 3.96 | | 9.55 | | |
| 61 | 2 | 1.31 | | | 4.70 | |
| 63 | 0 | 11.86 | | 24.00 | | |
| 69 | 4 | -0.25 | | 1.84 | | |
| 89 | 4 | 0.22 | | 2.71 | | |
| 94 | NR | | | | < 5 | |
| 97 | NR | | < 0 | | | |
| 102 | 3 | -0.71 | | | 1.00 | |
| 105 | 4 | -0.38 | | | | 1.60 |
| 117 | 2 | 1.04 | | 4.20 | | |
| 119 | 1 | 1.58 | | 5.20 | | |
| 120 | 3 | -0.71 | | 1.00 | | |
| 141 | NR | | | | < 10 | |
| 142 | 3 | 0.66 | | 3.50 | | |
| 144 | 3 | 0.93 | | 4.00 | | |
| 146 | 4 | 0.11 | | | 2.50 | |
| 180 | 0 | 2.02 | | | 6.00 | |
| 202 | 3 | -0.51 | 1.36 | | | |
| 204 | 4 | -0.28 | | 1.78 | | |
| 210 | 4 | -0.42 | | 1.53 | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Al (Aluminum) μ g/L

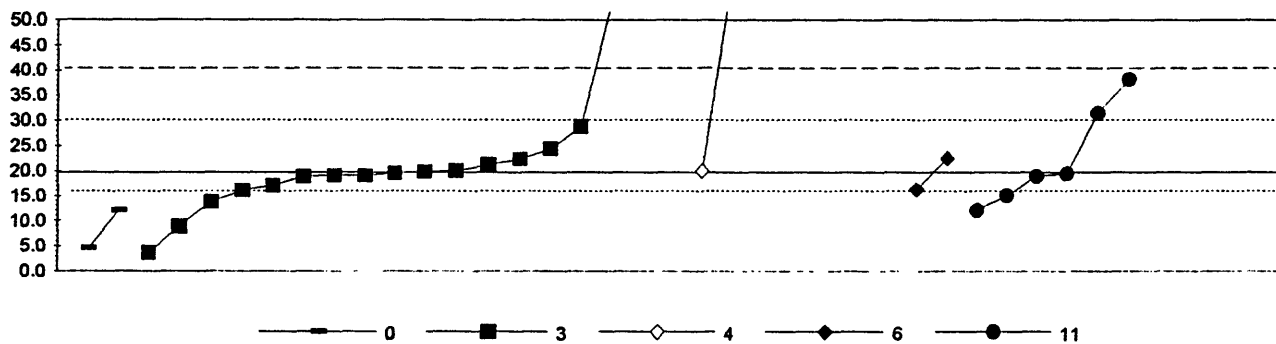


| | | | | | |
|-------------------------|-----------|-------|-------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 5. DCP | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | |
| N = 5 | 1 | 4 | 22 | 1 | 1 |
| Minimum = 4550 | 7000 | 5800 | 2900 | 7650 | 7160 |
| Maximum = 27000 | | 27186 | 33930 | | |
| Median = 6833 | | 10755 | 7154 | | |
| St Dev = | | 5016 | | | |

MPV = 7084
 F-pseudosigma = 5688
 N = 34
 Hu = 14101
 HI = 6428

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-------|------|-------|-------|------|------|
| 1 | 4 | 0.10 | | | | | 7650 | |
| 3 | 4 | -0.27 | | | | 5530 | | |
| 5 | 0 | 4.72 | | | | 33930 | | |
| 7 | 4 | -0.04 | | | | 6860 | | |
| 8 | 3 | -0.51 | | | | 4200 | | |
| 11 | 3 | 0.58 | | | | 10400 | | |
| 15 | 4 | -0.17 | | | | 6110 | | |
| 18 | 4 | 0.00 | | | | 7067 | | |
| 25 | 4 | 0.33 | | | | 8940 | | |
| 32 | 4 | 0.01 | | | | | | 7160 |
| 36 | 4 | -0.45 | 4550 | | | | | |
| 48 | 0 | 2.06 | | | | 18800 | | |
| 52 | 4 | 0.28 | | | | 8660 | | |
| 58 | 2 | 1.37 | | | 14900 | | | |
| 59 | 3 | -0.74 | | | | 2900 | | |
| 61 | 2 | 1.23 | | | | 14101 | | |
| 63 | 4 | 0.11 | | | | 7700 | | |
| 68 | 0 | 3.50 | 27000 | | | | | |
| 69 | 4 | -0.04 | 6833 | | | | | |
| 89 | 4 | -0.08 | | | 6610 | | | |
| 94 | 4 | -0.26 | | | | 5616 | | |
| 97 | 0 | 3.53 | | | 27186 | | | |
| 102 | 2 | 1.50 | | | | 15610 | | |
| 105 | 4 | -0.09 | | | | 6550 | | |
| 119 | 4 | -0.03 | | | | 6940 | | |
| 120 | 4 | -0.01 | | 7000 | | | | |
| 141 | 4 | -0.05 | | | | 6798 | | |
| 142 | 4 | -0.12 | | | | 6428 | | |
| 146 | 4 | 0.03 | | | | 7240 | | |
| 180 | 0 | 2.18 | | | | 19500 | | |
| 202 | 4 | -0.13 | 6350 | | | | | |
| 204 | 4 | -0.23 | | | 5800 | | | |
| 210 | 0 | 2.10 | | | | 19000 | | |
| 212 | 4 | 0.00 | 7100 | | | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
As (Arsenic) μ g/L

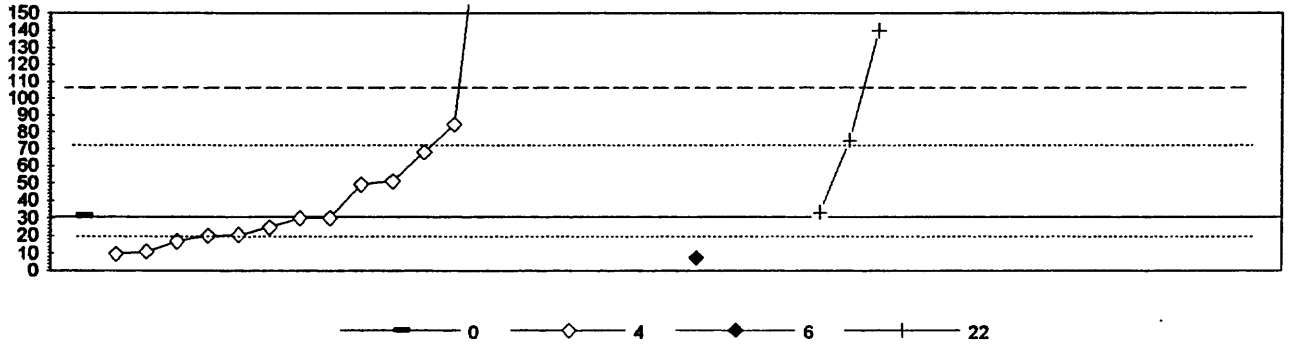


| | | | | | | |
|-------------------------|-----------|------|-----------------|-------|------|-------|
| 0. Other | | | 6. ICP/MS | | | |
| 3. AA: graphite furnace | | | 11. AA: hydride | | | |
| 4. ICP | N = | 2 | 18 | 4 | 2 | 6 |
| | Minimum = | 4.7 | 3.7 | 20.0 | 16.3 | 12.1 |
| | Maximum = | 12.0 | 88.0 | 183.7 | 22.5 | 38.1 |
| | Median = | | 19.7 | 83.5 | 19.4 | 19.2 |
| | St Dev = | | 10.66 | | | 10.11 |

MPV = 19.7
F-pseudostigma = 10.30
N = 32
Hu = 30.1
Hi = 16.2

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|------|---|-------|------|------|
| 1 | 3 | -0.74 | | | | | 12.1 |
| 3 | 4 | 0.45 | 24.3 | | | | |
| 5 | 0 | 15.92 | | | 183.7 | | |
| 7 | 1 | -1.55 | 3.7 | | | | |
| 8 | 4 | -0.46 | | | | | 15.0 |
| 15 | 4 | -0.35 | 16.1 | | | | |
| 18 | 4 | -0.06 | 19.1 | | | | |
| 23 | 2 | -1.05 | 8.9 | | | | |
| 25 | NR | | | | < 50 | | |
| 32 | 4 | 0.27 | | | | 22.5 | |
| 36 | 3 | -0.57 | 13.8 | | | | |
| 48 | 4 | 0.01 | 19.8 | | | | |
| 52 | 4 | -0.01 | 19.6 | | | | |
| 58 | 0 | 3.32 | 53.9 | | | | |
| 59 | 4 | 0.03 | | | 20.0 | | |
| 61 | 4 | 0.25 | 22.3 | | | | |
| 63 | 4 | 0.03 | 20.0 | | | | |
| 69 | 4 | -0.07 | 19.0 | | | | |
| 89 | 4 | -0.03 | | | | | 19.4 |
| 94 | 4 | -0.26 | 17.0 | | | | |
| 97 | 1 | 1.79 | | | | | 38.1 |
| 102 | 0 | 3.81 | | | 59.0 | | |
| 105 | 4 | -0.33 | | | | 16.3 | |
| 117 | 0 | 5.27 | 74.0 | | | | |
| 119 | 4 | -0.07 | | | | | 19.0 |
| 120 | 2 | 1.15 | | | | | 31.5 |
| 141 | NR | | | | < 50 | | |
| 142 | 4 | 0.15 | 21.3 | | | | |
| 144 | 0 | 6.63 | 88.0 | | | | |
| 146 | 3 | 0.87 | 28.7 | | | | |
| 180 | 0 | 8.57 | | | 108.0 | | |
| 202 | 2 | -1.46 | 4.7 | | | | |
| 204 | 4 | -0.06 | 19.1 | | | | |
| 210 | NR | | | | < 50 | | |
| 212 | 3 | -0.75 | 12.0 | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
B (Boron) μ g/L

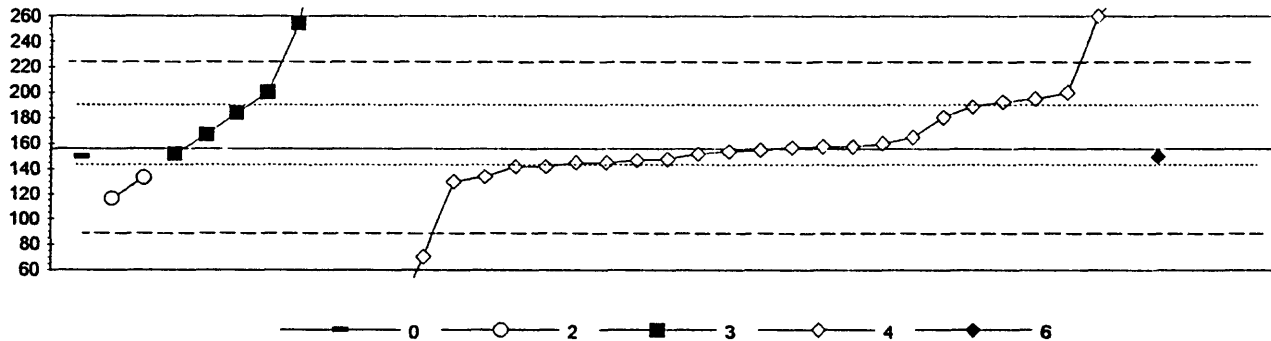


| 0. Other | | 22. Colorimetric | | | |
|-----------|--|------------------|-----|---|-----|
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| N = | | 1 | 14 | 1 | 3 |
| Minimum = | | 31 | 10 | 7 | 33 |
| Maximum = | | | 300 | | 140 |
| Median = | | | 27 | | 75 |
| St Dev = | | | 24 | | |

MPV = 31
 F-pseudostigma = 38
 N = 19
 Hu = 72
 HI = 20

| Lab | Rating | Z-value | 0 | 4 | 6 | 22 |
|-----|--------|---------|----|-------|---|-----|
| 1 | 3 | -0.56 | | 10 | | |
| 3 | 4 | -0.30 | | 20 | | |
| 5 | 4 | 0.48 | | 49 | | |
| 8 | NR | | | < 10 | | |
| 11 | 4 | -0.03 | | 30 | | |
| 15 | 0 | 5.54 | | 242 | | |
| 18 | 4 | -0.38 | | 17 | | |
| 23 | 2 | 1.15 | | | | 75 |
| 25 | NR | | | < 23 | | |
| 32 | 3 | -0.64 | | | 7 | |
| 36 | 4 | 0.04 | | | | 33 |
| 48 | NR | | | < 10 | | |
| 52 | NR | | | < 300 | | |
| 61 | 2 | 1.40 | | 85 | | |
| 63 | 3 | 0.97 | | 68 | | |
| 68 | 0 | 7.07 | | 300 | | |
| 94 | 3 | -0.53 | | 11 | | |
| 119 | 3 | 0.52 | | 51 | | |
| 129 | 0 | 2.86 | | | | 140 |
| 142 | 4 | -0.03 | | 30 | | |
| 146 | 4 | -0.17 | | 25 | | |
| 180 | 4 | -0.29 | | 20 | | |
| 210 | NR | | | < 100 | | |
| 212 | 4 | 0.00 | 31 | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Ba (Barium) μ g/L

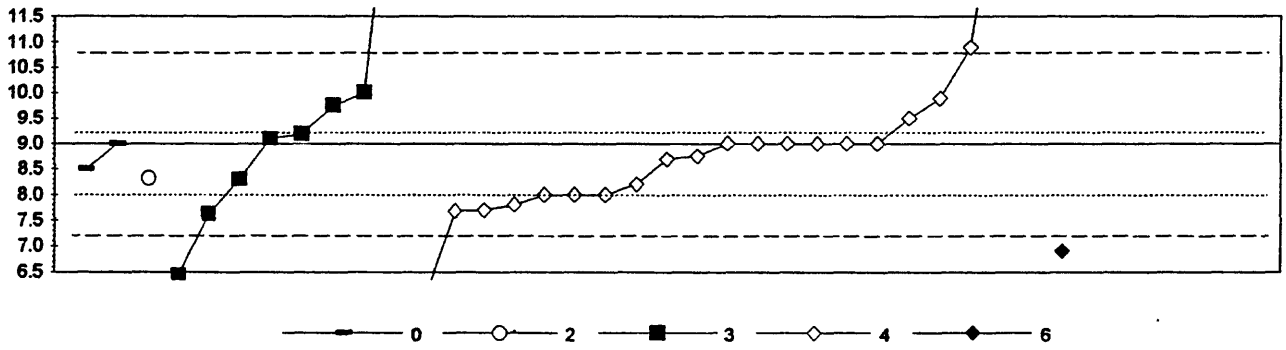


| | 1 | 2 | 7 | 25 | 1 |
|-----------|-----|-----|-----|-----|-----|
| N = | 1 | 2 | 7 | 25 | 1 |
| Minimum = | 150 | 116 | 152 | 13 | 150 |
| Maximum = | | 133 | 820 | 287 | |
| Median = | | | 200 | 155 | |
| St Dev = | | | 39 | 35 | |

MPV = 156
F-pseudostigma = 34
N = 36
Hu = 191
Hi = 145

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|---|-----|-----|-----|
| 1 | 4 | -0.32 | | | | 145 | |
| 3 | 3 | -0.65 | | | | 134 | |
| 5 | 0 | 3.84 | | | | 287 | |
| 7 | 4 | -0.12 | | | | 152 | |
| 8 | 4 | -0.41 | | | | 142 | |
| 11 | 4 | 0.06 | | | | 158 | |
| 15 | 4 | -0.32 | | | | 145 | |
| 18 | 4 | -0.26 | | | | 147 | |
| 23 | 2 | -1.17 | 116 | | | | |
| 25 | 4 | 0.26 | | | | 165 | |
| 32 | 4 | -0.18 | | | | | 150 |
| 36 | 3 | -0.67 | 133 | | | | |
| 46 | 3 | 0.97 | | | | 189 | |
| 48 | 4 | -0.12 | | | 152 | | |
| 52 | 4 | 0.03 | | | | 157 | |
| 58 | 2 | 1.29 | | | 200 | | |
| 59 | 3 | -0.76 | | | | 130 | |
| 61 | 2 | 1.14 | | | | 195 | |
| 63 | 4 | 0.12 | | | | 160 | |
| 68 | 0 | 3.05 | | | | 260 | |
| 69 | 3 | 0.82 | | | 184 | | |
| 89 | 0 | 19.47 | | | 820 | | |
| 94 | 4 | -0.41 | | | | 142 | |
| 97 | 0 | 2.87 | | | 254 | | |
| 102 | 2 | 1.09 | | | | 193 | |
| 105 | 4 | -0.03 | | | | 155 | |
| 117 | 0 | 6.48 | | | 377 | | |
| 119 | 4 | -0.23 | | | | 148 | |
| 120 | 4 | 0.32 | | | 167 | | |
| 141 | 4 | 0.06 | | | | 158 | |
| 142 | 4 | -0.06 | | | | 154 | |
| 146 | 0 | -4.19 | | | | 13 | |
| 180 | 3 | 0.73 | | | | 181 | |
| 204 | 0 | -2.50 | | | | 71 | |
| 210 | 2 | 1.29 | | | | 200 | |
| 212 | 4 | -0.18 | 150 | | | | |

**Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Be (Beryllium) μ g/L**

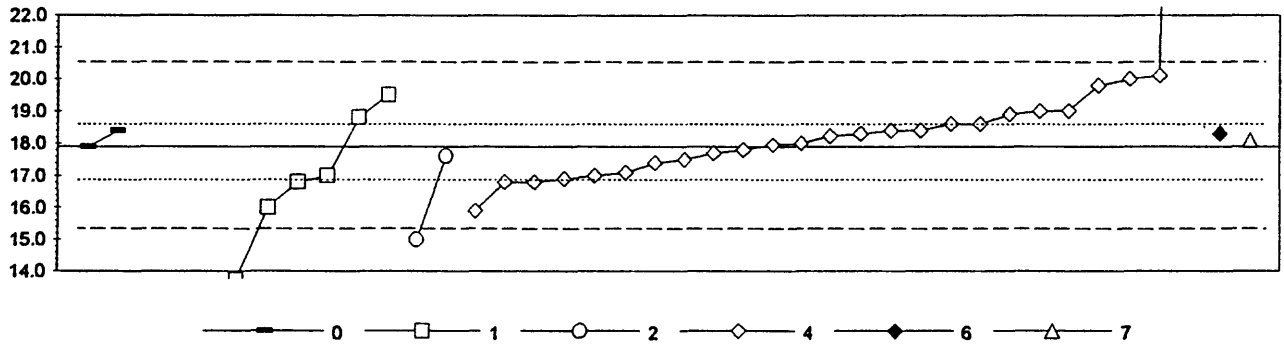


| | |
|-----------------------------|-------------------------------------|
| 0. Other | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 2 1 8 21 1 |
| Minimum = | 8.5 8.3 6.4 6.0 6.9 |
| Maximum = | 9.0 15.5 15.0 |
| Median = | 9.2 9.0 |
| St Dev = | 2.70 2.14 |

MPV = 9.0
F-pseudosigma = 0.89
N = 33
Hu = 9.2
Hi = 8.0

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|------|------|-----|
| 1 | 4 | -0.27 | | | | 8.8 | |
| 3 | 2 | -1.12 | | | | 8.0 | |
| 5 | 0 | 2.13 | | | | 10.9 | |
| 7 | 4 | 0.00 | | | | 9.0 | |
| 8 | 2 | -1.12 | | | | 8.0 | |
| 11 | 4 | 0.00 | | | | 9.0 | |
| 15 | 0 | 6.52 | | | | 14.8 | |
| 18 | 2 | -1.12 | | | | 8.0 | |
| 25 | 3 | -0.90 | | | | 8.2 | |
| 32 | 0 | -2.36 | | | | | 6.9 |
| 36 | 3 | -0.76 | | 8.3 | | | |
| 46 | 2 | 1.01 | | | | 9.9 | |
| 48 | 4 | 0.22 | | | 9.2 | | |
| 52 | 0 | -2.89 | | | 6.4 | | |
| 58 | 0 | 7.30 | | | 15.5 | | |
| 59 | 4 | 0.00 | | | | 9.0 | |
| 61 | 3 | 0.56 | | | | 9.5 | |
| 63 | 4 | 0.00 | | | | 9.0 | |
| 68 | 4 | 0.11 | | | 9.1 | | |
| 69 | 1 | -1.55 | | | 7.6 | | |
| 94 | 4 | 0.00 | | | | 9.0 | |
| 97 | 3 | 0.84 | | | 9.8 | | |
| 102 | 0 | -3.37 | | | | 6.0 | |
| 105 | 4 | -0.34 | | | | 8.7 | |
| 119 | 2 | 1.12 | | | 10.0 | | |
| 120 | 3 | -0.79 | | | 8.3 | | |
| 141 | 4 | 0.00 | | | | 9.0 | |
| 142 | 2 | -1.48 | | | | 7.7 | |
| 146 | 2 | -1.46 | | | | 7.7 | |
| 180 | 2 | -1.35 | | | | 7.8 | |
| 202 | 4 | 0.00 | 9.0 | | | | |
| 210 | 0 | 6.74 | | | | 15.0 | |
| 212 | 3 | -0.56 | 8.5 | | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Ca (Calcium) mg/L

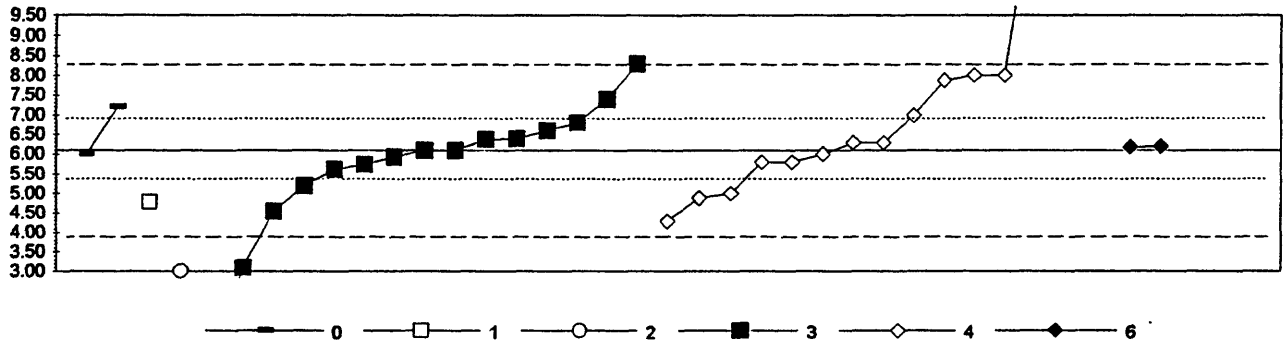


| | | | | | |
|-----------------------------|-----------------------|------|-------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 6. ICP/MS | | | | |
| 2. AA: direct nitrous oxide | 7. Ion chromatography | | | | |
| N = 2 | 9 | 2 | 25 | 1 | 1 |
| Minimum = 17.9 | 5.8 | 15.0 | 15.9 | 18.3 | 18.1 |
| Maximum = 18.4 | 19.5 | 17.6 | 18729 | | |
| Median = | 16.0 | 18.2 | | | |
| St Dev = | 2.06 | 1.07 | | | |

MPV = 17.9
 F-pseudostigma = 1.30
 N = 40
 Hu = 18.6
 Hl = 16.9

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|------|------|------|-------|---|------|
| 1 | 3 | -0.87 | | 16.8 | | | | |
| 3 | 3 | -0.87 | | | | 16.8 | | |
| 5 | 3 | 0.83 | | | | 19.0 | | |
| 7 | 3 | 0.52 | | | | 18.6 | | |
| 8 | 3 | 0.52 | | | | 18.6 | | |
| 11 | 4 | 0.36 | | | | 18.4 | | |
| 15 | 3 | 0.82 | | | | 19.0 | | |
| 18 | 4 | -0.41 | | | | 17.4 | | |
| 23 | 4 | -0.25 | | | 17.6 | | | |
| 25 | 3 | 0.75 | | | | 18.9 | | |
| 30 | 3 | -0.72 | | 17.0 | | | | |
| 32 | 4 | 0.29 | | | | 18.3 | | |
| 36 | 0 | -2.26 | | | 15.0 | | | |
| 46 | 2 | 1.44 | | | | 19.8 | | |
| 48 | 1 | 1.67 | | | | 20.1 | | |
| 52 | 4 | -0.18 | | | | 17.7 | | |
| 58 | 0 | -9.39 | | 5.8 | | | | |
| 59 | 4 | 0.05 | | | | 18.0 | | |
| 61 | 0 | 14424 | | | | 18729 | | |
| 63 | 4 | 0.36 | | | | 18.4 | | |
| 68 | 1 | 1.60 | | | | 20.0 | | |
| 89 | 3 | 0.67 | | 18.8 | | | | |
| 94 | 4 | 0.23 | | | | 18.2 | | |
| 97 | 0 | -4.03 | | 12.7 | | | | |
| 102 | 4 | 0.29 | | | | 18.3 | | |
| 105 | 3 | -0.79 | | | | 16.9 | | |
| 117 | 0 | -3.24 | | 13.7 | | | | |
| 119 | 3 | -0.64 | | | | 17.1 | | |
| 120 | 0 | -3.95 | | 12.8 | | | | |
| 129 | 2 | -1.49 | | 16.0 | | | | |
| 140 | 2 | 1.23 | | 19.5 | | | | |
| 141 | 4 | -0.10 | | | | 17.8 | | |
| 142 | 4 | 0.02 | | | | 18.0 | | |
| 146 | 1 | -1.56 | | | | 15.9 | | |
| 180 | 3 | -0.87 | | | | 16.8 | | |
| 190 | 4 | 0.13 | | | | | | 18.1 |
| 202 | 4 | -0.02 | 17.9 | | | | | |
| 204 | 4 | -0.33 | | | | 17.5 | | |
| 210 | 3 | -0.72 | | | | 17.0 | | |
| 212 | 4 | 0.36 | 18.4 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Cd (Cadmium) μ g/L

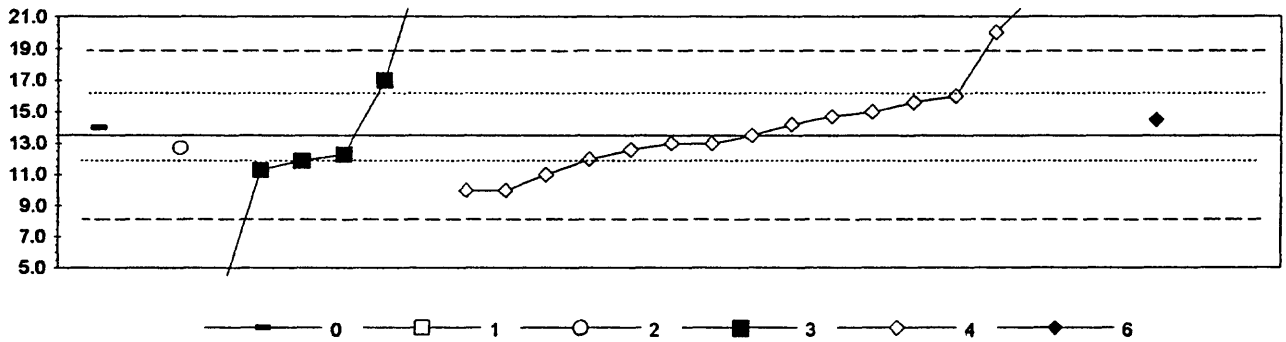


| | | | | | |
|-----------------------------|-------------------------|------|--------|--------|------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: Direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 2 | 1 | 1 | 15 | 14 | 2 |
| Minimum = 6.00 | 4.80 | 3.02 | 0.48 | 4.30 | 6.18 |
| Maximum = 7.20 | | | 8.30 | 28.50 | 6.20 |
| Median = 6.10 | | | 6.10 | 6.30 | 6.19 |
| St Dev = 1.2384 | | | 1.2384 | 1.2447 | |

MPV = 6.10
F-pseudosigma = 1.105
N = 35
Hu = 6.90
Hi = 5.41

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|---|------|-------|-------|
| 1 | 4 | 0.00 | | | | 6.10 | | |
| 3 | 3 | -0.81 | | | | 5.20 | | |
| 5 | 1 | 1.62 | | | | | 7.89 | |
| 7 | 2 | 1.18 | | | | 7.40 | | |
| 8 | 3 | 0.81 | | | | | 7.00 | |
| 11 | 4 | -0.09 | | | | | 6.00 | |
| 15 | NR | | | | | | < 10 | |
| 18 | 2 | -1.10 | | | | | 4.89 | |
| 23 | 4 | -0.43 | | | | 5.62 | | |
| 25 | 1 | 1.72 | | | | | 8.00 | |
| 32 | 4 | 0.09 | | | | | | 6.20 |
| 36 | 0 | -2.79 | | 3.02 | | | | |
| 48 | 4 | 0.27 | | | | 6.40 | | |
| 52 | 0 | -5.09 | | | | 0.48 | | |
| 58 | 1 | 1.99 | | | | 8.30 | | |
| 59 | 1 | 1.72 | | | | | 8.00 | |
| 61 | 1 | -1.63 | | | | | 4.30 | |
| 63 | 0 | -2.72 | | | | 3.10 | | |
| 68 | 0 | 20.28 | | | | | 28.50 | |
| 69 | 4 | -0.14 | | | | 5.94 | | |
| 89 | 4 | 0.25 | | | | 6.38 | | |
| 94 | 4 | 0.18 | | | | | 6.30 | |
| 97 | 4 | -0.33 | | | | 5.74 | | |
| 102 | 3 | -1.00 | | | | | 5.00 | |
| 105 | 4 | 0.07 | | | | | | 6.18 |
| 119 | 4 | 0.45 | | | | 6.60 | | |
| 120 | 3 | 0.63 | | | | 6.80 | | |
| 140 | 2 | -1.18 | 4.80 | | | | | |
| 141 | 4 | 0.18 | | | | | 6.30 | |
| 142 | 4 | 0.00 | | | | 6.10 | | |
| 146 | 4 | -0.27 | | | | | 5.80 | |
| 180 | 4 | -0.27 | | | | | 5.80 | |
| 202 | 4 | -0.09 | 6.00 | | | | | |
| 204 | 2 | -1.40 | | | | 4.55 | | |
| 210 | 0 | 6.25 | | | | | | 13.00 |
| 212 | 3 | 1.00 | 7.20 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Co (Cobalt) μ g/L

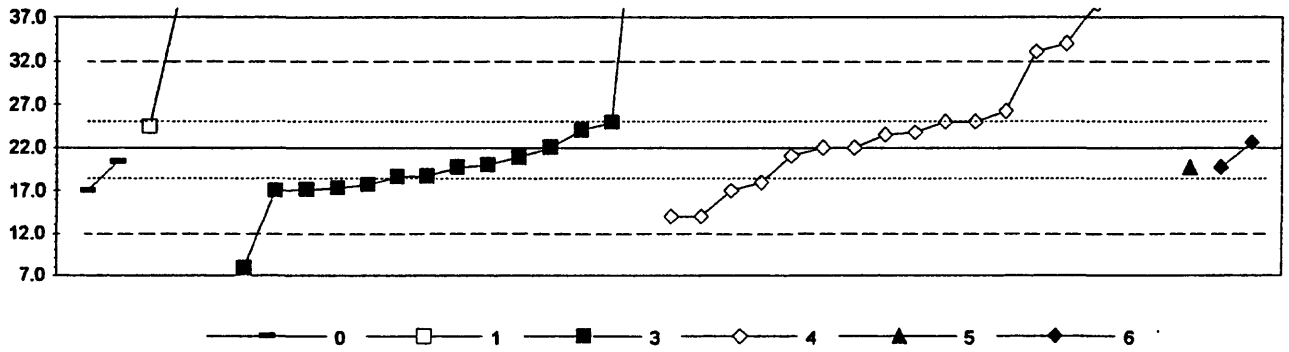


| | | | | | | |
|-----------------------------|------|------|-------------------------|------|------|------|
| 0. Other | | | 3. AA: graphite furnace | | | |
| 1. AA: Direct air | 1 | 1 | 1 | 6 | 15 | 1 |
| 2. AA: direct nitrous oxide | | | 4. ICP | | | |
| | | | 6. ICP/MS | | | |
| Minimum = | 14.0 | 30.0 | 12.7 | 3.3 | 10.0 | 14.5 |
| Maximum = | | | | 25.1 | 22.5 | |
| Median = | | | | 12.1 | 13.5 | |
| St Dev = | | | | 2.62 | 2.65 | |

MPV = 13.5
 F-pseudostigma = 2.67
 N = 25
 Hu = 15.6
 HI = 12.0

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 3 | -0.60 | | | | 11.9 | | |
| 3 | 2 | -1.31 | | | | | 10.0 | |
| 5 | 0 | 3.39 | | | | | 22.5 | |
| 7 | 4 | 0.45 | | | | | 14.7 | |
| 8 | 2 | -1.31 | | | | | 10.0 | |
| 11 | 4 | -0.19 | | | | | 13.0 | |
| 15 | 3 | -0.82 | | | | 11.3 | | |
| 18 | 3 | 0.94 | | | | | 16.0 | |
| 25 | 3 | 0.56 | | | | | 15.0 | |
| 32 | 4 | 0.37 | | | | | | 14.5 |
| 36 | 4 | -0.30 | | | 12.7 | | | |
| 48 | NR | | | | | | | < 50 |
| 52 | 0 | 4.35 | | | | 25.1 | | |
| 58 | 4 | -0.45 | | | | 12.3 | | |
| 61 | 4 | 0.26 | | | | | 14.2 | |
| 63 | 0 | 6.18 | | 30.0 | | | | |
| 68 | 0 | 2.44 | | | | | 20.0 | |
| 89 | 2 | 1.31 | | | | 17.0 | | |
| 94 | 4 | -0.19 | | | | | 13.0 | |
| 97 | 0 | -3.81 | | | | 3.3 | | |
| 102 | 3 | -0.94 | | | | | 11.0 | |
| 105 | 4 | -0.34 | | | | | 12.6 | |
| 141 | 3 | -0.56 | | | | | 12.0 | |
| 146 | 4 | 0.00 | | | | | 13.5 | |
| 180 | 3 | 0.79 | | | | | 15.6 | |
| 210 | NR | | | | | | | < 50 |
| 212 | 4 | 0.19 | 14.0 | | | | | |

**Table 20. –Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Cr (total Chromium) μ g/L**

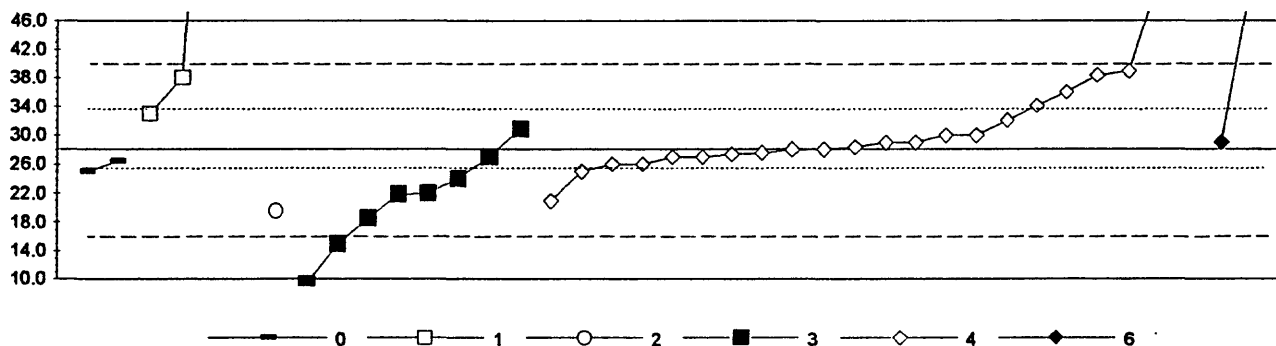


| | | | | | |
|-------------------------|----------|------|-------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 5. DCP | | | | |
| 3. AA: graphite furnace | 6. ICPMS | | | | |
| N = 2 | 3 | 14 | 17 | 1 | 2 |
| Minimum = 17.0 | 24.5 | 7.9 | 14.0 | 19.8 | 19.7 |
| Maximum = 20.4 | 68.0 | 60.0 | 110.0 | | |
| Median = | 19.2 | 23.8 | | | |
| St Dev = | 4.18 | 6.02 | | | |

MPV = 22.0
 F-pseudostigma = 4.97
 N = 39
 Hu = 25.0
 HI = 18.3

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|-------|------|------|
| 1 | 4 | -0.45 | | | | | 19.8 | |
| 3 | 1 | -1.61 | | | | 14.0 | | |
| 5 | 0 | 4.94 | | | | 46.6 | | |
| 7 | 4 | 0.30 | | | | 23.5 | | |
| 8 | 2 | -1.01 | | | | 17.0 | | |
| 11 | 3 | 0.60 | | | | 25.0 | | |
| 15 | 4 | -0.46 | | | 19.7 | | | |
| 18 | 4 | 0.00 | | | | 22.0 | | |
| 23 | 0 | -2.84 | | | 7.9 | | | |
| 25 | 4 | 0.00 | | | | 22.0 | | |
| 32 | 4 | 0.12 | | | | | | 22.6 |
| 36 | 3 | -0.95 | | | 17.3 | | | |
| 46 | 0 | 3.34 | | | | 38.6 | | |
| 48 | 3 | -0.68 | | | 18.6 | | | |
| 52 | 3 | 0.58 | | | 24.9 | | | |
| 58 | 4 | 0.00 | | | 22.0 | | | |
| 59 | 1 | -1.61 | | | | 14.0 | | |
| 61 | 3 | 0.87 | | | | 26.3 | | |
| 63 | 2 | -1.01 | | | 17.0 | | | |
| 68 | 0 | 2.42 | | | | 34.0 | | |
| 69 | 4 | -0.40 | | | 20.0 | | | |
| 89 | 4 | 0.40 | | | 24.0 | | | |
| 94 | 3 | -0.81 | | | | 18.0 | | |
| 97 | 0 | 7.65 | | | 60.0 | | | |
| 102 | 3 | 0.60 | | | | 25.0 | | |
| 105 | 4 | -0.46 | | | | | | 19.7 |
| 117 | 4 | 0.50 | | 24.5 | | | | |
| 119 | 4 | -0.22 | | | 20.9 | | | |
| 120 | 3 | -0.66 | | | 18.7 | | | |
| 140 | 0 | 3.72 | | 40.5 | | | | |
| 141 | 4 | 0.36 | | | | 23.8 | | |
| 142 | 3 | -0.99 | | | 17.1 | | | |
| 144 | 0 | 9.26 | | 68.0 | | | | |
| 146 | 4 | -0.18 | | | | 21.1 | | |
| 180 | 0 | 2.23 | | | | 33.1 | | |
| 202 | 2 | -1.01 | 17.0 | | | | | |
| 204 | 3 | -0.87 | | | 17.7 | | | |
| 210 | 0 | 17.72 | | | | 110.0 | | |
| 212 | 4 | -0.32 | 20.4 | | | | | |

**Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Cu (Copper) μ g/L**

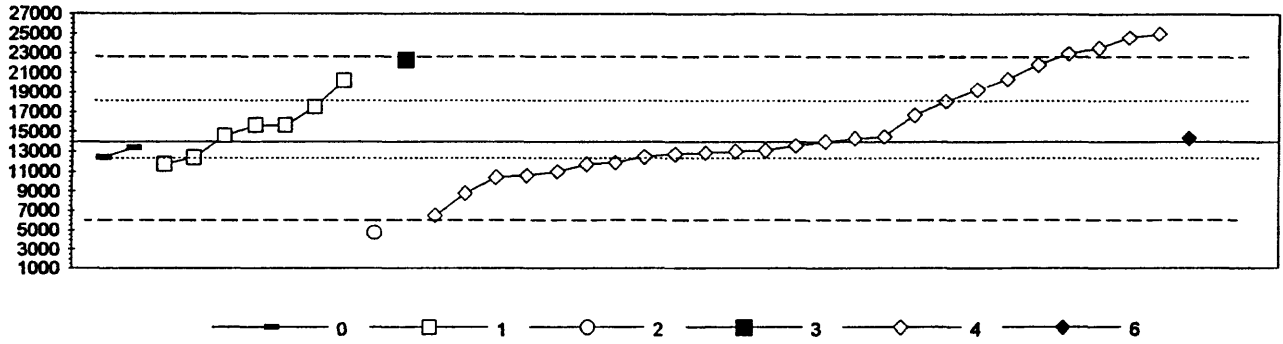


| | | | | | |
|-----------------------------|-------------------------|------|------|------|------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: Direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 2 | 4 | 1 | 8 | 22 | 2 |
| Minimum = 25.0 | 33.0 | 19.6 | 9.3 | 20.9 | 29.0 |
| Maximum = 26.4 | 112.0 | | 30.9 | 88.0 | 52.9 |
| Median = 71.6 | | | 21.9 | 28.7 | |
| St Dev = | | | 5.28 | 4.51 | |

MPV = 28.1
 F-pseudostigma = 5.97
 N = 39
 Hu = 33.6
 HI = 25.5

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|------|------|------|------|
| 1 | 4 | -0.13 | | | | | 27.3 | |
| 3 | 0 | 10.04 | | | | | 88.0 | |
| 5 | 0 | 4.12 | | | | | 52.7 | |
| 7 | 4 | 0.00 | | | | | 28.1 | |
| 8 | 4 | -0.18 | | | | | 27.0 | |
| 11 | 4 | -0.02 | | | | | 28.0 | |
| 15 | 0 | -3.15 | | | | 9.3 | | |
| 18 | 4 | -0.18 | | | | | 27.0 | |
| 23 | 1 | -1.61 | | | | 18.5 | | |
| 25 | 4 | -0.35 | | | | | 26.0 | |
| 32 | 4 | 0.15 | | | | | | 29.0 |
| 36 | 2 | -1.42 | | | 19.6 | | | |
| 46 | 1 | 1.73 | | | | | 38.4 | |
| 48 | 4 | 0.32 | | | | | 30.0 | |
| 52 | 4 | 0.15 | | | | | 29.0 | |
| 58 | 4 | -0.18 | | | | 27.0 | | |
| 59 | 4 | 0.32 | | | | | 30.0 | |
| 61 | 1 | 1.83 | | | | | 39.0 | |
| 63 | 3 | 0.82 | | 33.0 | | | | |
| 68 | 2 | 1.32 | | | | | 36.0 | |
| 69 | 3 | -0.69 | | | | 24.0 | | |
| 89 | 0 | -2.21 | | | | 14.9 | | |
| 94 | 3 | -0.52 | | | | | 25.0 | |
| 97 | 4 | 0.47 | | | | 30.9 | | |
| 102 | 3 | 0.65 | | | | | 32.0 | |
| 105 | 4 | 0.15 | | | | | 29.0 | |
| 117 | 0 | 12.89 | | 105.0 | | | | |
| 119 | 4 | -0.35 | | | | | 26.0 | |
| 120 | 2 | -1.06 | | | | 21.8 | | |
| 140 | 1 | 1.68 | | 38.1 | | | | |
| 141 | 4 | 0.03 | | | | | 28.3 | |
| 142 | 2 | -1.21 | | | | | 20.9 | |
| 144 | 0 | 14.06 | | 112.0 | | | | |
| 146 | 4 | -0.10 | | | | | 27.5 | |
| 180 | 2 | 1.01 | | | | | 34.1 | |
| 202 | 3 | -0.52 | 25.0 | | | | | |
| 204 | 2 | -1.04 | | | | 21.9 | | |
| 210 | 0 | 4.16 | | | | | | 52.9 |
| 212 | 4 | -0.28 | 26.4 | | | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Fe (Iron) μ g/L

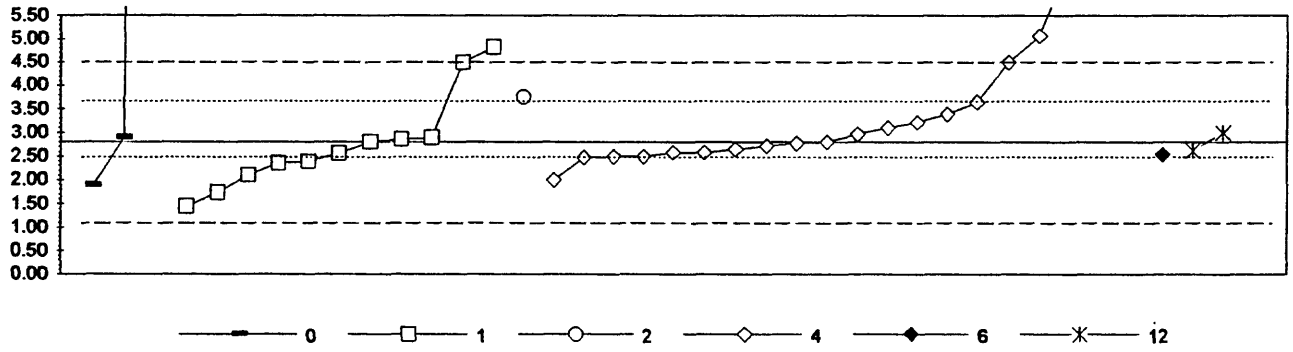


| | | | | | | |
|-----------------------------|-------------------------|--------|------|-------|--------|-------|
| 0. Other | 3. AA: graphite furnace | | | | | |
| 1. AA: Direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| N = | 2 | 7 | 1 | 1 | 25 | 1 |
| Minimum = | 12400 | 11700 | 4720 | 22360 | 6500 | 14400 |
| Maximum = | 13400 | 20238 | | | 25000 | |
| Median = | | 15590 | | | 13573 | |
| St Dev = | | 2923.4 | | | 5205.1 | |

MPV = 14000
 F-pseudostigma = 4233
 N = 37
 Hu = 18100
 Hi = 12390

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|------|-------|-------|-------|
| 1 | 4 | -0.30 | | | | | 12730 | |
| 3 | 3 | -0.85 | | | | | 10400 | |
| 5 | 0 | 2.51 | | | | | 24640 | |
| 7 | 4 | -0.26 | | | | | 12900 | |
| 8 | 2 | -1.23 | | | | | 8800 | |
| 11 | 3 | 0.64 | | | | | 16700 | |
| 15 | 4 | -0.35 | | | | | 12500 | |
| 18 | 4 | -0.10 | | | | | 13573 | |
| 25 | 4 | 0.12 | | | | | 14500 | |
| 32 | 4 | 0.09 | | | | | | 14400 |
| 36 | 0 | -2.19 | | | 4720 | | | |
| 46 | 0 | 2.27 | | | | | 23600 | |
| 48 | 1 | 1.87 | | | | | 21900 | |
| 52 | 4 | 0.07 | | | | | 14300 | |
| 58 | 3 | -0.54 | | 11700 | | | | |
| 59 | 1 | -1.77 | | | | | 6500 | |
| 61 | 2 | 1.26 | | | | | 19324 | |
| 63 | 3 | 0.83 | | 17500 | | | | |
| 68 | 0 | 2.60 | | | | | 25000 | |
| 69 | 4 | -0.38 | | 12390 | | | | |
| 89 | 4 | 0.14 | | 14600 | | | | |
| 94 | 3 | -0.81 | | | | | 10580 | |
| 97 | 1 | 1.98 | | | | 22360 | | |
| 102 | 2 | 1.50 | | | | | 20360 | |
| 105 | 3 | -0.54 | | | | | 11700 | |
| 117 | 4 | 0.38 | | 15590 | | | | |
| 119 | 4 | 0.00 | | | | | 14000 | |
| 120 | 4 | 0.38 | | 15600 | | | | |
| 140 | 2 | 1.47 | | 20238 | | | | |
| 141 | 4 | -0.20 | | | | | 13140 | |
| 142 | 4 | -0.50 | | | | | 11870 | |
| 146 | 4 | -0.24 | | | | | 13000 | |
| 180 | 3 | 0.97 | | | | | 18100 | |
| 202 | 4 | -0.38 | 12400 | | | | | |
| 204 | 3 | -0.71 | | | | | 11000 | |
| 210 | 0 | 2.13 | | | | | 23000 | |
| 212 | 4 | -0.14 | 13400 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
K (Potassium) mg/L

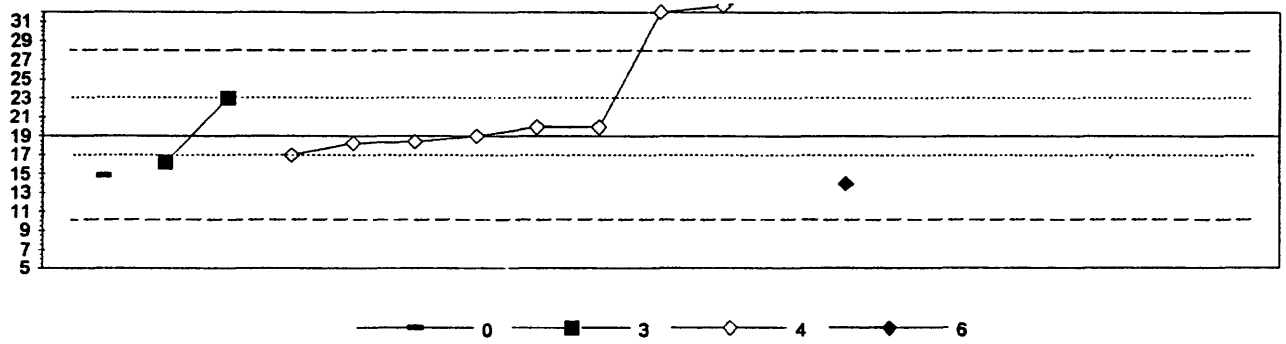


| | | | | | |
|-----------------------------|--------------------|-------|------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 6. ICP/MS | | | | |
| 2. AA: direct nitrous oxide | 12. Flame emission | | | | |
| N = 3 | 11 | 1 | 20 | 1 | 2 |
| Minimum = 1.89 | 1.44 | 3.76 | 2.00 | 2.52 | 2.62 |
| Maximum = 265.00 | 4.82 | 4623 | 4623 | 3.00 | |
| Median = 2.57 | 2.57 | 2.89 | | | |
| St Dev = 1.042 | 1.042 | 0.773 | | | |

MPV = 2.80
 F-pseudosigma = 0.852
 N = 38
 Hu = 3.65
 HI = 2.50

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 12 |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 4 | -0.27 | | 2.57 | | | | |
| 3 | 4 | -0.48 | | 2.39 | | | | |
| 5 | 0 | 8.37 | | | | 9.93 | | |
| 7 | 4 | 0.49 | | | | 3.22 | | |
| 8 | 4 | -0.35 | | | | 2.50 | | |
| 15 | 4 | -0.18 | | | | 2.65 | | |
| 18 | 4 | 0.00 | | | | 2.80 | | |
| 23 | 2 | -1.24 | 1.74 | | | | | |
| 25 | 3 | 1.00 | | | | 3.65 | | |
| 32 | 4 | -0.33 | | | | | 2.52 | |
| 36 | 2 | 1.13 | | | 3.76 | | | |
| 48 | 0 | 2.65 | | | | 5.06 | | |
| 52 | 4 | 0.20 | | | | 2.97 | | |
| 58 | 3 | -0.52 | 2.36 | | | | | |
| 59 | 3 | -0.94 | | | | 2.00 | | |
| 61 | 0 | 5420 | | | | 4623 | | |
| 63 | 3 | 0.70 | | | | 3.40 | | |
| 68 | 0 | 4.57 | | | | 6.70 | | |
| 69 | 4 | 0.23 | | | | | | 3.00 |
| 89 | 4 | 0.09 | 2.88 | | | | | |
| 94 | 4 | -0.09 | | | | 2.72 | | |
| 97 | 1 | -1.60 | 1.44 | | | | | |
| 102 | 1 | 1.99 | | | | 4.50 | | |
| 105 | 4 | -0.26 | | | | 2.58 | | |
| 117 | 0 | 2.37 | 4.82 | | | | | |
| 119 | 4 | 0.00 | 2.80 | | | | | |
| 120 | 4 | 0.07 | 2.86 | | | | | |
| 129 | 3 | -0.82 | 2.10 | | | | | |
| 140 | 1 | 1.99 | 4.50 | | | | | |
| 141 | 4 | -0.35 | | | | 2.50 | | |
| 142 | 4 | -0.26 | | | | 2.58 | | |
| 146 | 4 | -0.39 | | | | 2.47 | | |
| 180 | 4 | -0.04 | | | | 2.77 | | |
| 190 | 2 | -1.07 | 1.89 | | | | | |
| 202 | 0 | 308 | 265 | | | | | |
| 204 | 4 | -0.21 | | | | | | 2.62 |
| 210 | 4 | 0.35 | | | | 3.10 | | |
| 212 | 4 | 0.12 | 2.90 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Li (Lithium) μ g/L

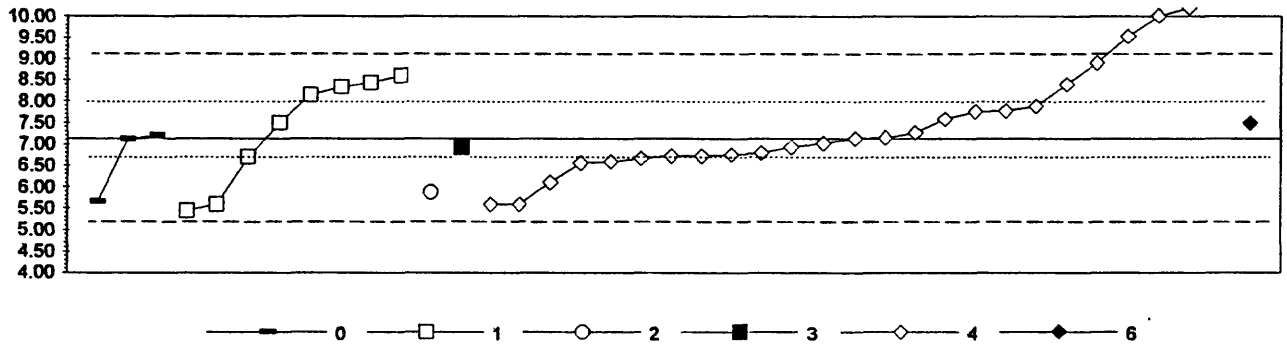


| 0. Other | | 6. ICP/MS | | | |
|-------------------------|--|-----------|----|-----|----|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| N = | | 1 | 2 | 9 | 1 |
| Minimum = | | 15 | 16 | 17 | 14 |
| Maximum = | | | 23 | 34 | |
| Median = | | | | 20 | |
| St Dev = | | | | 5.1 | |

MPV = 19
 F-pseudosigma = 4.4
 N = 13
 Hu = 23
 HI = 17

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|----|----|----|----|
| 1 | 4 | -0.13 | | | 18 | |
| 3 | 4 | 0.22 | | | 20 | |
| 5 | 0 | 3.39 | | | 34 | |
| 8 | 4 | -0.45 | | | 17 | |
| 15 | 0 | 3.08 | | | 33 | |
| 25 | 4 | 0.00 | | | 19 | |
| 32 | 2 | -1.12 | | | | 14 |
| 63 | 3 | 0.90 | | 23 | | |
| 68 | 0 | 2.92 | | | 32 | |
| 105 | 4 | -0.16 | | | 18 | |
| 142 | 3 | -0.62 | | 16 | | |
| 210 | 4 | 0.22 | | | 20 | |
| 212 | 3 | -0.94 | 15 | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Mg (Magnesium) mg/L

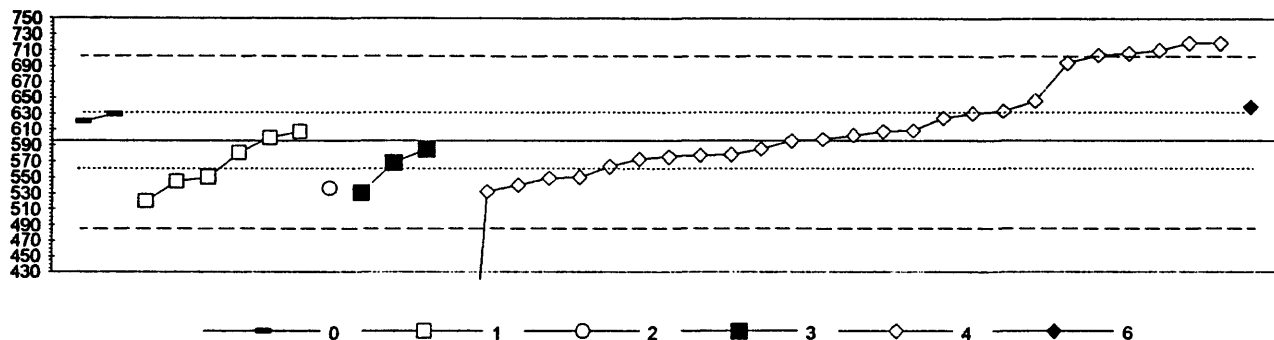


| | | | | | |
|-----------------------------|-------------------------|------|------|-------|------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: Direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 3 | 8 | 1 | 1 | 25 | 1 |
| Minimum = 5.65 | 5.44 | 5.86 | 6.93 | 5.60 | 7.47 |
| Maximum = 7.20 | 8.60 | | | 8339 | |
| Median = 7.83 | | | | 7 | |
| St Dev = 1.283 | | | | 1.236 | |

MPV = 7.13
 F-pseudostigma = 0.990
 N = 39
 Hu = 8.02
 HI = 6.68

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|-------|------|
| 1 | 4 | -0.37 | | | | | 6.76 | |
| 3 | 3 | -0.58 | | | | | 6.56 | |
| 5 | 0 | 3.11 | | | | | 10.21 | |
| 7 | 4 | 0.01 | | | | | 7.14 | |
| 8 | 1 | -1.55 | | | | | 5.60 | |
| 11 | 3 | 0.64 | | | | | 7.76 | |
| 15 | 3 | 0.66 | | | | | 7.78 | |
| 18 | 4 | -0.33 | | | | | 6.80 | |
| 23 | 1 | -1.71 | | 5.44 | | | | |
| 25 | 4 | 0.46 | | | | | 7.59 | |
| 30 | 4 | -0.44 | | 6.69 | | | | |
| 32 | 4 | 0.34 | | | | | | 7.47 |
| 36 | 2 | -1.28 | | | 5.86 | | | |
| 48 | 0 | 2.42 | | | | | | 9.52 |
| 52 | 4 | 0.00 | | | | | | 7.13 |
| 58 | 1 | -1.55 | | 5.60 | | | | |
| 59 | 1 | -1.55 | | | | | 5.60 | |
| 61 | 0 | 8419 | | | | | 8339 | |
| 63 | 4 | 0.14 | | | | | 7.27 | |
| 68 | 0 | 2.90 | | | | | 10.00 | |
| 89 | 4 | 0.37 | | 7.50 | | | | |
| 94 | 4 | -0.40 | | | | | 6.73 | |
| 97 | 2 | 1.32 | | 8.44 | | | | |
| 102 | 1 | 1.79 | | | | | 8.90 | |
| 105 | 3 | -0.55 | | | | | 6.59 | |
| 117 | 2 | 1.03 | | 8.15 | | | | |
| 119 | 4 | -0.40 | | | | | 6.73 | |
| 120 | 4 | -0.20 | | | | 6.93 | | |
| 129 | 2 | 1.49 | | 8.60 | | | | |
| 140 | 2 | 1.21 | | 8.33 | | | | |
| 141 | 4 | -0.19 | | | | | 6.94 | |
| 142 | 4 | -0.11 | | | | | 7.02 | |
| 146 | 2 | -1.03 | | | | | 6.11 | |
| 180 | 3 | 0.76 | | | | | 7.88 | |
| 190 | 2 | -1.50 | 5.65 | | | | | |
| 202 | 4 | -0.02 | 7.11 | | | | | |
| 204 | 4 | -0.46 | | | | | 6.67 | |
| 210 | 2 | 1.28 | | | | | 8.40 | |
| 212 | 4 | 0.07 | 7.20 | | | | | |

**Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Mn (Manganese) μ g/L**

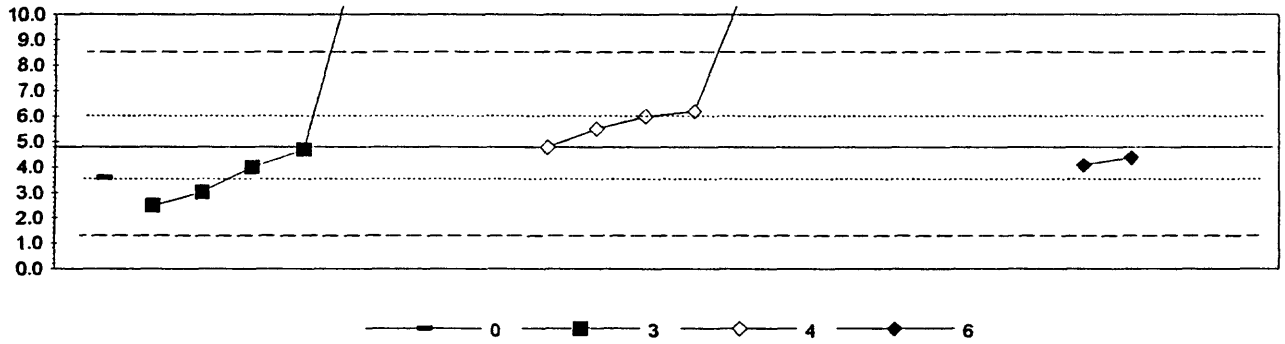


| | | | | | | |
|-----------------------------|-----|-----|-----|-----|-----|-------------------------|
| 0. Other | | | | | | 3. AA: graphite furnace |
| 1. AA: Direct air | | | | | | 4. ICP |
| 2. AA: direct nitrous oxide | | | | | | 6. ICP/MS |
| N = | 2 | 6 | 1 | 3 | 26 | 1 |
| Minimum = | 620 | 520 | 536 | 531 | 6 | 639 |
| Maximum = | 629 | 607 | | 584 | 720 | |
| Median = | | 565 | | | 600 | |
| St Dev = | | 34 | | | 60 | |

MPV = 595
 F-pseudostigma = 54
 N = 39
 Hu = 630
 Hi = 557

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | -0.19 | | | | | 585 | |
| 3 | 4 | -0.43 | | | | | 572 | |
| 5 | 0 | 2.31 | | | | | 720 | |
| 7 | 3 | 0.94 | | | | | 646 | |
| 8 | 4 | -0.37 | | | | | 575 | |
| 11 | 4 | -0.31 | | | | | 578 | |
| 15 | 1 | 2.03 | | | | | 705 | |
| 18 | 0 | -10.88 | | | | | 6 | |
| 23 | 2 | -1.18 | | | | 531 | | |
| 25 | 4 | 0.22 | | | | | 607 | |
| 32 | 3 | 0.81 | | | | | | 639 |
| 36 | 2 | -1.09 | | | 536 | | | |
| 46 | 1 | 1.85 | | | | | 695 | |
| 48 | 0 | 2.31 | | | | | 720 | |
| 52 | 4 | 0.24 | | | | | 608 | |
| 58 | 3 | -0.92 | | 545 | | | | |
| 59 | 2 | -1.02 | | | | | 540 | |
| 61 | 0 | 2.07 | | | | | 707 | |
| 63 | 3 | 0.70 | | | | | 633 | |
| 68 | 0 | 2.13 | | | | | 710 | |
| 69 | 4 | -0.28 | | 580 | | | | |
| 89 | 4 | 0.22 | | 607 | | | | |
| 94 | 4 | 0.00 | | | | | 595 | |
| 97 | 4 | -0.50 | | | | 568 | | |
| 102 | 2 | -1.16 | | | | | 532 | |
| 105 | 3 | -0.59 | | | | | 563 | |
| 117 | 4 | 0.07 | | 599 | | | | |
| 119 | 4 | 0.13 | | | | | 602 | |
| 120 | 4 | -0.20 | | | | 584 | | |
| 129 | 2 | -1.39 | | 520 | | | | |
| 140 | 3 | -0.83 | | 550 | | | | |
| 141 | 3 | 0.54 | | | | | 624 | |
| 142 | 4 | 0.04 | | | | | 597 | |
| 146 | 3 | -0.85 | | | | | 549 | |
| 180 | 4 | -0.33 | | | | | 577 | |
| 202 | 3 | 0.63 | 629 | | | | | |
| 204 | 3 | -0.83 | | | | | 550 | |
| 210 | 3 | 0.65 | | | | | 630 | |
| 212 | 4 | 0.46 | 620 | | | | | |

**Table 20. –Statistical summary of reported data for standard reference water sample WW-1 (whole water)–Continued
Mo (Molybdenum) μ g/L**

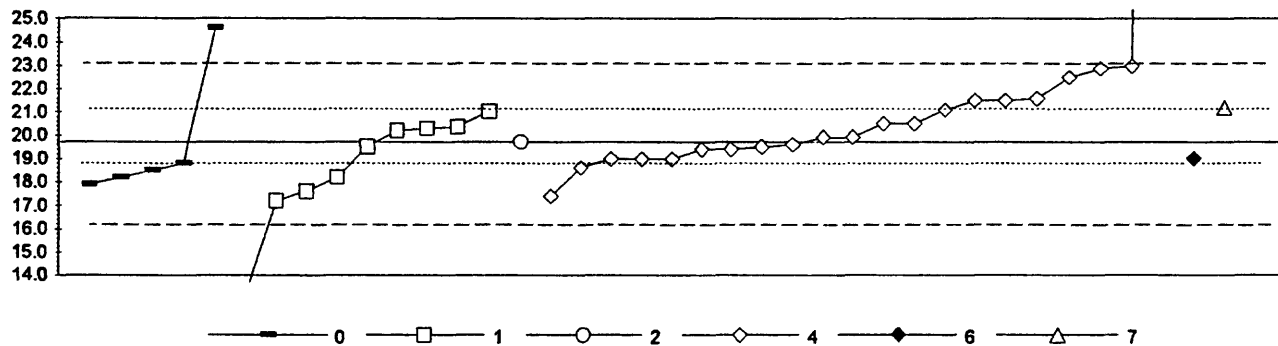


| 0. Other | | 6. ICP/MS | | | |
|-------------------------|-----------|-----------|------|------|-----|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 1 | 6 | 6 | 2 |
| | Minimum = | 3.6 | 2.5 | 4.8 | 4.1 |
| | Maximum = | | 13.0 | 12.0 | 4.4 |
| | Median = | | 4.0 | 6.1 | |
| | St Dev = | | 4.69 | 3.09 | |

MPV = 4.9
 F-pseudosigma = 1.78
 N = 15
 Hu = 6.0
 Hl = 3.6

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|-----|------|------|-----|
| 1 | 4 | -0.11 | | 4.7 | | |
| 3 | NR | | | | < 10 | |
| 5 | NR | | | | < 10 | |
| 7 | 3 | 0.62 | | | 6.0 | |
| 8 | NR | | | | < 5 | |
| 11 | 0 | 3.99 | | | 12.0 | |
| 15 | 2 | -1.05 | | 3.0 | | |
| 32 | 4 | -0.28 | | | | 4.4 |
| 36 | 2 | -1.36 | | 2.5 | | |
| 48 | NR | | | | < 10 | |
| 52 | NR | | | < 5 | | |
| 61 | 3 | 0.73 | | | 6.2 | |
| 94 | NR | | | < 5 | | |
| 97 | 0 | 3.99 | | 12.0 | | |
| 105 | 4 | -0.45 | | | | 4.1 |
| 120 | 0 | 4.55 | | 13.0 | | |
| 141 | NR | | | | < 10 | |
| 142 | 3 | -0.51 | | 4.0 | | |
| 146 | 4 | 0.34 | | | 5.5 | |
| 180 | 4 | -0.06 | | | 4.8 | |
| 202 | 3 | -0.73 | 3.6 | | | |
| 210 | 0 | 3.43 | | | 11.0 | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Na (Sodium) mg/L

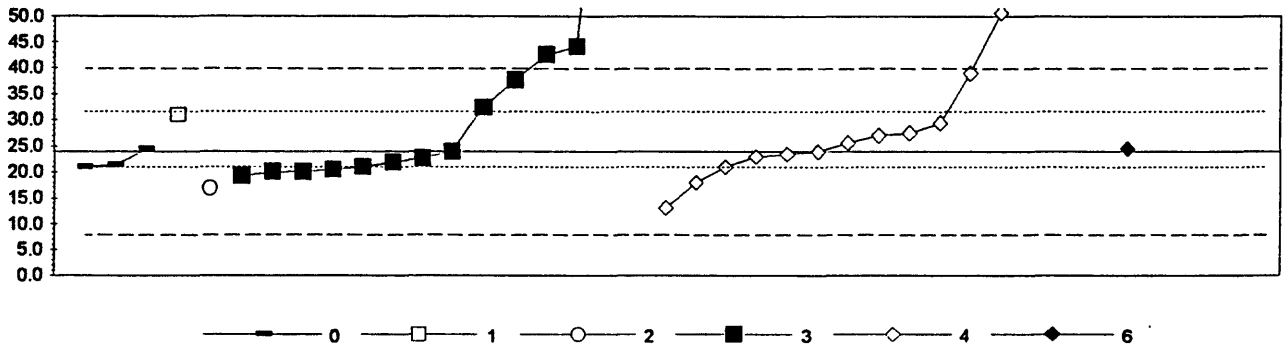


| | | | | | |
|-----------------------------|-----------------------|-------|------|------|------|
| 0. Other | 4. ICP | | | | |
| 1. AA: Direct air | 6. ICP/MS | | | | |
| 2. AA: direct nitrous oxide | 7. Ion chromatography | | | | |
| N = 5 | 9 | 1 | 21 | 1 | 1 |
| Minimum = 17.9 | 13.1 | 19.7 | 17.4 | 19.0 | 21.2 |
| Maximum = 24.6 | 21.0 | 21566 | | | |
| Median = 18.5 | 19.5 | 19.9 | | | |
| St Dev = | 2.47 | 1.52 | | | |

MPV = 19.7
 F-pseudosigma = 1.70
 N = 38
 Hu = 21.1
 HI = 18.8

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|------|------|------|-------|------|------|
| 1 | 2 | -1.20 | | 17.6 | | | | |
| 3 | 3 | -0.62 | | | | 18.6 | | |
| 5 | 1 | 1.68 | | | | 22.5 | | |
| 7 | 4 | 0.15 | | | | 19.9 | | |
| 8 | 4 | -0.03 | | | | 19.6 | | |
| 18 | 4 | -0.50 | 18.8 | | | | | |
| 23 | 2 | -1.44 | | 17.2 | | | | |
| 25 | 4 | 0.50 | | | | 20.5 | | |
| 32 | 4 | -0.38 | | | | | 19.0 | |
| 36 | 4 | 0.03 | | | 19.7 | | | |
| 46 | 2 | 1.09 | | | | 21.5 | | |
| 48 | 1 | 1.91 | | | | 22.9 | | |
| 52 | 4 | -0.38 | | | | 19.0 | | |
| 58 | 0 | -3.84 | | 13.1 | | | | |
| 59 | 4 | -0.38 | | | | 19.0 | | |
| 61 | 0 | 12637 | | | | 21566 | | |
| 63 | 2 | 1.14 | | | | 21.6 | | |
| 68 | 1 | 1.96 | | | | 23.0 | | |
| 69 | 3 | -0.85 | 18.2 | | | | | |
| 89 | 4 | 0.32 | | 20.2 | | | | |
| 94 | 3 | 0.85 | | | | 21.1 | | |
| 97 | 3 | -0.85 | | 18.2 | | | | |
| 102 | 4 | 0.50 | | | | 20.5 | | |
| 105 | 2 | 1.09 | | | | 21.5 | | |
| 117 | 3 | 0.81 | | 21.0 | | | | |
| 119 | 4 | -0.15 | | | | 19.4 | | |
| 120 | 4 | 0.42 | | 20.4 | | | | |
| 129 | 4 | 0.38 | | 20.3 | | | | |
| 140 | 4 | -0.08 | | 19.5 | | | | |
| 141 | 4 | -0.10 | | | | 19.5 | | |
| 142 | 4 | -0.15 | | | | 19.4 | | |
| 146 | 2 | -1.32 | | | | 17.4 | | |
| 180 | 4 | 0.15 | | | | 19.9 | | |
| 190 | 3 | 0.91 | | | | | | 21.2 |
| 202 | 0 | 2.90 | 24.6 | | | | | |
| 204 | 3 | -0.67 | 18.5 | | | | | |
| 210 | 4 | -0.38 | | | | 19.0 | | |
| 212 | 2 | -1.03 | 17.9 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Ni (Nickel) μ g/L

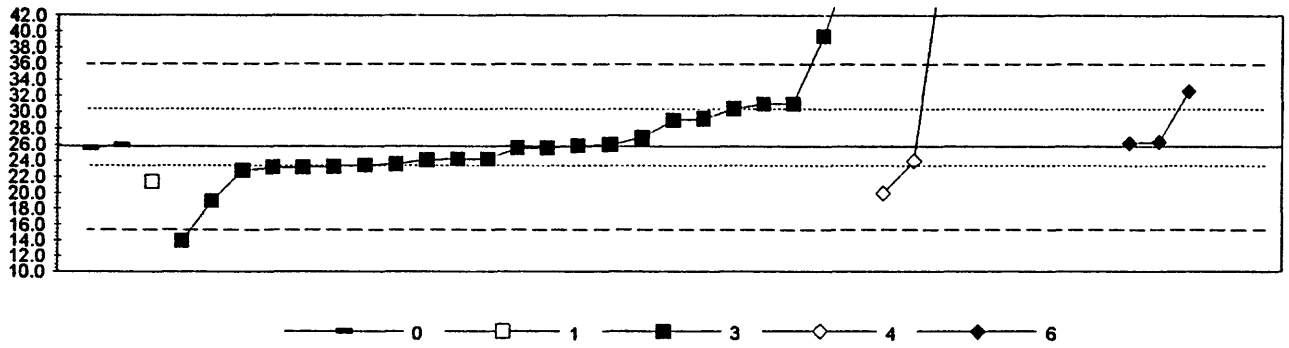


| | |
|-----------------------------|--------------------------|
| 0. Other | 3. AA: graphite furnace |
| 1. AA: Direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| N = 3 | 1 1 13 13 1 |
| Minimum = 21.0 | 31.0 16.9 19.2 13.0 24.5 |
| Maximum = 24.5 | 102.0 130.0 |
| Median = 22.7 | 25.6 |
| St Dev = 9.37 | 6.64 |

MPV = 24.0
 F-pseudosigma = 7.93
 N = 32
 Hu = 31.7
 Hi = 21.0

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|-------|------|-------|
| 1 | 4 | -0.16 | | | | 22.7 | | |
| 3 | NR | | | | | | < 40 | |
| 5 | 4 | 0.20 | | | | | 25.6 | |
| 7 | 3 | 0.68 | | | | | 29.4 | |
| 8 | 2 | -1.39 | | | | | 13.0 | |
| 15 | 3 | -0.61 | | | | 19.2 | | |
| 18 | 4 | 0.06 | 24.5 | | | | | |
| 23 | NR | | | | | < 20 | | |
| 25 | NR | | | | | | < 49 | |
| 32 | 4 | 0.06 | | | | | | 24.5 |
| 36 | 3 | -0.90 | | | 16.9 | | | |
| 48 | 1 | 1.73 | | | | 37.7 | | |
| 52 | 2 | 1.06 | | | | 32.4 | | |
| 58 | 4 | -0.49 | | | | 20.1 | | |
| 59 | 3 | -0.76 | | | | | 18.0 | |
| 61 | 0 | 3.37 | | | | | | 50.7 |
| 63 | 4 | 0.00 | | | | 24.0 | | |
| 68 | 1 | 1.89 | | | | | 39.0 | |
| 69 | 4 | -0.50 | | | | 20.0 | | |
| 89 | 0 | 2.33 | | | | 42.5 | | |
| 94 | 4 | -0.13 | | | | | 23.0 | |
| 97 | 0 | 2.53 | | | | 44.1 | | |
| 102 | 4 | -0.38 | | | | | 21.0 | |
| 105 | 4 | 0.00 | | | | | 24.0 | |
| 119 | 4 | -0.45 | | | | 20.4 | | |
| 120 | 4 | -0.38 | | | | 21.0 | | |
| 140 | 3 | 0.88 | 31.0 | | | | | |
| 141 | 4 | 0.44 | | | | | 27.5 | |
| 142 | 4 | -0.26 | | | | 21.9 | | |
| 144 | 0 | 9.83 | | | | 102.0 | | |
| 146 | 4 | -0.06 | | | | | 23.5 | |
| 180 | 4 | 0.39 | | | | | 27.1 | |
| 202 | 4 | -0.38 | 21.0 | | | | | |
| 210 | 0 | 13.36 | | | | | | 130.0 |
| 212 | 4 | -0.34 | 21.3 | | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Pb (Lead) μ g/L

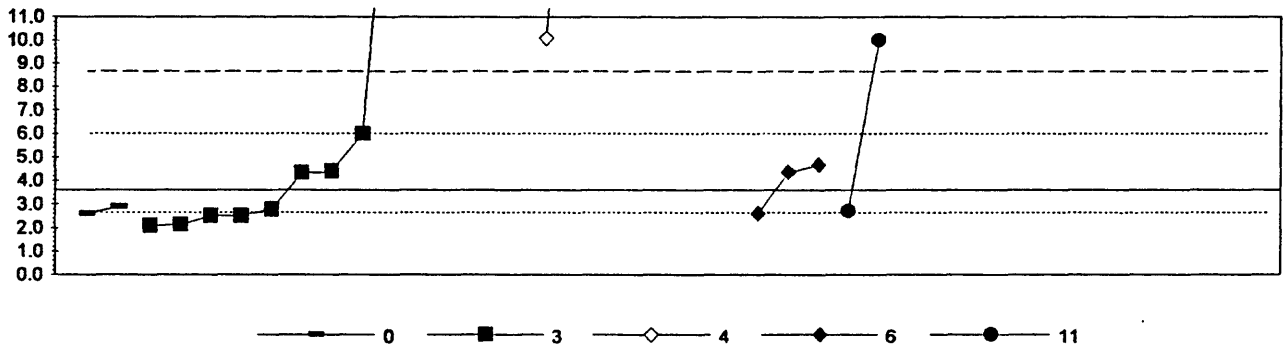


| | |
|-------------------------|---------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = 2 | 1 23 5 3 |
| Minimum = 25.6 | 21.4 13.9 20.0 26.2 |
| Maximum = 26.0 | 50.1 86.7 32.6 |
| Median = 25.6 | 52.9 |
| St Dev = 4.98 | |

MPV = 25.8
 F-pseudostigma = 5.11
 N = 34
 Hu = 30.4
 Hl = 23.5

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 1 | 4 | 0.03 | | | 25.9 | | |
| 3 | 2 | 1.03 | | | 31.0 | | |
| 5 | 0 | 11.92 | | | | 86.7 | |
| 7 | 2 | 1.34 | | | | | 32.6 |
| 8 | NR | | | | | < 30 | |
| 15 | 4 | -0.42 | | | 23.6 | | |
| 18 | 4 | -0.50 | | | 23.2 | | |
| 23 | 0 | -2.32 | | | 13.9 | | |
| 25 | NR | | | | | < 71 | |
| 32 | 4 | 0.13 | | | | | 26.4 |
| 36 | 4 | -0.30 | | | 24.2 | | |
| 46 | 0 | 5.33 | | | | 53.0 | |
| 48 | 4 | -0.50 | | | 23.2 | | |
| 52 | 3 | 0.67 | | | 29.2 | | |
| 58 | 3 | 0.64 | | | 29.0 | | |
| 59 | 4 | -0.34 | | | | 24.0 | |
| 61 | NR | | | | | < 50 | |
| 63 | 2 | -1.32 | | | 19.0 | | |
| 68 | 2 | 1.03 | | | 31.0 | | |
| 69 | 4 | -0.32 | | | 24.1 | | |
| 89 | 4 | -0.30 | | | 24.2 | | |
| 94 | 3 | -0.58 | | | 22.8 | | |
| 97 | 3 | 0.91 | | | 30.4 | | |
| 102 | 2 | -1.12 | | | | 20.0 | |
| 105 | 4 | 0.09 | | | | | 26.2 |
| 117 | 0 | 4.76 | | | 50.1 | | |
| 119 | 4 | -0.03 | | | 25.6 | | |
| 120 | 4 | -0.48 | | | 23.3 | | |
| 140 | 3 | -0.85 | | 21.4 | | | |
| 141 | 4 | 0.22 | | | 26.9 | | |
| 142 | 4 | -0.44 | | | 23.5 | | |
| 146 | 4 | -0.03 | | | 25.6 | | |
| 180 | 0 | 5.31 | | | | 52.9 | |
| 202 | 4 | -0.03 | 25.6 | | | | |
| 204 | 4 | 0.05 | | | 26.0 | | |
| 210 | 0 | 2.69 | | | 39.5 | | |
| 212 | 4 | 0.05 | 26.0 | | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Sb (Antimony) $\mu\text{g/L}$

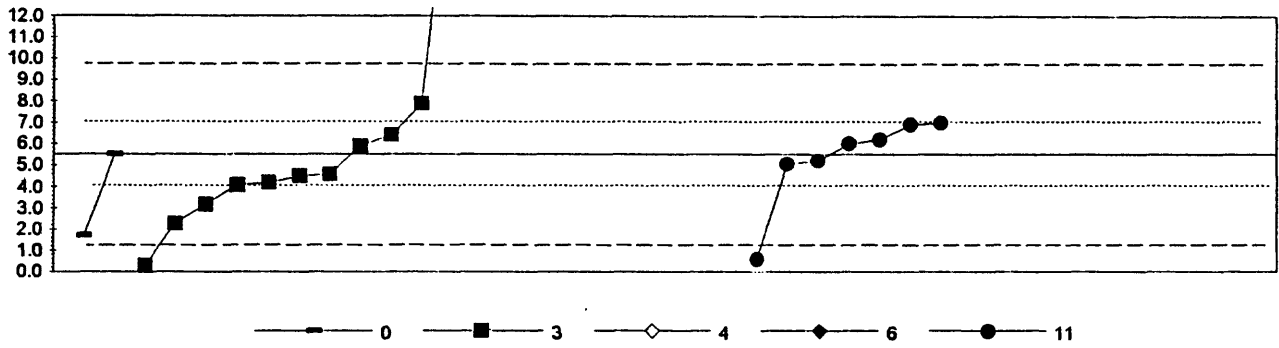


| | |
|-------------------------|--------------------------------|
| 0. Other | 6. ICP/MS |
| 3. AA: graphite furnace | 11. AA: hydride |
| 4. ICP | |
| N = | 2 9 2 3 2 |
| Minimum = | 2.6 2.1 10.1 2.6 2.7 |
| Maximum = | 2.9 22.0 26.6 4.7 10.0 |
| Median = | 2.8 |
| St Dev = | 1.41 |

MPV = 3.6
 F-pseudosigma = 2.52
 N = 18
 Hu = 6.0
 HI = 2.6

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|-----|------|------|-----|------|
| 1 | 4 | -0.44 | | 2.5 | | | |
| 3 | 3 | 0.95 | | 6.0 | | | |
| 5 | NR | | | | < 50 | | |
| 7 | 4 | -0.40 | | | | 2.6 | |
| 8 | 0 | 2.53 | | | | | 10.0 |
| 18 | 4 | 0.28 | | 4.3 | | | |
| 25 | NR | | | | < 51 | | |
| 32 | 4 | 0.29 | | | | 4.4 | |
| 36 | 3 | -0.59 | | 2.1 | | | |
| 48 | NR | | | < 3 | | | |
| 52 | NR | | | < 6 | | | |
| 61 | NR | | | < 50 | | | |
| 63 | NR | | | < 5 | | | |
| 94 | 4 | -0.32 | | 2.8 | | | |
| 97 | 4 | 0.31 | | 4.4 | | | |
| 102 | NR | | | | < 1 | | |
| 105 | 4 | 0.42 | | | | 4.7 | |
| 117 | 0 | 7.29 | | 22.0 | | | |
| 119 | 4 | -0.36 | | | | | 2.7 |
| 120 | 4 | -0.44 | | 2.5 | | | |
| 141 | NR | | | | < 20 | | |
| 142 | 3 | -0.60 | | 2.1 | | | |
| 146 | 0 | 2.57 | | | 10.1 | | |
| 180 | 0 | 9.12 | | | 26.6 | | |
| 202 | 4 | -0.40 | 2.6 | | | | |
| 210 | NR | | | < 5 | | | |
| 212 | 4 | -0.28 | 2.9 | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
Se (Selenium) μ g/L

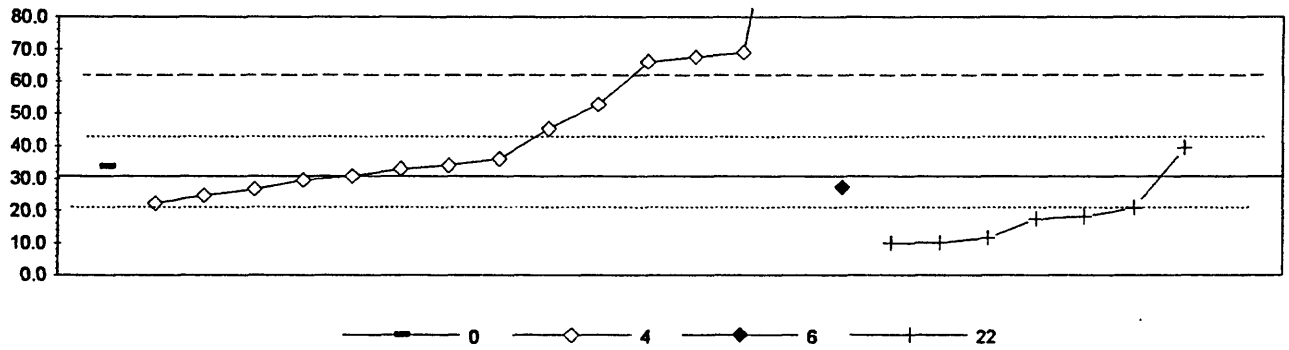


| | 0. Other | 3. AA: graphite furnace | 4. ICP | 6. ICP/MS | 11. AA: hydride |
|-----------|----------|-------------------------|--------|-----------|-----------------|
| N = | 2 | 12 | 2 | 0 | 7 |
| Minimum = | 1.7 | 0.3 | 24.9 | 0.0 | 0.6 |
| Maximum = | 5.5 | 31.0 | 192.1 | 0.0 | 7.0 |
| Median = | | 4.5 | | | 6.0 |
| St Dev = | | 2.14 | | | 2.21 |

MPV = 5.5
 F-pseudostigma = 2.08
 N = 23
 Hu = 7.0
 HI = 4.1

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 | 11 |
|-----|--------|---------|-----|------|-------|------|-----|
| 1 | 4 | -0.14 | | | | | 5.2 |
| 3 | 2 | -1.10 | | 3.2 | | | |
| 5 | 0 | 89.58 | | | 192.1 | | |
| 7 | 0 | -2.16 | | < 1 | | | |
| 8 | 3 | 0.72 | | | | | 7.0 |
| 15 | 4 | -0.21 | | | | | 5.1 |
| 18 | 0 | -2.50 | | 0.3 | | | |
| 25 | NR | | | | < 129 | | |
| 32 | NR | | | | | < 10 | |
| 36 | 4 | -0.44 | | 4.6 | | | |
| 48 | 3 | -0.67 | | 4.1 | | | |
| 52 | NR | | | | | | < 5 |
| 61 | 4 | 0.19 | | 5.9 | | | |
| 63 | NR | | | < 5 | | | |
| 69 | 2 | 1.15 | | 7.9 | | | |
| 89 | NR | | | | | | < 2 |
| 94 | 1 | -1.54 | | 2.3 | | | |
| 97 | 0 | -2.37 | | | | | 0.6 |
| 102 | NR | | | | < 5 | | |
| 105 | 3 | -0.63 | | 4.2 | | | |
| 117 | 0 | 12.24 | | 31.0 | | | |
| 119 | 4 | 0.24 | | | | | 6.0 |
| 120 | 3 | 0.67 | | | | | 6.9 |
| 141 | 4 | 0.34 | | | | | 6.2 |
| 144 | 0 | 7.44 | | 21.0 | | | |
| 146 | 4 | -0.48 | | 4.5 | | | |
| 180 | 0 | 9.31 | | | 24.9 | | |
| 202 | 4 | 0.00 | 5.5 | | | | |
| 204 | 4 | 0.43 | | 6.4 | | | |
| 210 | NR | | | < 5 | | | |
| 212 | 1 | -1.82 | 1.7 | | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
SiO₂ (Silica) mg/L

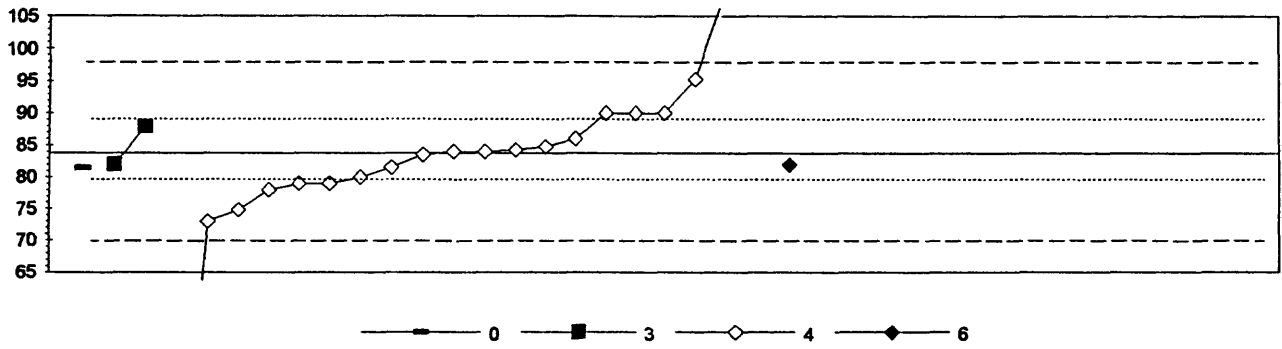


| | 0. Other | 22. Colorimetric | | |
|-----------|-----------|------------------|-------|-------|
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| | N = | 1 | 14 | 1 |
| | Minimum = | 33.7 | 22.3 | 27.3 |
| | Maximum = | | 149.6 | 39.5 |
| | Median = | | 35.1 | 17.5 |
| | St Dev = | | 17.00 | 10.28 |

MPV = 30.8
 F-pseudostigma = 15.42
 N = 23
 Hu = 42.4
 HI = 21.6

| Lab | Rating | Z-value | 0 | 4 | 6 | 22 |
|-----|--------|---------|-------|------|------|-------|
| 1 | 4 | 0.21 | | 34.1 | | |
| 3 | 4 | -0.26 | | 26.7 | | |
| 5 | 0 | 7.71 | 149.6 | | | |
| 8 | 3 | -0.64 | | | | 20.9 |
| 11 | 2 | 1.43 | | 52.8 | | |
| 15 | 4 | -0.40 | | 24.6 | | |
| 25 | 3 | 0.94 | | 45.3 | | |
| 32 | 4 | -0.22 | | | 27.3 | |
| 36 | 3 | -0.81 | | | | 18.2 |
| 52 | 2 | -1.34 | | | | 10.1 |
| 61 | 0 | 2.48 | 69.0 | | | |
| 63 | 4 | 0.35 | | 36.2 | | |
| 89 | 3 | 0.57 | | | | 39.5 |
| 97 | 2 | -1.24 | | | | 11.6 |
| 102 | 0 | 2.29 | 66.0 | | | |
| 105 | 4 | -0.08 | | 29.5 | | |
| 119 | 4 | 0.14 | | 32.9 | | |
| 129 | 3 | -0.86 | | | | 17.5 |
| 140 | 2 | -1.33 | | | | 10.2 |
| 141 | NR | | | | | < 0.1 |
| 142 | 4 | 0.00 | | 30.8 | | |
| 146 | 0 | 2.39 | | 67.6 | | |
| 210 | 3 | -0.55 | | | | 22.3 |
| 212 | 4 | 0.19 | 33.7 | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
 Sr (Strontium) μ g/L

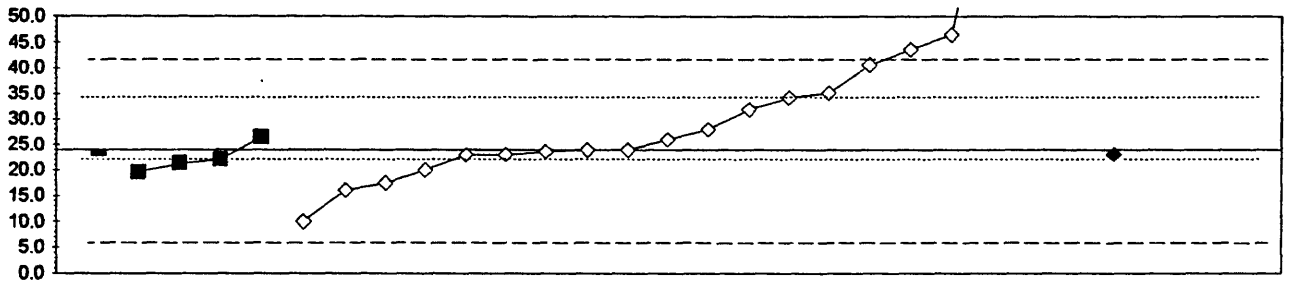


| 0. Other | | 6. ICP/MS | | | |
|-------------------------|-----------|-----------|----|-----|----|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | N = | 1 | 2 | 20 | 1 |
| | Minimum = | 82 | 82 | 20 | 82 |
| | Maximum = | | 88 | 122 | |
| | Median = | | | 84 | |
| | St Dev = | | | 5.9 | |

MPV = 84
 F-pseudosigma = 7.0
 N = 24
 Hu = 89
 Hi = 80

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|----|----|-----|-----|
| 1 | 3 | -0.84 | | | 78 | |
| 3 | 1 | -1.54 | | | 73 | |
| 5 | 0 | 5.47 | | | 122 | |
| 7 | 4 | 0.14 | | | 85 | |
| 8 | 4 | 0.03 | | | 84 | |
| 11 | 3 | 0.89 | | | 90 | |
| 15 | 4 | 0.07 | | | 84 | |
| 18 | 3 | -0.69 | | | 79 | |
| 25 | 3 | 0.89 | | | 90 | |
| 32 | 4 | -0.26 | | | | 82 |
| 46 | 1 | 1.64 | | | 95 | |
| 52 | 4 | -0.03 | | | 84 | |
| 59 | 3 | -0.69 | | | 79 | |
| 63 | 4 | 0.31 | | | 86 | |
| 68 | 0 | 3.74 | | | | 110 |
| 94 | 3 | -0.54 | | | 80 | |
| 97 | 3 | 0.59 | | 88 | | |
| 102 | 3 | 0.89 | | | 90 | |
| 105 | 4 | 0.03 | | | 84 | |
| 141 | 4 | -0.26 | | 82 | | |
| 142 | 4 | -0.31 | | | 82 | |
| 146 | 2 | -1.28 | | | 75 | |
| 210 | 0 | -9.11 | | | 20 | |
| 212 | 4 | -0.33 | 82 | | | |

Table 20. —Statistical summary of reported data for standard reference water sample WW-1 (whole water)—Continued
V (Vanadium) $\mu\text{g/L}$



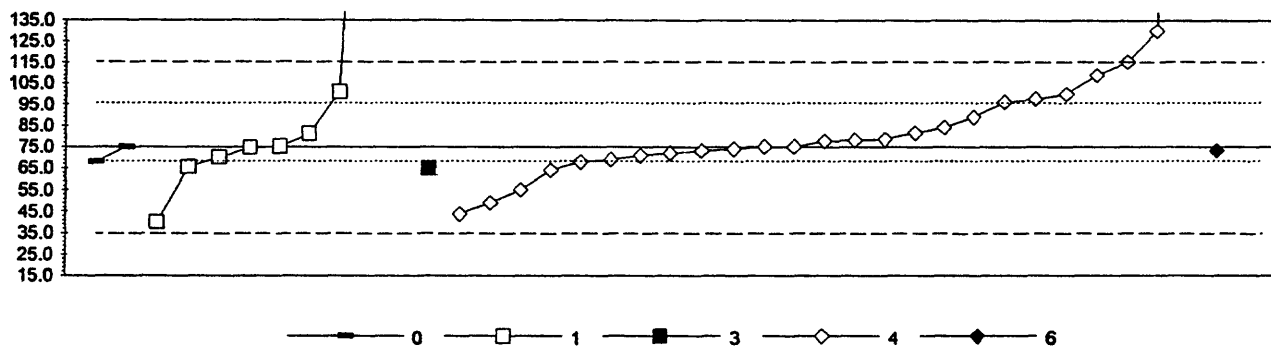
—■— 0 —◆— 3 —◇— 4 —◆— 6

| 0. Other | | 6. ICP/MS | | | |
|-------------------------|-----------|-----------|------|-------|------|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 1 | 4 | 19 | 1 |
| | Minimum = | 23.1 | 19.5 | 10.0 | 23.0 |
| | Maximum = | | 26.5 | 120.0 | |
| | Median = | | 21.7 | 26.0 | |
| | St Dev = | | | 10.01 | |

MPV = 24.0
 F-pseudostigma = 9.04
 N = 25
 Hu = 34.3
 HI = 22.1

| Lab | Rating | Z-value | 0 | 3 | 4 | 6 |
|-----|--------|---------|------|------|---|-------|
| 1 | 4 | -0.05 | | | | 23.6 |
| 3 | 3 | -0.88 | | | | 16.0 |
| 5 | 0 | 6.42 | | | | 82.1 |
| 7 | 2 | 1.14 | | | | 34.3 |
| 8 | 1 | -1.55 | | | | 10.0 |
| 11 | 4 | 0.22 | | | | 26.0 |
| 15 | 4 | 0.28 | | 26.5 | | |
| 18 | 4 | 0.00 | | | | 24.0 |
| 25 | 4 | 0.00 | | | | 24.0 |
| 32 | 4 | -0.11 | | | | 23.0 |
| 46 | 1 | 1.85 | | | | 40.7 |
| 48 | 0 | 10.62 | | | | 120.0 |
| 52 | 4 | -0.31 | | 21.2 | | |
| 58 | 4 | -0.21 | | 22.1 | | |
| 61 | 2 | 1.24 | | | | 35.2 |
| 63 | 4 | -0.11 | | | | 23.0 |
| 68 | 4 | 0.44 | | | | 28.0 |
| 94 | 4 | -0.44 | | | | 20.0 |
| 102 | 3 | 0.88 | | | | 32.0 |
| 105 | 3 | -0.72 | | | | 17.5 |
| 141 | 4 | -0.11 | | | | 23.0 |
| 142 | 4 | -0.50 | | 19.5 | | |
| 146 | 0 | 2.17 | | | | 43.6 |
| 180 | 0 | 2.50 | | | | 46.6 |
| 210 | NR | | | | | < 50 |
| 212 | 4 | -0.10 | 23.1 | | | |

Table 20. --Statistical summary of reported data for standard reference water sample WW-1 (whole water)--Continued
Zn (Zinc) μ g/L



| | |
|-------------------------|----------------------------------|
| 0. Other | 4. ICP |
| 1. AA: Direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 2 9 1 25 1 |
| Minimum = | 68.0 40.0 65.0 43.8 73.0 |
| Maximum = | 75.0 38160 450.0 |
| Median = | 75.0 77.6 |
| St Dev = | 18.30 20.19 |

MPV = 75.0
 F-pseudostigma = 20.09
 N = 38
 Hu = 96.1
 HI = 69.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|------|-------|------|
| 1 | 4 | -0.01 | | 74.7 | | | |
| 3 | 4 | -0.10 | | | | 73.0 | |
| 5 | 1 | 2.01 | | | | 115.4 | |
| 7 | 4 | 0.13 | | | | 77.6 | |
| 8 | 3 | -1.00 | | | | 55.0 | |
| 11 | 4 | 0.15 | | | | 78.0 | |
| 15 | 0 | 18.67 | | | | 450.0 | |
| 18 | 3 | -0.55 | | | | 64.0 | |
| 23 | 1 | -1.74 | | 40.0 | | | |
| 25 | 3 | 0.70 | | | | 89.0 | |
| 32 | 4 | -0.10 | | | | | 73.0 |
| 46 | 1 | 1.69 | | | | 109.0 | |
| 48 | 2 | 1.24 | | | | 100.0 | |
| 52 | 4 | -0.35 | | | | 67.9 | |
| 58 | 4 | -0.47 | | 65.5 | | | |
| 59 | 2 | -1.29 | | | | 49.0 | |
| 61 | 2 | 1.12 | | | | 97.6 | |
| 63 | 4 | 0.00 | | | | 75.0 | |
| 68 | 4 | -0.05 | | | | 74.0 | |
| 69 | 4 | -0.25 | | 70.0 | | | |
| 89 | 2 | 1.29 | | 101.0 | | | |
| 94 | 4 | -0.30 | | | | 69.0 | |
| 97 | 4 | 0.00 | | 75.0 | | | |
| 102 | 4 | -0.20 | | | | 71.0 | |
| 105 | 4 | 0.32 | | | | 81.4 | |
| 117 | 0 | 1896 | | 38160 | | | |
| 119 | 4 | 0.00 | | | | 75.0 | |
| 120 | 4 | -0.50 | | | 65.0 | | |
| 140 | 4 | 0.30 | | 81.1 | | | |
| 141 | 4 | 0.17 | | | | 78.5 | |
| 142 | 4 | -0.15 | | | | 72.0 | |
| 144 | 0 | 13.69 | | 350.0 | | | |
| 146 | 2 | 1.05 | | | | 96.1 | |
| 180 | 4 | 0.45 | | | | 84.0 | |
| 202 | 4 | -0.35 | 68.0 | | | | |
| 204 | 1 | -1.55 | | | | 43.8 | |
| 210 | 0 | 2.74 | | | | 130.0 | |
| 212 | 4 | 0.00 | 75.0 | | | | |

Table 21. —Most probable values for constituents and properties in standard reference samples distributed in October 1993

[MPV, most probable value; ug/L, microgram per liter; mg/L, milligram per liter; uS/cm, microsiemen per centimeter at 25 degrees Celsius]

T-127 (trace constituents)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> | <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|----------------|------------|-------|----------------------|
| Ag | 2.71 | μ g/L | 0.489 | Li | 24.0 | μ g/L | 2.22 |
| Al | 85.0 | μ g/L | 15.49 | Mg | 2.00 | m g/L | 0.107 |
| As | 4.40 | μ g/L | 0.741 | Mn | 5.43 | μ g/L | 0.741 |
| B | 42.8 | μ g/L | 5.93 | Mo | 1.25 | μ g/L | 5.404 |
| Ba | 20.6 | μ g/L | 2.37 | Na | 65.1 | m g/L | 1.26 |
| Be | 14.0 | μ g/L | 1.25 | Ni | 9.00 | μ g/L | 2.632 |
| Ca | 8.80 | m g/L | 0.448 | Pb | 3.25 | μ g/L | 0.890 |
| Cd | 8.34 | μ g/L | 1.227 | Sb | 5.15 | μ g/L | 1.583 |
| Co | 11.6 | μ g/L | 1.48 | Se | 7.38 | μ g/L | 1.386 |
| Cr | 11.5 | μ g/L | 1.48 | SiO2 | 9.63 | m g/L | 0.586 |
| Cu | 42.0 | μ g/L | 2.97 | Sr | 51.1 | μ g/L | 2.97 |
| Fe | 135 | μ g/L | 11.7 | V | 10.2 | μ g/L | 1.28 |
| K | 1.07 | m g/L | 0.163 | Zn | 32.9 | μ g/L | 3.63 |

M-128 (major constituents)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> | <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|----------------|------------|--------|----------------------|
| Alkalinity | 168 | m g/L | 3.4 | Na | 126 | m g/L | 5.0 |
| B | 285 | μ g/L | 21.5 | total P | 1.390 | m g/L | 0.067 |
| Ca | 78.9 | m g/L | 3.92 | pH | 8.29 | | 0.111 |
| Cl | 98.2 | m g/L | 2.56 | SiO2 | 10.8 | m g/L | 0.82 |
| DSRD | 689 | m g/L | 19.3 | SO4 | 206 | m g/L | 7.9 |
| F | 1.18 | m g/L | 0.096 | Sp Cond | 1076 | μ S/cm | 35.2 |
| K | 9.44 | m g/L | 0.675 | Sr | 705 | μ g/L | 42.3 |
| Mg | 17.4 | m g/L | 0.74 | V | 2.6 | μ g/L | 1.85 |

N-40 (preserved nutrient)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|
| NH3 as N | 0.035 | m g/L | 0.030 |
| NH3+OrgN as N | 0.270 | m g/L | 0.220 |
| NO3+NO2 as N | 0.119 | m g/L | 0.016 |
| total P as P | 0.062 | m g/L | 0.009 |
| PO4 as P | 0.054 | m g/L | 0.007 |

N-40 (nonpreserved nutrient)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|
| NH3 as N | 0.024 | m g/L | 0.027 |
| NH3+OrgN as N | 0.118 | m g/L | 0.098 |
| NO3+NO2 as N | 0.110 | m g/L | 0.012 |
| total P as P | 0.060 | m g/L | 0.010 |
| PO4 as P | 0.052 | m g/L | 0.005 |

N-41 (preserved nutrient)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|
| NH3 as N | 1.22 | m g/L | 0.170 |
| NH3+OrgN as N | 1.86 | m g/L | 0.391 |
| NO3+NO2 as N | 1.25 | m g/L | 0.099 |
| total P as P | 1.64 | m g/L | 0.111 |
| PO4 as P | 1.18 | m g/L | 0.030 |

N-41 (nonpreserved nutrient)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|
| NH3 as N | 1.22 | m g/L | 0.089 |
| NH3+OrgN as N | 1.76 | m g/L | 0.152 |
| NO3+NO2 as N | 1.25 | m g/L | 0.073 |
| total P as P | 1.63 | m g/L | 0.067 |
| PO4 as P | 1.29 | m g/L | 0.141 |

P-21 (low ionic strength)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> | <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|----------------|------------|--------|----------------------|
| Acidity | 7.93 | m g/L | 5.019 | Na | 0.117 | m g/L | 0.019 |
| Ca | 0.45 | m g/L | 0.037 | pH | 4.06 | | 0.059 |
| Cl | 3.90 | m g/L | 0.345 | PO4 as P | 0.005 | m g/L | 0.0059 |
| F | 0.03 | m g/L | 0.044 | SO4 | 0.50 | m g/L | 0.491 |
| K | 0.088 | m g/L | 0.016 | Sp Cond | 41.80 | m S/cm | 4.23 |
| Mg | 0.055 | m g/L | 0.007 | | | | |

Hg-17 (mercury)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|
| Hg | 1.55 | m g/L | 0.311 |

Table 21. —Most probable values for constituents and properties in standard reference samples distributed in October 1993 — Continued

AMW-3 (acid mine water)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> | <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|----------------|-------------------|-------|----------------------|
| Ag | 0.80 | μ g/L | 3.85 | Li | 35 | μ g/L | 5.5 |
| Al | 21000 | μ g/L | 1309 | Mg | 114 | m g/L | 5.8 |
| As | 72.5 | μ g/L | 12.90 | Mn | 82800 | μ g/L | 7650 |
| B | 153 | μ g/L | 87.5 | Mo | insufficient data | | |
| Ba | 4.5 | μ g/L | 3.34 | Na | 30.8 | m g/L | 1.26 |
| Be | 12.0 | μ g/L | 1.48 | Ni | 206 | μ g/L | 30.4 |
| Ca | 320 | m g/L | 18.4 | Pb | 15.5 | μ g/L | 4.45 |
| Cd | 121 | μ g/L | 11.3 | Sb | 2.7 | μ g/L | 1.85 |
| Co | 133 | μ g/L | 13.3 | Se | insufficient data | | |
| Cr | 11.0 | μ g/L | 5.88 | SiO2 | 48.0 | m g/L | 3.31 |
| Cu | 4670 | μ g/L | 267 | Sr | 1474 | μ g/L | 81 |
| Fe | 142650 | μ g/L | 9859 | V | 15.0 | μ g/L | 12.9 |
| K | 3.50 | m g/L | 0.415 | Zn | 41450 | μ g/L | 3113 |

WW-1 (whole water)

| <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> | <u>Analyte</u> | <u>MPV</u> | | <u>F-pseudosigma</u> |
|----------------|------------|-------|----------------------|----------------|------------|-------|----------------------|
| Ag | 2.30 | μ g/L | 1.830 | Li | 19 | μ g/L | 4.4 |
| Al | 7084 | μ g/L | 5688 | Mg | 7.13 | m g/L | 0.990 |
| As | 19.7 | μ g/L | 10.30 | Mn | 595 | μ g/L | 54 |
| B | 31 | μ g/L | 38 | Mo | 4.9 | μ g/L | 1.78 |
| Ba | 156 | μ g/L | 34 | Na | 19.7 | m g/L | 1.70 |
| Be | 9.0 | μ g/L | 0.89 | Ni | 24.0 | μ g/L | 7.93 |
| Ca | 17.9 | m g/L | 1.30 | Pb | 25.8 | μ g/L | 5.11 |
| Cd | 6.10 | μ g/L | 1.105 | Sb | 3.6 | μ g/L | 2.52 |
| Co | 13.5 | μ g/L | 2.67 | Se | 5.50 | μ g/L | 2.08 |
| Cr | 22.0 | μ g/L | 4.97 | SiO2 | 30.8 | m g/L | 15.42 |
| Cu | 28.1 | μ g/L | 5.97 | Sr | 84 | μ g/L | 7.0 |
| Fe | 14000 | μ g/L | 4233 | V | 24.0 | μ g/L | 9.04 |
| K | 2.80 | m g/L | 0.852 | Zn | 75.0 | μ g/L | 20.09 |