

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

REPORT OF THE U.S. GEOLOGICAL SURVEY'S ANALYTICAL EVALUATION  
PROGRAM—STANDARD REFERENCE WATER SAMPLES M96 (MAJOR  
CONSTITUENTS), T97 (TRACE CONSTITUENTS), N17 (NUTRIENTS), P10  
(PRECIPITATION SNOWMELT), AND BED MATERIAL SAMPLE SED2 (SEDIMENT).

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Denver, Colorado

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Comments, suggestions, or questions regarding these samples or this program may be made by calling (303) 236-3612 (FTS 776-3612), or by writing to Victor J. Janzer, SRWS Program, U.S. Geological Survey, 5293 Ward Road, Arvada, CO 80002.

## ABSTRACT

The U.S. Geological Survey Water Resources Division's (WRD) Standard Reference Sample project conducts an interlaboratory testing program twice yearly. A series of natural matrix water and sediment reference samples are prepared and distributed to Survey and non-Survey laboratories that provide water quality data for WRD use. Since 1962, when this program began, objectives have been to provide a means for: (1) evaluating the performance of participating laboratories; (2) identifying analytical problem areas; (3) ascertaining the accuracy and precision of analytical methods; and (4) providing adequate supplies of a variety of reference samples to enable continuing quality assurance testing with those laboratories, as necessary. Participation in this program is mandatory for all laboratories providing water quality data for WRD use and storage in the Survey's WATSTORE data storage system.

This report presents analytical data submitted by the laboratories that analyzed up to 5 reference sample types which were distributed during the last week of October 1986. Samples included a major constituent, trace constituent, nutrient and precipitation (snow melt) water samples and a sediment (bed material) sample for major, minor and trace constituents. Relative performance ratings achieved by the laboratories for each determination, statistical evaluation of the data and data summaries are presented in 16 tables.

When sufficient data are available, "most probable values" (MPVs), are statistically determined for each constituent in the reference samples. Only results from those laboratories with an overall performance rating of 2.6 or better are used to determine the MPV. Limited quantities of most of these defined reference samples are available to participating laboratories for further testing and continuing quality assurance efforts. Questions or comments regarding the program or requests for samples should be directed to: Victor J. Janzer (303) 236-3612 or FTS 776-3612.

## INTRODUCTION

The U.S. Geological Survey Water Resources Division's (WRD) Standard Reference Sample project conducts an interlaboratory testing program twice yearly. A series of natural matrix water and sediment reference samples are prepared and distributed to Survey and non-Survey laboratories that provide water quality data for WRD use. This interlaboratory testing program utilizing natural matrix reference materials began in 1962 with a single major-constituent reference sample prepared from distilled water and reagent grade chemicals. Twenty-three U.S. Geological Survey laboratories participated in the 1962 effort to determine 6 constituents in a single major-constituent Standard Reference Water Sample (SRWS). Since that time, objectives of the program have been to provide a means for: (1) evaluating the performance of participating laboratories; (2) identifying analytical problem areas; (3) ascertaining the accuracy and precision of analytical methods; and (4) providing adequate supplies of a variety of reference samples to enable continuing quality assurance testing with those laboratories, as necessary. Today, more than 120 laboratories, both Survey and non-Survey, participate in the program, which currently uses up to seven SRS types: (1) major constituents; (2) trace constituents; (3) nutrients; (4) water and suspended-sediment mixture for trace metals; (5) precipitation snowmelt; (6) acid mine drainage; and (7) a sediment (bed material) for major, minor and trace constituents.

## PURPOSE AND PLAN

Participation in this continuing quality-assurance program is mandatory for all laboratories providing water-analysis data for U.S. Geological Survey use. Major constituent, trace-constituent, and nutrient SRWS are prepared and distributed to participating laboratories twice each year. One or more of the other SRS types also may be included. Periodic analysis of these reference samples provides the means to alert

participating laboratories to deficiencies in their analytical operations, and provides reference solutions for continuing quality assurance testing. These analyses provide independent and objective evaluations of water-quality data provided by some of these laboratories for Survey use and publication. Participating non-U.S. Geological Survey laboratories in these studies are identified only by a confidential code number whereas U.S. Geological Survey laboratories are identified by location, name and code number.

This report summarizes the analytical results submitted by 112 of the 126 laboratories that requested and were shipped samples for this round of testing. Not all samples are requested nor necessarily analyzed by all laboratories, nor do all laboratories enrolled in the program participate in each round of analyses. Samples which were distributed during October 1986 included SRWS M96 (major constituents), SRWS T97 (trace constituents), SRWS N17 (nutrients), P10 (precipitation snowmelt), and SED2 (sediment). Each participating laboratory was asked to perform at least those determinations that it makes routinely on the respective sample type, and to indicate the analytical methods used for each constituent. When method information was provided, it has been included in the respective data tables. **Relative performance ratings achieved by the laboratories for each determination, statistical evaluations of the data and a summary of the "most probable values" are given in 16 tables.**

### PREPARATION OF SAMPLES

SRWS M96 (major constituents), T97 (trace constituents), and N17 (nutrients) were prepared from natural surface waters. SRWS P10 (precipitation) was prepared from melted snow.

Samples M96, T97, N17, and P10 were prepared by allowing the suspended sediment to settle for several days in the collection drums. Each partly clarified sample was then filtered sequentially through a 10  $\mu\text{m}$  (micrometer) nominal size prefilter, then a 5  $\mu\text{m}$  nominal size intermediate filter and finally a 0.45  $\mu\text{m}$  membrane filter, into large clean polyethylene drums.

The filtered raw water for sample M96 was supplemented by the addition of Ca, F, Mg,  $\text{NO}_2\text{-N}$ , Si,  $\text{SO}_4$ , and V salts. Sample T97 was supplemented by the addition of Ag, Al, As, B, Ba, Cd, Co, Cr, Cu, Fe, Li, Mn, Mo, Ni, Pb, Sb, Se, V, and Zn salts. Nitric acid was also added to T97 to reduce pH to 1.5-2. Final solutions for both samples were mixed for several hours. Due to persistent problems of bacterial and fungal growths, free chlorine was used as a preservative in samples M96 and T97. Prior to bottling these samples, sodium hypochlorite was added to achieve initial concentrations of several parts per million free chlorine. The samples were then filtered again through a 0.45  $\mu\text{m}$  membrane filter, followed by a 0.2  $\mu\text{m}$  membrane "final filter", then passed through a flow-through ultraviolet [254 nm (nanometer)] sterilizer and packaged under ultraviolet radiation, in dry-heat sterilized 1-L Teflon<sup>1/</sup> or autoclaved polypropylene bottles. No additions were made to P10.

Natural nutrient concentration levels in N17 were supplemented by the addition of  $\text{NH}_3\text{-N}$ ,  $\text{NO}_2\text{-N}$  and P as dissolved reagent grade chemicals. It was preserved by the addition of mercuric chloride (50 mg/L). Sodium chloride (450 mg/L) was also added. This is equivalent to the U.S. Geological Survey technique for field preservation of nutrient samples, using mercuric chloride and sodium chloride. The sample was then mixed for several hours with a motor-driven Teflon-coated stirrer, filtered, packaged in polyethylene bottles without sterilization, and stored in the dark at 4 °C (Celsius), until needed. With the exception of the nutrient samples, most of which were shipped in iced coolers, the samples for this round-robin testing were shipped at ambient temperatures.

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<sup>1/</sup>The use of the trade name in this report is for identification purposes only and does not constitute endorsement by the U.S. Geological Survey.

SED2 was prepared by air drying a natural silty sediment. Any lumps formed on drying were gently disaggregated and the material was then sieved. All material passing a 125 micrometer-size sieve was retained and strongly magnetic minerals were removed. The resulting material was well mixed and then packaged in 20 mL plastic vials.

### DETERMINATIONS

Abbreviations or symbols are listed in Table 1 for each determination made on the various SRS. These abbreviations and symbols are used in tables 3-17. Additional abbreviations and symbols used in tables 3-17 are explained in Table 2. Standard Reference Samples in this listing include: M96 (major constituents), T97 (trace constituents), N17 (nutrients), P10 (precipitation snowmelt), and SED2 (sediment).

Table 1.—Determinations Requested on Reference Samples

Abbreviation/Symbol	M96	T97	N17	P10	SED2
	(mg/L) <u>1/</u>	( $\mu$ g/L) <u>2/</u>	(mg/L)	(mg/L) <u>3/</u>	( $\mu$ g/g) <u>4/</u>
ALK(CACO3) = Alkalinity (as CaCO <sub>3</sub> )	x				
ACID(CACO3) = Acidity (as CaCO <sub>3</sub> )		x		x	
AG = Silver		x			x
AL = Aluminum		x			x
AS = Arsenic		x			x
B = Boron	x	x			x
BA = Barium		x			x
BE = Beryllium					x
BR = Bromide	x				
C, inorganic = total inorganic carbon					x
C, total = total carbon					x
CA = Calcium	x	x		x	x
CD = Cadmium		x			x
CL = Chloride	x			x	
CO = Cobalt		x			x

Table 1.--continued

Standard Reference Samples in this listing include: M96 (major constituents), T97 (trace constituents), N17 (nutrients), P10 (precipitation snowmelt), and SED2 (sediment).

Abbreviation/Symbol		M96 (mg/L) <u>1/</u>	T97 ( $\mu$ g/L) <u>2/</u>	N17 (mg/L)	P10 (m/L) <u>3/</u>	SED2 ( $\mu$ g/g) <u>4/</u>
CR TOT	= Chromium, total		x			x
CU	= Copper		x			x
DSRD 180	= Dissolved solids, 180°C	x				
F	= Fluoride	x			x	
FE	= Iron		x			x
HG	= Mercury		x			x
K	= Potassium	x	x		x	x
LI	= Lithium		x			x
MG	= Magnesium	x	x		x	x
MN	= Manganese		x			x
MO	= Molybdenum		x			x
NA	= Sodium	x	x		x	x
NH3-N	= Ammonia as nitrogen			x	x	
NI	= Nickel		x			x
NO2-N	= Nitrite as nitrogen			x		
NO3-N	= Nitrate as nitrogen	x		x	x	
ORG-N	= Organic nitrogen as nitrogen			x		
PB	= Lead		x			x
PH	= pH	x			x	
PO4-P	= Orthophosphate as phosphorus			x	x	
P, TOTAL	= Phosphorus, Total as phosphorus	x		x		

Table 1.--continued

Standard Reference Samples in this listing include: M96 (major constituents), T97 (trace constituents), N17 (nutrients), P10 (precipitation snowmelt), and SED2 (sediment).

Abbreviation/Symbol		M96 (mg/L) <u>1/</u>	T97 ( $\mu$ g/L) <u>2/</u>	N17 (mg/L)	P10 (mg/L) <u>3/</u>	SED2 ( $\mu$ g/g) <u>4/</u>
SB	= Antimony		x			x
SE	= Selenium		x			x
SIO2	= Silica	x	x			
SO4	= Sulfate	x			x	
SP.COND.	= Specific conductance	x			x	
SR	= Strontium	x	x			x
V	= Vanadium	x	x			x
ZN	= Zinc		x			x

1/ Results in mg/L except pH (units); specific conductance (microsiemens or micromhos per centimeter at 25 °C); boron, bromide, strontium, and vanadium (micrograms per liter).

2/ Results in  $\mu$ g/L except acidity, calcium, magnesium, potassium, silica, and sodium (milligrams per liter).

3/ Results in mg/L with  $\text{NH}_4^+$ ,  $\text{NO}_3^-$ ,  $\text{PO}_4^{3-}$ , and  $\text{SO}_4^{2-}$  concentrations reported in terms of the respective ions. Specific conductance values are given in microsiemens or micromhos per centimeter at 2 °C and pH is reported in units.

4/ Results in  $\mu$ g/g except aluminum, calcium, total inorganic carbon, total carbon, copper, iron, magnesium, manganese, potassium, sodium and zinc (milligrams per gram).



## STATISTICAL EVALUATION

Statistical evaluations of the data were made to estimate the most probable value (MPV) for each of the constituents determined. Reported values of "less than" were considered as "not determined" and were not used (ignored) in the computation of the means, standard deviations, and so forth.

Outlying values for the remaining data were rejected on the basis of statistical tests as outlined in American Society for Testing and Materials (1981). After rejection of the outliers, the data remaining for each constituent were used to calculate the means, standard deviations, and percent deviation from the mean for each value, and the means and standard deviations for each determination listed by "method". The total range for each constituent included those values rejected as outliers. Confidence limits about the mean also were calculated; these limits define the range within which the true value may be expected to occur with a confidence level of 95 percent.

Values reported for all constituents determined in each SRS are listed in Tables 8, 10, 12, 14, and 16. Each value has been rounded off, when necessary, to conform to U.S. Geological Survey policy on reporting analytical data as given by Bishop and others (1978). The mean, standard deviation, and confidence limits about the mean usually are reported to one more significant figure than the reported value. Statistical information is tabulated for each method used by three or more laboratories to determine a specific constituent. Tables 9, 11, 13, 15, and 17 listing the mean and standard deviation for the constituent determined by each method, and the number of laboratories that used it, follow the analytical-data tables for each SRS.

Summaries of several statistical listings, including the most probable values and standard deviations, for most constituents in this series of reference samples are given in Table 18. Considerable differences for some constituents are evident if the listed MPVs are compared with the corresponding means and standard deviations given for each parameter at the end of each analytical data table. These differences result because only data from those labs with a rating of 2.6 or better on that sample are used to determine the MPVs in Table 18. Unless noted otherwise, the MPVs listed in Table 18 should be used for evaluating future analyses of any of these reference samples.

### LABORATORY PERFORMANCE AND REPORTED VALUES

To facilitate interlaboratory performance comparisons, ratings based on the analyses reported for each SRS are included as Tables 2-4 in this report. Laboratory performance for each constituent is rated on an arbitrary scale of 0 to 4 based on the number of "standard deviations" from the mean as indicated below:

4 (Excellent)	-----0.00 to 0.50 standard deviation
3 (Good)	-----0.51 to 1.00 standard deviation
2 (Satisfactory)	-----1.01 to 1.50 standard deviations
1 (Questionable)	-----1.51 to 2.00 standard deviations
0 (Poor)	-----Greater than 2.00 standard deviations

Averages of the constituent ratings for each Standard Reference Water Sample are given for each laboratory in the tables of overall laboratory performance (tables 2-6).

Laboratories were requested to identify the method used for each determination. The references for these methods are included with the analytical data and are identified in the following listing:

1. American Public Health Association and others, 1985, Standard methods for the examination of water and wastewater [15th ed.]: Washington, D.C., 1134 p.

2. American Society for Testing and Materials, 1986, Annual book of ASTM standards, Volume 11.01: Philadelphia, PA, U.S.A., 797 p.
3. Kopp, J. F., and McKee, G. F., 1983, Methods for chemical analysis of water and wastes: Cincinnati, Ohio, U.S. Environmental Protection Agency.
4. Fishman, M. J., and Friedman, L. C., eds., 1985, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1, Open-File Report 85-495, 709 p.
5. Fishman, M. J., and Bradford, W. L., eds., 1982, A supplement to methods for the determinations of inorganic substances in water and fluvial sediments: (Supplement to U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1), U.S. Geological Survey Open-File Report 82-272, 136 p.
6. Fishman, M. J., and Pyen, Grace, 1979, Determination of selected anions in water by ion chromatography: U.S. Geological Survey Water-Resources Investigations 79-101, 30 p.
7. Other references and instrument manufacturer's operation manuals.

In many instances, virtually the same method is given in several references. In those cases, all references describing that method are listed. If the analytical method used was not included in any of the listed references, analysts were requested to indicate "Other". Reference columns are left blank, if no method or an "other" method was indicated.

## DISCUSSION

A problem was encountered with sample P10 precipitation snowmelt. Apparently many of the P10 samples bottled in polypropylene developed a putrid odor indicative of sample decomposition. No growths or precipitates were observed in the samples. However, subsequent testing has confirmed the presence of bacteria in these samples. "Most probable values" (MPVs) determined for several constituents in P10 may thus be invalid and the respective MPVs will probably be reflected by poor precision. Laboratory performance rating values for individual parameters in this sample may thus be suspect and should be evaluated accordingly.

SRS SED2 (bed material) is the third natural sediment derived reference material prepared for the determination of major, minor and trace constituents by "soft digestion" (dilute acid) techniques. SED1 and 3 were distributed earlier. Concentration levels reported for the major and several minor constituents in SED2 were in the high microgram per gram range and were consequently converted to milligrams per gram units to enable printing in the computer generated tables. Considering the many variations in the dilute acid digestions of SED2 (bed material), concentration values for most constituents were surprisingly uniform and showed unexpectedly high precision for a sample of this type. SED2 thus appears suitable for limited use as a "soft-digestion" sediment-analysis quality assurance reference material.

## REFERENCES

- American Society for Testing and Materials, 1981, Annual book of ASTM standards, Part 41, Philadelphia, Pa., 1390 p.
- Bishop, E. E., Eckel, E. B., and others, 1978, Suggestions to Authors of the reports of the, U.S. Geological Survey: Washington, D. C., U.S. Government Printing Office, 6th edition, p. 198.

## PARTICIPATING LABORATORIES

### U.S. Geological Survey

CALIFORNIA, Sacramento: Yates 103

COLORADO, Denver: Schoen 001

Kimball 012

Taylor/Garbarino 005

FLORIDA, Ocala: Kirkland 033

LOUISIANA, Baton Rouge: Garrison 053

### Cooperator

ALABAMA, Montgomery: ADEM Environmental Laboratory

ALABAMA, Tuscaloosa: Geological Survey of Alabama

ALASKA, Anchorage: Anchorage Water and Wastewater Utility

ALASKA, Soldotna: Alaska Dept. of Fish and Game, Limnology Lab

ARIZONA, Yuma: Bureau of Reclamation

ARKANSAS, Little Rock: Ark. Department of Pollution Control and Ecology

CALIFORNIA, Berkeley: California Department of Health Services

CALIFORNIA, Bryte: California Department of Water Resources Chemical Laboratory

CALIFORNIA, Castaic: Department of Water Resources Chemical Laboratory

CALIFORNIA, La Mesa: San Diego Water Utilities Laboratory

CALIFORNIA, La Verne: The Metropolitan Water District of Southern California

CALIFORNIA, Lakeside: Helix Water District

CALIFORNIA, Livermore: BEEM Laboratory

CALIFORNIA, Los Gatos: Santa Clara Valley Water District

CALIFORNIA, Mammoth Lakes: Sierra Nevada Aquatic Research Lab

CALIFORNIA, Oakland: East Bay Municipal Utility District

CALIFORNIA, Palm Desert: California Regional Water Quality Control Board

CALIFORNIA, Santa Barbara: University of California

CALIFORNIA, Santa Fe Springs: West Coast Analytical Service, Inc.

COLORADO, Arvada: Rocky Mountain Analytical Labs

COLORADO, Aurora: Core Laboratories Incorporated

COLORADO, Denver: Bureau of Reclamation

COLORADO, Denver: Metropolitan Denver Sewage Disposal District #1

COLORADO, Denver: Colorado Department of Health

COLORADO, Denver: Denver Water Department

COLORADO, Fort Collins: Environmental Services/Water Utilities

COLORADO, Golden: Rockwell International General Laboratories

COLORADO, Parachute: Union Oil Company, Upgrade Laboratory

COLORADO, Pueblo: Pueblo Board of Water Works

COLORADO, Steamboat Springs: ACZ Inc/Bookcliffs Laboratory Division

FLORIDA, Clearwater: City of Clearwater, Water Pollution Control Division

FLORIDA, Tallahassee: City of Tallahassee Water Quality Laboratory

FLORIDA, Tampa: Hillsborough County Environmental Protection Commission

FLORIDA, W. Palm Beach: SO Florida Water Management District

Cooperator--continued

GEORGIA, Athens: Soil Testing and Plant Analysis Laboratory  
GEORGIA, Athens: Univ. of Georgia Department of Horticulture  
GEORGIA, Atlanta: Georgia Department of Natural Resources  
GEORGIA, Tifton: U.S. Department of Agriculture, SE Watershed Laboratory

ILLINOIS, Champaign: Illinois State Water Survey  
ILLINOIS, Champaign: Illinois Environmental Protection Agency  
ILLINOIS, Chicago: Illinois Environmental Protection Agency

INDIANA, Indianapolis: Marion County Public Health Laboratory  
INDIANA, Indianapolis: Indianapolis Department of Public Works

IOWA, Des Moines: University Hygienic Laboratory - Des Moines Branch

KANSAS, Lawrence: Kansas Geological Survey  
KANSAS, Topeka: Kansas Department of Health and Environment

KENTUCKY, Frankfort: Kentucky Natural Resources & Environmental Protection  
KENTUCKY, Louisville: Univ. of Louisville, Water Resources Lab

MAINE, Augusta: Maine Department of Environmental Protection

MARYLAND, Baltimore: Martel Laboratory Services, Inc.

MASSACHUSETTS, Wellesley Hills: Massachusetts Department of Public Works

MINNESOTA, Minneapolis: Braun Eng. and Testing Inc.  
MINNESOTA, Minneapolis: Minnesota Public Health Department  
MINNESOTA, St. Paul: Metropolitan Waste Control Commission

MISSOURI, Columbia: Environmental Trace Substances Research Center  
MISSOURI, Jefferson City: Missouri Dept. of Natural Resources

MONTANA, Butte: Montana Bureau of Mines and Geology

NEBRASKA, Lincoln: Environmental Control Labs

NEVADA, Boulder City: BOR, Lower Colorado Regional Lab  
NEVADA, Las Vegas: Clark County Sanitation District  
NEVADA, Reno: Water Analysis Laboratory, Desert Research Institute  
NEVADA, Reno: Nevada State Health Laboratory  
NEVADA, Sparks: City of Sparks, Jt. Treatment Plant  
NEVADA, Sutcliffe: Pyramid Lake Fisheries

NEW JERSEY, Trenton: N.J. Department of Health Environmental and Chemical  
Laboratory

NEW MEXICO, Albuquerque: City of Albuquerque Water Resources Laboratory  
NEW MEXICO, Gallup: Bureau of Indian Affairs - Natural Resources and Engineering  
Laboratory

Cooperator--continued

NEW YORK, Buffalo: Erie County Public Health Laboratory  
NEW YORK, Central Islip: Suffolk County Health Services Department  
NEW YORK, Hempstead: Nassau County Department of Health  
NEW YORK, Millbrook: Institute of Ecosystem Studies  
NEW YORK, New York City: New York City Health Department  
NEW YORK, North Babylon: EcoTest Laboratories, Inc.  
NEW YORK, Oakdale: Suffolk County Water Authority  
NEW YORK, Rochester: FEV Wastewater Treatment Facility Laboratory  
NEW YORK, Rochester: Monroe County Environmental Health Laboratory  
NEW YORK, Syracuse: Onondaga County Department of Drainage and  
Sanitation  
NEW YORK, Syracuse: Syracuse University, Dept. of Geology, Heroy Lab  
NEW YORK, Wantagh: Cedar Creek Advanced Wastewater Treatment Lab

NORTH CAROLINA, Browns Summit: Lake Townsend Water Filtration Plant  
NORTH CAROLINA, Charlotte: Mecklenburg County Environmental Health  
Department  
NORTH CAROLINA, Greensboro: City of Greensboro, Osborne Plant

NORTH DAKOTA, Bismarck: North Dakota State Water Commission

OHIO, Cincinnati: U.S. Environmental Protection Agency  
OHIO, Dayton: The Miami Conservancy District  
OHIO, Medina: Medina County Sanitary Engineering Department  
OHIO, Tiffin: Heidelberg College, Water Quality Laboratory

OKLAHOMA, Norman: Oklahoma Geological Survey  
OKLAHOMA, Oklahoma City: Oklahoma State Dept. of Health

OREGON, Corvallis: U.S. Department of Agriculture, Forestry Sciences Laboratory

PENNSYLVANIA, Harrisburg: Pennsylvania DER, Bureau of Laboratories

SOUTH DAKOTA, Brookings: South Dakota State University, Water Quality Laboratory  
SOUTH DAKOTA, Vermillion: South Dakota Geological Survey

TENNESSEE, Chattanooga: Tennessee Valley Authority, Laboratory Branch

TEXAS, Corpus Christi: Core Laboratories Incorporated  
TEXAS, Tyler: Core Laboratories Incorporated

VIRGINIA, Culpeper: Environmental Systems Service  
VIRGINIA, Manassas: Occoquan Watershed Monitoring Lab

WASHINGTON, Richland: Battelle, Pacific NW Lab  
WASHINGTON, Richland: Rockwell Hanford Operations

WEST VIRGINIA, Morgantown: West Virginia Geologic and Economic Survey

Cooperator--continued

WISCONSIN, Madison: State Laboratory of Hygiene  
WISCONSIN, Milwaukee: Milwaukee Metropolitan Sewerage District

WYOMING, Casper: Core Laboratories Incorporated  
WYOMING, Laramie: Wyoming Department of Agriculture

PUERTO RICO, San Juan: Department of Natural Resources, Laboratory Division

The following laboratories requested test samples, which were shipped to them, but no data were received:

ALASKA, Fairbanks: Alaska Dept. of Natural Resources, Geol. & Geophys. Surveys  
COLORADO, Fort Collins: Stewart Environmental  
COLORADO, Loveland: City of Loveland  
FLORIDA, Palatka: St. John's River Water Management District  
GEORGIA, Albany: Water, Gas and Light Commission  
GEORGIA, Atlanta: USGS, Horowitz  
MAINE, Orono: University of Maine  
NEW YORK, Albany: USGS, Cartwright  
OHIO, Columbus: Ohio Environmental Protection Agency Water Quality Laboratory  
OKLAHOMA, Oklahoma City: Oklahoma Dept. of Agriculture Laboratory  
OREGON, Sandy: Bureau of Water Works, Water Quality Laboratory  
SOUTH CAROLINA, Columbia: South Carolina Water Resources Commission  
VIRGINIA, Hampton: Bionetics Analytical Lab  
WYOMING, Cheyenne: Department of Environmental Quality, Water Quality Division

Table 2.—Explanation of abbreviations and symbols used in computer printout sections

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APDC - ammonium pyrrolidine dithiocarbamate  
AUTO - automated  
AVG - average  
BLK - block  
CHCL<sub>3</sub> - chloroform  
CO'METRIC - colorimetric  
DC - direct current  
DEV - deviation  
DIG - digestion  
EDTA - ethylenediaminetetraacetic acid  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
IC - inductively coupled  
IGNORED - valued reported as less than detection level and not used in statistical analyses  
K & HG SO<sub>4</sub> - potassium & mercuric sulfate  
MIBK - methyl isobutyl ketone  
NABH<sub>4</sub> - sodium borohydride  
ND - not determined  
NR - not rated  
PCT - percent  
PDCA - pyrrolidine dithiocarbamic acid  
PERSULF - persulfate  
PHOSPHOMOLYBD - phosphomolybdate  
REJECT - values identified as an outlier and not used in statistical analyses  
SPADNS - sodium 2-(parasulfophenylazo)-1,8-dihydroxy-3,6-naphthalene disulfonate  
STD - standard  
% - percent  
< - less than  
> - greater than  
--- - dashes in values columns of Statistics by Methods indicate methods used but without sufficient data to calculate meaningful means and standard deviations

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Table 3 Standard Reference Water Sample No. M96. (MAJOR CONSTITUENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	ALK(CACO3)	B	BR	CA	CL	DSRD 180	F	K	MG	NA
1	4	4	2	4	4	2	4	4	3	4
2	4	3	4	4	3	3	2	4	4	4
3	4	4	ND	4	1	4	4	3	4	4
4	3	ND	ND	3	4	4	0	2	4	1
5	ND	4	ND	1	ND	ND	ND	ND	1	3
6	3	ND	ND	ND	4	3	4	ND	ND	ND
7	ND	ND	ND	3	4	ND	ND	4	3	3
8	4	4	ND	3	4	4	4	4	1	4
9	4	ND	ND	4	4	ND	ND	3	4	4
10	ND	ND	2	0	ND	ND	ND	4	0	0
11	4	0	ND	0	ND	3	ND	3	0	4
12	3	4	ND	1	1	ND	0	ND	1	4
13	2	ND	ND	3	0	4	4	2	3	4
14	4	ND	ND	4	3	2	4	ND	4	1
15	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
16	4	4	ND	2	4	4	4	ND	2	ND
17	2	3	ND	4	3	1	ND	0	1	4
18	4	2	ND	2	3	0	4	3	3	3
19	4	ND	ND	3	ND	1	ND	4	3	3
20	4	ND	ND	3	3	4	4	4	4	3
21	ND	ND	ND	4	0	ND	ND	ND	3	2
22	3	ND	ND	ND	4	ND	4	ND	ND	ND
23	4	ND	ND	ND	ND	2	ND	ND	ND	ND
25	4	NR	ND	3	0	0	4	4	0	0
26	ND	NR	ND	1	3	4	4	4	3	4
27	4	3	ND	2	3	4	2	2	4	4
28	4	4	ND	4	4	4	4	4	4	4
29	3	ND	ND	ND	ND	4	ND	ND	ND	ND
31	ND	3	ND	ND	ND	ND	ND	ND	ND	ND
32	4	2	ND	2	0	4	4	4	3	3
33	4	ND	ND	3	4	0	4	4	0	4
34	3	ND	ND	0	4	3	4	4	3	0
35	4	NR	ND	1	4	2	4	4	4	4
36	3	ND	ND	4	0	2	4	0	4	4
37	4	ND	ND	2	4	3	4	4	2	4
38	1	ND	ND	ND	4	ND	ND	ND	ND	ND
39	4	ND	ND	4	1	4	0	4	4	2
40	4	ND	ND	ND	4	4	2	ND	4	ND
41	4	ND	ND	4	4	4	4	ND	3	4
42	4	ND	ND	4	4	ND	4	ND	4	4
43	2	ND	ND	ND	3	ND	ND	3	0	1
44	0	ND	NR	4	3	0	2	4	3	4
45	4	ND	4	4	0	4	ND	4	4	4
48	4	ND	4	4	1	ND	2	4	4	4
50	4	ND	ND	4	4	4	2	3	0	4
51	0	2	ND	1	0	4	2	3	3	0
52	4	ND	ND	2	4	3	4	0	2	4
53	4	ND	ND	1	4	3	1	3	3	2
54	3	ND	ND	3	4	4	4	2	1	4
55	4	4	ND	4	3	4	4	4	3	4
56	3	1	ND	4	3	4	4	1	3	4
57	ND	ND	ND	3	4	4	ND	0	4	3
59	4	ND	ND	2	3	1	4	4	4	3
61	4	ND	ND	4	ND	ND	ND	ND	3	ND
62	0	ND	0	4	3	3	4	4	4	4
63	4	3	ND	4	ND	3	4	4	ND	ND
64	3	NR	ND	0	1	2	4	2	2	3
66	2	ND	ND	2	ND	ND	4	4	3	ND
69	2	ND	ND	0	3	4	0	4	2	0
70	ND	4	ND	2	ND	ND	ND	4	0	4
71	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
72	ND	ND	ND	4	ND	ND	4	3	4	4
73	0	ND	ND	ND	ND	ND	4	ND	ND	ND
74	3	ND	ND	0	4	2	2	1	1	4
75	ND	ND	ND	3	ND	ND	ND	2	3	3
76	4	4	ND	4	3	3	4	3	4	4
79	0	2	ND	0	3	4	4	4	3	2
80	4	3	ND	1	3	4	4	4	4	4
81	4	2	ND	1	0	3	4	4	0	0
83	3	ND	ND	3	3	1	ND	3	4	4
84	4	4	ND	4	4	3	4	4	1	2
85	4	3	ND	4	4	4	4	4	0	4
87	0	4	ND	4	4	ND	ND	3	0	4
88	ND	4	ND	2	0	4	4	4	4	4
89	4	ND	ND	4	4	3	4	ND	1	1
91	ND	ND	ND	4	ND	ND	ND	4	2	ND
92	3	3	ND	ND	3	ND	2	ND	ND	ND
93	3	3	ND	4	4	ND	0	3	4	4
95	4	ND	ND	4	ND	ND	ND	4	3	4
96	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
97	4	ND	ND	4	4	4	4	4	2	4
98	ND	ND	ND	3	4	ND	ND	3	3	2



Table 3 Standard Reference Water Sample No. M96 (MAJOR CONSTITUENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
 3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
 2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
 1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	ALK(CACO3) B	BR	CA	CL	DSRD 180	F	K	MG	NA	
99	3	ND	ND	4	1	4	ND	4	2	4
100	4	ND	ND	4	4	3	4	4	3	3
101	ND	ND	ND	ND	0	ND	ND	ND	ND	ND
102	3	ND	ND	1	4	ND	4	4	4	4
103	4	4	ND	4	4	2	ND	4	3	4
104	2	ND	ND	3	3	2	ND	1	4	1
105	ND	3	ND	4	4	ND	ND	1	3	3
106	ND	4	ND	4	ND	ND	0	0	3	0
107	4	3	ND	1	4	4	0	4	0	1
108	0	ND	ND	ND	ND	4	ND	ND	ND	ND
109	0	0	ND	4	4	4	4	3	4	4
110	4	1	ND	3	3	4	4	4	3	4
111	ND	ND	ND	4	4	2	ND	0	3	0
112	ND	ND	ND	4	4	4	4	4	4	2
115	2	NR	ND	2	4	ND	4	3	3	1
116	3	ND	ND	2	3	ND	4	4	3	2
117	0	ND	ND	ND	1	3	ND	ND	ND	ND
119	2	0	ND	4	4	0	4	0	3	3
120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
122	3	4	ND	4	4	4	1	0	4	4
123	ND	ND	ND	ND	3	ND	ND	ND	ND	ND

Table 3 Standard Reference Water Sample No. M96 (MAJOR CONSTITUENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev.  
2 (Satisfactory) 1.01 to 1.50 Std. Dev.  
1 (Questionable) 1.51 to 2.00 Std. Dev.  
0 (Poor) > 2.00 Std. Dev.  
ND Not determined  
NR Not rated

LAB	NO3-N	P, TOTAL	PH	SIO2	SO4	SP. COND.	SR	V	N	Avg.
1	4	4	3	4	3	4	4	3	18	3.56
2	4	1	4	4	3	4	3	3	18	3.39
3	4	3	0	4	4	4	3	3	17	3.59
4	4	0	4	ND	4	0	ND	ND	13	2.23
5	ND	NR	ND	ND	ND	ND	3	3	6	2.50
6	4	NR	4	4	4	2	ND	ND	9	3.56
7	4	3	4	4	4	ND	ND	ND	10	3.60
8	2	ND	4	2	4	4	ND	ND	14	3.36
9	4	2	4	4	4	4	4	4	13	3.77
10	ND	ND	ND	0	ND	ND	0	0	9	0.67
11	ND	4	2	4	ND	0	0	ND	12	2.00
12	0	ND	1	ND	3	2	3	4	13	2.08
13	ND	ND	2	4	3	4	ND	ND	12	2.67
14	ND	ND	ND	ND	0	4	ND	ND	9	3.11
15	0	3	4	ND	ND	ND	ND	ND	9	2.50
16	3	3	4	ND	2	4	ND	ND	13	3.23
17	4	3	0	ND	4	4	ND	ND	13	2.54
18	3	3	3	4	3	4	ND	ND	13	2.93
19	4	4	3	4	ND	ND	ND	ND	10	3.30
20	3	ND	2	ND	ND	3	ND	ND	11	3.36
21	2	3	4	ND	1	4	ND	ND	9	2.56
22	ND	ND	3	ND	ND	4	ND	ND	5	3.60
23	4	4	ND	ND	ND	ND	ND	ND	4	3.50
25	3	3	3	ND	3	3	ND	NR	13	2.54
26	4	3	4	ND	0	0	ND	ND	12	2.42
27	4	ND	2	ND	2	1	ND	ND	13	2.69
28	ND	ND	3	4	2	4	ND	ND	13	3.77
29	4	3	2	2	ND	3	ND	ND	6	2.83
31	ND	ND	ND	ND	ND	ND	3	NR	2	3.00
32	3	3	0	4	4	3	0	NR	16	2.69
33	4	2	4	4	4	4	4	ND	15	3.67
34	4	0	4	3	4	3	ND	ND	14	2.29
35	4	3	3	4	3	4	4	4	16	3.13
36	3	4	4	2	0	4	2	ND	16	2.88
37	2	0	4	ND	4	1	ND	ND	13	2.62
38	1	ND	3	ND	3	3	ND	ND	6	2.50
39	4	3	4	ND	4	4	ND	ND	13	3.08
40	3	0	4	4	4	1	ND	ND	10	3.00
41	4	3	4	4	4	3	ND	ND	13	3.69
42	3	ND	4	ND	4	2	ND	ND	11	3.73
43	ND	ND	ND	ND	2	0	ND	ND	7	1.57
44	4	4	0	4	2	0	ND	ND	14	2.43
45	4	ND	ND	4	4	ND	ND	ND	11	3.64
48	4	0	3	2	4	4	ND	ND	14	3.14
50	3	ND	ND	ND	4	4	ND	ND	11	3.55
51	2	ND	0	2	3	3	ND	ND	14	1.57
52	3	2	4	ND	0	1	ND	NR	13	2.54
53	ND	ND	3	ND	4	4	ND	ND	11	2.91
54	0	4	4	4	4	3	3	3	16	3.13
55	2	4	3	4	3	4	ND	ND	15	3.60
56	4	4	0	4	4	4	ND	ND	15	3.13
57	2	4	3	ND	ND	4	ND	ND	10	3.10
59	0	3	3	ND	4	4	ND	ND	13	3.00
61	4	3	3	3	ND	3	ND	ND	8	3.38
62	4	ND	2	4	3	4	ND	ND	14	3.07
63	4	2	0	ND	3	4	ND	ND	10	3.10
64	3	3	0	0	2	4	0	1	16	1.88
66	ND	ND	4	ND	3	4	ND	ND	8	3.13
69	3	4	4	ND	0	3	ND	ND	13	2.15
70	ND	0	ND	0	ND	ND	1	2	9	1.89
71	ND	4	3	ND	ND	0	ND	ND	4	2.50
72	ND	ND	ND	ND	ND	4	ND	ND	5	3.80
73	ND	ND	3	ND	ND	4	ND	ND	4	2.75
74	1	2	4	1	1	4	ND	ND	14	2.43
75	ND	ND	3	0	ND	4	0	ND	8	2.25
76	4	ND	3	4	4	4	4	NR	15	3.73
79	0	4	4	ND	3	1	4	0	16	2.19
80	4	0	1	1	4	1	1	NR	16	2.81
81	2	2	4	4	2	3	ND	ND	13	2.08
83	4	3	3	0	2	4	ND	ND	13	2.85
84	4	4	3	3	0	4	1	4	17	3.12
85	4	ND	4	4	4	4	0	ND	14	3.43
87	4	ND	4	3	4	4	4	3	14	3.14
88	0	4	4	3	0	0	4	4	16	2.63
89	4	3	4	4	4	3	4	4	15	3.40
91	ND	ND	ND	3	ND	ND	4	ND	7	2.57
92	1	ND	4	ND	2	3	ND	ND	13	3.23
93	3	ND	4	2	4	ND	4	NR	11	3.27
95	2	4	1	ND	4	4	ND	ND	4	3.75
96	4	3	4	ND	ND	ND	ND	ND		
97	4	4	1	ND	ND	ND	0	4	12	3.25
98	4	4	4	ND	ND	0	ND	ND	9	3.00

TABLE 3 STANDARD REFERENCE WATER SAMPLE No. M96 (MAJOR CONSTITUENTS)

Overall Laboratory Performance  
 RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
 3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
 2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
 1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	NO3-N	P, TOTAL	PH	SIO2	SO4	SP. COND.	SR	V	N	Avg.
99	4	0	ND	ND	4	ND	ND	ND	10	3.00
100	4	4	3	3	4	4	ND	ND	14	3.64
101	0	4	2	ND	ND	4	ND	ND	5	2.00
102	4	0	2	2	2	0	ND	ND	13	2.62
103	4	ND	4	3	4	4	ND	ND	13	3.69
104	0	0	3	ND	0	4	ND	ND	12	1.67
105	ND	1	3	ND	4	4	ND	ND	10	3.00
106	ND	0	ND	ND	ND	4	ND	3	8	1.88
107	3	ND	3	2	4	4	1	3	16	2.75
108	4	3	3	3	ND	3	3	4	7	2.86
109	4	ND	4	3	4	3	ND	ND	14	3.21
110	4	2	4	ND	4	4	ND	ND	14	3.43
111	1	4	4	ND	4	3	ND	ND	11	2.64
112	1	3	4	0	0	4	ND	ND	13	2.85
115	4	4	3	3	1	3	ND	NR	13	2.85
116	3	3	3	ND	0	3	ND	ND	12	2.67
117	2	4	3	ND	4	ND	ND	ND	7	2.43
119	3	3	3	0	0	ND	4	1	17	2.00
120	ND	ND	ND	0	ND	0	ND	ND	1	4.00
122	3	0	0	4	3	4	2	ND	16	2.56
123	4	4	ND	4	ND	3	ND	ND	5	3.60

Table 4 Standard Reference Water Sample No. T97 (TRACE CONSTITUENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	ACID@CACO3	AG	AL	AS	B	BA	CA	CD	CO	CR TOT
1	4	4	4	4	4	4	4	4	4	3
2	3	4	1	3	4	3	3	4	4	3
3	ND	4	0	4	1	4	3	4	NR	3
4	ND	2	3	4	ND	ND	4	4	ND	2
5	ND	ND	4	ND	4	3	3	4	4	2
6	ND	4	ND	3	ND	ND	ND	4	ND	4
8	ND	4	ND	4	ND	ND	ND	3	ND	4
9	ND	3	ND	1	4	4	4	4	4	4
10	ND	ND	3	0	ND	2	0	4	3	1
11	ND	ND	ND	3	3	ND	ND	ND	ND	ND
12	ND	ND	ND	ND	4	4	2	3	4	4
13	ND	4	ND	2	ND	4	ND	2	3	3
16	ND	3	4	3	0	3	2	4	ND	3
17	ND	ND	ND	ND	4	ND	ND	ND	ND	ND
18	1	NR	NR	4	0	4	3	3	ND	1
20	ND	1	ND	4	ND	3	3	0	ND	3
21	ND	4	ND	3	ND	ND	4	2	ND	2
22	ND	4	ND	3	ND	4	ND	0	ND	4
25	ND	NR	4	1	NR	4	3	3	NR	4
26	ND	ND	ND	ND	ND	ND	1	4	ND	0
27	ND	4	ND	2	ND	0	ND	2	ND	2
28	ND	ND	ND	ND	2	ND	4	ND	ND	ND
31	ND	NR	4	NR	4	4	ND	4	NR	NR
32	3	2	3	2	1	4	3	0	NR	NR
33	ND	4	ND	ND	ND	ND	ND	3	ND	ND
34	ND	4	ND	3	ND	4	4	3	ND	1
35	3	4	4	4	ND	4	3	4	4	4
36	3	ND	NR	4	4	4	0	4	NR	3
37	0	4	3	4	ND	4	2	4	NR	4
39	ND	NR	NR	2	ND	NR	1	2	ND	4
40	4	ND	ND	ND	ND	ND	ND	ND	ND	4
41	ND	ND	4	4	4	4	4	4	ND	3
43	ND	3	ND	3	ND	ND	ND	ND	ND	4
44	2	NR	1	3	ND	3	4	2	ND	4
45	ND	ND	ND	ND	ND	ND	ND	4	ND	ND
50	ND	4	ND	4	ND	4	0	4	ND	1
52	ND	3	4	2	ND	4	ND	2	0	4
53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
54	2	0	3	ND	ND	3	3	4	4	4
55	ND	3	3	4	4	4	4	4	ND	4
56	ND	4	ND	3	ND	2	ND	4	ND	4
57	ND	4	3	3	ND	3	3	2	0	4
59	3	1	ND	NR	ND	4	4	3	ND	4
60	ND	ND	ND	ND	ND	ND	ND	4	ND	3
62	ND	4	4	0	1	ND	ND	4	ND	4
63	4	4	1	3	ND	NR	4	4	ND	0
64	4	NR	3	3	4	3	0	0	ND	NR
66	ND	3	ND	ND	ND	ND	ND	4	ND	0
69	3	0	ND	1	ND	ND	0	2	ND	ND
70	ND	2	1	0	2	4	1	2	4	4
71	ND	3	0	2	ND	ND	ND	4	4	4
73	ND	2	ND	ND	ND	ND	ND	2	ND	4
74	2	NR	3	4	ND	3	0	0	ND	1
76	ND	4	4	4	ND	4	4	4	4	4
79	ND	0	4	2	4	4	ND	1	4	0
80	2	0	3	3	ND	0	2	2	4	4
81	ND	ND	4	ND	3	0	ND	ND	ND	ND
82	ND	4	4	ND	4	3	ND	4	4	ND
83	ND	1	4	4	ND	3	3	4	4	4
84	ND	4	4	3	4	4	3	4	NR	4
85	ND	NR	ND	4	ND	0	3	4	3	3
87	ND	ND	4	ND	4	4	4	1	ND	4
88	ND	3	0	0	3	0	1	1	4	1
89	ND	3	2	3	ND	3	4	4	4	4
93	ND	NR	NR	ND	4	4	3	2	NR	2
95	ND	ND	ND	1	ND	ND	ND	3	4	0
97	ND	ND	3	3	ND	3	4	ND	4	4
98	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
99	ND	ND	ND	0	ND	4	4	4	ND	4
100	3	1	0	2	ND	4	3	3	3	2
101	ND	4	ND	ND	ND	ND	ND	2	ND	4
102	ND	4	ND	4	ND	3	ND	3	ND	3
103	ND	ND	ND	4	4	4	4	4	ND	4
104	1	2	ND	ND	ND	ND	4	3	ND	4
105	ND	ND	2	4	4	ND	4	4	ND	3
106	ND	1	3	NR	4	4	4	3	NR	2
107	ND	NR	0	ND	4	4	3	ND	NR	2
108	ND	ND	ND	ND	ND	ND	ND	2	ND	1
109	ND	ND	ND	4	ND	ND	4	ND	ND	ND
111	ND	4	2	3	ND	4	2	2	ND	2
112	ND	ND	ND	ND	ND	ND	4	ND	ND	ND
113	ND	4	3	4	ND	1	4	ND	ND	4
115	4	NR	NR	4	NR	NR	2	3	NR	NR
116	2	NR	NR	1	ND	NR	2	NR	NR	NR
117	ND	ND	ND	ND	ND	ND	ND	0	ND	4
119	ND	2	4	4	1	0	3	1	4	4
120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4 Standard Reference Water Sample No. T97 (TRACE CONSTITUENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	CU	FE	HG	K	LI	MG	MN	MO	NA	NI
1	4	4	4	4	4	4	3	4	4	3
2	4	4	2	4	2	3	4	4	4	4
3	3	3	4	4	1	4	3	NR	4	NR
4	NR	1	ND	3	ND	4	4	NR	4	NR
5	4	4	ND	ND	3	4	3	4	3	0
6	ND	ND	4	ND	ND	ND	ND	ND	ND	ND
8	2	ND	4	ND	ND	ND	4	4	ND	ND
9	3	4	ND	4	4	4	4	4	3	4
10	0	0	ND	2	ND	0	1	0	ND	3
11	3	4	ND	ND	3	ND	0	4	ND	ND
12	4	4	ND	ND	4	3	4	2	4	2
13	0	0	ND	ND	ND	ND	1	3	ND	3
14	3	ND	ND	ND	ND	1	ND	ND	ND	3
16	ND	0	ND	ND	ND	ND	0	ND	ND	ND
17	4	1	3	3	ND	3	2	NR	3	0
18	NR	3	ND	4	ND	4	2	NR	4	ND
20	3	ND	4	ND	ND	4	ND	ND	2	ND
21	2	3	3	ND	ND	4	4	ND	ND	ND
22	NR	4	4	ND	ND	ND	4	ND	ND	ND
23	4	2	ND	4	ND	3	3	4	0	NR
24	4	2	ND	4	ND	0	3	ND	4	2
27	ND	ND	2	ND	ND	ND	ND	ND	ND	ND
28	ND	ND	ND	4	ND	4	ND	NR	4	ND
31	NR	4	ND	ND	ND	4	4	4	ND	NR
32	3	1	ND	3	4	ND	0	0	4	NR
33	4	3	4	ND	ND	4	4	ND	4	4
34	3	3	4	ND	ND	ND	0	0	ND	4
35	3	2	4	0	ND	1	2	ND	4	ND
36	0	1	2	1	0	4	4	2	4	4
37	3	4	4	4	ND	4	4	ND	4	NR
39	4	NR	4	0	ND	1	NR	ND	4	NR
40	4	0	ND	ND	ND	ND	ND	ND	ND	ND
41	4	4	3	4	4	4	4	ND	4	ND
43	4	2	ND	4	ND	2	0	ND	4	ND
44	NR	3	2	4	ND	4	3	ND	2	4
45	ND	4	ND	ND	ND	ND	4	4	4	4
50	4	2	1	3	ND	4	2	ND	4	4
52	NR	2	4	ND	ND	ND	4	4	ND	4
53	ND	3	ND	ND	ND	ND	0	NR	ND	NR
54	1	2	1	2	ND	4	4	ND	2	ND
55	0	4	4	4	ND	3	4	ND	4	2
56	3	4	3	ND	ND	ND	4	ND	ND	3
57	2	0	1	4	ND	4	1	ND	4	4
59	4	4	NR	3	ND	0	3	ND	4	4
60	4	4	ND	ND	3	ND	3	ND	ND	4
62	4	3	4	ND	ND	ND	4	ND	ND	ND
63	4	4	4	3	ND	0	4	ND	3	ND
64	3	3	0	2	NR	1	4	2	4	NR
66	4	4	4	ND	ND	ND	1	ND	ND	4
69	NR	0	1	4	ND	2	NR	ND	3	NR
70	4	1	ND	3	4	3	4	4	0	4
71	4	4	ND	ND	ND	ND	4	ND	ND	3
73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
74	3	0	0	4	ND	3	NR	ND	4	NR
76	3	4	4	3	4	4	3	NR	4	3
79	3	0	4	ND	ND	ND	0	ND	ND	3
80	3	3	NR	4	ND	4	3	NR	4	4
81	1	0	ND	4	ND	ND	0	ND	0	ND
82	3	ND	NR	ND	ND	ND	3	4	ND	ND
83	1	4	0	4	ND	3	2	ND	4	3
84	4	4	4	4	ND	4	4	2	4	4
85	ND	3	ND	4	ND	4	0	ND	4	ND
87	4	4	1	1	3	0	4	4	3	ND
88	0	0	ND	4	3	1	1	4	3	ND
89	3	0	4	ND	ND	1	4	2	0	3
93	NR	2	ND	4	4	2	4	NR	2	NR
95	4	ND	ND	ND	ND	ND	2	ND	ND	4
97	ND	ND	ND	4	ND	2	3	3	4	ND
98	ND	4	ND	4	ND	1	3	ND	3	ND
99	3	4	2	4	ND	2	3	ND	4	4
100	1	4	4	2	ND	4	3	ND	4	3
101	4	4	ND	ND	ND	ND	ND	ND	ND	3
102	3	3	2	ND	ND	ND	4	ND	ND	0
103	3	4	4	4	ND	3	4	4	4	3
104	3	4	ND	1	ND	1	4	ND	1	4
105	2	4	4	0	ND	3	4	2	4	ND
106	0	4	ND	0	4	4	4	4	4	ND
107	1	2	ND	3	ND	2	4	4	2	NR
108	4	ND	3	ND	ND	ND	2	ND	4	NR
109	ND	4	4	3	ND	4	ND	ND	ND	4
111	3	1	2	4	ND	3	4	ND	4	ND
112	ND	0	ND	4	ND	3	4	ND	0	3
113	ND	4	ND	ND	ND	4	ND	ND	2	ND
115	3	4	4	2	0	2	0	ND	4	4
116	NR	0	NR	4	ND	2	4	NR	2	4
117	3	ND	ND	ND	ND	3	NR	ND	3	NR
119	4	0	3	0	ND	1	ND	ND	ND	ND
120	ND	ND	ND	ND	ND	ND	ND	ND	1	3

Table 4 Standard Reference Water Sample No. T97  
Overall Laboratory Performance

(TRACE)

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	PB	SB	SE	SIO2	SR	V	ZN	N	Avg.
1	4	3	3	4	4	3	4	27	3.78
2	4	4	4	4	4	NR	4	26	3.50
3	3	4	3	3	4	0	4	23	3.04
4	NR	NR	3	ND	ND	ND	4	13	3.23
5	4	ND	2	ND	3	3	4	20	3.25
6	3	ND	3	ND	ND	ND	ND	7	3.57
8	4	ND	4	ND	ND	0	0	11	3.36
9	1	4	1	3	4	3	4	24	3.42
10	3	ND	4	4	0	3	1	20	1.70
11	1	ND	0	3	ND	ND	4	11	2.55
12	2	ND	ND	ND	4	3	3	18	3.33
13	3	ND	4	ND	ND	ND	0	14	2.29
16	4	4	4	0	ND	ND	ND	15	2.73
17	ND	ND	ND	ND	ND	ND	ND	3	1.33
18	0	NR	4	4	ND	ND	4	19	2.47
20	4	ND	4	ND	ND	ND	4	14	3.07
21	0	ND	2	ND	ND	ND	2	12	2.67
22	1	ND	4	ND	ND	ND	4	12	3.00
25	NR	NR	4	ND	ND	NR	4	15	3.27
26	3	ND	ND	ND	ND	ND	4	12	2.58
27	3	ND	1	ND	ND	ND	ND	8	2.00
28	NR	ND	ND	3	ND	ND	ND	6	3.50
31	NR	ND	ND	ND	3	NR	4	9	3.89
32	NR	NR	4	4	0	NR	4	21	2.33
33	4	ND	ND	ND	ND	ND	4	9	3.78
34	0	2	4	4	4	ND	4	17	2.47
35	0	0	3	4	4	4	2	26	3.15
36	0	4	4	4	4	NR	2	20	2.65
37	4	4	4	ND	ND	ND	4	18	3.33
39	2	NR	4	ND	ND	ND	3	12	2.33
40	ND	ND	ND	4	4	ND	4	6	3.33
41	ND	ND	4	4	3	3	3	20	3.75
43	ND	ND	1	1	ND	ND	ND	11	3.55
44	3	1	4	3	ND	NR	3	20	2.90
45	ND	ND	ND	ND	ND	ND	ND	3	4.00
50	4	ND	4	ND	ND	ND	4	18	3.17
52	3	0	3	ND	ND	ND	4	14	2.79
53	ND	ND	ND	ND	ND	ND	ND	2	1.50
54	3	ND	ND	ND	3	3	0	20	2.45
55	4	ND	4	4	ND	ND	4	20	3.55
56	4	ND	4	ND	ND	ND	2	13	3.38
57	3	3	3	ND	ND	ND	3	20	2.55
59	4	ND	NR	ND	ND	ND	ND	14	3.21
60	4	ND	ND	ND	ND	ND	3	9	3.56
62	2	ND	2	ND	ND	ND	4	13	3.08
63	3	ND	0	1	ND	ND	2	18	2.67
64	NR	NR	ND	0	0	0	2	20	1.90
66	ND	ND	ND	ND	ND	ND	4	8	3.50
69	ND	ND	0	ND	ND	ND	ND	11	1.45
70	1	ND	0	0	2	4	4	24	2.42
71	3	ND	4	ND	ND	ND	2	13	3.15
73	2	ND	ND	ND	ND	ND	4	5	2.40
74	2	ND	4	2	ND	ND	NR	16	2.19
76	2	ND	4	ND	3	NR	3	21	3.62
79	3	4	1	ND	1	0	0	20	1.95
80	4	3	3	0	4	0	4	23	2.74
81	4	ND	ND	ND	ND	ND	0	10	1.60
82	4	4	ND	ND	3	ND	4	13	3.69
83	2	ND	ND	ND	ND	ND	4	17	2.94
84	3	NR	4	4	4	4	4	23	3.78
85	3	ND	4	4	0	ND	2	16	2.81
87	ND	ND	ND	3	3	ND	4	18	3.06
88	0	4	3	1	4	4	0	25	1.96
89	4	ND	2	4	2	3	2	22	2.77
93	NR	ND	ND	3	3	NR	3	14	3.00
95	0	ND	ND	ND	ND	ND	4	8	2.63
97	4	4	4	ND	0	4	4	17	3.35
98	ND	ND	ND	ND	ND	ND	ND	6	3.00
99	4	ND	3	ND	ND	ND	4	16	3.31
100	4	ND	2	3	ND	ND	4	21	2.81
101	4	ND	ND	ND	ND	ND	1	8	3.25
102	3	ND	3	ND	ND	ND	4	13	3.00
103	3	ND	4	ND	ND	ND	4	18	3.78
104	0	ND	ND	ND	ND	ND	1	14	2.36
105	ND	ND	ND	ND	ND	ND	3	15	3.13
106	NR	NR	NR	ND	3	3	4	18	2.94
107	NR	NR	NR	2	1	NR	0	14	2.07
108	4	ND	ND	4	4	ND	4	8	3.13
109	ND	ND	4	3	4	ND	ND	12	3.67
111	3	4	3	ND	ND	ND	4	19	2.79
112	1	ND	ND	0	1	ND	ND	8	1.88
113	ND	ND	ND	ND	ND	ND	ND	8	1.00
115	NR	NR	NR	2	ND	NR	4	15	3.93
116	NR	NR	3	ND	ND	ND	0	9	2.00
117	3	ND	ND	ND	ND	ND	1	5	2.20
119	3	4	0	ND	2	1	3	25	2.20
120	ND	ND	ND	0	ND	ND	ND	1	0.00

Table 5 Standard Reference Water Sample No. N17 (NUTRIENTS)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	NH3-N	NO2-N	NO3-N	ORG-N	P, TOTAL	PO4-P	N	Avg.
1	NR	3	4	2	3	2	5	2.80
3	NR	3	4	0	4	4	5	3.00
4	NR	0	4	NR	3	1	4	2.00
9	NR	ND	ND	3	4	ND	2	3.50
13	4	ND	1	ND	ND	4	3	3.00
15	0	3	0	3	0	ND	5	1.20
16	ND	0	4	ND	0	0	4	1.00
17	ND	3	4	1	2	0	5	2.00
18	3	3	4	4	4	4	6	3.67
20	NR	3	3	ND	ND	ND	2	3.00
23	NR	3	4	NR	4	4	4	3.75
25	0	NR	2	1	3	0	5	1.20
26	4	3	4	4	2	1	6	3.00
27	ND	3	4	ND	ND	0	3	2.33
28	NR	ND	ND	ND	ND	ND	0	0.00
29	NR	0	4	ND	4	3	4	2.75
33	4	3	4	4	0	0	6	2.50
34	4	3	4	4	0	0	5	2.20
35	NR	3	4	1	3	4	5	3.00
36	ND	3	4	ND	4	ND	3	3.67
37	NR	3	2	ND	0	0	4	1.25
40	2	3	4	ND	1	2	5	2.40
41	ND	ND	4	ND	4	4	3	4.00
42	NR	3	4	ND	ND	ND	2	3.50
44	3	3	4	1	4	2	6	2.83
45	ND	ND	4	ND	ND	ND	4	4.00
46	4	ND	4	3	1	4	1	3.20
47	4	0	4	3	3	4	5	2.33
49	3	ND	4	ND	3	4	6	2.33
50	3	3	4	2	ND	ND	4	3.00
51	3	3	4	ND	3	ND	4	3.25
52	NR	3	4	2	2	3	5	2.80
55	NR	3	4	3	4	3	6	3.40
56	4	3	4	0	4	3	6	2.83
57	ND	3	4	ND	4	2	4	2.25
59	4	ND	0	ND	4	ND	3	2.67
60	3	ND	3	3	0	0	3	1.00
61	3	3	4	3	4	1	6	2.83
62	3	3	4	ND	4	4	3	3.50
64	NR	0	0	ND	ND	3	4	1.75
69	NR	0	2	ND	4	2	4	2.00
70	ND	ND	ND	ND	2	ND	1	2.00
71	3	ND	ND	ND	4	3	3	3.33
72	ND	ND	3	ND	ND	ND	1	3.00
73	3	0	3	ND	ND	3	4	2.25
74	3	3	3	2	0	3	6	2.33
76	3	3	4	1	4	3	6	3.00
79	NR	3	4	4	4	3	5	3.60
80	4	ND	0	ND	3	4	4	2.75
81	3	3	1	ND	0	ND	4	1.75
83	2	3	4	3	4	4	6	3.33
85	3	3	4	ND	ND	ND	3	3.33
88	ND	ND	0	ND	4	4	3	2.67
89	3	3	4	4	4	4	6	3.67
92	ND	ND	0	ND	ND	ND	1	0.00
95	0	0	2	2	3	2	6	1.50
96	4	3	4	ND	3	3	5	3.40
97	ND	ND	4	ND	3	3	3	3.33
98	4	3	4	ND	4	3	5	3.60
99	4	3	4	4	1	ND	5	3.20
100	NR	3	4	4	4	3	5	3.60
101	0	0	2	NR	4	4	5	2.00
103	ND	ND	4	ND	ND	ND	1	4.00
105	ND	ND	ND	ND	4	ND	1	4.00
108	ND	3	4	ND	4	4	4	3.75
111	NR	NR	3	3	4	4	4	3.50
112	ND	3	4	0	4	2	5	2.60
115	4	3	4	4	4	4	6	3.83
116	3	3	4	0	4	4	6	3.00
117	3	ND	4	ND	4	1	4	3.00
119	4	ND	4	0	4	2	5	2.80
123	NR	ND	4	3	4	4	4	3.75

Table 6 Standard Reference Water Sample No. P10 (PRECIPITATION - SNOWMELT)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	ACID@CACO3	CA	CL	F	K	MG	NA	NH3-N	NO3-N	PH
1	3	3	4	NR	3	3	4	3	2	4
2	NR	0	0	2	2	0	NR	2	3	3
3	ND	3	NR	NR	NR	NR	1	NR	NR	3
4	ND	NR	0	NR	NR	NR	NR	NR	2	3
6	ND	ND	3	NR	NR	ND	ND	ND	NR	3
10	ND	3	4	ND	3	ND	ND	ND	ND	ND
15	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
16	ND	NR	NR	4	ND	NR	ND	ND	3	3
17	ND	ND	0	ND	ND	ND	ND	ND	3	3
19	3	4	ND	ND	3	1	4	NR	2	4
21	ND	NR	NR	ND	ND	NR	NR	NR	3	ND
28	ND	3	NR	NR	3	NR	NR	NR	ND	1
35	0	2	4	NR	NR	3	NR	NR	NR	2
38	ND	ND	3	ND	ND	ND	ND	NR	3	4
41	3	3	ND	ND	ND	3	3	ND	ND	ND
42	ND	2	ND	NR	NR	NR	NR	NR	3	4
43	ND	ND	ND	ND	4	3	2	ND	ND	ND
44	1	2	3	NR	NR	1	3	NR	3	3
55	ND	3	NR	4	NR	NR	NR	NR	NR	2
56	3	NR	NR	NR	NR	NR	NR	4	3	0
61	ND	4	ND	ND	ND	NR	ND	NR	4	4
63	4	3	1	2	3	3	4	ND	2	4
64	4	1	0	NR	NR	NR	NR	NR	NR	0
69	4	3	4	NR	2	NR	2	NR	NR	0
70	ND	4	ND	ND	3	1	1	ND	ND	ND
76	ND	4	3	NR	3	3	3	NR	3	4
77	ND	4	3	ND	3	3	3	3	2	4
79	ND	NR	NR	0	2	NR	0	2	2	3
85	ND	1	NR	NR	2	0	0	NR	NR	4
88	ND	4	3	NR	3	3	4	ND	1	2
93	ND	0	ND	ND	NR	NR	NR	ND	ND	ND
98	ND	ND	ND	ND	ND	ND	ND	2	1	4
100	4	3	4	NR	3	3	2	NR	3	3
103	ND	4	ND	ND	NR	3	NR	NR	ND	4
104	3	2	3	ND	0	3	4	ND	0	0
105	ND	4	ND	ND	ND	3	2	ND	ND	3
106	ND	3	ND	ND	NR	3	NR	ND	ND	ND
108	ND	ND	ND	ND	ND	ND	ND	2	ND	3
111	ND	2	NR	ND	3	3	3	NR	NR	ND
112	ND	ND	0	ND	ND	ND	ND	0	2	0
115	NR	NR	NR	NR	NR	NR	NR	2	4	3
123	ND	ND	3	ND	ND	ND	ND	4	4	ND

Table 6 Standard Reference Water Sample No. P10 (PRECIPITATION -SNOWMELT)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	PO4-P	SO4	SP.	COND.N	Avg.
1	NR	3	3	11	3.18
2	3	4	2	11	1.91
3	4	NR	4	5	1.00
4	NR	NR	0	4	1.25
6	ND	4	2	4	3.00
10	ND	4	ND	4	3.50
15	ND	ND	ND	1	3.00
16	2	NR	4	5	3.20
17	ND	0	ND	4	1.50
19	4	ND	ND	8	3.13
21	ND	NR	3	2	3.00
28	ND	3	2	5	2.40
35	NR	3	4	7	2.57
38	ND	3	3	5	3.20
41	NR	ND	ND	4	3.00
42	ND	4	4	5	3.40
43	ND	3	1	5	2.60
44	NR	4	4	9	2.67
55	NR	4	0	5	2.60
56	NR	NR	4	5	2.80
61	NR	ND	4	4	4.00
63	0	4	2	12	2.67
64	NR	NR	0	5	1.00
69	NR	3	2	8	2.50
70	ND	ND	ND	4	2.25
76	NR	3	4	9	3.33
77	3	3	3	11	3.09
79	4	0	3	9	1.78
85	ND	4	0	7	1.57
88	NR	3	4	9	3.00
93	ND	ND	ND	1	0.00
98	ND	ND	3	4	2.50
100	NR	NR	4	9	3.22
103	ND	3	4	4	3.75
104	3	4	4	11	2.27
105	ND	3	0	6	2.67
106	ND	ND	ND	2	3.00
108	3	ND	ND	3	2.67
111	ND	NR	NR	4	2.75
112	3	1	4	7	1.43
115	1	NR	4	5	2.80
123	NR	ND	4	4	3.75



Table 7 Standard Reference Sample No. SED2 (SEDIMENT - BED MATERIAL)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	AG	AL	AS	B	BA	BE	C, INORG	C, TOTAL	CA	CD
1	NR	2	0	NR	4	NR	ND	ND	4	3
4	ND	3	1	ND	ND	2	ND	ND	2	3
18	NR	4	0	ND	2	NR	ND	ND	0	3
35	4	3	3	ND	3	3	ND	ND	3	3
39	3	1	3	ND	3	ND	ND	ND	1	3
44	NR	4	3	2	4	3	ND	ND	0	4
46	ND	4	ND	ND	4	3	ND	ND	4	3
54	4	3	2	ND	3	0	ND	ND	4	4
58	3	4	3	3	4	2	ND	ND	2	4
64	NR	4	3	3	2	NR	ND	ND	1	2
80	0	4	3	ND	1	ND	ND	ND	4	1
82	4	ND	ND	ND	2	1	ND	ND	ND	4
85	ND	0	ND	ND	ND	ND	ND	ND	ND	ND
88	3	2	3	0	4	4	NR	ND	3	ND
98	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
100	2	4	4	ND	1	ND	ND	ND	3	4
106	4	2	4	ND	1	ND	ND	ND	3	3
116	NR	1	4	3	4	3	ND	ND	4	3
126	0	1	2	3	3	3	ND	ND	4	3

Table 7 Standard Reference Sample No. SED2 (SEDIMENT - BED MATERIAL)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	CO	CR TOT	CU	FE	HG	K	LI	MG	MN	MO
1	NR	1	3	1	3	4	1	2	4	NR
4	ND	3	2	4	ND	3	ND	4	3	2
18	ND	2	3	3	3	3	ND	3	4	ND
35	2	1	2	3	2	3	3	2	2	NR
39	ND	0	2	0	3	0	ND	1	4	ND
44	ND	2	1	3	4	ND	ND	0	4	3
46	ND	4	1	4	3	3	ND	4	1	ND
54	0	2	3	4	2	3	ND	3	3	ND
58	4	2	4	4	4	4	3	4	4	0
64	2	NR	4	4	2	2	NR	4	4	NR
80	4	3	3	0	3	4	ND	4	4	NR
82	4	4	ND	ND	NR	ND	ND	ND	0	3
85	ND	ND	0	0	ND	ND	ND	ND	1	ND
88	3	3	0	3	ND	3	4	0	3	4
98	ND	2	1	ND	ND	ND	ND	ND	ND	ND
100	1	3	4	2	2	4	ND	4	4	ND
106	4	ND	4	4	ND	3	3	4	4	2
116	2	3	4	1	4	2	ND	3	4	ND
126	3	2	3	4	0	3	4	4	4	3

Table 7 Standard Reference Sample No. SED2 (SEDIMENT - BED MATERIAL)  
Overall Laboratory Performance

RATING 4 (Excellent) 0.00 to 0.50 Std. Dev. 0 (Poor) > 2.00 Std. Dev.  
3 (Good) 0.51 to 1.00 Std. Dev. ND Not determined  
2 (Satisfactory) 1.01 to 1.50 Std. Dev. NR Not rated  
1 (Questionable) 1.51 to 2.00 Std. Dev.

LAB	NA	NI	PB	SB	SE	SR	V	ZN	N	Avg.
1	2	NR	2	4	1	4	1	3	20	2.45
4	0	3	4	NR	NR	ND	ND	4	16	2.69
18	2	3	3	3	2	ND	ND	1	18	2.44
35	1	1	4	NR	NR	4	4	1	22	2.59
39	NR	2	3	NR	0	ND	ND	1	17	1.71
44	ND	4	3	ND	3	ND	3	1	19	2.53
46	1	4	0	ND	4	ND	4	4	17	3.00
54	2	3	3	ND	4	3	4	3	22	2.82
58	4	3	4	4	NR	4	3	4	25	3.36
64	0	NR	4	NR	4	0	3	4	19	2.74
80	4	4	3	2	4	NR	2	4	21	2.90
82	ND	4	4	3	NR	2	2	ND	13	2.85
85	ND	ND	ND	ND	ND	ND	ND	ND	4	0.25
88	3	4	1	2	NR	3	3	0	24	2.42
98	ND	3	4	ND	ND	ND	ND	3	6	2.83
100	4	1	4	ND	2	ND	ND	4	19	2.95
106	4	4	4	NR	NR	3	4	4	22	3.50
116	3	3	2	NR	NR	ND	ND	3	17	2.82
126	3	4	0	1	NR	3	3	3	25	2.52

Table 8 Standard Reference Water Sample M96 Report for ALK(CAC03)

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	119	0.9	TITRATION, ELECTROMETRIC	4
2	117	-0.8	TITRATION, ELECTROMETRIC	4
3	118	0.0	TITRATION, ELECTROMETRIC	4
4	125	5.9	TITRATION, ELECTROMETRIC	4
6	122	3.4	TITRATION, ELECTROMETRIC	4
8	119	0.9	TITRATION, ELECTROMETRIC	4
9	116	-1.7	OTHER	4
11	121	2.6	TITRATION, COLORIMETRIC	3
12	113	-4.2	TITRATION, ELECTROMETRIC	4
13	128	8.5	TITRATION, COLORIMETRIC	3
14	118	0.0	TITRATION, ELECTROMETRIC	4
15	113	-4.2	TITRATION, ELECTROMETRIC	4
16	120	1.7	TITRATION, COLORIMETRIC	3
17	128	8.5	TITRATION, COLORIMETRIC	3
18	120	1.7	TITRATION, ELECTROMETRIC	4
19	119	0.9	TITRATION, ELECTROMETRIC	4
20	120	1.7	TITRATION, COLORIMETRIC	3
22	111	-5.9	TITRATION, ELECTROMETRIC	4
23	115	-2.5	TITRATION, COLORIMETRIC	3
25	121	2.6	TITRATION, COLORIMETRIC	3
27	119	0.9	TITRATION, ELECTROMETRIC	4
28	115	-2.5	TITRATION, ELECTROMETRIC	4
29	124	5.1	TITRATION, ELECTROMETRIC	4
32	116	-1.7	TITRATION, ELECTROMETRIC	4
33	120	1.7	TITRATION, ELECTROMETRIC	4
34	122	3.4	TITRATION, ELECTROMETRIC	4
35	118	0.0	TITRATION, ELECTROMETRIC	4
36	112	-5.1	TITRATION, ELECTROMETRIC	4
37	120	1.7	TITRATION, ELECTROMETRIC	4
38	103	-12.7	TITRATION, ELECTROMETRIC	4
39	116	-1.7	NOT REPORTED	4
40	117	-0.8	TITRATION, ELECTROMETRIC	4
41	117	-0.8	TITRATION, ELECTROMETRIC	4
42	119	0.9	TITRATION, ELECTROMETRIC	4
43	127	7.5	TITRATION, ELECTROMETRIC	4
44	56	-52.5	REJECT	4
45	119	0.9	TITRATION, ELECTROMETRIC	4
48	116	-1.7	NOT REPORTED	4
50	119	0.9	TITRATION, COLORIMETRIC	3
51	140	18.7	TITRATION, COLORIMETRIC	3
52	120	1.7	TITRATION, COLORIMETRIC	3
53	120	1.7	TITRATION, ELECTROMETRIC	4
54	113	-4.2	OTHER	4
55	118	0.0	TITRATION, COLORIMETRIC	3
56	125	5.9	TITRATION, ELECTROMETRIC	4
59	121	2.6	TITRATION, ELECTROMETRIC	4
61	117	-0.8	TITRATION, ELECTROMETRIC	4
62	141	19.5	TITRATION, ELECTROMETRIC	4
63	118	0.0	TITRATION, ELECTROMETRIC	4
64	125	5.9	TITRATION, ELECTROMETRIC	4
66	110	-6.8	TITRATION, COLORIMETRIC	3
69	110	-6.8	TITRATION, COLORIMETRIC	3
71	114	-3.4	TITRATION, ELECTROMETRIC	4
73	100	-15.2	TITRATION, COLORIMETRIC	3
74	114	-3.4	TITRATION, ELECTROMETRIC	4
76	120	1.7	TITRATION, ELECTROMETRIC	4
79	142	20.4	TITRATION, ELECTROMETRIC	4
80	119	0.9	TITRATION, COLORIMETRIC	3
81	116	-1.7	TITRATION, ELECTROMETRIC	4
83	122	3.4	TITRATION, ELECTROMETRIC	4
84	116	-1.7	TITRATION, ELECTROMETRIC	4
85	120	1.7	TITRATION, ELECTROMETRIC	4
87	95	-19.5	TITRATION, ELECTROMETRIC	4
89	121	2.6	TITRATION, ELECTROMETRIC	4
92	114	-3.4	TITRATION, COLORIMETRIC	3
93	114	-3.4	TITRATION, ELECTROMETRIC	4
95	116	-1.7	TITRATION, ELECTROMETRIC	4
96	119	0.9	TITRATION, ELECTROMETRIC	4
97	117	-0.8	TITRATION, ELECTROMETRIC	4
99	113	-4.2	TITRATION, ELECTROMETRIC	4
100	119	0.9	TITRATION, ELECTROMETRIC	4
102	113	-4.2	OTHER	4
103	119	0.9	TITRATION, ELECTROMETRIC	4
104	127	7.6	TITRATION, ELECTROMETRIC	4
107	117	-0.8	TITRATION, ELECTROMETRIC	4
108	100	-15.2	TITRATION, ELECTROMETRIC	4
109	97	-17.8	TITRATION, ELECTROMETRIC	4
110	119	0.9	OTHER	4
115	110	-6.8	TITRATION, COLORIMETRIC	3
116	123	4.2	TITRATION, ELECTROMETRIC	4
117	199	68.7	REJECT	4
119	129	9.3	TITRATION, ELECTROMETRIC	4
122	112	-5.1	TITRATION, COLORIMETRIC	3
			TITRATION, ELECTROMETRIC	4

83 Labs had a total range of 56 to 199 and a mean of 118.0 with a standard deviation of 7.8 and a 95% confidence interval of the mean +/- 1.7.

Table 8 Standard Reference Water Sample M96 Report for B

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	97	-26.2	EMISSION, DC PLASMA	7
2	90	-31.6	EMISSION, IC PLASMA	3
3	120	-8.8	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
5	102	-22.4	OTHER	
8	110	-16.4	COLORIMETRIC, AZOMETHINE	5
11	300	128.1	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
12	99	-24.7	OTHER	
16	120	-8.8	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
17	190	44.5	COLORIMETRIC, AZOMETHINE	5
18	232	76.4	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
25	< 500		IGNORED	
27	180	36.9	EMISSION, IC PLASMA	2, 4
28	104	-20.9	COLORIMETRIC, CARMINE (CARMINIC ACID)	1, 2, 3, 4
31	92	-30.0	EMISSION, IC PLASMA	3
32	60	-54.4	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
35	< 250		IGNORED	
36	50	-62.0	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
51	210	59.7	EMISSION, IC PLASMA	1, 2, 3, 4
55	100	-24.0	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
56	20	-84.8	EMISSION, IC PLASMA	5
63	198	50.6	COLORIMETRIC, AZOMETHINE	1, 2, 3, 4
64	< 1		IGNORED	
70	110	-16.4	EMISSION, IC PLASMA	3
76	120	-8.8	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
79	61	-53.6	MASS SPECTROMETRY, IC PLASMA	7
80	185	40.7	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
81	215	63.5	COLORIMETRIC, CURCUMIN	1, 2, 3, 4
84	103	-21.7	EMISSION, IC PLASMA	1, 2, 3, 4
87	94	-28.5	EMISSION, IC PLASMA	3
88	160	21.7	ATOMIC ABSORPTION, FLAMELESS	3
93	81	-38.4	EMISSION, IC PLASMA	3
103	100	-24.0	COLORIMETRIC, AZOMETHINE	5
105	65	-50.6	EMISSION, IC PLASMA	3
106	100	-24.0	EMISSION, IC PLASMA	3
107	76	-42.2	EMISSION, IC PLASMA	3
109	1100	736.4	REJECT	
110	240	82.5	COLORIMETRIC, CARMINE (CARMINIC ACID)	2, 4
115	< 1000		IGNORED	
119	319	142.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	7
122	100	-24.0	COLORIMETRIC, CARMINE (CARMINIC ACID)	2, 4

40 Labs had a total range of <1 to 1100 and a mean of 131.5 with a standard deviation of 69.9 and a 95% confidence interval of the mean +/- 24.0.

Table 8 Standard Reference Water Sample M96 Report for BR

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	22	-56.9	OTHER	
2	50	-2.0	COLORIMETRIC, CATALYTIC OXIDATION	2, 4
10	83	62.7	X-RAY FLUORESCENCE	7
44	< 20		IGNORED	
45	50	-2.0	ION CHROMATOGRAPHY	2, 3, 6
48	50	-2.0	OTHER	
62	170	233.3	REJECT	
			ION CHROMATOGRAPHY	2, 3, 6

7 Labs had a total range of <20 to 170 and a mean of 51.0 with a standard deviation of 21.6 and a 95% confidence interval of the mean +/- 26.8.

Table 8 Standard Reference Water Sample M96 Report for CA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	44	0.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
4	46	5.0	EMISSION, IC PLASMA	3,5,7
5	48	9.6	EMISSION, IC PLASMA	3,5,7
7	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
8	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
9	44	0.5	EMISSION, IC PLASMA	3,5,7
10	33	-24.7	REJECT X-RAY FLUORESCENCE	7
11	52	18.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
12	49	11.9	EMISSION, IC PLASMA	3,5,7
13	46	5.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
14	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
16	41	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
17	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
18	40	-8.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
19	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	46	5.0	EMISSION, DC PLASMA	7
26	48	9.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
27	47	7.3	TITRATION, EDTA	1,3
28	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
32	47	7.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
33	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
34	54	23.3	REJECT TITRATION, EDTA	1,3
35	39	-11.0	EMISSION, IC PLASMA	3,5,7
36	44	0.5	TITRATION, EDTA	1,3
37	41	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	44	0.5	NOT REPORTED	
41	43	-1.8	EMISSION, IC PLASMA	3,5,7
42	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	45	2.7	EMISSION, IC PLASMA	3,5,7
45	44	0.5	EMISSION, IC PLASMA	3,5,7
48	44	0.5	OTHER	
50	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
51	48	9.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
52	41	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
53	39	-11.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	43	-1.8	EMISSION, IC PLASMA	3,5,7
56	45	2.7	EMISSION, IC PLASMA	3,5,7
57	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	41	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
61	43	-1.8	EMISSION, DC PLASMA	7
62	44	0.5	TITRATION, EDTA	1,3
64	37	-15.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
66	47	7.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	58	32.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	47	7.3	EMISSION, IC PLASMA	3,5,7
72	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
74	34	-22.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
75	42	-4.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
76	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	51	16.4	TITRATION, EDTA	1,3
80	39	-11.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
81	49	11.9	TITRATION, EDTA	1,3
83	42	-4.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
84	44	0.5	EMISSION, IC PLASMA	3,5,7
85	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
87	45	2.7	EMISSION, IC PLASMA	3,5,7
88	41	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
89	45	2.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
91	44	0.5	EMISSION, DC PLASMA	7
93	43	-1.8	EMISSION, IC PLASMA	3,5,7
95	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
97	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
98	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
99	44	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	45	2.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	48	9.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	45	2.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	44	0.5	EMISSION, IC PLASMA	3,5,7
106	45	2.7	EMISSION, IC PLASMA	3,5,7
107	48	9.6	EMISSION, IC PLASMA	3,5,7
109	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
110	42	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
111	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
112	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	41	-6.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
116	40	-8.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
119	44	0.5	TITRATION, EDTA	1,3
122	43	-1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

84 Labs had a total range of 33 to 58 and a mean of 43.8 with a standard deviation of 2.7 and a 95% confidence interval of the mean +/- 0.6.

Table 8 Standard Reference Water Sample M96 Report for CL

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
2	40	3.4	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
3	36	-6.9	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
4	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
6	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
7	39	0.8	TITRATION, SILVER NITRATE	1, 2, 3, 4
8	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
9	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
12	42	8.6	ION CHROMATOGRAPHY	1, 2, 3, 4
13	34	-12.1	TITRATION, SILVER NITRATE	1, 2, 3, 4
14	37	-4.3	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
16	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
17	40	3.4	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
18	40	3.4	TITRATION, SILVER NITRATE	1, 2, 3, 4
20	37	-4.3	TITRATION, SILVER NITRATE	1, 2, 3, 4
21	43	11.2	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
22	38	-1.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
25	31	-19.9	REJECT TITRATION, MERCURIC NITRATE	1, 2, 3, 4
26	40	3.4	TITRATION, SILVER NITRATE	1, 2, 3, 4
27	40	3.4	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
28	38	-1.8	TITRATION, SILVER NITRATE	1, 2, 3, 4
32	43	11.2	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
33	39	0.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
34	39	0.8	TITRATION, SILVER NITRATE	1, 2, 3, 4
35	37	-4.3	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
36	38	-1.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
37	77	99.1	REJECT COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
38	38	-1.8	ION CHROMATOGRAPHY	1, 2, 3, 4
39	42	8.6	NOT REPORTED	1, 2, 3, 4
40	39	0.8	TITRATION, SILVER NITRATE	1, 2, 4
41	39	0.8	ION CHROMATOGRAPHY	2, 3, 6, 7
42	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
43	40	3.4	ION SELECTIVE ELECTRODE	1, 2, 3, 4
44	40	3.4	ION SELECTIVE ELECTRODE	1, 2, 3, 4
45	24	-38.0	REJECT ION SELECTIVE ELECTRODE	1, 2, 3, 4
48	36	-6.9	ION CHROMATOGRAPHY	1, 2, 3, 6, 7
50	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
51	44	13.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
52	39	0.8	TITRATION, SILVER NITRATE	1, 2, 4
53	39	0.8	TITRATION, SILVER NITRATE	1, 2, 4
54	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
55	37	-4.3	TITRATION, SILVER NITRATE	1, 2, 4
56	40	3.4	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
57	38	-1.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
59	37	-4.3	ION SELECTIVE ELECTRODE	1, 2, 3, 4
62	40	3.4	ION CHROMATOGRAPHY	1, 2, 3, 6, 7
64	36	-6.9	TITRATION, SILVER NITRATE	1, 2, 4
69	40	3.4	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
74	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
76	37	-4.3	ION CHROMATOGRAPHY	1, 2, 3, 6, 7
79	37	-4.3	TITRATION, SILVER NITRATE	1, 2, 4
80	37	-4.3	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
81	30	-22.4	REJECT TITRATION, MERCURIC NITRATE	1, 2, 3, 4
83	40	3.4	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
84	39	0.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
85	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
87	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
88	21	-45.7	REJECT ION CHROMATOGRAPHY	1, 2, 3, 4
89	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	2, 3, 6, 7
92	40	3.4	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
93	39	0.8	ION CHROMATOGRAPHY	1, 2, 3, 4
98	38	-1.8	TITRATION, SILVER NITRATE	2, 3, 6, 7
99	36	-6.9	TITRATION, SILVER NITRATE	1, 2, 4
100	39	0.8	TITRATION, MERCURIC NITRATE	1, 2, 4
101	34	-12.1	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
102	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
103	39	0.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
104	40	3.4	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
105	39	0.8	ION SELECTIVE ELECTRODE	1, 2, 3, 4
107	39	0.8	ION CHROMATOGRAPHY	1, 2, 3, 4
109	39	0.8	TITRATION, SILVER NITRATE	2, 3, 6, 7
110	40	3.4	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 4
111	38	-1.8	TITRATION, MERCURIC NITRATE	1, 2, 3, 4
112	38	-1.8	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4
115	38	-1.8	TITRATION, SILVER NITRATE	1, 2, 3, 4
116	37	-4.3	TITRATION, SILVER NITRATE	1, 2, 4
117	36	-6.9	TITRATION, MERCURIC NITRATE	1, 2, 4
119	39	0.8	ION SELECTIVE ELECTRODE	1, 2, 3, 4
122	39	0.8	TITRATION, SILVER NITRATE	1, 2, 3, 4
123	40	3.4	COLORIMETRIC, FERRIC THIOCYANATE	1, 2, 3, 4

80 Labs had a total range of 21 to 77 and a mean of 38.7 with a standard deviation of 1.8 and a 95% confidence interval of the mean +/- 0.4.

Table 8 Standard Reference Water Sample M96 Report for DSRD 180

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	430	6.0	RESIDUE ON EVAPORATION	2,4
2	422	4.0	RESIDUE ON EVAPORATION	2,4
3	407	0.3	NOT REPORTED	
4	399	-1.7	RESIDUE, FILTRABLE	1,3
6	396	-2.4	RESIDUE, FILTRABLE	1,3
8	413	1.8	RESIDUE, FILTRABLE	1,3
11	394	-2.9	RESIDUE, FILTRABLE	1,3
13	403	-0.7	RESIDUE ON EVAPORATION	2,4
14	386	-4.9	RESIDUE, FILTRABLE	1,3
16	400	-1.4	RESIDUE, FILTRABLE	1,3
17	376	-7.3	RESIDUE ON EVAPORATION	2,4
18	500	23.2	RESIDUE, FILTRABLE	1,3
19	436	7.5	RESIDUE ON EVAPORATION	2,4
20	405	-0.0	RESIDUE ON EVAPORATION	2,4
23	386	-4.9	RESIDUE, FILTRABLE	1,3
25	362	-10.8	RESIDUE ON EVAPORATION	2,4
26	405	-0.0	RESIDUE, FILTRABLE	1,3
27	404	-0.4	RESIDUE, FILTRABLE	1,3
28	408	0.6	RESIDUE, FILTRABLE	1,3
32	398	-1.9	RESIDUE ON EVAPORATION	2,4
33	415	2.3	RESIDUE ON EVAPORATION	2,4
34	446	9.9	RESIDUE ON EVAPORATION	2,4
35	391	-3.6	RESIDUE, FILTRABLE	1,3
36	386	-4.9	RESIDUE, FILTRABLE	1,3
37	420	3.5	RESIDUE ON EVAPORATION	2,4
39	400	-1.4	NOT REPORTED	
40	406	0.1	RESIDUE ON EVAPORATION	2,4
44	370	-8.8	RESIDUE, FILTRABLE	1,3
45	398	-1.9	RESIDUE ON EVAPORATION	2,4
50	404	-0.4	RESIDUE ON EVAPORATION	2,4
51	400	-1.4	RESIDUE ON EVAPORATION	2,4
52	390	-3.9	RESIDUE, FILTRABLE	1,3
53	415	2.3	RESIDUE ON EVAPORATION	2,4
54	399	-1.7	RESIDUE, FILTRABLE	1,3
55	408	0.6	RESIDUE, FILTRABLE	1,3
56	413	1.8	RESIDUE ON EVAPORATION	2,4
57	404	-0.4	RESIDUE, FILTRABLE	1,3
59	440	8.4	RESIDUE ON EVAPORATION	2,4
62	395	-2.7	RESIDUE, FILTRABLE	1,3
63	390	-3.9	RESIDUE, FILTRABLE	1,3
64	428	5.5	RESIDUE, FILTRABLE	1,3
69	406	0.1	RESIDUE, FILTRABLE	1,3
74	414	2.0	RESIDUE, FILTRABLE	1,3
76	397	-2.2	RESIDUE, FILTRABLE	1,3
79	399	-1.7	RESIDUE ON EVAPORATION	2,4
80	380	-6.3	RESIDUE, FILTRABLE	1,3
81	397	-2.2	RESIDUE, FILTRABLE	1,3
83	432	6.5	RESIDUE, FILTRABLE	1,3
84	390	-3.9	RESIDUE, FILTRABLE	1,3
85	403	-0.7	RESIDUE, FILTRABLE	1,3
88	403	-0.7	RESIDUE ON EVAPORATION	2,4
89	420	3.5	RESIDUE, FILTRABLE	1,3
95	428	5.5	RESIDUE ON EVAPORATION	2,4
97	401	-1.2	RESIDUE ON EVAPORATION	2,4
99	411	1.3	RESIDUE, FILTRABLE	1,3
100	419	3.3	RESIDUE, FILTRABLE	1,3
103	425	4.7	RESIDUE ON EVAPORATION	2,4
104	380	-6.3	RESIDUE ON EVAPORATION	2,4
107	410	1.0	RESIDUE, FILTRABLE	1,3
108	403	-0.7	RESIDUE ON EVAPORATION	2,4
109	411	1.3	RESIDUE ON EVAPORATION	2,4
110	403	-0.7	RESIDUE ON EVAPORATION	2,4
111	431	6.2	RESIDUE ON EVAPORATION	2,4
112	404	-0.4	RESIDUE ON EVAPORATION	2,4
117	396	-2.4	RESIDUE, FILTRABLE	1,3
119	460	13.4	RESIDUE ON EVAPORATION	2,4
122	409	0.8	RESIDUE, FILTRABLE	1,3

REJECT

s had a total range of 362 to 500 and a mean of 405.8 with a standard deviation of 17.4 and a 95% confidence interval of the mean +/- 4.3.

Table 8 Standard Reference Water Sample M96 Report for F

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
2	1.3	-10.6	ION SELECTIVE ELECTRODE	1, 2, 3, 4
3	1.5	3.2	COLORIMETRIC, CEROUS ALIZARIN "COMPLEXONE"	1, 2, 3, 4
4	1.8	23.8	ION SELECTIVE ELECTRODE	1, 2, 3, 4
6	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
8	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
12	1.2	-17.5	ION CHROMATOGRAPHY	1, 2, 3, 4
13	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
14	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
16	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
18	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
20	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
22	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
25	1.4	-3.7	ION CHROMATOGRAPHY	2, 3, 6
26	1.2	-17.5	OTHER	1, 2, 3, 4
27	1.6	10.0	ION SELECTIVE ELECTRODE	1, 2, 3, 4
28	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
32	1.5	3.2	COLORIMETRIC, LANTHANUM ALIZARIN "COMPLEXONE"	1, 2, 3, 4
33	1.5	3.2	COLORIMETRIC, ZIRCONIUM ERIOCHROME	1, 2, 3, 4
34	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
35	1.3	-10.6	ION SELECTIVE ELECTRODE	1, 2, 3, 4
36	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
37	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
39	1.2	-17.5	NOT REPORTED	1, 2, 3, 4
40	1.6	10.0	COLORIMETRIC, SPADNS	1, 2, 3, 4
41	1.5	3.2	ION CHROMATOGRAPHY	2, 3, 6
42	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
44	1.6	10.0	ION SELECTIVE ELECTRODE	1, 2, 3, 4
48	1.3	-10.6	ION CHROMATOGRAPHY	2, 3, 6
50	1.3	-10.6	ION SELECTIVE ELECTRODE	1, 2, 3, 4
51	1.6	10.0	COLORIMETRIC, ZIRCONIUM ERIOCHROME	1, 2, 3, 4
52	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
53	1.7	16.9	COLORIMETRIC, ZIRCONIUM ERIOCHROME	1, 2, 3, 4
54	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
55	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
56	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
59	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
62	1.4	-3.7	ION CHROMATOGRAPHY	2, 3, 6
63	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
64	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
66	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
69	1.0	-31.2	REJECT	1, 2, 3, 4
73	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
74	1.6	10.0	ION SELECTIVE ELECTRODE	1, 2, 3, 4
76	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
79	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
80	1.5	3.2	COLORIMETRIC, SPADNS	1, 2, 3, 4
84	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
85	1.5	3.2	COLORIMETRIC, LANTHANUM ALIZARIN "COMPLEXONE"	1, 2, 3, 4
88	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
89	1.4	-3.7	ION CHROMATOGRAPHY	2, 3, 6
92	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
93	1.8	10.0	COLORIMETRIC, SPADNS	1, 2, 3, 4
97	1.5	3.2	ION CHROMATOGRAPHY	2, 3, 6
100	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
102	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
107	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
109	1.2	-17.5	ION CHROMATOGRAPHY	2, 3, 6
110	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
112	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
115	1.4	-3.7	COLORIMETRIC, SPADNS	1, 2, 3, 4
116	1.5	3.2	ION SELECTIVE ELECTRODE	1, 2, 3, 4
119	1.4	-3.7	ION SELECTIVE ELECTRODE	1, 2, 3, 4
122	1.7	16.9	ION SELECTIVE ELECTRODE	1, 2, 3, 4
			COLORIMETRIC, SPADNS	1, 2, 3, 4

64 Labs had a total range of 1.0 to 1.8 and a mean of 1.45 with a standard deviation of 0.12 and a 95% confidence interval of the mean +/- 0.03.

Table 8 Standard Reference Water Sample M96 Report for K

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	3.1	-11.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	3.0	-14.6	EMISSION, IC PLASMA	1,2,3,4
5	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
6	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
7	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
8	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
9	3.2	-8.9	EMISSION, IC PLASMA	1,2,3,4
10	3.2	-8.9	X-RAY FLUORESCENCE	7
11	3.2	-8.9	EMISSION, FLAME PHOTOMETRIC	1,2
12	4.0	13.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
13	4.0	13.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
14	5.0	42.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
15	3.1	-11.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
16	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
17	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
18	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
19	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
23	4.0	13.9	EMISSION, FLAME PHOTOMETRIC	1,2
24	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	3.7	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
26	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
27	4.5	28.1	EMISSION, FLAME PHOTOMETRIC	1,2
28	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
29	4.9	39.5	EMISSION, FLAME PHOTOMETRIC	1,2
30	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
31	4.2	19.5	NOT REPORTED	1,2,3,4
32	3.7	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
33	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
34	4.5	28.1	EMISSION, FLAME PHOTOMETRIC	1,2
35	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
36	4.9	39.5	EMISSION, FLAME PHOTOMETRIC	1,2
37	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
38	4.2	19.5	NOT REPORTED	1,2,3,4
39	3.7	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
40	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
41	3.7	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
42	3.3	-6.1	EMISSION, IC PLASMA	3,7
43	3.5	-0.4	OTHER	
44	3.1	-11.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
45	3.8	8.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
46	4.6	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
47	3.8	8.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
48	2.8	-20.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
49	3.3	-6.1	EMISSION, IC PLASMA	3,7
50	2.6	-26.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
51	34.2	873.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
52	3.4	-3.2	ION SELECTIVE ELECTRODE	1,2,3,4
53	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	3.0	-14.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
56	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
57	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
58	3.7	5.3	EMISSION, IC PLASMA	3,7
59	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
60	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
61	4.1	16.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
62	3.8	8.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
65	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
66	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
67	3.6	2.5	EMISSION, IC PLASMA	3,7
68	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	3.2	-8.9	EMISSION, IC PLASMA	3,7
70	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
71	3.7	5.3	OTHER	
72	3.2	-8.9	EMISSION, IC PLASMA	3,7
73	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
74	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
75	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
76	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
77	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
78	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
81	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
83	3.6	2.5	EMISSION, IC PLASMA	3,7
84	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	3.2	-8.9	EMISSION, IC PLASMA	3,7
86	3.4	-3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
87	3.7	5.3	OTHER	
88	3.2	-8.9	EMISSION, IC PLASMA	3,7
89	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
90	3.5	-0.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
91	3.2	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
92	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
94	3.6	2.5	EMISSION, FLAME PHOTOMETRIC	1,2
95	3.6	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
96	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
97	2.6	-26.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
98	4.3	22.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
99	4.3	22.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	2.3	-34.5	EMISSION, IC PLASMA	3,7
101	3.5	-0.4	EMISSION, IC PLASMA	3,7
102	3.9	11.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	4.8	36.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	3.3	-6.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	3.8	8.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
107	3.5	-0.4	EMISSION, FLAME PHOTOMETRIC	1,2
108	12.6	258.6	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
109	5.3	50.9	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

78 Labs had a total range of 2.3 to 34.2 and a mean of 3.51 with a standard deviation of 0.48 and a 95% confidence interval of the mean +/- 0.11.



Table 8 Standard Reference Water Sample M96 Report for MG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
2	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
3	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	22	0.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
5	24	9.9	EMISSION, IC PLASMA	3, 5
7	21	-3.8	EMISSION, IC PLASMA	3, 5
8	24	9.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
9	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
10	16	-26.7	EMISSION, IC PLASMA	3, 5
11	9	-58.8	X-RAY FLUORESCENCE	7
12	24	9.9	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
13	21	-3.8	EMISSION, IC PLASMA	3, 5
14	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
16	20	-8.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
17	19	-13.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
18	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
19	23	5.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
20	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
21	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
25	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
26	47	115.3	EMISSION, DC PLASMA	7
27	20	-8.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
28	22	0.8	TITRATION, EDTA	2
32	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
33	21	-3.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
34	15	-31.3	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
35	22	0.8	TITRATION, EDTA	2
36	22	0.8	EMISSION, IC PLASMA	3, 5
37	20	-8.4	EMISSION, IC PLASMA	3, 5
39	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
41	21	-3.8	NOT REPORTED	
42	22	0.8	EMISSION, IC PLASMA	3, 5
43	26	19.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
44	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
45	22	0.8	EMISSION, IC PLASMA	3, 5
48	22	0.8	EMISSION, IC PLASMA	3, 5
50	21	-3.8	OTHER	
51	28	28.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
52	20	-8.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
53	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
54	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
55	21	-3.8	EMISSION, IC PLASMA	3, 5
56	21	-3.8	OTHER	
57	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
59	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
61	21	-3.8	EMISSION, DC PLASMA	7
62	22	0.8	TITRATION, EDTA	2
66	20	-8.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
68	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	25	14.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
72	22	0.8	EMISSION, IC PLASMA	3, 5
74	19	-13.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
75	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
76	23	5.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
79	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
80	22	0.8	TITRATION, EDTA	2
81	18	-17.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
83	22	0.8	TITRATION, EDTA	2
84	24	9.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
85	11	-49.6	EMISSION, IC PLASMA	3, 5
87	28	28.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
88	22	0.8	REJECT EMISSION, IC PLASMA	3, 5
89	19	-13.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
91	20	-8.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
93	22	0.8	EMISSION, DC PLASMA	7
95	21	-3.8	EMISSION, IC PLASMA	3, 5
97	20	-8.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
98	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
99	20	-8.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
102	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
104	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
106	23	5.3	EMISSION, IC PLASMA	3, 5
107	25	14.5	EMISSION, IC PLASMA	3, 5
109	22	0.8	EMISSION, IC PLASMA	3, 5
110	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
112	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
115	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	21	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
119	23	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
122	22	0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

85 Labs had a total range of 9 to 47 and a mean of 21.8 with a standard deviation of 1.4 and a 95% confidence interval of the mean +/- 0.3.

Table 8 Standard Reference Water Sample M96 Report for NA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	64	9.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
5	37	-2.9	EMISSION, IC PLASMA	3,5
6	61	4.0	EMISSION, IC PLASMA	3,5
7	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
8	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
9	59	0.6	EMISSION, IC PLASMA	3,5
10	11	-81.3	X-RAY FLUORESCENCE	7
11	59	0.6	REJECT	
12	59	0.6	EMISSION, FLAME	1,2
13	53	-9.7	EMISSION, IC PLASMA	3,5
14	61	4.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
15	60	2.3	EMISSION, FLAME	1,2,3,4
16	56	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
17	56	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
18	56	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
19	57	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	57	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	63	7.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	68	15.9	EMISSION, DC PLASMA	7
23	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
24	60	2.3	EMISSION, FLAME	1,2,3,4
25	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
26	56	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
27	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	61	4.0	EMISSION, FLAME	1,2,3,4
29	52	-11.4	EMISSION, IC PLASMA	3,5
30	60	2.3	EMISSION, IC PLASMA	3,5
31	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
32	62	5.7	NOT REPORTED	
33	58	-1.2	EMISSION, IC PLASMA	3,5
34	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	53	-9.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
36	58	-1.2	EMISSION, IC PLASMA	3,5
37	59	0.6	EMISSION, IC PLASMA	3,5
38	59	0.6	OTHER	
39	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
40	44	-25.0	REJECT	
41	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
42	55	-6.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
43	54	-8.0	EMISSION, IC PLASMA	3,5
44	59	0.6	EMISSION, IC PLASMA	3,5
45	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
46	57	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
47	57	-2.9	EMISSION, DC PLASMA	7
48	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
49	57	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
50	52	-11.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
51	60	2.3	EMISSION, IC PLASMA	3,5
52	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
53	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	57	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
56	55	-6.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
57	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
58	47	-19.9	REJECT	
59	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
60	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
61	62	5.7	EMISSION, IC PLASMA	3,5
62	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	60	2.3	EMISSION, IC PLASMA	3,5
64	54	-8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
65	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
66	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
67	55	-6.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
68	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	56	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
71	59	0.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
72	64	9.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
73	56	-4.6	EMISSION, IC PLASMA	3,5
74	66	12.5	EMISSION, IC PLASMA	3,5
75	64	9.1	EMISSION, IC PLASMA	3,5
76	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
77	60	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
78	79	34.6	REJECT	
79	63	7.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	53	-9.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
81	62	5.7	EMISSION, FLAME	1,2,3,4
82	61	4.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
83	58	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

81 Labs had a total range of 11 to 79 and a mean of 58.7 with a standard deviation of 3.0 and a 95% confidence interval of the mean +/- 0.7.

Table 8 Standard Reference Water Sample M96 Report for NO3-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
2	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
3	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
4	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
6	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
7	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
8	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
9	1.9	-1.3	COLORIMETRIC, BRUCINE	1,2,3,4
12	2.4	24.7	ION CHROMATOGRAPHY	2,3,6,7
15	1.1	-42.9	REJECT	
16	1.8	-6.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
17	2.0	3.9	COLORIMETRIC, BRUCINE	1,2,3,4
18	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
19	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
20	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
21	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
23	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
25	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
26	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
27	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
29	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
32	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
33	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
34	2.0	3.9	COLORIMETRIC, BRUCINE	1,2,3,4
35	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
36	1.8	-6.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
37	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
38	2.3	19.5	ION CHROMATOGRAPHY	2,3,6,7
39	2.0	3.9	NOT REPORTED	
40	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
41	2.0	3.9	ION CHROMATOGRAPHY	2,3,6,7
42	1.8	-6.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
44	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
45	1.9	-1.3	OTHER	1,2,3,4
48	2.0	3.9	ION CHROMATOGRAPHY	2,3,6,7
50	1.8	-6.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
51	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
52	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
54	1.5	-22.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
55	2.2	14.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
56	1.9	-1.3	COLORIMETRIC, BRUCINE	1,2,3,4
57	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
59	2.9	50.6	REJECT	
61	1.9	-1.3	ION SELECTIVE ELECTRODE	1,2,3,4
62	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
63	2.0	3.9	ION CHROMATOGRAPHY	2,3,6,7
64	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
69	2.1	9.1	COLORIMETRIC, BRUCINE	1,2,3,4
74	1.6	-16.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
76	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
79	1.5	-22.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
80	1.9	-1.3	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
81	2.2	14.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
83	1.9	-1.3	COLORIMETRIC, BRUCINE	1,2,3,4
84	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
85	1.9	-1.3	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
87	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
88	1.4	-27.3	NOT REPORTED	
89	2.0	3.9	COLORIMETRIC, BRUCINE	1,2,3,4
92	1.6	-16.9	COLORIMETRIC, BRUCINE	1,2,3,4
93	2.1	9.1	OTHER	1,2,3,4
95	2.2	14.3	ION CHROMATOGRAPHY	2,3,6,7
96	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
97	2.0	3.9	OTHER	1,2,3,4
98	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
99	1.9	-1.3	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
100	1.9	-1.3	OTHER	1,2,3,4
101	1.4	-27.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
102	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
103	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
104	218.0	1E+04	REJECT	
107	2.1	9.1	OTHER	1,2,3,4
108	1.9	-1.3	ION CHROMATOGRAPHY	2,3,6,7
109	2.0	3.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
110	2.0	3.9	OTHER	1,2,3,4
111	2.3	19.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
112	1.6	-16.9	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
115	1.9	-1.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
116	1.8	-6.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
117	1.7	-11.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
119	2.1	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
122	2.1	9.1	ION CHROMATOGRAPHY	2,3,6,7
123	1.9	-1.3	COLORIMETRIC, BRUCINE	1,2,3,4
			COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4

83 Labs had a total range of 1.1 to 218.0 and a mean of 1.93 with a standard deviation of 0.19 and a 95% confidence interval of the mean +/- 0.04.

Table 8 Standard Reference Water Sample M96 Report for P, TOTAL

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
2	0.33	-11.9	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
3	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
4	0.32	-14.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
5	< 0.02		OTHER	
6	0.36		IGNORED	
7	0.41	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
8	0.37	9.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
9	0.41	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
10	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
11	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
12	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
13	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
14	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
15	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
16	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
17	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
18	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
19	0.37	-6.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
20	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
21	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
22	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
23	0.35	-6.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
24	0.39	4.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
25	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
26	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
27	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
28	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
29	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
30	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
31	0.41	9.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
32	0.44	17.5	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
33	0.39	4.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
34	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
35	0.37	-1.2	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
36	0.11	-70.6	REJECT	
37	0.35	-6.5	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
38	0.35	-6.5	NOT REPORTED	
39	0.27	-27.9	REJECT	
40	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
41	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
42	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
43	1.00	167.1	REJECT	
44	0.34	-9.2	ION CHROMATOGRAPHY	2,3,6
45	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
46	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
47	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
48	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
49	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
50	0.36	-3.8	EMISSION, DC PLASMA	7
51	0.40	6.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
52	0.34	-9.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
53	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
54	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
55	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
56	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
57	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
58	0.36	-3.8	EMISSION, IC PLASMA	3,5
59	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
60	0.41	9.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
61	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
62	0.41	9.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
63	0.37	-1.2	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
64	0.45	20.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
65	0.41	9.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
66	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
67	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
68	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
69	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
70	0.37	-1.2	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
71	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
72	0.35	-6.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
73	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
74	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
75	0.29	-22.5	OTHER	
76	0.38	1.5	OTHER	
77	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
78	0.48	28.2	REJECT	
79	0.08	-78.6	REJECT	
80	0.42	12.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
81	0.59	57.6	REJECT	
82	0.39	4.2	EMISSION, IC PLASMA	3,5
83	0.34	-9.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
84	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
85	0.35	-6.5	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
86	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
87	0.38	1.5	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
88	0.36	-3.8	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
89	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
90	0.39	4.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
91	0.55	46.9	REJECT	
92	0.37	-1.2	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	4
93	0.37	-1.2	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
94			NOT REPORTED	

70 Labs had a total range of 0.02 to 1.00 and a mean of 0.374 with a standard deviation of 0.027 and a 95% confidence interval of the mean +/- 0.007.

Table 8 Standard Reference Water Sample M96 Report for PH

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	8.85	1.4	ELECTROMETRIC	1,2,3,4
2	8.80	0.8	ELECTROMETRIC	1,2,3,4
3	8.67	-0.6	ELECTROMETRIC	1,2,3,4
4	8.20	-6.0	ELECTROMETRIC	1,2,3,4
6	8.80	0.8	ELECTROMETRIC	1,2,3,4
7	8.66	-0.8	ELECTROMETRIC	1,2,3,4
8	8.90	2.0	ELECTROMETRIC	1,2,3,4
9	8.70	-0.3	ELECTROMETRIC	1,2,3,4
11	8.50	-2.6	ELECTROMETRIC	1,2,3,4
12	8.40	-3.7	ELECTROMETRIC	1,2,3,4
13	9.00	3.1	ELECTROMETRIC	1,2,3,4
15	8.78	0.6	ELECTROMETRIC	1,2,3,4
16	8.80	0.8	ELECTROMETRIC	1,2,3,4
17	8.04	-7.9	REJECT	1,2,3,4
18	8.90	2.0	ELECTROMETRIC	1,2,3,4
19	8.60	-1.4	ELECTROMETRIC	1,2,3,4
20	8.50	-2.6	ELECTROMETRIC	1,2,3,4
21	8.70	-0.3	ELECTROMETRIC	1,2,3,4
22	8.90	2.0	ELECTROMETRIC	1,2,3,4
25	8.60	-1.4	ELECTROMETRIC	1,2,3,4
26	8.70	-0.3	ELECTROMETRIC	1,2,3,4
27	8.46	-3.1	ELECTROMETRIC	1,2,3,4
28	8.91	2.1	ELECTROMETRIC	1,2,3,4
29	8.50	-2.6	ELECTROMETRIC	1,2,3,4
32	8.10	-7.2	REJECT	1,2,3,4
33	8.80	0.8	ELECTROMETRIC	1,2,3,4
34	8.68	-0.5	ELECTROMETRIC	1,2,3,4
35	8.90	2.0	ELECTROMETRIC	1,2,3,4
36	8.70	-0.3	ELECTROMETRIC	1,2,3,4
37	8.77	0.5	ELECTROMETRIC	1,2,3,4
38	8.88	1.8	ELECTROMETRIC	1,2,3,4
39	8.70	-0.3	NOT REPORTED	1,2,3,4
40	8.69	-0.4	ELECTROMETRIC	1,2,3,4
41	8.76	0.4	ELECTROMETRIC	1,2,3,4
42	8.80	0.8	ELECTROMETRIC	1,2,3,4
44	9.10	4.3	ELECTROMETRIC	1,2,3,4
48	8.90	2.0	ELECTROMETRIC	1,2,3,4
51	7.26	-16.8	REJECT	1,2,3,4
52	8.80	0.8	ELECTROMETRIC	1,2,3,4
53	8.86	1.5	ELECTROMETRIC	1,2,3,4
54	8.71	-0.2	ELECTROMETRIC	1,2,3,4
55	8.91	2.1	ELECTROMETRIC	1,2,3,4
56	8.50	-2.6	REJECT	1,2,3,4
57	8.85	1.4	ELECTROMETRIC	1,2,3,4
59	8.63	-1.1	ELECTROMETRIC	1,2,3,4
61	8.63	-1.1	ELECTROMETRIC	1,2,3,4
62	8.94	2.4	ELECTROMETRIC	1,2,3,4
63	8.20	-6.0	ELECTROMETRIC	1,2,3,4
64	8.30	-4.9	ELECTROMETRIC	1,2,3,4
66	8.85	1.4	ELECTROMETRIC	1,2,3,4
69	8.81	1.0	ELECTROMETRIC	1,2,3,4
71	8.83	1.2	ELECTROMETRIC	1,2,3,4
73	8.90	2.0	ELECTROMETRIC	1,2,3,4
74	8.70	-0.3	ELECTROMETRIC	1,2,3,4
75	8.82	1.1	ELECTROMETRIC	1,2,3,4
76	8.88	1.8	ELECTROMETRIC	1,2,3,4
79	8.65	-0.9	ELECTROMETRIC	1,2,3,4
81	8.45	-3.2	ELECTROMETRIC	1,2,3,4
83	8.75	0.3	ELECTROMETRIC	1,2,3,4
84	8.90	2.0	ELECTROMETRIC	1,2,3,4
85	8.80	0.8	ELECTROMETRIC	1,2,3,4
87	8.80	0.8	ELECTROMETRIC	1,2,3,4
88	8.80	0.8	ELECTROMETRIC	1,2,3,4
89	8.79	0.7	ELECTROMETRIC	1,2,3,4
92	8.70	-0.3	ELECTROMETRIC	1,2,3,4
93	8.80	0.8	ELECTROMETRIC	1,2,3,4
95	8.45	-3.2	ELECTROMETRIC	1,2,3,4
96	8.80	0.8	ELECTROMETRIC	1,2,3,4
97	8.43	-3.4	ELECTROMETRIC	1,2,3,4
98	8.78	0.6	ELECTROMETRIC	1,2,3,4
100	8.62	-1.2	ELECTROMETRIC	1,2,3,4
101	8.52	-2.4	ELECTROMETRIC	1,2,3,4
102	8.50	-2.6	ELECTROMETRIC	1,2,3,4
103	8.80	0.8	ELECTROMETRIC	1,2,3,4
104	7.82	-10.4	REJECT	1,2,3,4
105	8.90	2.0	ELECTROMETRIC	1,2,3,4
107	8.85	1.4	ELECTROMETRIC	1,2,3,4
108	8.90	2.0	ELECTROMETRIC	1,2,3,4
109	8.80	0.8	ELECTROMETRIC	1,2,3,4
110	8.79	0.7	ELECTROMETRIC	1,2,3,4
111	8.80	0.8	ELECTROMETRIC	1,2,3,4
112	8.60	-1.4	ELECTROMETRIC	1,2,3,4
115	8.86	1.5	ELECTROMETRIC	1,2,3,4
116	8.50	-2.6	ELECTROMETRIC	1,2,3,4
117	8.88	1.8	ELECTROMETRIC	1,2,3,4
119	8.85	1.4	ELECTROMETRIC	1,2,3,4
122	8.20	-6.0	ELECTROMETRIC	1,2,3,4

88 Labs had a total range of 7.26 to 9.50 and a mean of 8.727 with a standard deviation of 0.184 and a 95% confidence interval of the mean +/- 0.040.

Table 8 Standard Reference Water Sample M96 Report for SiO2

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
2	14	2.3	EMISSION, IC PLASMA	5
3	13	-5.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
6	13	-5.0	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
7	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
8	12	-12.3	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
9	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
10	17	24.3	X-RAY FLUORESCENCE	7
11	14	2.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
13	13	-5.0	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
16	12	-12.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
18	14	2.3	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
19	13	-5.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
28	14	2.3	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
29	12	-12.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
32	13	-5.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
33	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
34	15	9.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
35	14	2.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
36	12	-12.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
40	14	2.3	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
41	13	-5.0	EMISSION, IC PLASMA	5
44	13	-5.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
45	14	2.3	EMISSION, IC PLASMA	5
48	12	-12.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
51	12	-12.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
54	13	-5.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
55	14	2.3	EMISSION, IC PLASMA	5
56	14	2.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
61	15	9.7	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
62	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
64	6	-56.1	REJECT EMISSION, IC PLASMA	5
70	20	46.2	REJECT EMISSION, IC PLASMA	5
74	11	-19.6	REJECT COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
75	7	-48.8	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
76	14	2.3	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
80	11	-19.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
83	17	24.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
84	15	9.7	EMISSION, IC PLASMA	5
85	14	2.3	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
87	15	9.7	EMISSION, IC PLASMA	5
88	15	9.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
89	14	2.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
91	15	9.7	OTHER	1,2,3
93	12	-12.3	EMISSION, IC PLASMA	5
100	15	9.7	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
102	12	-12.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
103	15	9.7	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
107	12	-12.3	EMISSION, IC PLASMA	5
108	15	9.7	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
109	15	9.7	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
112	21	53.5	REJECT COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
115	15	9.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
119	17	24.3	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3
120	13	-5.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
122	11	-19.6	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
123	13	-5.0	COLORIMETRIC, MOLYBDSILICIC ACID	1,2,3

57 Labs had a total range of 6 to 21 and a mean of 13.7 with a standard deviation of 1.4 and a 95% confidence interval of the mean +/- 0.4.

Table 8 Standard Reference Water Sample M96 Report for SO4

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	145	4.7	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
2	145	4.7	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
3	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
4	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
6	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
7	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
8	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
10	70	-49.4	REJECT X-RAY FLUORESCENCE	7
12	145	4.7	ION CHROMATOGRAPHY	2, 6, 7
13	145	4.7	THORIN TITRATION	2, 4
14	155	11.9	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
16	130	-6.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
17	140	1.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
18	145	4.7	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
21	125	-9.7	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
25	145	4.7	COLORIMETRIC, METHYL THYMOL BLUE	1, 2, 3
26	150	8.3	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
27	150	8.3	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
28	150	8.3	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
32	138	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 2, 3
33	140	1.1	THORIN TITRATION	1, 3, 4
34	140	1.1	ION CHROMATOGRAPHY	2, 4
35	145	4.7	COLORIMETRIC, METHYL THYMOL BLUE	2, 6, 7
36	120	-13.3	TURBIDIMETRIC, BARIUM SULFATE	1, 3, 4
37	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 2, 3
38	145	4.7	ION CHROMATOGRAPHY	1, 3, 4
39	140	1.1	NOT REPORTED	2, 6, 7
40	135	-2.5	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
41	140	1.1	ION CHROMATOGRAPHY	2, 6, 7
42	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
43	130	-6.1	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
44	130	-6.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
45	140	1.1	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
48	135	-2.5	ION CHROMATOGRAPHY	1, 2, 3
50	135	-2.5	TURBIDIMETRIC, BARIUM SULFATE	2, 6, 7
51	145	4.7	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
52	110	-20.6	REJECT TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
53	135	-2.5	THORIN TITRATION	1, 2, 3
54	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	2, 4
55	145	4.7	TURBIDIMETRIC, BARIUM SULFATE	1, 3, 4
56	135	-2.5	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
59	140	1.1	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
62	145	4.7	ION CHROMATOGRAPHY	1, 2, 3
63	145	4.7	TURBIDIMETRIC, BARIUM SULFATE	2, 6, 7
64	130	-6.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
66	145	4.7	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
69	120	-13.3	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
74	125	-9.7	COLORIMETRIC, METHYL THYMOL BLUE	1, 2, 3
76	140	1.1	ION CHROMATOGRAPHY	1, 3, 4
79	145	4.7	GRAVIMETRIC, BARIUM SULFATE	2, 6, 7
80	135	-2.5	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
81	130	-6.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
83	130	-6.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
84	115	-17.0	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
85	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 2, 3
87	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
88	175	26.4	REJECT ION CHROMATOGRAPHY	2, 6, 7
89	135	-2.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
92	130	-6.1	OTHER	1, 3, 4
93	140	1.1	ION CHROMATOGRAPHY	2, 6, 7
95	135	-2.5	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
99	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
100	140	1.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
102	130	-6.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
103	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
104	80	-42.2	REJECT TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
105	135	-2.5	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
107	140	1.1	ION CHROMATOGRAPHY	2, 6, 7
109	140	1.1	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
110	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
111	140	1.1	TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
112	160	15.5	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
115	125	-9.7	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3
116	200	44.4	REJECT TURBIDIMETRIC, BARIUM SULFATE	1, 2, 3
117	140	1.1	COLORIMETRIC, METHYL THYMOL BLUE	1, 3, 4
119	155	11.9	ION CHROMATOGRAPHY	2, 6, 7
122	145	4.7	GRAVIMETRIC, BARIUM SULFATE	1, 2, 3

77 Labs had a total range of 70 to 200 and a mean of 138.5 with a standard deviation of 8.1 and a 95% confidence interval of the mean +/- 1.9.

Table 8 Standard Reference Water Sample M96 Report for SP. COND.

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	640	2.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
2	640	2.1	DIRECT READING INSTRUMENT	4
3	640	2.1	DIRECT READING INSTRUMENT	4
4	6600	952.7	REJECT WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
5	680	8.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
6	650	3.7	DIRECT READING INSTRUMENT	4
7	510	3.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
8	570	-18.7	DIRECT READING INSTRUMENT	4
9	570	-9.1	DIRECT READING INSTRUMENT	4
10	650	3.7	DIRECT READING INSTRUMENT	4
11	640	2.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
12	640	2.1	DIRECT READING INSTRUMENT	4
13	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
14	620	-1.1	DIRECT READING INSTRUMENT	4
15	600	-4.3	ELECTRODELESS INDUCTIVE CELL-TYPE	2
16	620	-1.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
17	650	3.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
18	480	-23.4	DIRECT READING INSTRUMENT	4
19	590	-5.9	DIRECT READING INSTRUMENT	4
20	480	-23.4	DIRECT READING INSTRUMENT	4
21	700	11.6	DIRECT READING INSTRUMENT	4
22	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
23	660	5.3	DIRECT READING INSTRUMENT	4
24	670	6.9	DIRECT READING INSTRUMENT	4
25	640	2.1	DIRECT READING INSTRUMENT	4
26	660	5.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
27	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
28	640	2.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
29	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
30	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
31	700	11.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
32	580	-7.5	DIRECT READING INSTRUMENT	4
33	630	0.5	NOT REPORTED	4
34	710	13.2	DIRECT READING INSTRUMENT	4
35	670	6.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
36	570	-9.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
37	480	-23.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
38	760	21.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
39	630	0.5	DIRECT READING INSTRUMENT	4
40	650	3.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
41	600	-4.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
42	550	-12.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
43	650	3.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
44	660	5.3	DIRECT READING INSTRUMENT	4
45	650	3.7	DIRECT READING INSTRUMENT	4
46	610	-2.7	DIRECT READING INSTRUMENT	4
47	630	0.5	DIRECT READING INSTRUMENT	4
48	630	0.5	DIRECT READING INSTRUMENT	4
49	590	-5.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
50	640	2.1	DIRECT READING INSTRUMENT	4
51	640	2.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
52	650	3.7	DIRECT READING INSTRUMENT	4
53	610	-2.7	DIRECT READING INSTRUMENT	4
54	600	-4.3	DIRECT READING INSTRUMENT	4
55	310	-50.6	REJECT WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
56	630	0.5	OTHER	4
57	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
58	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
59	610	-2.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
60	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
61	700	11.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
62	620	-1.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
63	600	-4.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
64	630	0.5	DIRECT READING INSTRUMENT	4
65	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
66	650	3.7	DIRECT READING INSTRUMENT	4
67	650	3.7	DIRECT READING INSTRUMENT	4
68	650	3.7	DIRECT READING INSTRUMENT	4
69	510	-18.7	DIRECT READING INSTRUMENT	4
70	630	0.5	DIRECT READING INSTRUMENT	4
71	660	5.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
72	650	3.7	ELECTRODELESS INDUCTIVE CELL-TYPE	2
73	520	-17.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
74	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
75	620	-1.1	DIRECT READING INSTRUMENT	4
76	450	-28.2	REJECT DIRECT READING INSTRUMENT	4
77	650	3.7	DIRECT READING INSTRUMENT	4
78	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
79	650	3.7	DIRECT READING INSTRUMENT	4
80	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
81	670	6.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
82	660	5.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
83	650	3.7	DIRECT READING INSTRUMENT	4
84	580	-7.5	DIRECT READING INSTRUMENT	4
85	650	3.7	DIRECT READING INSTRUMENT	4
86	600	-4.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
87	600	-4.3	DIRECT READING INSTRUMENT	4
88	530	-15.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
89	630	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
90	660	5.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4

86 Labs had a total range of 310 to 6600 and a mean of 627 with a standard deviation of 47 and a 95% confidence interval of the mean +/- 10.



Table 8 Standard Reference Water Sample M96 Report for SR

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	540	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
2	580	6.1	EMISSION, IC PLASMA	3,5
3	570	4.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
5	579	6.0	MASS SPECTROMETRY, IC PLASMA	7
9	560	2.5	EMISSION, IC PLASMA	3,5
10	260	-52.4	REJECT X-RAY FLUORESCENCE	7
11	680	24.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
12	570	4.3	EMISSION, IC PLASMA	3,5
31	522	-4.5	EMISSION, IC PLASMA	3,5
32	380	-30.5	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
33	550	0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
35	540	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
36	510	-6.7	EMISSION, IC PLASMA	3,5
41	520	-4.8	EMISSION, IC PLASMA	3,5
54	520	-4.8	EMISSION, IC PLASMA	3,5
64	<1	-100.0	REJECT EMISSION, IC PLASMA	3,5
70	600	-9.8	MASS SPECTROMETRY, IC PLASMA	7
75	800	46.4	REJECT OTHER	
76	860	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
79	609	11.5	MASS SPECTROMETRY, IC PLASMA	7
80	500	-8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
84	600	9.8	EMISSION, IC PLASMA	3,5
85	49	-91.0	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
87	535	-10.1	EMISSION, IC PLASMA	3,5
88	490	-3.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
89	525	-1.2	ATOMIC ABSORPTION, FLAMELESS	7
91	540	-0.6	EMISSION, DC PLASMA	7
93	543	45.3	REJECT EMISSION, IC PLASMA	3,5
97	794	9.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
106	600	-5.9	EMISSION, IC PLASMA	3,5
107	514	-3.0	EMISSION, IC PLASMA	3,5
119	530	-8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
122	500		ATOMIC ABSORPTION, DIRECT, AIR	1,2,4

33 Labs had a total range of < 1 to 800 and a mean of 546.4 with a standard deviation of 34.1 and a 95% confidence interval of the mean +/- 13.8.

Table 8 Standard Reference Water Sample M96 Report for V

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	5.5	-39.5	COLORIMETRIC, CATALYTIC OXIDATION	4
2	6.0	-34.0	COLORIMETRIC, CATALYTIC OXIDATION	3
3	14.0	54.1	ATOMIC ABSORPTION, FLAMELESS	3
5	5.9	-35.1	EMISSION, IC PLASMA	3,5
9	6.9	-24.0	EMISSION, IC PLASMA	3,5
10	22.0	142.2	X-RAY FLUORESCENCE	7
12	10.0	10.1	EMISSION, IC PLASMA	3,5
25	< 10.0		IGNORED EMISSION, DC PLASMA	3,5
31	< 10.0		IGNORED EMISSION, IC PLASMA	3,5
32	<100.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	3,5
35	9.7	6.8	EMISSION, IC PLASMA	3,5
52	<100.0		IGNORED ATOMIC ABSORPTION, FLAMELESS	3,5
54	6.0	-34.0	EMISSION, IC PLASMA	3,5
64	< 0.1	-100.0	IGNORED EMISSION, IC PLASMA	3,5
70	15.0	65.1	EMISSION, IC PLASMA	3,5
76	<200.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	3,5
79	46.0	406.4	REJECT MASS SPECTROMETRY, IC PLASMA	7
80	<100.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3
84	7.3	-19.6	EMISSION, IC PLASMA	3,5
87	6.3	-30.6	EMISSION, IC PLASMA	3,5
88	8.2	-9.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3
89	8.5	-6.4	ATOMIC ABSORPTION, FLAMELESS	1,3
93	< 2.0		IGNORED EMISSION, IC PLASMA	3,5
97	7.8	-14.1	ATOMIC ABSORPTION, FLAMELESS	3,5
106	6.5	-28.4	EMISSION, IC PLASMA	3,5
107	10.0	10.1	EMISSION, IC PLASMA	3,5
115	<200.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3
119	17.0	87.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3

28 Labs had a total range of < 0.1 to < 200.0 and a mean of 8.86 with a standard deviation of 3.45 and a 95% confidence interval of the mean +/- 1.77.

Table 9 . Statistics by method for standard reference sample M96

Determination	Method	Range:		Mean	Standard Deviation	N
		from	to			
ALK(CACO3)	OTHER	113.000	- 119.000	115.250	2.872	4
	TITRATION, COLORIMETRIC	100.000	- 140.000	119.000	8.944	18
	TITRATION, ELECTROMETRIC	56.000	- 199.000	117.930	7.755	57
	_OVER-ALL_	56.000	- 199.000	117.988	7.753	81
B	COLORIMETRIC, AZOMETHINE	20.000	- 190.000	105.000	69.522	4
	COLORIMETRIC, CARMINE (CARMINIC ACID)	100.000	- 1100.000	173.333	70.238	3
	COLORIMETRIC, CURCUMIN	60.000	- 300.000	169.455	70.236	11
	EMISSION, IC PLASMA	0.000	- 500.000	87.364	17.929	11
	_OVER-ALL_	0.000	- 1100.000	131.514	69.937	35
BR	_OVER-ALL_	20.000	- 170.000	51.000	21.610	5
CA	ATOMIC ABSORPTION, DIRECT, AIR	34.000	- 58.000	43.205	2.205	44
	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	39.000	- 47.000	42.143	2.673	7
	EMISSION, DC PLASMA	41.000	- 46.000	43.667	2.517	3
	EMISSION, IC PLASMA	39.000	- 49.000	44.647	2.473	17
	TITRATION, EDTA	43.000	- 54.000	46.333	3.204	6
	_OVER-ALL_	33.000	- 58.000	43.800	2.679	80
CL	COLORIMETRIC, FERRIC THIOCYANATE	34.000	- 77.000	38.778	1.805	27
	ION CHROMATOGRAPHY	21.000	- 42.000	38.750	1.832	8
	ION SELECTIVE ELECTRODE	24.000	- 40.000	39.000	1.225	5
	TITRATION, MERCURIC NITRATE	30.000	- 44.000	38.714	1.267	14
	TITRATION, SILVER NITRATE	34.000	- 40.000	37.947	1.545	19
	_OVER-ALL_	21.000	- 77.000	38.680	1.757	75
	DSRD 180	RESIDUE ON EVAPORATION	362.000	- 460.000	411.233	20.577
RESIDUE, FILTRABLE		370.000	- 500.000	401.059	13.269	34
_OVER-ALL_		362.000	- 500.000	405.758	17.442	66
F	COLORIMETRIC, SPADNS	1.400	- 1.700	1.560	0.114	5
	COLORIMETRIC, ZIRCONIUM ERIOCHROME	1.500	- 1.700	1.600	0.100	3
	ION CHROMATOGRAPHY	1.200	- 1.800	1.400	0.193	8
	ION SELECTIVE ELECTRODE	1.000	- 1.800	1.444	0.074	41
	_OVER-ALL_	1.000	- 1.800	1.454	0.124	63
K	ATOMIC ABSORPTION, DIRECT, AIR	2.600	- 34.200	3.425	0.329	51
	EMISSION, FLAME, PHOTOMETRIC	3.200	- 4.900	3.967	0.638	6
	EMISSION, IC PLASMA	2.300	- 3.700	3.333	0.224	9
	_OVER-ALL_	2.300	- 34.200	3.513	0.477	75
MG	ATOMIC ABSORPTION, DIRECT, AIR	9.000	- 47.000	21.511	1.236	45
	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	21.000	- 23.000	21.833	0.753	6
	EMISSION, DC PLASMA	20.000	- 23.000	21.667	1.528	3
	EMISSION, IC PLASMA	21.000	- 28.000	22.875	1.204	16
	TITRATION, EDTA	15.000	- 23.000	20.500	2.082	4
	_OVER-ALL_	9.000	- 47.000	21.833	1.427	78
NA	ATOMIC ABSORPTION, DIRECT, AIR	44.000	- 64.000	58.060	2.559	50
	EMISSION, FLAME	59.000	- 79.000	60.600	1.140	5
	EMISSION, IC PLASMA	52.000	- 66.000	59.222	3.422	18
	_OVER-ALL_	11.000	- 79.000	58.675	2.967	77
NO3-N	COLORIMETRIC, BRUCINE	1.400	- 2.200	2.063	0.106	8
	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1.100	- 2.200	1.888	0.162	52
	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	1.500	- 2.300	1.925	0.330	4
	ION CHROMATOGRAPHY	2.000	- 2.400	2.125	0.149	8
	OTHER	1.600	- 218.000	1.900	0.000	3
	_OVER-ALL_	1.100	- 218.000	1.925	0.189	80
	P, TOTAL	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	0.080	- 0.550	0.375	0.024
COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE		0.110	- 0.440	0.370	0.011	6
_OVER-ALL_		0.020	- 1.000	0.374	0.027	61
PH	ELECTROMETRIC	7.260	- 9.500	8.727	0.185	82
	_OVER-ALL_	7.260	- 9.500	8.727	0.184	83
SIO2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	7.000	- 15.000	13.500	1.512	8
	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	13.000	- 21.000	13.727	0.647	11
	COLORIMETRIC, MOLYBDSILICIC ACID	11.000	- 17.000	13.154	1.625	13
	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	11.000	- 15.000	13.200	1.789	5
	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	14.000	- 15.000	14.000	0.447	4
	EMISSION, IC PLASMA	6.000	- 20.000	13.625	1.188	8
	_OVER-ALL_	6.000	- 21.000	13.679	1.425	53
SO4	COLORIMETRIC, METHYL THYMOL BLUE	125.000	- 160.000	137.857	4.892	21
	GRAVIMETRIC, BARIUM SULFATE	125.000	- 150.000	139.500	7.619	10
	ION CHROMATOGRAPHY	135.000	- 175.000	141.111	3.333	9
	THORIN TITRATION	135.000	- 145.000	140.000	5.000	3
	TURBIDIMETRIC, BARIUM SULFATE	80.000	- 200.000	136.200	10.132	25
	_OVER-ALL_	70.000	- 200.000	138.472	8.077	72
SP. COND.	DIRECT READING INSTRUMENT	450.000	- 710.000	628.649	41.107	37
	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	310.000	- 6600.000	628.250	49.763	40
	_OVER-ALL_	310.000	- 6600.000	626.988	47.053	83
SR	ATOMIC ABSORPTION, DIRECT, AIR	49.000	- 794.000	531.111	28.480	9
	EMISSION, IC PLASMA	0.000	- 600.000	547.833	33.163	12
	MASS SPECTROMETRY, IC PLASMA	579.000	- 609.000	596.000	15.395	3
	_OVER-ALL_	0.000	- 800.000	546.423	34.099	26
V	ATOMIC ABSORPTION, FLAMELESS	7.800	- 100.000	10.100	3.396	3
	EMISSION, IC PLASMA	0.000	- 15.000	7.600	3.706	11
	_OVER-ALL_	0.000	- 200.000	9.084	4.946	19

Table 10 Standard Reference Water Sample T97 Report for ACID@CACO3

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	840	-0.6	TITRATION, ELECTROMETRIC	1,2,3,4
2	820	-3.0	TITRATION, ELECTROMETRIC	1,2,3,4
18	770	-8.9	TITRATION, COLORIMETRIC	1,2,3,4
32	870	2.9	TITRATION, ELECTROMETRIC	1,2,3,4
35	870	2.9	TITRATION, ELECTROMETRIC	1,2,3,4
36	870	2.9	TITRATION, ELECTROMETRIC	1,2,3,4
37	1100	30.1	REJECT	1,2,3,4
40	850	0.6	TITRATION, ELECTROMETRIC	1,2,3,4
44	900	6.5	TITRATION, ELECTROMETRIC	1,2,3,4
54	890	5.3	TITRATION, COLORIMETRIC	1,2,3,4
59	810	-4.2	TITRATION, ELECTROMETRIC	1,2,3,4
63	840	-0.6	TITRATION, COLORIMETRIC	1,2,3,4
64	840	-0.6	TITRATION, ELECTROMETRIC	1,2,3,4
69	810	-4.2	TITRATION, COLORIMETRIC	1,2,3,4
74	800	-5.4	TITRATION, ELECTROMETRIC	1,2,3,4
80	900	6.5	TITRATION, COLORIMETRIC	1,2,3,4
100	880	4.1	TITRATION, ELECTROMETRIC	1,2,3,4
104	780	-7.7	TITRATION, ELECTROMETRIC	1,2,3,4
115	830	-1.8	TITRATION, COLORIMETRIC	1,2,3,4
116	890	5.3	TITRATION, ELECTROMETRIC	1,2,3,4
20 Labs had a total range of 770 to 1100 and a mean of 845				
with a standard deviation of 40 and a 95% confidence interval of the mean +/- 19.				

Table 10 Standard Reference Water Sample T97 Report for AG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	8.0	7.8	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
2	6.5	-12.4	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
3	7.8	5.1	ATOMIC ABSORPTION, FLAMELESS	1,2,4
4	9.8	32.1	ATOMIC ABSORPTION, FLAMELESS	1,2,4
6	8.1	9.2	ATOMIC ABSORPTION, FLAMELESS	1,2,4
8	7.0	-5.7	ATOMIC ABSORPTION, FLAMELESS	1,2,4
9	9.1	22.6	EMISSION, IC PLASMA	1,2,4
13	7.1	-4.3	ATOMIC ABSORPTION, FLAMELESS	1,2,4
16	6.2	-16.4	ATOMIC ABSORPTION, FLAMELESS	1,2,4
18	< 40.0		IGNORED	1,2,3
20	3.8	-48.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
21	7.1	-4.3	ATOMIC ABSORPTION, FLAMELESS	1,2,3
22	7.0	-5.7	ATOMIC ABSORPTION, FLAMELESS	1,2,3
25	< 7.0		IGNORED	1,2,3
27	7.8	5.1	EMISSION, IC PLASMA	1,2,3
31	< 10.0		IGNORED	1,2,3
32	10.0	34.8	EMISSION, IC PLASMA	1,2,3
33	10.0	34.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
34	7.0	-5.7	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
35	-7.8	-5.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
37	6.5	-12.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
39	< 0.1		IGNORED	1,2,3
43	9.3	25.3	NOT REPORTED	1,2,3
44	< 10.0		IGNORED	1,2,3
50	8.0	7.8	ATOMIC ABSORPTION, FLAMELESS	1,2,3
52	6.0	-19.1	ATOMIC ABSORPTION, FLAMELESS	1,2,3
54	12.3	65.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
55	6.0	-19.1	ATOMIC ABSORPTION, FLAMELESS	1,2,3
56	6.8	-8.4	ATOMIC ABSORPTION, FLAMELESS	1,2,3
57	7.2	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
59	4.0	-46.1	EMISSION, DC PLASMA	1,2,3
62	8.3	11.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
63	7.8	5.1	ATOMIC ABSORPTION, FLAMELESS	1,2,3
64	< 20.0		IGNORED	1,2,3
66	9.0	21.3	EMISSION, IC PLASMA	1,2,3
69	16.0	115.6	REJECT	1,2,3
70	5.0	-32.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
71	5.9	-20.5	EMISSION, IC PLASMA	1,2,3
73	10.0	34.8	EMISSION, IC PLASMA	1,2,3
74	< 50.0		IGNORED	1,2,3
76	8.0	7.8	ATOMIC ABSORPTION, FLAMELESS	1,2,3
77	8.0	7.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
79	21.0	183.0	REJECT	1,2,3
80	2.0	-73.0	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
82	7.3	-1.6	MASS SPECTROMETRY, IC PLASMA	1,2,4
83	11.0	48.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
84	7.3	-1.6	MASS SPECTROMETRY, IC PLASMA	1,2,3
85	< 0.1		IGNORED	1,2,3
88	9.1	22.6	ATOMIC ABSORPTION, FLAMELESS	1,2,3
89	5.7	-23.2	ATOMIC ABSORPTION, FLAMELESS	1,2,3
93	< 2.0		IGNORED	1,2,3
100	3.8	-48.8	EMISSION, IC PLASMA	1,2,3
101	8.0	7.8	ATOMIC ABSORPTION, FLAMELESS	1,2,3
102	8.0	7.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
104	10.0	34.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
106	4.0	-46.1	EMISSION, IC PLASMA	1,2,3
107	< 10.0		IGNORED	1,2,3
111	7.9	6.5	EMISSION, IC PLASMA	1,2,3
115	< 10.0		IGNORED	1,2,3
116	< 50.0		IGNORED	1,2,3
119	10.0	34.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
60 Labs had a total range of < 0.1 to < 50.0 and a mean of 7.42				
with a standard deviation of 2.02 and a 95% confidence interval of the mean +/- 0.60.				

Table 10 Standard Reference Water Sample T97 Report for AL

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	130	0.4	EMISSION, DC PLASMA	7
2	200	54.4	ATOMIC ABSORPTION, CHELATION EXTRACTION, NITROUS OXIDE	2,4
3	300	131.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
4	90	-30.5	EMISSION, IC PLASMA	3,5
5	120	-7.3	OTHER	
10	170	31.3	X-RAY FLUORESCENCE	7
16	140	8.1	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
18	< 200		ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
25	120	-7.3	EMISSION, IC PLASMA	3,5
31	140	8.1	EMISSION, IC PLASMA	3,5
32	100	-22.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
35	150	15.8	EMISSION, IC PLASMA	3,5
36	< 100		EMISSION, IC PLASMA	3,5
37	170	31.3	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
39	< 1000		NOT REPORTED	
41	130	0.4	EMISSION, DC PLASMA	7
44	60	-53.7	EMISSION, IC PLASMA	3,5
52	130	0.4	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
54	160	23.6	EMISSION, IC PLASMA	3,5
55	90	-30.5	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
57	160	23.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
62	130	0.4	ATOMIC ABSORPTION, CHELATION EXTRACTION, AIR-ACETYLENE	1
63	60	-53.7	SPECTROPHOTOMETRIC, ERIOCHROME CYANINE	1
64	100	-22.8	EMISSION, IC PLASMA	3,5
70	210	62.2	EMISSION, IC PLASMA	3,5
71	40	-69.1	EMISSION, IC PLASMA	3,5
74	170	31.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
76	130	0.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
79	150	15.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
80	100	-22.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
81	130	0.4	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
82	130	0.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
83	130	0.4	EMISSION, IC PLASMA	3,5
84	130	0.4	EMISSION, IC PLASMA	3,5
87	130	0.4	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
88	340	162.5	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
89	80	-38.2	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
93	< 10		EMISSION, IC PLASMA	3,5
97	170	31.3	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
100	220	69.9	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
105	80	-38.2	EMISSION, IC PLASMA	3,5
106	100	-22.8	EMISSION, IC PLASMA	3,5
107	30	-76.8	EMISSION, IC PLASMA	3,5
111	190	46.7	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3,5
113	170	31.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
115	< 200		ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
116	< 500		ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
119	140	8.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4

48 Labs had a total range of < 10 to < 1000 and a mean of 130 with a standard deviation of 43 and a 95% confidence interval of the mean +/- 14.

Table 10 Standard Reference Water Sample T97 Report for AS

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	11.9	6.9	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
2	10.0	-10.1	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
3	12.0	7.8	ATOMIC ABSORPTION, FLAMELESS	3
4	11.0	-1.2	ATOMIC ABSORPTION, FLAMELESS	3
6	10.0	-10.1	ATOMIC ABSORPTION, FLAMELESS	3
8	11.0	-1.2	NOT REPORTED	
9	15.0	34.8	EMISSION, IC PLASMA	3
10	6.0	-46.1	X-RAY FLUORESCENCE	7
11	9.6	-13.7	ATOMIC ABSORPTION, FLAMELESS	3
13	9.0	-19.1	ATOMIC ABSORPTION, FLAMELESS	3
16	10.0	-10.1	ATOMIC ABSORPTION, FLAMELESS	3
18	11.4	2.4	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
20	12.1	8.7	ATOMIC ABSORPTION, FLAMELESS	3
21	12.4	11.4	ATOMIC ABSORPTION, FLAMELESS	3
22	10.0	-10.1	ATOMIC ABSORPTION, FLAMELESS	3
25	14.3	28.5	ATOMIC ABSORPTION, FLAMELESS	3
27	8.6	-22.7	ATOMIC ABSORPTION, FLAMELESS	3
31	<250.0		IGNORED	
32	9.0	-19.1	EMISSION, IC PLASMA	3
34	12.2	9.6	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
35	10.3	-7.4	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
36	11.0	-1.2	ATOMIC ABSORPTION, FLAMELESS	3
37	13.0	16.8	ATOMIC ABSORPTION, FLAMELESS	3
39	13.6	22.2	ATOMIC ABSORPTION, FLAMELESS	3
41	13.3	11.5	NOT REPORTED	
43	12.3	10.5	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
44	12.5	12.3	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
50	12.6	-4.8	ATOMIC ABSORPTION, FLAMELESS	3
52	8.5	-23.6	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
55	11.0	-16.2	ATOMIC ABSORPTION, HYDRIDE, (ZINC)	1,2,3,4
56	9.3	-16.4	SPECTROPHOTOMETRIC, SILVER DIETHYL DITHIOCARBAMATE	2,3,4
57	9.6	-13.7	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
59	< 16.0		IGNORED	
62	1.8	-83.8	EMISSION, DC PLASMA	7
63	12.7	14.1	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
64	9.9	-11.0	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
69	15.0	34.8	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
70	20.0	79.7	REJECT	
71	13.6	22.2	EMISSION, IC PLASMA	3
74	10.8	-3.0	EMISSION, IC PLASMA	3
76	11.0	-1.2	ATOMIC ABSORPTION, FLAMELESS	3
79	13.6	22.2	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
80	10.0	-10.1	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
83	10.5	-5.7	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
84	10.0	-10.1	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
85	12.0	7.8	ATOMIC ABSORPTION, FLAMELESS	3
88	17.0	52.8	ATOMIC ABSORPTION, FLAMELESS	3
89	9.4	-15.5	ATOMIC ABSORPTION, FLAMELESS	3
97	12.8	15.0	ATOMIC ABSORPTION, FLAMELESS	3
99	5.8	-47.9	ATOMIC ABSORPTION, FLAMELESS	3
100	14.0	25.8	ATOMIC ABSORPTION, HYDRIDE, (ZINC)	1,2,3,4
102	12.0	7.8	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
103	11.0	-1.2	ATOMIC ABSORPTION, FLAMELESS	3
105	11.0	-1.2	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
106	< 60.0		IGNORED	
109	12.0	7.8	EMISSION, IC PLASMA	3
111	9.7	-12.8	ATOMIC ABSORPTION, FLAMELESS	3
115	10.8	-3.0	ATOMIC ABSORPTION, FLAMELESS	3
116	7.0	-37.1	ATOMIC ABSORPTION, FLAMELESS	3
119	12.0	7.8	ATOMIC ABSORPTION, FLAMELESS	3

60 Labs had a total range of 1.8 to < 250.0 and a mean of 11.13 with a standard deviation of 2.11 and a 95% confidence interval of the mean +/- 0.57.

Table 10 Standard Reference Water Sample T97 Report for B

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	415	7.5	EMISSION, DC PLASMA	7
2	400	3.7	EMISSION, IC PLASMA	3
3	140	-63.7	COLORIMETRIC, CURCUMIN	1,2,3,4
5	440	14.0	OTHER	
9	380	-1.5	EMISSION, IC PLASMA	3
11	250	-35.2	COLORIMETRIC, CURCUMIN	1,2,3,4
12	420	8.8	EMISSION, IC PLASMA	3
16	810	109.9	COLORIMETRIC, CURCUMIN	1,2,3,4
17	450	16.6	COLORIMETRIC, AZOMETHINE	5
18	72	-81.3	COLORIMETRIC, CURCUMIN	1,2,3,4
25	< 500		IGNORED	
28	177	-54.1	EMISSION, IC PLASMA	3
31	446	15.6	COLORIMETRIC, CURCUMIN	1,2,3,4
32	390	-76.7	EMISSION, IC PLASMA	3
36	380	-1.5	COLORIMETRIC, CURCUMIN	1,2,3,4
41	390	1.1	EMISSION, IC PLASMA	3
55	400	3.7	COLORIMETRIC, DIANTHRIMIDE	4
62	121	-68.6	EMISSION, IC PLASMA	3
64	350	-9.3	COLORIMETRIC, CARMINE (CARMINIC ACID)	2,4
70	550	42.3	EMISSION, IC PLASMA	3
79	360	-4.7	EMISSION, IC PLASMA	3
81	535	38.6	MASS SPECTROMETRY, IC PLASMA	7
82	430	11.4	COLORIMETRIC, CURCUMIN	1,2,3,4
84	444	15.1	MASS SPECTROMETRY, IC PLASMA	7
87	411	6.5	EMISSION, IC PLASMA	3
88	480	24.4	ATOMIC ABSORPTION, FLAMELESS	3
93	393	1.8	EMISSION, IC PLASMA	3
103	400	3.7	COLORIMETRIC, AZOMETHINE	5
105	385	-0.2	EMISSION, IC PLASMA	3
106	400	3.7	EMISSION, IC PLASMA	3
107	393	1.8	EMISSION, IC PLASMA	3
115	< 1000		IGNORED	
119	650	68.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	7
			ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	7

33 Labs had a total range of 72 to < 1000 and a mean of 385.9 with a standard deviation of 153.6 and a 95% confidence interval of the mean +/- 56.3.

Table 10 Standard Reference Water Sample T97 Report for BA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	95	-10.2	EMISSION, IC PLASMA	3,5
2	85	-19.7	EMISSION, IC PLASMA	3,5
3	100	-5.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
5	90	-15.0	MASS SPECTROMETRY, IC PLASMA	7
9	94	-11.2	EMISSION, IC PLASMA	3,5
10	63	-40.5	X-RAY FLUORESCENCE	7
12	95	-10.2	EMISSION, IC PLASMA	3,5
13	100	-5.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
16	87	-17.8	ATOMIC ABSORPTION, FLAMELESS	3
18	114	7.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
20	123	16.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
22	100	-5.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
25	99	-6.5	EMISSION, IC PLASMA	3,5
27	170	60.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
31	91	-14.0	EMISSION, IC PLASMA	3,5
32	100	-5.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
34	99	-6.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
35	97	-8.3	EMISSION, IC PLASMA	3,5
36	100	-5.5	EMISSION, IC PLASMA	3,5
37	106	0.2	EMISSION, IC PLASMA	3,5
39	< 500		IGNORED NOT REPORTED	
41	102	-3.6	EMISSION, IC PLASMA	3,5
44	90	-15.0	EMISSION, IC PLASMA	3,5
50	105	-0.8	ATOMIC ABSORPTION, FLAMELESS	3
52	120	13.4	ATOMIC ABSORPTION, FLAMELESS	3
54	90	-15.0	EMISSION, IC PLASMA	3,5
55	96	-9.3	EMISSION, IC PLASMA	3,5
56	69	-34.8	EMISSION, IC PLASMA	3,5
57	88	-16.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
59	102	-3.6	EMISSION DC PLASMA	2,7
63	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
64	80	-24.4	EMISSION, IC PLASMA	3,5
70	100	-5.5	EMISSION, IC PLASMA	3,5
74	134	26.6	ATOMIC ABSORPTION, FLAMELESS	3
76	100	-5.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
79	116	9.6	MASS SPECTROMETRY, IC PLASMA	7
80	200	89.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
81	180	70.1	ATOMIC ABSORPTION, FLAMELESS	3
82	90	-15.0	MASS SPECTROMETRY, IC PLASMA	7
83	80	-24.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
84	93	-12.1	EMISSION, IC PLASMA	3,5
85	40	-62.2	ATOMIC ABSORPTION, FLAMELESS	3
87	95	-10.2	EMISSION, IC PLASMA	3,5
88	190	79.5	ATOMIC ABSORPTION, FLAMELESS	3
89	85	-19.7	ATOMIC ABSORPTION, FLAMELESS	3
93	99	-6.5	EMISSION, IC PLASMA	3,5
97	132	24.7	ATOMIC ABSORPTION, FLAMELESS	3
99	109	3.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
100	115	8.7	ATOMIC ABSORPTION, FLAMELESS	3
102	80	-24.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
103	110	3.9	ATOMIC ABSORPTION, FLAMELESS	3
106	100	-5.5	EMISSION, IC PLASMA	3,5
107	80	-24.4	EMISSION, IC PLASMA	3,5
111	96	-9.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
113	160	51.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
115	< 500		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
116	< 500		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
119	181	71.0	ATOMIC ABSORPTION, FLAMELESS	3

58 Labs had a total range of 40 to < 500 and a mean of 105.8 with a standard deviation of 30.9 and a 95% confidence interval of the mean +/- 8.4.

Table 10 Standard Reference Water Sample T97 Report for CA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	54.3	-0.9	EMISSION, IC PLASMA	
2	53.0	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	3,5,7
3	52.0	-5.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
4	54.0	-1.5	EMISSION, IC PLASMA	3,5,7
5	57.5	4.9	EMISSION, IC PLASMA	3,5,7
9	54.5	-0.6	EMISSION, IC PLASMA	3,5,7
10	30.0	-45.3	REJECT X-RAY FLUORESCENCE	3,5,7
12	58.8	7.3	EMISSION, IC PLASMA	3,5,7
16	50.0	-8.8	ATOMIC ABSORPTION, DIRECT, AIR	3,5,7
18	52.3	-4.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
20	51.9	-5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	53.5	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	58.0	5.8	EMISSION, IC PLASMA	3,5,7
26	61.0	11.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	54.1	-1.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
32	57.0	4.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
34	54.8	-0.0	TITRATION, EDTA	1,7
35	52.6	-4.0	EMISSION, IC PLASMA	3,5,7
36	32.6	-40.5	REJECT EMISSION, IC PLASMA	3,5,7
37	51.3	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	61.0	11.3	NOT REPORTED	
41	55.2	0.7	EMISSION, IC PLASMA	3,5,7
44	55.2	0.7	EMISSION, IC PLASMA	3,5,7
50	62.9	14.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	53.0	-3.3	EMISSION, IC PLASMA	3,5,7
55	53.6	-2.2	EMISSION, IC PLASMA	3,5,7
57	52.7	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	54.1	-1.3	EMISSION, DC PLASMA	1,2,3,4
63	54.0	-1.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	46.0	-16.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	62.9	14.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	60.0	9.5	EMISSION, IC PLASMA	3,5,7
74	62.0	13.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
76	54.3	-0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	50.0	-8.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
83	52.4	-4.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
84	52.0	-5.1	EMISSION, IC PLASMA	3,5,7
85	57.0	4.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
87	54.0	-1.5	EMISSION, IC PLASMA	3,5,7
88	61.0	11.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
89	54.0	-1.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	58.1	6.0	EMISSION, IC PLASMA	3,5,7
97	54.1	-1.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
98	53.0	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
99	53.0	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	53.0	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	54.7	0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	55.2	0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	55.8	1.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	54.0	-1.5	EMISSION, IC PLASMA	3,5,7
107	57.0	4.0	EMISSION, IC PLASMA	3,5,7
109	54.0	-1.5	EMISSION, IC PLASMA	3,5,7
111	51.0	-6.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
112	55.7	1.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
113	53.2	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	51.0	-6.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	51.1	-6.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
119	57.1	4.2	TITRATION, EDTA	1,2,3,4

58 Labs had a total range of 30.0 to 62.9 and a mean of 54.81 with a standard deviation of 3.42 and a 95% confidence interval of the mean +/- 0.92.

Table 10 Standard Reference Water Sample T97 Report for CD

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	16	-1.9	EMISSION, IC PLASMA	3, 5
2	15	-8.0	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
3	17	4.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	17	4.2	ATOMIC ABSORPTION, FLAMELESS	3
5	16	-1.9		
6	16	-1.9	ATOMIC ABSORPTION, FLAMELESS	3
8	14	-14.2	ATOMIC ABSORPTION, FLAMELESS	3
9	17	4.2	ATOMIC ABSORPTION, FLAMELESS	3
10	15	-8.0	X-RAY FLUORESCENCE	7
12	19	16.5	NOT REPORTED	
13	20	22.6	ATOMIC ABSORPTION, FLAMELESS	3
16	16	-1.9	ATOMIC ABSORPTION, FLAMELESS	3
18	18	10.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
20	8	-51.0	ATOMIC ABSORPTION, FLAMELESS	3
21	20	22.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
22	10	-38.7	ATOMIC ABSORPTION, FLAMELESS	3
25	18	10.4	EMISSION, IC PLASMA	3, 5
26	17	4.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
27	12	-26.4	ATOMIC ABSORPTION, FLAMELESS	3
31	15	-8.0	EMISSION, IC PLASMA	3, 5
32	10	-38.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
33	18	10.4	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
34	14	-14.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
35	17	4.2	ATOMIC ABSORPTION, FLAMELESS	3
36	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
37	17	4.2	ATOMIC ABSORPTION, FLAMELESS	3
39	13	-20.3	NOT REPORTED	
41	15	-8.0	EMISSION, IC PLASMA	3, 5
44	20	22.6	ATOMIC ABSORPTION, FLAMELESS	3
45	16	-1.9	ATOMIC ABSORPTION, FLAMELESS	3
50	17	4.2	ATOMIC ABSORPTION, FLAMELESS	3
52	12	-26.4	ATOMIC ABSORPTION, FLAMELESS	3
54	18	10.4	EMISSION, IC PLASMA	3, 5
55	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
56	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
57	13	-20.3	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
59	18	10.4	EMISSION, DC PLASMA	7
60	16	-1.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
62	16	-1.9	ATOMIC ABSORPTION, FLAMELESS	3
63	15	-8.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	10	-38.7	EMISSION, IC PLASMA	3, 5
66	17	4.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	12	-26.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	20	22.6	EMISSION, IC PLASMA	3, 5
71	17	4.2	EMISSION, IC PLASMA	3, 5
73	20	22.6	ATOMIC ABSORPTION, FLAMELESS	3
74	4	-75.5	ATOMIC ABSORPTION, FLAMELESS	3
76	17	4.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
79	21	28.8		
80	12	-26.4	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2, 3
82	15	-8.0	MASS SPECTROMETRY, IC PLASMA	7
83	17	4.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
84	15	-8.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
85	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
87	22	34.9	EMISSION, IC PLASMA	3, 5
88	21	28.8	ATOMIC ABSORPTION, FLAMELESS	3
89	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
93	20	22.6	EMISSION, IC PLASMA	3, 5
95	14	-14.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
99	16	-1.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	18	10.4	ATOMIC ABSORPTION, FLAMELESS	3
101	13	-20.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
102	18	10.4	ATOMIC ABSORPTION, FLAMELESS	3
103	15	-8.0	ATOMIC ABSORPTION, FLAMELESS	3
104	18	10.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	16	-1.9	EMISSION, IC PLASMA	3, 5
106	18	10.4	EMISSION, IC PLASMA	3, 5
108	20	22.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	20	22.6	ATOMIC ABSORPTION, FLAMELESS	3
115	14	-14.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
117	25	53.3	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
119	21	28.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

73 Labs had a total range of 4 to < 50 and a mean of 16.3 with a standard deviation of 3.1 and a 95% confidence interval of the mean +/- 0.7.



Table 10 Standard Reference Water Sample T97 Report for CO

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	5	-52.7	EMISSION, IC PLASMA	3, 5
2	5	-52.7	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 6
3	< 10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
5	6	-43.2	OTHER	
9	5	-52.7	EMISSION, IC PLASMA	3, 5
10	3	-71.6	X-RAY FLUORESCENCE	7
12	8	-24.2	EMISSION, DC PLASMA	3
13	4	-62.1	ATOMIC ABSORPTION, FLAMELESS	3
25	< 10		IGNORED EMISSION, IC PLASMA	3, 5
31	< 10		IGNORED EMISSION, IC PLASMA	3, 5
32	< 10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
35	9	-14.8	EMISSION, IC PLASMA	3, 5
36	< 20		IGNORED EMISSION, IC PLASMA	3, 5
37	< 60		IGNORED EMISSION, IC PLASMA	3, 5
52	42	297.7	ATOMIC ABSORPTION, FLAMELESS	3
54	6	-43.2	EMISSION, IC PLASMA	3, 5
57	42	297.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	40	278.8	EMISSION, IC PLASMA	3, 5
70	5	-52.7	EMISSION, IC PLASMA	3, 5
71	5	-52.7	EMISSION, IC PLASMA	3, 5
76	10	-5.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
79	8	-24.2	MASS SPECTROMETRY, IC PLASMA	7
80	5	-52.7	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2, 3
82	7	-33.7	MASS SPECTROMETRY, IC PLASMA	7
84	< 5		IGNORED EMISSION, IC PLASMA	3, 5
85	2	-81.1	ATOMIC ABSORPTION, FLAMELESS	3
88	8	-24.2	ATOMIC ABSORPTION, FLAMELESS	3
89	5	-52.7	ATOMIC ABSORPTION, FLAMELESS	3
93	< 3		IGNORED EMISSION, IC PLASMA	3, 5
95	12	13.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
97	7	-33.7	ATOMIC ABSORPTION, FLAMELESS	3
100	4	-62.1	ATOMIC ABSORPTION, FLAMELESS	3
106	< 8		IGNORED EMISSION, IC PLASMA	3, 5
107	< 10		IGNORED EMISSION, IC PLASMA	3, 5
115	< 20		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
119	11	4.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

37 Labs had a total range of 2 to < 100 and a mean of 10.6 with a standard deviation of 11.8 and a 95% confidence interval of the mean +/- 4.9.

Table 10 Standard Reference Water Sample T97 Report for CR TOT

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	22	-17.7	NOT REPORTED	
2	30	12.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,3,4
3	30	12.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	20	-25.2	EMISSION, IC PLASMA	3
5	21	-21.5	OTHER	
6	26	-2.8	ATOMIC ABSORPTION, FLAMELESS	3
8	26	-2.8	ATOMIC ABSORPTION, FLAMELESS	3
9	27	1.0	EMISSION, IC PLASMA	3
10	17	-36.4	X-RAY FLUORESCENCE	7
12	25	-6.5	EMISSION, IC PLASMA	3
13	23	-14.0	ATOMIC ABSORPTION, FLAMELESS	3
16	23	-14.0	ATOMIC ABSORPTION, FLAMELESS	3
18	35	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	30	12.2	ATOMIC ABSORPTION, FLAMELESS	3
21	20	-25.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	25	-6.5	ATOMIC ABSORPTION, FLAMELESS	3
25	25	-6.5	EMISSION, IC PLASMA	3
26	40	49.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
27	20	-25.2	ATOMIC ABSORPTION, FLAMELESS	3
31	50		EMISSION, IC PLASMA	3
32	<		IGNORED	
34	36	34.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	28	4.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
36	24	-10.2	ATOMIC ABSORPTION, FLAMELESS	3
37	26	-2.8	ATOMIC ABSORPTION, FLAMELESS	3
39	27	1.0	NOT REPORTED	
40	25	-6.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
41	24	-10.2	EMISSION, IC PLASMA	3
43	27	1.0	ATOMIC ABSORPTION, FLAMELESS	3
44	28	4.7	ATOMIC ABSORPTION, FLAMELESS	3
50	36	34.7	ATOMIC ABSORPTION, FLAMELESS	3
52	26	-2.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	26	-2.8	EMISSION, IC PLASMA	3
55	25	-6.5	ATOMIC ABSORPTION, FLAMELESS	3
56	27	1.0	ATOMIC ABSORPTION, FLAMELESS	3
57	29	8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	27	1.0	EMISSION, IC PLASMA	7
60	31	16.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
62	28	4.7	ATOMIC ABSORPTION, FLAMELESS	3
63	39	45.9	ATOMIC ABSORPTION, FLAMELESS	3
64	50		EMISSION, IC PLASMA	3
70	28	4.7	EMISSION, IC PLASMA	3
71	28	4.7	EMISSION, IC PLASMA	3
73	20	-25.2	ATOMIC ABSORPTION, FLAMELESS	3
74	35	30.9	ATOMIC ABSORPTION, FLAMELESS	3
76	25	-6.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1
79	39	45.9	MASS SPECTROMETRY, IC PLASMA	7
80	26	-2.8	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,3,4
83	27	1.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1
84	25	-6.5	EMISSION, IC PLASMA	3
85	24	-10.2	ATOMIC ABSORPTION, FLAMELESS	3
87	25	-6.5	EMISSION, IC PLASMA	3
88	36	34.7	ATOMIC ABSORPTION, FLAMELESS	3
89	28	4.7	ATOMIC ABSORPTION, FLAMELESS	3
93	32	19.7	EMISSION, IC PLASMA	3
95	15	-43.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
97	27	1.0	ATOMIC ABSORPTION, FLAMELESS	3
99	28	4.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1
100	34	27.2	ATOMIC ABSORPTION, FLAMELESS	3
101	28	4.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	23	-14.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	27	1.0	ATOMIC ABSORPTION, FLAMELESS	3
104	28	4.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	22	-17.7	EMISSION, IC PLASMA	3
106	20	-25.2	EMISSION, IC PLASMA	3
107	20	-25.2	EMISSION, IC PLASMA	3
108	18	-32.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
111	21	-21.5	ATOMIC ABSORPTION, FLAMELESS	3
113	29	8.5	ATOMIC ABSORPTION, FLAMELESS	3
115	20		IGNORED	
116	50		IGNORED	
117	27	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
119	29	8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

73 Labs had a total range of 15 to < 50 and a mean of 26.7 with a standard deviation of 5.2 and a 95% confidence interval of the mean +/- 1.3.

Table 10 Standard Reference Water Sample T97 Report for CU

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	16	-6.2	EMISSION, IC PLASMA	3,5
2	16	-6.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,3,4
3	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	3,5
4	< 20		IGNORED EMISSION, IC PLASMA	1,2,3,4
5	17	-0.3	MASS SPECTROMETRY, IC PLASMA	7,5
8	14	-17.9	ATOMIC ABSORPTION, FLAMELESS	3
9	15	-12.0	EMISSION, IC PLASMA	3,5
10	10	-41.3	X-RAY FLUORESCENCE	7
11	19	11.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
12	17	-0.3	EMISSION, IC PLASMA	3,5
13	8	-53.1	ATOMIC ABSORPTION, FLAMELESS	3
16	19	11.4	ATOMIC ABSORPTION, FLAMELESS	3
18	18	5.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	< 20		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	14	-17.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	< 10		IGNORED EMISSION, IC PLASMA	3,5
26	18	5.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
31	< 10		IGNORED EMISSION, IC PLASMA	3,5
32	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
33	17	-0.3	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,3,4
34	15	-12.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	15	-12.0	EMISSION, IC PLASMA	3,5
36	30	76.0	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
37	15	-12.0	ATOMIC ABSORPTION, FLAMELESS	3
39	17	-0.3	NOT REPORTED	
40	18	5.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
41	16	-6.2	EMISSION, IC PLASMA	3,5
43	16	-6.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	< 10		IGNORED EMISSION, IC PLASMA	3,5
50	18	5.6	ATOMIC ABSORPTION, FLAMELESS	3
52	< 20		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	22	29.0	EMISSION, IC PLASMA	3,5
55	5	-70.7	REJECT EMISSION, IC PLASMA	3,5
56	15	-12.0	ATOMIC ABSORPTION, FLAMELESS	3
57	21	23.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	16	-6.2	OTHER	
60	17	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
62	16	-6.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	18	5.6	ATOMIC ABSORPTION, FLAMELESS	3
64	20	17.3	EMISSION, IC PLASMA	3,5
66	18	5.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	17	-0.3	EMISSION, IC PLASMA	3,5
71	18	5.6	EMISSION, IC PLASMA	3,5
74	20	17.3	ATOMIC ABSORPTION, FLAMELESS	3
76	15	-12.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	19	11.4	MASS SPECTROMETRY, IC PLASMA	7
80	15	-12.0	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
81	23	34.9	ATOMIC ABSORPTION, FLAMELESS	3
82	15	-12.0	MASS SPECTROMETRY, IC PLASMA	7
83	23	34.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
84	16	-6.2	EMISSION, IC PLASMA	3,5
87	16	-6.2	EMISSION, IC PLASMA	3,5
88	430	2422.1	REJECT EMISSION, IC PLASMA	3,5
89	15	-12.0	ATOMIC ABSORPTION, FLAMELESS	3
93	< 3		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
95	16	-6.2	EMISSION, IC PLASMA	3,5
99	19	11.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	22	29.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
101	16	-6.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	15	-12.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	19	11.4	ATOMIC ABSORPTION, FLAMELESS	3
105	13	-23.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	10	-41.3	EMISSION, IC PLASMA	3,5
107	12	-29.6	EMISSION, IC PLASMA	3,5
108	18	5.6	ATOMIC ABSORPTION, DIRECT, AIR	3,5
111	20	17.3	ATOMIC ABSORPTION, FLAMELESS	3
115	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
117	20	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
119	17	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

73 Labs had a total range of < 3 to 430 and a mean of 17.0 with a standard deviation of 3.0 and a 95% confidence interval of the mean +/- 0.8.

Table 10 Standard Reference Water Sample T97 Report for FE

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	99	-0.7	EMISSION, IC PLASMA	3,5
2	100	0.3	EMISSION, IC PLASMA	3,5
3	109	9.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	80	-19.8	EMISSION, IC PLASMA	3,5
5	100	0.3	EMISSION, IC PLASMA	3,5
6	96	-3.7	EMISSION, IC PLASMA	3,5
7	67	-32.8	X-RAY FLUORESCENCE	7
10	99	-0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
11	105	5.3	EMISSION, IC PLASMA	3,5
12	72	-27.8	ATOMIC ABSORPTION, FLAMELESS	3
13	170	70.5	OTHER	
17	120	20.3	REJECT	
18	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	112	12.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	104	4.3	EMISSION, IC PLASMA	3,5
26	117	17.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
31	95	-4.7	EMISSION, IC PLASMA	3,5
32	120	20.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
33	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
34	85	-14.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	115	15.3	EMISSION, IC PLASMA	3,5
36	80	-19.8	EMISSION, IC PLASMA	3,5
37	100	0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	< 100		IGNORED	
40	50	-49.9	REJECT	
41	104	4.3	EMISSION, IC PLASMA	3,5
43	87	-12.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	90	-9.8	EMISSION, IC PLASMA	3,5
45	100	0.3	EMISSION, IC PLASMA	3,5
50	85	-14.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
52	87	-12.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
53	90	-9.8	OTHER	
54	117	17.3	EMISSION, IC PLASMA	3,5
55	96	-3.7	EMISSION, IC PLASMA	3,5
56	99	-0.7	EMISSION, IC PLASMA	3,5
57	183	83.5	REJECT	
59	97	-2.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
60	105	5.3	EMISSION, DC PLASMA	7
62	106	6.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	97	-2.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	90	-9.8	EMISSION, IC PLASMA	3,5
66	98	-1.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	160	60.4	REJECT	
70	120	20.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
71	103	3.3	EMISSION, IC PLASMA	3,5
74	30	-69.9	REJECT	
76	95	-4.7	ATOMIC ABSORPTION, FLAMELESS	3
77	95	-4.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	72	-27.8	MASS SPECTROMETRY, IC PLASMA	7
80	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
81	190	90.5	REJECT	
83	105	5.3	ATOMIC ABSORPTION, FLAMELESS	3
84	105	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	110	10.3	EMISSION, IC PLASMA	3,5
87	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	103	3.3	EMISSION, IC PLASMA	3,5
89	1100	1002.9	REJECT	
89	74	-25.8	ATOMIC ABSORPTION, FLAMELESS	3
93	113	13.3	ATOMIC ABSORPTION, FLAMELESS	3
98	100	0.3	EMISSION, IC PLASMA	3,5
99	102	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	105	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
101	95	-4.7	ATOMIC ABSORPTION, FLAMELESS	3
102	110	10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	96	-3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	100	0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	104	4.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	97	-2.7	EMISSION, IC PLASMA	3,5
107	87	-12.8	EMISSION, IC PLASMA	3,5
109	94	-5.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
111	120	20.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
112	231	131.6	REJECT	
113	94	-5.7	OTHER	
115	100	0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	500	401.3	REJECT	
119	126	26.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

74 Labs had a total range of 30 to 1100 and a mean of 99.7 with a standard deviation of 12.5 and a 95% confidence interval of the mean +/- 3.1.

Table 10 Standard Reference Water Sample T97 Report for HG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
2	1.20	29.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
3	0.89	-4.0	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
6	0.90	-2.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
8	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
18	1.10	18.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
21	0.94	1.4	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
22	1.10	18.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
25	0.91	-1.8	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
27	0.65	-29.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
32	0.50	-46.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
33	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
34	1.10	18.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
35	0.97	4.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
36	0.64	-31.0	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
37	0.85	-7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
39	0.94	1.4	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
41	0.81	-12.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
44	0.70	-24.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
50	0.60	-35.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
52	0.98	5.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
54	1.30	40.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
55	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
56	0.80	-13.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
57	0.59	-36.3	OTHER	
59	< 4.00		ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
62	0.89	-4.0	EMISSION, DC PLASMA	7
63	0.96	3.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
64	1.40	51.0	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
66	0.92	-0.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
69	0.60	-35.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
74	2.40	158.9	REJECT	
76	0.90	-2.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
79	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
80	< 0.20		MASS SPECTROMETRY, IC PLASMA	7
82	< 1.00		ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
83	2.10	126.6	REJECT	
84	0.95	2.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
87	1.30	40.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
89	0.84	-9.4	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
99	0.70	-24.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
100	0.97	4.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
102	0.70	-24.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
103	0.94	1.4	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
105	1.00	7.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
108	1.10	18.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
109	0.90	-2.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
111	1.15	24.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
115	0.92	-0.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
116	< 1.00		ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4
119	1.10	18.7	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1, 2, 3, 4

51 Labs had a total range of < 0.20 to < 4.00 and a mean of 0.927 with a standard deviation of 0.196 and a 95% confidence interval of the mean +/- 0.059.

Table 10 Standard Reference Water Sample T97 Report for K

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	3.7	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	3.5	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	3.4	-5.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	4.0	10.8	EMISSION, IC PLASMA	3,7
9	3.4	-5.8	EMISSION, IC PLASMA	3,7
10	3.1	-14.1	X-RAY FLUORESCENCE	3,7
18	3.2	-11.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	3.4	-5.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
25	3.8	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
26	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	3.5	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
32	4.0	10.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
34	4.7	30.2	EMISSION, FLAME, PHOTOMETRIC	1,2,3,4
35	4.4	21.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
36	5.0	38.5	EMISSION, FLAME, PHOTOMETRIC	1,2,3,4
37	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	4.6	27.4	NOT REPORTED	1,2,3,4
41	3.7	2.5	EMISSION, IC PLASMA	3,7
43	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	3.8	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
50	3.3	-8.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	3.0	-16.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	3.6	-0.3	EMISSION, IC PLASMA	3,7
57	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	3.3	-8.6	ION SELECTIVE ELECTRODE	1,2,3,4
63	3.3	-8.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	3.0	-16.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	3.2	-11.3	EMISSION, IC PLASMA	3,7
74	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
76	4.0	10.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	3.5	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
81	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
83	3.4	-5.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
84	3.8	5.3	EMISSION, IC PLASMA	3,7
85	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
87	2.7	-25.2	EMISSION, IC PLASMA	3,7
88	3.7	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	3.8	5.3	EMISSION, IC PLASMA	3,7
97	3.8	5.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
98	3.7	2.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
99	3.5	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	4.2	16.4	EMISSION, FLAME, PHOTOMETRIC	1,2
103	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	2.8	-22.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	0.5	-86.1	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	2.4	-33.5	EMISSION, IC PLASMA	3,7
107	3.2	-11.3	EMISSION, IC PLASMA	3,7
109	4.0	10.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
111	3.6	-0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
112	3.5	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	4.1	13.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	3.7	2.5	EMISSION, FLAME, PHOTOMETRIC	1,2
119	12.9	257.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

54 Labs had a total range of 0.5 to 12.9 and a mean of 3.61 with a standard deviation of 0.47 and a 95% confidence interval of the mean +/- 0.13.

Table 10 Standard Reference Water Sample T97 Report for LI

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	48	0.9	EMISSION, IC PLASMA	3,5
2	40	-15.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
3	60	26.2	EMISSION, FLAME	1
5	42	-11.7	OTHER	
9	48	0.9	EMISSION, IC PLASMA	3,5
11	41	-13.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
12	50	5.2	EMISSION, IC PLASMA	3,5,4
32	50	5.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	63	32.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
41	45	-5.4	EMISSION, IC PLASMA	3,5
60	42	-11.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	< 1000		IGNORED EMISSION, IC PLASMA	3,5
70	45	-5.4	EMISSION, IC PLASMA	3,5
76	46	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
87	52	9.4	EMISSION, IC PLASMA	3,5
88	54	13.6	ATOMIC ABSORPTION, FLAMELESS	3,5
93	47	-1.2	EMISSION, IC PLASMA	3,5
106	46	-3.3	EMISSION, IC PLASMA	3,5
109	54	13.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
115	32	-32.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
119	46	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4

21 Labs had a total range of 32 to < 1000 and a mean of 47.6 with a standard deviation of 7.0 and a 95% confidence interval of the mean +/- 3.3.

Table 10 Standard Reference Water Sample T97 Report for MG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	19.0	1.0	EMISSION, IC PLASMA	3, 5
2	19.5	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
3	19.1	1.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3, 4
4	19.0	1.0	EMISSION, IC PLASMA	3, 5
5	19.2	2.1	EMISSION, IC PLASMA	3, 5
9	18.9	0.5	EMISSION, IC PLASMA	3, 5
10	4.0	-78.7	REJECT X-RAY FLUORESCENCE	7
12	19.9	5.8	TITRATION, EDTA	2
16	17.0	-9.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
18	18.0	-4.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
20	18.5	-1.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
21	19.1	1.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
25	19.9	5.8	EMISSION, IC PLASMA	3, 5
26	42.0	123.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
28	19.1	1.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
32	18.5	-1.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3, 4
34	17.0	-9.6	TITRATION, EDTA	2
35	19.1	1.5	EMISSION, IC PLASMA	3, 5
36	19.0	1.0	EMISSION, IC PLASMA	3, 5
37	17.1	-9.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
39	13.9	-26.1	REJECT NOT REPORTED	
41	19.2	2.1	EMISSION, IC PLASMA	3, 5
43	20.0	6.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
44	19.1	1.5	EMISSION, IC PLASMA	3, 5
50	19.0	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
54	19.0	1.0	EMISSION, IC PLASMA	3, 5
55	18.0	-4.3	OTHER	
57	19.1	1.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
59	21.9	16.4	EMISSION, DC PLASMA	7
63	9.6	-49.0	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	17.0	-9.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	17.5	-7.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	19.5	3.7	EMISSION, IC PLASMA	3, 5
74	18.0	-4.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
76	18.6	-1.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
80	18.9	0.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3, 4
83	18.2	-3.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 7
84	19.0	1.0	EMISSION, IC PLASMA	3, 5
85	19.0	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
87	24.0	27.6	REJECT EMISSION, IC PLASMA	3, 5
88	21.0	11.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
89	17.0	-9.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
93	20.2	7.4	EMISSION, IC PLASMA	3, 5
97	17.5	-7.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
98	17.0	-9.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
99	17.3	-8.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	19.3	2.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	18.2	-3.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
104	16.8	-10.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	19.8	5.2	EMISSION, IC PLASMA	3, 5
106	19.0	1.0	EMISSION, IC PLASMA	3, 5
107	20.4	8.4	EMISSION, IC PLASMA	3, 5
109	19.0	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	19.7	4.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
112	18.1	-3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
113	18.7	-0.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
115	20.3	7.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	17.7	-5.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
119	21.0	11.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

59 Labs had a total range of 4.0 to 42.0 and a mean of 18.81 with a standard deviation of 1.13 and a 95% confidence interval of the mean +/- 0.31.

Table 10 Standard Reference Water Sample T97 Report for MN

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	28	-8.9	EMISSION, IC PLASMA	3,5
2	30	-2.4	EMISSION, IC PLASMA	3,5
3	34	10.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	30	-2.4	EMISSION, IC PLASMA	3,5
5	28	-8.9	OTHER	
8	32	4.1	ATOMIC ABSORPTION, FLAMELESS	3
9	30	-2.4	EMISSION, IC PLASMA	3,5
10	23	-25.2	X-RAY FLUORESCENCE	7
11	40	30.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
12	32	4.1	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
13	24	-21.9	ATOMIC ABSORPTION, FLAMELESS	3
17	40	30.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
18	36	17.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
20	36	17.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
22	30	-2.4	ATOMIC ABSORPTION, FLAMELESS	3
25	33	7.4	EMISSION, IC PLASMA	3,5
26	28	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
31	32	4.1	EMISSION, IC PLASMA	3,5
32	20	-34.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
33	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
34	37	20.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	32	4.1	EMISSION, IC PLASMA	3,5
36	30	-2.4	EMISSION, IC PLASMA	3,5
37	30	-2.4	ATOMIC ABSORPTION, FLAMELESS	3
39	<	50	IGNORED NOT REPORTED	
41	30	-2.4	EMISSION, IC PLASMA	3,5
43	22	-28.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	28	-8.9	EMISSION, IC PLASMA	3,5
45	30	-2.4	EMISSION, IC PLASMA	3,5
50	36	17.1	ATOMIC ABSORPTION, FLAMELESS	3
52	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
53	14	-54.5	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	10	-2.4	EMISSION, IC PLASMA	3,5
55	30	-2.4	EMISSION, IC PLASMA	3,5
56	32	4.1	EMISSION, IC PLASMA	3,5
57	38	23.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
59	34	10.6	OTHER	
60	28	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
62	32	4.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	30	-2.4	EMISSION, IC PLASMA	3,5
66	24	-21.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	<	50	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	30	-2.4	EMISSION, IC PLASMA	3,5
71	31	0.8	EMISSION, IC PLASMA	3,5
74	<	50	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
76	27	-12.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	47	52.9	REJECT MASS SPECTROMETRY, IC PLASMA	7
80	27	-12.2	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
81	40	30.1	ATOMIC ABSORPTION, FLAMELESS	3
82	35	13.9	MASS SPECTROMETRY, IC PLASMA	7
83	26	-15.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
84	31	0.8	EMISSION, IC PLASMA	3,5
85	21	-31.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
87	31	0.8	EMISSION, IC PLASMA	3,5
88	38	23.6	ATOMIC ABSORPTION, FLAMELESS	3
89	29	-5.7	ATOMIC ABSORPTION, FLAMELESS	3
93	32	4.1	EMISSION, IC PLASMA	3,5
95	36	17.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
97	27	-12.2	ATOMIC ABSORPTION, FLAMELESS	3
98	34	10.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
99	27	-12.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	34	10.6	ATOMIC ABSORPTION, FLAMELESS	3
102	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	30	-2.4	EMISSION, IC PLASMA	3,5
106	30	-2.4	EMISSION, IC PLASMA	3,5
107	26	-15.4	EMISSION, IC PLASMA	3,5
109	27	-12.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
111	30	-2.4	ATOMIC ABSORPTION, FLAMELESS	3
113	40	30.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	30	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	<	50	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
119	33	7.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

75 Labs had a total range of 14 to < 50 and a mean of 30.7 with a standard deviation of 4.3 and a 95% confidence interval of the mean +/- 1.0.



Table 10 Standard Reference Water Sample T97 Report for MO

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	38	5.0	EMISSION, IC PLASMA	3, 5
2	37	2.2	ATOMIC ABS. EXTRACTION, 8 HYDROXYQUINOLINE/MIBK, NITROUS OXIDE	4
3	< 10		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
4	< 30		IGNORED EMISSION, IC PLASMA	3, 5
5	34	-6.1	OTHER	
8	34	-6.1	ATOMIC ABSORPTION, FLAMELESS	3
9	36	-0.5	EMISSION, IC PLASMA	3, 5
10	49	35.4	X-RAY FLUORESCENCE	7
11	38	5.0	ATOMIC ABSORPTION, FLAMELESS	3
12	42	16.0	EMISSION, IC PLASMA	3, 5
13	32	-11.6	ATOMIC ABSORPTION, FLAMELESS	3
18	< 500		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
25	37	2.2	EMISSION, IC PLASMA	3, 5
28	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
31	36	-0.5	EMISSION, IC PLASMA	3, 5
32	100	176.3	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
35	42	16.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
44	30	-17.1	EMISSION, IC PLASMA	3, 5
50	36	-0.5	ATOMIC ABSORPTION, FLAMELESS	3
52	< 50		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
64	30	-17.1	EMISSION, IC PLASMA	3, 5
70	35	-3.3	EMISSION, IC PLASMA	3, 5
76	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
79	43	18.8	MASS SPECTROMETRY, IC PLASMA	7
80	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
82	35	-3.3	MASS SPECTROMETRY, IC PLASMA	7
84	30	-17.1	EMISSION, IC PLASMA	3, 5
87	37	2.2	EMISSION, IC PLASMA	3, 5
88	35	-3.3	ATOMIC ABSORPTION, FLAMELESS	3
89	30	-17.1	ATOMIC ABSORPTION, FLAMELESS	3
93	< 6		IGNORED EMISSION, IC PLASMA	3, 5
97	40	10.5	ATOMIC ABSORPTION, FLAMELESS	3
103	37	2.2	ATOMIC ABSORPTION, FLAMELESS	3
105	31	-14.3	EMISSION, IC PLASMA	3, 5
106	37	2.2	EMISSION, IC PLASMA	3, 5
115	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
119	73	101.7	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3

37 Labs had a total range of < 6 to < 500 and a mean of 36.2  
with a standard deviation of 4.5 and a 95% confidence interval of the mean +/- 1.8.

Table 10 Standard Reference Water Sample T97 Report for NA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	59.5	1.2	EMISSION, IC PLASMA	3, 5
2	59.0	0.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
3	60.0	2.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	59.0	0.4	EMISSION, IC PLASMA	3, 5, 3, 4
5	56.4	-4.1	EMISSION, IC PLASMA	3, 5
9	60.8	3.4	EMISSION, IC PLASMA	3, 5
12	58.8	0.0	NOT REPORTED	
18	58.0	-0.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
20	59.3	-2.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
21	64.2	9.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
25	67.5	14.8	EMISSION, IC PLASMA	3, 5
26	59.5	1.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
28	60.6	3.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
32	57.4	-2.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
34	58.6	-0.3	EMISSION, FLAME	1, 2, 3, 4
35	59.2	0.7	EMISSION, IC PLASMA	3, 5
36	59.7	1.6	EMISSION, IC PLASMA	3, 5
37	57.8	-1.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
39	63.0	7.2	NOT REPORTED	
41	60.0	2.1	EMISSION, IC PLASMA	3, 5
43	53.3	-9.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
44	58.0	-1.3	EMISSION, IC PLASMA	3, 5, 3, 4
50	59.4	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
54	54.0	-8.1	EMISSION, IC PLASMA	3, 5
55	59.3	0.9	EMISSION, IC PLASMA	3, 5
57	59.1	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
59	58.2	-1.0	EMISSION, DC PLASMA	7
63	56.1	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	57.0	-3.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	56.1	-4.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	50.0	-14.9	EMISSION, IC PLASMA	3, 5
74	60.0	2.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
76	60.2	2.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
80	59.4	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
81	47.0	-20.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
83	58.8	0.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
84	60.0	2.1	EMISSION, IC PLASMA	3, 5
85	59.0	0.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
87	61.0	3.8	EMISSION, IC PLASMA	3, 5
88	61.0	3.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
89	51.0	-13.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
93	63.3	7.7	EMISSION, IC PLASMA	3, 5
97	60.4	2.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
98	55.0	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
99	60.6	3.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	57.1	-2.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	58.0	0.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
104	52.0	-11.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	57.8	-1.7	EMISSION, IC PLASMA	3, 5
106	64.0	8.9	EMISSION, IC PLASMA	3, 5
107	58.8	0.0	EMISSION, IC PLASMA	3, 5
109	58.0	-1.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	68.0	15.7	EMISSION, FLAME	7
112	63.4	-0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
113	58.3	-0.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
115	54.0	-8.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	62.0	5.5	EMISSION, FLAME	7
119	66.0	12.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

58 Labs had a total range of 47.0 to 68.0 and a mean of 58.79  
with a standard deviation of 3.81 and a 95% confidence interval of the mean +/- 1.00.

Table 10 Standard Reference Water Sample T97 Report for NI

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	11	-33.9	ATOMIC ABSORPTION, FLAMELESS	3
2	12	-27.9	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
3	< 10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	< 20		IGNORED EMISSION, IC PLASMA	3, 5, 7
5	42	152.5	EMISSION, IC PLASMA	3, 5, 7
9	16	-3.8	EMISSION, IC PLASMA	3, 5, 7
10	8	-51.9	X-RAY FLUORESCENCE	7
12	30	80.4	EMISSION, IC PLASMA	3, 5, 7
13	11	-33.9	ATOMIC ABSORPTION, FLAMELESS	3
16	10	-39.9	ATOMIC ABSORPTION, FLAMELESS	3
18	42	152.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
25	< 25		IGNORED EMISSION, IC PLASMA	3, 5, 7
26	7	-57.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
31	< 10		IGNORED EMISSION, IC PLASMA	3, 5, 7
32	< 20		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
33	15	-9.8	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1, 4
35	20	20.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
36	< 50		IGNORED EMISSION, IC PLASMA	3, 5, 7
37	< 50		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
39	< 100		IGNORED NOT REPORTED	
44	13	-21.8	ATOMIC ABSORPTION, FLAMELESS	3
50	20	20.2	ATOMIC ABSORPTION, FLAMELESS	3
52	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
54	6	-63.9	EMISSION, IC PLASMA	3, 5, 7
55	6	-63.9	ATOMIC ABSORPTION, FLAMELESS	3
56	24	44.3	EMISSION, IC PLASMA	3, 5, 7
57	33	98.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
59	13	-21.8	EMISSION, DC PLASMA	7
60	18	8.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
63	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	< 50		IGNORED EMISSION, IC PLASMA	3, 5, 7
66	20	20.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	15	-9.8	EMISSION, IC PLASMA	3, 5, 7
71	10	-39.9	EMISSION, IC PLASMA	3, 5, 7
74	< 50		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
76	10	-39.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
79	9	-45.9	ATOMIC ABSORPTION, DIRECT, AIR	7
80	12	-27.9	MASS SPECTROMETRY, IC PLASMA	2, 3
83	25	50.3	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	1, 2, 3, 4
84	13	-21.8	ATOMIC ABSORPTION, DIRECT, AIR	3, 5, 7
88	13	-21.8	EMISSION, IC PLASMA	3
89	8	-21.8	ATOMIC ABSORPTION, FLAMELESS	3
93	< 6	-51.9	ATOMIC ABSORPTION, FLAMELESS	3
95	6		IGNORED EMISSION, IC PLASMA	3, 5, 7
99	13	-21.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	14	-15.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
101	24	44.3	ATOMIC ABSORPTION, FLAMELESS	3
101	9	-45.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
102	40	140.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	11	-33.9	ATOMIC ABSORPTION, FLAMELESS	3
104	21	26.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
106	< 20		IGNORED EMISSION, IC PLASMA	3, 5, 7
107	< 100		IGNORED EMISSION, IC PLASMA	3, 5, 7
108	17	2.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	11	-33.9	ATOMIC ABSORPTION, FLAMELESS	3
115	20	20.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	< 100		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
119	10	-39.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

58 Labs had a total range of < 6 to < 100 and a mean of 16.6 with a standard deviation of 9.4 and a 95% confidence interval of the mean +/- 3.0.

Table 10 Standard Reference Water Sample T97 Report for PB

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	14	-7.3	ATOMIC ABSORPTION, FLAMELESS	3
2	13	-13.9	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
3	10	-33.8	ATOMIC ABSORPTION, FLAMELESS	3
4	< 50		IGNORED EMISSION, IC PLASMA	3,5
5	15	-0.7	MASS SPECTROMETRY, IC PLASMA,	3
6	14	-20.5	ATOMIC ABSORPTION, FLAMELESS	7
8	14	-7.3	ATOMIC ABSORPTION, FLAMELESS	3
9	23	52.3	EMISSION, IC PLASMA	3,5
10	18	19.2	X-RAY FLUORESCENCE	7
11	7	-53.7	ATOMIC ABSORPTION, FLAMELESS	3
12	22	45.7	EMISSION, IC PLASMA	3,5
13	12	-20.5	ATOMIC ABSORPTION, FLAMELESS	3
14	14	-7.3	ATOMIC ABSORPTION, FLAMELESS	3
16	48	217.8	REJECT ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
18	15	-0.7	ATOMIC ABSORPTION, FLAMELESS	3
20	30	98.6	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
21	6	-60.3	ATOMIC ABSORPTION, FLAMELESS	3
22	45		IGNORED EMISSION, IC PLASMA	3,5
25	20	32.4	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
26	10	-33.8	ATOMIC ABSORPTION, FLAMELESS	3
27	60		IGNORED EMISSION, IC PLASMA	3,5
31	< 100		IGNORED ANODIC STRIPPING VOLTAMMETRY	5
32	16	5.9	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	4
33	4	-73.5	ATOMIC ABSORPTION, FLAMELESS	3
34	18	19.2	ATOMIC ABSORPTION, FLAMELESS	3
35	14	628.3	REJECT ATOMIC ABSORPTION, FLAMELESS	3
36	110		ATOMIC ABSORPTION, FLAMELESS	3
37	14	-7.3	ATOMIC ABSORPTION, FLAMELESS	3
39	8	-47.0	NOT REPORTED	3
44	11	-27.2	ATOMIC ABSORPTION, FLAMELESS	3
50	13	-13.9	ATOMIC ABSORPTION, FLAMELESS	3
52	12	-20.5	ATOMIC ABSORPTION, FLAMELESS	3
54	12	-20.5	ATOMIC ABSORPTION, FLAMELESS	3
55	15	-0.7	ATOMIC ABSORPTION, FLAMELESS	3
56	15	-0.7	ATOMIC ABSORPTION, FLAMELESS	3
57	11	-27.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	4
59	15	-0.7	EMISSION, DC PLASMA	3
60	16	5.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
62	22	45.7	ATOMIC ABSORPTION, FLAMELESS	3
63	11	-27.2	ATOMIC ABSORPTION, FLAMELESS	3
64	< 50		IGNORED EMISSION, IC PLASMA	3,5
70	5	-66.9	EMISSION, IC PLASMA	3,5
71	12	-20.5	EMISSION, IC PLASMA	3,5
73	22	45.7	ATOMIC ABSORPTION, FLAMELESS	3
74	22	45.7	ATOMIC ABSORPTION, FLAMELESS	3
76	22	45.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	20	32.4	MASS SPECTROMETRY, IC PLASMA,	2
80	17	12.6	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	3
81	16	5.9	ATOMIC ABSORPTION, FLAMELESS	3
82	15	-0.7	MASS SPECTROMETRY, IC PLASMA,	7
83	22	45.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
84	18	19.2	ATOMIC ABSORPTION, FLAMELESS	3
85	12	-20.5	ATOMIC ABSORPTION, FLAMELESS	3
88	53	250.9	REJECT ATOMIC ABSORPTION, FLAMELESS	3
89	17	12.6	ATOMIC ABSORPTION, FLAMELESS	3
93	< 37		IGNORED EMISSION, IC PLASMA	3,5
95	35	131.7	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
97	15	-0.7	ATOMIC ABSORPTION, FLAMELESS	3
99	14	-7.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	14	-7.3	ATOMIC ABSORPTION, FLAMELESS	3
101	15	-0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	11	-27.2	ATOMIC ABSORPTION, FLAMELESS	3
103	12	-20.5	ATOMIC ABSORPTION, FLAMELESS	3
104	29	92.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	< 50		IGNORED EMISSION, IC PLASMA	3,5
107	< 100		IGNORED EMISSION, IC PLASMA	3,5
108	16	5.9	ATOMIC ABSORPTION, FLAMELESS	3
111	18	19.2	ATOMIC ABSORPTION, FLAMELESS	3
112	7	-53.7	ATOMIC ABSORPTION, FLAMELESS	3
115	< 10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	< 500		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
117	18	19.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
119	19	25.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

72 Labs had a total range of 4 to < 500 and a mean of 15.1 with a standard deviation of 5.3 and a 95% confidence interval of the mean +/- 1.4.

Table 10 Standard Reference Water Sample T97 Report for SB

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	9	-38.3	ATOMIC ABSORPTION, HYDRIDE	2,4
2	11	-24.6	ATOMIC ABSORPTION, HYDRIDE	2,4
3	11	-24.6	ATOMIC ABSORPTION, FLAMELESS	3
4	< 100		IGNORED EMISSION, IC PLASMA	
9	10	-31.5	EMISSION, IC PLASMA	
16	15	2.8	ATOMIC ABSORPTION, FLAMELESS	3
18	< 50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
25	< 350		IGNORED EMISSION, IC PLASMA	
32	< 200		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
35	39	167.3	ATOMIC ABSORPTION, DIRECT, AIR	1,3
36	3	-79.4	ATOMIC ABSORPTION, FLAMELESS	3
39	< 500		IGNORED NOT REPORTED	
44	30	105.6	ATOMIC ABSORPTION, HYDRIDE	2,4
52	35	139.9	ATOMIC ABSORPTION, FLAMELESS	3
57	6	-58.9	ATOMIC ABSORPTION, FLAMELESS	3
64	< 100		IGNORED EMISSION, IC PLASMA	
79	14	-4.0	MASS SPECTROMETRY, IC PLASMA	7
80	8	-45.2	ATOMIC ABSORPTION, HYDRIDE	2,4
82	11	-24.6	MASS SPECTROMETRY, IC PLASMA	7
84	< 25		IGNORED EMISSION, IC PLASMA	
88	11	-24.6	ATOMIC ABSORPTION, FLAMELESS	3
97	10	-31.5	ATOMIC ABSORPTION, FLAMELESS	3
106	< 40		IGNORED EMISSION, IC PLASMA	
111	12	-17.7	ATOMIC ABSORPTION, FLAMELESS	3
115	< 200		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
116	< 500		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
119	13	-10.9	ATOMIC ABSORPTION, FLAMELESS	3

27 Labs had a total range of 3 to < 500 and a mean of 14.6 with a standard deviation of 10.1 and a 95% confidence interval of the mean +/- 5.2.

Table 10 Standard Reference Water Sample T97 Report for SE

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	18.4	27.0	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
2	17.0	17.4	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
3	19.0	31.2	ATOMIC ABSORPTION, FLAMELESS	3
4	18.0	24.3	ATOMIC ABSORPTION, FLAMELESS	3
5	19.8	36.7	OTHER	
6	19.0	31.2	ATOMIC ABSORPTION, FLAMELESS	3
8	13.0	-10.2	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
9	24.0	65.7	EMISSION, IC PLASMA	3
10	14.0	-3.3	X-RAY FLUORESCENCE	7
11	3.7	-74.5	OTHER	
13	15.0	3.6	ATOMIC ABSORPTION, FLAMELESS	3
16	16.0	10.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
18	16.7	15.3	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
20	17.0	17.4	ATOMIC ABSORPTION, FLAMELESS	3
21	20.1	38.8	ATOMIC ABSORPTION, FLAMELESS	3
22	15.0	3.6	ATOMIC ABSORPTION, FLAMELESS	3
25	13.7	-5.4	ATOMIC ABSORPTION, FLAMELESS	3
27	6.3	-56.5	ATOMIC ABSORPTION, FLAMELESS	3
32	16.0	10.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
34	2.7	-81.4	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
35	17.5	20.8	ATOMIC ABSORPTION, FLAMELESS	3
36	15.0	3.6	ATOMIC ABSORPTION, FLAMELESS	3
37	15.8	9.1	ATOMIC ABSORPTION, FLAMELESS	3
39	13.9	-4.0	NOT REPORTED	
41	14.1	-2.6	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
43	4.8	-66.9	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
44	16.5	13.9	ATOMIC ABSORPTION, FLAMELESS	3
50	16.4	13.2	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
52	19.0	31.2	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
55	16.0	10.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
56	16.0	10.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
57	9.5	-34.4	ATOMIC ABSORPTION, FLAMELESS	3
59	< 20.0		IGNORED EMISSION, DC PLASMA	7
62	9.2	-36.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
63	2.7	-81.4	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
69	26.0	79.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
70	60.0	314.3	REJECT EMISSION, IC PLASMA	3
71	14.4	-0.6	EMISSION, IC PLASMA	3
74	15.2	5.0	ATOMIC ABSORPTION, FLAMELESS	3
76	14.0	-3.3	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
79	5.4	-62.7	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
80	18.0	24.3	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
84	16.0	10.5	ATOMIC ABSORPTION, FLAMELESS	3
85	17.0	17.4	ATOMIC ABSORPTION, FLAMELESS	3
88	19.0	31.2	ATOMIC ABSORPTION, FLAMELESS	3
89	7.5	-48.2	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
97	15.8	9.1	ATOMIC ABSORPTION, FLAMELESS	3
99	17.5	20.8	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
100	7.2	-50.3	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
102	11.0	-24.0	ATOMIC ABSORPTION, FLAMELESS	3
103	16.5	13.9	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
106	< 50.0		IGNORED EMISSION, IC PLASMA	
109	14.0	-3.3	ATOMIC ABSORPTION, FLAMELESS	3
111	17.8	22.9	OTHER	
115	< 5.0		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
116	10.0	-31.0	ATOMIC ABSORPTION, FLAMELESS	3
119	84.0	480.0	REJECT ATOMIC ABSORPTION, FLAMELESS	3

57 Labs had a total range of 2.7 to 84.0 and a mean of 14.48 with a standard deviation of 5.08 and a 95% confidence interval of the mean +/- 1.41.

Table 10 Standard Reference Water Sample T97 Report for SIO2

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	7.2	5.6	EMISSION, IC PLASMA	5
2	7.0	2.6	EMISSION, IC PLASMA	5
3	6.0	-12.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
9	7.3	7.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
10	6.4	-6.2	X-RAY FLUORESCENCE	7
11	6.2	-9.1	COLORIMETRIC, MOLYBDOSILICIC ACID	1, 2, 3
16	4.4	-35.5	COLORIMETRIC, MOLYBDOSILICIC ACID	1, 2, 3
18	7.0	2.6	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID	3
28	7.4	8.5	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID	3
32	6.6	-3.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
34	6.6	-3.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
35	7.2	5.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
36	6.4	-6.2	COLORIMETRIC, MOLYBDOSILICIC ACID	4
40	7.0	2.6	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID	1, 2, 3
41	7.0	2.6	EMISSION, IC PLASMA	3
44	6.2	-9.1	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	5
55	7.0	2.6	EMISSION, IC PLASMA	4
63	8.3	21.7	COLORIMETRIC, MOLYBDOSILICIC ACID	5
64	3.0	-56.0	REJECT EMISSION, IC PLASMA	1, 2, 3
70	10.5	54.0	REJECT EMISSION, IC PLASMA	5
74	5.6	-17.9	COLORIMETRIC, MOLYBDOSILICIC ACID	5
80	4.9	-28.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1, 2, 3
84	7.1	4.1	EMISSION, IC PLASMA	4
85	6.7	-1.8	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	5
87	7.3	7.0	EMISSION, IC PLASMA	4
88	8.6	26.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	5
89	7.4	2.6	COLORIMETRIC, MOLYBDOSILICIC ACID	4
93	7.3	8.3	EMISSION, IC PLASMA	1, 2, 3
100	7.3	7.0	EMISSION, IC PLASMA	5
107	5.5	-19.3	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID	3
108	7.3	7.0	EMISSION, IC PLASMA	5
109	7.5	10.0	COLORIMETRIC, MOLYBDOSILICIC ACID	1, 2, 3
112	10.5	54.0	REJECT COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
115	8.0	17.3	REJECT COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4
120	13.3	95.0	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
			COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	4

35 Labs had a total range of 3.0 to 13.3 and a mean of 6.82 with a standard deviation of 0.90 and a 95% confidence interval of the mean +/- 0.33.

Table 10 Standard Reference Water Sample T97 Report for SR

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	500	-2.0	EMISSION, IC PLASMA	3, 5
2	520	2.0	EMISSION, IC PLASMA	3, 5
3	520	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
5	530	3.9	MASS SPECTROMETRY, IC PLASMA	7
9	520	2.0	EMISSION, IC PLASMA	3, 5
10	400	-21.6	X-RAY FLUORESCENCE	3, 5
12	520	2.0	EMISSION, IC PLASMA	3, 5
31	490	-3.9	EMISSION, IC PLASMA	3, 5
32	430	-15.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
35	520	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
36	500	-2.0	EMISSION, IC PLASMA	3, 5
41	490	-3.9	EMISSION, IC PLASMA	3, 5
54	490	-3.9	EMISSION, IC PLASMA	3, 5
64	350	-31.4	REJECT EMISSION, IC PLASMA	3, 5
70	550	7.8	MASS SPECTROMETRY, IC PLASMA	3, 5
76	530	3.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
79	570	11.8	MASS SPECTROMETRY, IC PLASMA	7
80	500	-2.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
82	530	3.9	MASS SPECTROMETRY, IC PLASMA	7
84	520	2.0	EMISSION, IC PLASMA	3, 5
85	50	-90.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
87	530	3.9	EMISSION, DC PLASMA	7
88	500	-2.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
89	470	-7.8	ATOMIC ABSORPTION, FLAMELESS	1, 2, 4
93	540	5.9	EMISSION, IC PLASMA	3, 5
97	730	43.1	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
106	540	5.9	MASS SPECTROMETRY, IC PLASMA	7
107	440	-13.7	EMISSION, IC PLASMA	3, 5
109	500	-2.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
112	570	11.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4
119	560	9.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 4

31 Labs had a total range of 50 to 730 and a mean of 510 with a standard deviation of 39 and a 95% confidence interval of the mean +/- 15.

Table 10 Standard Reference Water Sample T97 Report for V

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	6	-40.0		3,5
2	< 10		IGNORED	3,5
3	21	110.0	ATOMIC ABSORPTION, FLAMELESS	3,5
5	6	-40.0	EMISSION, IC PLASMA	3,5
9	7	-30.0	EMISSION, IC PLASMA	3,5
10	14	40.0	X-RAY FLUORESCENCE	7
12	6	-40.0	EMISSION, IC PLASMA	3,5
25	< 10		IGNORED	3,5
31	< 10		IGNORED	3,5
32	< 100		IGNORED	1,3
35	10	0.0	EMISSION, IC PLASMA	3,5
36	< 100		IGNORED	3,5
41	7	-30.0	EMISSION, IC PLASMA	3,5
44	< 10		IGNORED	3,5
54	7	-30.0	EMISSION, IC PLASMA	3,5
64	41	310.0	REJECT	3,5
70	12	20.0	EMISSION, IC PLASMA	3,5
76	< 200		IGNORED	1,3
79	81	710.0	REJECT	7
80	300	2900.0	REJECT	1,3
84	8	-20.0	EMISSION, IC PLASMA	3,5
88	9	-10.0	ATOMIC ABSORPTION, FLAMELESS	3
89	13	30.0	ATOMIC ABSORPTION, FLAMELESS	3
93	< 2		IGNORED	3,5
97	8	-20.0	ATOMIC ABSORPTION, FLAMELESS	3
106	7	-30.0	EMISSION, IC PLASMA	3,5
107	< 10		IGNORED	3,5
115	< 200		IGNORED	1,3
119	19	90.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3

29 Labs had a total range of < 2 to 300 and a mean of 10.0 with a standard deviation of 4.6 and a 95% confidence interval of the mean +/- 2.5.

Table 10 Standard Reference Water Sample T97 Report for ZN

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	153	-2.2	EMISSION, IC PLASMA	3, 5
2	155	-0.9	EMISSION, IC PLASMA	3, 5
3	162	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	160	2.3	EMISSION, IC PLASMA	3, 5
5	152	-2.8	OTHER	
8	189	20.8	ATOMIC ABSORPTION, FLAMELESS	3
9	150	-4.1	EMISSION, IC PLASMA	3, 5
10	131	-16.2	X-RAY FLUORESCENCE	7
11	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
12	165	5.5	EMISSION, IC PLASMA	3, 5
13	200	27.9	ATOMIC ABSORPTION, FLAMELESS	
18	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
20	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
21	140	-10.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
22	152	-2.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
25	156	-0.3	EMISSION, IC PLASMA	3, 5
26	157	0.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
31	158	1.0	EMISSION, IC PLASMA	3, 5
32	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
33	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
34	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
35	173	10.6	EMISSION, IC PLASMA	3, 5
36	140	-10.5	EMISSION, IC PLASMA	3, 5
37	156	-0.3	ATOMIC ABSORPTION, FLAMELESS	3, 5
39	147	-6.0	NOT REPORTED	
40	158	1.0	ANODIC STRIPPING VOLTAMMETRY	
41	146	-6.7	EMISSION, IC PLASMA	3, 5
43	148	-5.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
44	148	-10.5	EMISSION, IC PLASMA	3, 5
50	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
52	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
54	210	34.3	REJECT	
55	153	-2.2	EMISSION, IC PLASMA	3, 5
56	136	-13.0	EMISSION, IC PLASMA	3, 5
57	170	8.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
60	142	-9.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
62	164	4.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
63	141	-9.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	140	-10.5	EMISSION, IC PLASMA	3, 5
66	151	-3.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	150	-4.1	EMISSION, IC PLASMA	3, 5
71	178	13.8	EMISSION, IC PLASMA	3, 5
73	160	2.3	ATOMIC ABSORPTION, FLAMELESS	
74	< 50		IGNORED	
76	148	-5.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
79	193	23.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
80	160	2.3	MASS SPECTROMETRY, IC PLASMA	1, 2, 3, 4
81	300	91.8	REJECT	
82	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
83	156	-0.3	MASS SPECTROMETRY, IC PLASMA	1, 2, 3, 4
84	153	-2.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
85	140	-10.5	EMISSION, IC PLASMA	3, 5
87	155	-0.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
88	230	47.1	REJECT	
89	139	-11.1	ATOMIC ABSORPTION, FLAMELESS	3, 5
93	168	7.4	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
95	160	2.3	EMISSION, IC PLASMA	3, 5
97	155	-0.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
99	151	-3.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
100	154	-1.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
101	127	-18.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
102	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	158	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
104	180	15.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	146	-6.7	EMISSION, IC PLASMA	3, 5
106	160	2.3	EMISSION, IC PLASMA	3, 5
107	200	27.9	EMISSION, IC PLASMA	3, 5
108	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
111	150	-4.1	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
115	160	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
116	200	27.9	ANODIC STRIPPING VOLTAMMETRY	
117	129	-17.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
119	167	6.8	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

73 Labs had a total range of < 50 to 300 and a mean of 156.4 with a standard deviation of 15.3 and a 95% confidence interval of the mean +/- 3.7.

Table 11. Statistics by method for standard reference sample T97

Determination	Method	Range:		Mean	Standard Deviation	N
		from	to			
ACID@CACO3	TITRATION, COLORIMETRIC	770.000	900.000	840.000	48.990	6
	TITRATION, ELECTROMETRIC	780.000	1100.000	847.692	36.777	13
	OVER-ALL	770.000	1100.000	845.263	39.773	19
AG	ATOMIC ABSORPTION, DIRECT, AIR	7.000	50.000	8.969	1.582	13
	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	2.000	8.000	5.875	2.658	4
	ATOMIC ABSORPTION, FLAMELESS	0.100	50.000	7.213	1.590	23
	EMISSION, IC PLASMA	2.000	20.000	6.000	2.208	4
	OVER-ALL	0.100	50.000	7.420	2.017	46
AL	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	100.000	500.000	137.500	28.158	8
	ATOMIC ABSORPTION, DIRECT, FLAMELESS	80.000	340.000	146.667	45.552	9
	EMISSION, IC PLASMA	10.000	210.000	110.000	48.990	14
	OVER-ALL	10.000	1000.000	129.500	43.498	40
AS	ATOMIC ABSORPTION, FLAMELESS	7.000	17.000	10.885	1.602	27
	ATOMIC ABSORPTION, HYDRIDE, (NABH4)	1.800	15.000	11.405	1.603	19
	OVER-ALL	1.800	250.000	11.129	2.105	55
B	COLORIMETRIC, CURCUMIN	72.000	810.000	296.286	275.240	7
	EMISSION, IC PLASMA	350.000	550.000	400.154	26.134	13
	OVER-ALL	72.000	1000.000	385.871	153.624	31
BA	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	80.000	500.000	113.688	33.931	16
	ATOMIC ABSORPTION, FLAMELESS	40.000	190.000	123.250	44.208	12
	EMISSION, IC PLASMA	69.000	106.000	94.350	6.862	20
	OVER-ALL	40.000	500.000	105.833	30.940	54
CA	ATOMIC ABSORPTION, DIRECT, AIR	46.000	62.900	54.639	4.028	28
	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	50.000	57.000	52.450	2.410	8
	EMISSION, IC PLASMA	32.600	60.000	55.422	2.304	18
	OVER-ALL	30.000	62.900	54.807	3.418	56
CD	ATOMIC ABSORPTION, DIRECT, AIR	10.000	50.000	16.050	2.762	20
	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	13.000	25.000	17.750	5.252	4
	ATOMIC ABSORPTION, FLAMELESS	4.000	21.000	16.000	3.063	27
	EMISSION, IC PLASMA	10.000	22.000	17.083	3.088	12
	OVER-ALL	4.000	50.000	16.310	3.073	71
CO	ATOMIC ABSORPTION, DIRECT, AIR	10.000	100.000	11.000	1.000	3
	ATOMIC ABSORPTION, FLAMELESS	2.000	42.000	5.000	2.191	6
	EMISSION, IC PLASMA	3.000	60.000	5.000	0.000	4
	OVER-ALL	2.000	100.000	10.560	11.847	25
CR TOT	ATOMIC ABSORPTION, DIRECT, AIR	15.000	50.000	27.533	6.760	15
	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	25.000	28.000	26.667	1.528	3
	ATOMIC ABSORPTION, FLAMELESS	20.000	39.000	27.464	4.811	28
	EMISSION, IC PLASMA	20.000	50.000	24.786	3.468	14
	OVER-ALL	15.000	50.000	26.735	5.205	68
CU	ATOMIC ABSORPTION, DIRECT, AIR	14.000	50.000	18.269	2.255	26
	ATOMIC ABSORPTION, FLAMELESS	8.000	430.000	16.667	3.869	12
	EMISSION, IC PLASMA	3.000	22.000	15.929	3.050	14
	MASS SPECTROMETRY, IC PLASMA	15.000	19.000	17.000	2.000	3
	OVER-ALL	3.000	430.000	17.049	2.986	61
FE	ATOMIC ABSORPTION, DIRECT, AIR	50.000	500.000	103.250	10.749	32
	EMISSION, IC PLASMA	80.000	120.000	100.080	10.074	25
	OVER-ALL	30.000	1100.000	99.734	12.484	64
HG	ATOMIC ABSORPTION, FLAMELESS, GOLD VAPOR	0.200	2.400	0.928	0.202	42
	OVER-ALL	0.200	4.000	0.927	0.196	45
K	ATOMIC ABSORPTION, DIRECT, AIR	0.500	12.900	3.580	0.315	35
	EMISSION, FLAME, PHOTOMETRIC	3.700	5.000	4.400	0.572	4
	EMISSION, IC PLASMA	2.400	4.000	3.380	0.514	10
	OVER-ALL	0.500	12.900	3.610	0.467	52
LI	ATOMIC ABSORPTION, DIRECT, AIR	32.000	63.000	46.000	8.958	9
	EMISSION, IC PLASMA	45.000	1000.000	47.625	2.446	8
	OVER-ALL	32.000	1000.000	47.550	7.007	20
MG	ATOMIC ABSORPTION, DIRECT, AIR	9.600	42.000	18.503	1.198	30
	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	18.200	19.100	18.675	0.403	4
	EMISSION, IC PLASMA	18.900	24.000	19.331	0.480	16
	OVER-ALL	4.000	42.000	18.813	1.128	54
MN	ATOMIC ABSORPTION, DIRECT, AIR	14.000	50.000	30.897	5.589	29
	ATOMIC ABSORPTION, FLAMELESS	24.000	50.000	31.818	4.792	11
	EMISSION, IC PLASMA	26.000	33.000	30.455	1.224	22
	OVER-ALL	14.000	50.000	30.739	4.348	69
MO	ATOMIC ABSORPTION, FLAMELESS	10.000	50.000	35.250	3.240	8
	EMISSION, IC PLASMA	6.000	42.000	34.917	3.848	12
	OVER-ALL	6.000	500.000	36.192	4.535	26
NA	ATOMIC ABSORPTION, DIRECT, AIR	47.000	66.000	58.358	3.188	33
	EMISSION, FLAME	58.600	68.000	62.867	4.760	3
	EMISSION, IC PLASMA	50.000	67.500	59.350	3.749	18
	OVER-ALL	47.000	68.000	58.788	3.812	58
NI	ATOMIC ABSORPTION, DIRECT, AIR	7.000	100.000	19.938	10.542	16
	ATOMIC ABSORPTION, FLAMELESS	6.000	50.000	12.545	5.165	11
	EMISSION, IC PLASMA	6.000	100.000	19.500	11.856	8
	OVER-ALL	6.000	100.000	16.634	9.399	41



Table 11. Statistics by method for standard reference sample T97

Determin- ation	Method	Range:		Mean	Standard Deviation	N
		from	to			
PB	ATOMIC ABSORPTION, DIRECT, AIR	10.000	- 500.000	20.778	5.718	9
	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	11.000	- 18.000	14.500	3.109	4
	ATOMIC ABSORPTION, FLAMELESS	4.000	- 110.000	13.559	4.265	34
	EMISSION, IC PLASMA	5.000	- 100.000	15.500	8.583	4
	_OVER-ALL_	4.000	- 500.000	15.103	5.251	58
SB	ATOMIC ABSORPTION, FLAMELESS	3.000	- 35.000	10.125	3.871	8
	ATOMIC ABSORPTION, HYDRIDE	8.000	- 30.000	9.333	1.528	3
	_OVER-ALL_	3.000	- 500.000	14.588	10.112	17
SE	ATOMIC ABSORPTION, FLAMELESS	5.000	- 84.000	15.245	3.451	22
	ATOMIC ABSORPTION, HYDRIDE	2.700	- 26.000	13.483	5.959	23
	OTHER	3.700	- 19.800	13.767	8.775	3
	_OVER-ALL_	2.700	- 84.000	14.483	5.076	52
SIO2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4.900	- 8.600	6.843	1.235	7
	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE	6.200	- 13.300	6.733	0.551	3
	COLORIMETRIC, MOLYBDO-SILICIC ACID	4.400	- 8.300	6.457	1.254	7
	COLORIMETRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	7.000	- 7.400	7.175	0.206	4
	EMISSION, IC PLASMA	3.000	- 10.500	7.143	0.162	7
	_OVER-ALL_	3.000	- 13.300	6.819	0.895	31
SR	ATOMIC ABSORPTION, DIRECT, AIR	50.000	- 730.000	514.444	40.654	9
	EMISSION, IC PLASMA	350.000	- 540.000	509.000	17.288	10
	MASS SPECTROMETRY, IC PLASMA	530.000	- 570.000	544.000	16.733	5
	_OVER-ALL_	50.000	- 730.000	510.000	39.441	28
V	ATOMIC ABSORPTION, FLAMELESS	8.000	- 21.000	12.750	5.909	4
	EMISSION, IC PLASMA	2.000	- 100.000	7.600	1.955	10
	_OVER-ALL_	2.000	- 300.000	10.000	4.648	16
ZN	ATOMIC ABSORPTION, DIRECT, AIR	50.000	- 300.000	153.361	10.773	36
	ATOMIC ABSORPTION, FLAMELESS	156.000	- 230.000	176.250	21.608	4
	EMISSION, IC PLASMA	136.000	- 210.000	154.048	11.007	21
	_OVER-ALL_	50.000	- 300.000	156.406	15.267	69

Table 12 Standard Reference Water Sample N17 Report for NH3-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 0.01		IGNORED	COLORIMETRIC, PHENATE
3	< 0.05		IGNORED	COLORIMETRIC, PHENATE
4	< 0.10		IGNORED	COLORIMETRIC, PHENATE
9	< 0.02		IGNORED	COLORIMETRIC, PHENATE
13	0.06	-19.1	IGNORED	COLORIMETRIC, DISTILLATION, NESSLERIZATION
15	0.32	331.3	IGNORED	ION SELECTIVE ELECTRODE
18	0.01	-86.5	IGNORED	COLORIMETRIC, PHENATE
20	< 0.01		IGNORED	COLORIMETRIC, PHENATE
23	< 0.50		IGNORED	COLORIMETRIC, INDOPHENOL
25	0.31	317.8	IGNORED	ION SELECTIVE ELECTRODE
26	0.05	-32.6	IGNORED	OTHER
28	< 0.10		IGNORED	COLORIMETRIC, DISTILLATION, NESSLERIZATION
29	< 0.01		IGNORED	COLORIMETRIC, PHENATE
33	0.04	-46.1	IGNORED	COLORIMETRIC, INDOPHENOL
34	0.06	-19.1	IGNORED	ION SELECTIVE ELECTRODE
35	< 0.02		IGNORED	COLORIMETRIC, PHENATE
37	< 0.05		IGNORED	COLORIMETRIC, PHENATE
40	0.17	129.1	IGNORED	COLORIMETRIC, DISTILLATION, NESSLERIZATION
42	< 0.02		IGNORED	COLORIMETRIC, PHENATE
44	0.02	-73.0	IGNORED	COLORIMETRIC, PHENATE
46	0.05	-32.6	IGNORED	COLORIMETRIC, PHENATE
47	0.07	-5.7	IGNORED	COLORIMETRIC, PHENATE
49	0.03	-59.6	IGNORED	COLORIMETRIC, PHENATE
50	0.03	-59.6	IGNORED	ION SELECTIVE ELECTRODE
51	0.12	61.7	IGNORED	COLORIMETRIC, DISTILLATION, NESSLERIZATION
52	< 0.05		IGNORED	ION SELECTIVE ELECTRODE
55	< 0.10		IGNORED	ION SELECTIVE ELECTRODE
56	0.11	48.2	IGNORED	ION SELECTIVE ELECTRODE
59	0.04	-46.1	IGNORED	ION SELECTIVE ELECTRODE
60	0.02	-73.0	IGNORED	COLORIMETRIC, PHENATE
61	0.01	-86.5	IGNORED	COLORIMETRIC, PHENATE
62	0.01	-86.5	IGNORED	ION SELECTIVE ELECTRODE
64	< 0.10		IGNORED	ION SELECTIVE ELECTRODE
69	< 0.05		IGNORED	ION SELECTIVE ELECTRODE
71	0.02	-73.0	IGNORED	OTHER
73	0.01	-86.5	IGNORED	OTHER
74	0.01	-86.5	IGNORED	OTHER
76	0.01	-86.5	IGNORED	OTHER
79	< 0.01		IGNORED	COLORIMETRIC, PHENATE
80	0.09	21.3	IGNORED	COLORIMETRIC, PHENATE
81	0.03	-59.6	IGNORED	COLORIMETRIC, INDOPHENOL
83	0.20	169.5	IGNORED	ION SELECTIVE ELECTRODE
85	0.01	-86.5	IGNORED	ION SELECTIVE ELECTRODE
89	0.03	-59.6	IGNORED	COLORIMETRIC, INDOPHENOL
95	0.44	493.0	REJECT	COLORIMETRIC, PHENATE
96	0.06	-19.1	REJECT	COLORIMETRIC, DISTILLATION, NESSLERIZATION
98	0.04	-46.1	REJECT	ION SELECTIVE ELECTRODE
99	0.11	48.2	REJECT	COLORIMETRIC, PHENATE
100	< 0.01		REJECT	COLORIMETRIC, DISTILLATION, NESSLERIZATION
101	0.30	304.3	REJECT	COLORIMETRIC, INDOPHENOL
111	< 0.10		REJECT	COLORIMETRIC, DISTILLATION, NESSLERIZATION
115	0.06	-19.1	REJECT	COLORIMETRIC, PHENATE
116	0.02	-73.0	REJECT	OTHER
117	0.03	-59.6	REJECT	COLORIMETRIC, PHENATE
119	0.11	48.2	REJECT	COLORIMETRIC, DISTILLATION, NESSLERIZATION
123	< 0.01		REJECT	COLORIMETRIC, DISTILLATION, NESSLERIZATION
			IGNORED	COLORIMETRIC, PHENATE

56 Labs had a total range of < 0.01 to < 0.50 and a mean of 0.074 with a standard deviation of 0.085 and a 95% confidence interval of the mean +/- 0.029.

Table 12 Standard Reference Water Sample N17 Report for NO2-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
3	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
4	0.04	-27.1	COLORIMETRIC, DIAZOTIZATION	1,3,4
15	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
16	0.07	27.5	COLORIMETRIC, DIAZOTIZATION	1,3,4
17	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
18	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
20	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
23	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
25	< 0.50		IGNORED	1,3,4
26	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
27	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
29	0.03	-45.4	REJECT	1,3,4
33	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
34	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
35	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
36	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
37	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
40	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
42	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
44	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
47	0.57	938.3	REJECT	1,3,4
50	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
52	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
53	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
55	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
56	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
57	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
61	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
62	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
64	0.20	264.3	REJECT	1,3,4
69	0.04	-27.1	COLORIMETRIC, DIAZOTIZATION	1,3,4
73	0.07	27.5	COLORIMETRIC, DIAZOTIZATION	1,3,4
74	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
76	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
79	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
81	0.06	-9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
83	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
85	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
89	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
95	0.10	82.1	REJECT	1,3,4
96	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
98	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
99	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
100	0.05	-8.9	OTHER	1,3,4
101	0.04	-27.1	COLORIMETRIC, DIAZOTIZATION	1,3,4
108	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
111	< 0.02		IGNORED	1,3,4
112	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4
115	0.05	-8.9	COLORIMETRIC, DIAZOTIZATION	1,3,4
116	0.06	9.3	COLORIMETRIC, DIAZOTIZATION	1,3,4

51 Labs had a total range of < 0.02 to 0.57 and a mean of 0.055 with a standard deviation of 0.007 and a 95% confidence interval of the mean +/- 0.002.

Table 12 Standard Reference Water Sample N17 Report for NO3-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.05	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
3	1.10	8.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
4	1.07	5.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
13	1.42	39.6	OTHER	
15	0.49	-51.8	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
16	1.00	-1.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
17	1.13	11.1	COLORIMETRIC, BRUCINE	1,2,3,4
18	1.12	10.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
20	1.17	15.0	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
23	1.05	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
25	1.30	27.8	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
26	1.06	4.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
27	0.95	-6.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
29	1.07	5.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
33	0.96	-5.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
34	1.00	-1.7	COLORIMETRIC, BRUCINE	1,2,3,4
35	1.07	5.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
36	1.05	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
37	1.35	32.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
40	1.06	4.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
41	1.07	5.2	ION CHROMATOGRAPHY	2,3,6,7
42	1.10	8.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
44	1.00	-1.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
45	1.00	-1.7	OTHER	
46	1.08	6.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
47	0.32	-68.6	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
49	1.02	0.2	OTHER	
50	1.01	-0.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
51	0.99	-2.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
52	1.05	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
55	1.09	7.1	COLORIMETRIC, BRUCINE	1,2,3,4
56	1.01	-0.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
57	1.02	0.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
59	1.66	63.1	ION SELECTIVE ELECTRODE	1,2,3,4
60	0.86	-15.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
61	1.02	0.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
62	1.06	4.2	ION CHROMATOGRAPHY	2,3,6,7
64	0.40	-60.7	COLORIMETRIC, BRUCINE	1,2,3,4
69	1.26	23.8	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
72	1.15	13.0	COLORIMETRIC, BRUCINE	1,2,3,4
73	1.20	17.9	ION CHROMATOGRAPHY	2,3,6,7
74	0.83	-18.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
76	1.01	-0.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
79	0.97	-4.7	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
80	0.28	-72.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
81	0.63	-38.1	COLORIMETRIC, BRUCINE	1,2,3,4
83	0.97	-4.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
85	1.04	2.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
88	1.54	51.4	COLORIMETRIC, BRUCINE	1,2,3,4
89	1.06	4.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
92	0.30	-70.5	OTHER	
95	1.30	27.8	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
96	1.00	-1.7	COLORIMETRIC, DEVARDA'S ALLOY REDUCTION, DIAZOTIZATION	1
97	0.96	-5.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
98	1.10	8.1	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
99	1.03	1.2	OTHER	
100	1.00	-1.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
101	0.75	-26.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
103	1.10	8.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
108	1.03	1.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
111	1.15	13.0	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
112	1.00	-1.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
115	1.08	6.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
116	1.11	9.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
117	1.04	2.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
119	0.98	-3.7	ION CHROMATOGRAPHY	2,3,6,7
123	1.07	5.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4

67 Labs had a total range of 0.28 to 1.66 and a mean of 1.018 with a standard deviation of 0.242 and a 95% confidence interval of the mean +/- 0.059.

Table 12 Standard Reference Water Sample N17 Report for ORG-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.68	72.9		
3	2.27	477.3		
4	< 0.30		REJECT	
9	0.26	-33.9	IGNORED	
15	0.26	-33.9		
17	0.06	-84.7		
18	0.36	-8.4		
23	< 0.50		IGNORED	
25	0.75	90.7		
26	0.37	-5.9		
33	0.46	17.0		
35	0.75	90.7		
44	0.10	-74.6		
46	0.50	27.2		
47	0.53	34.8		
50	0.17	-56.8		
52	0.20	-49.1		
55	0.51	29.7		
56	2.54	546.0	REJECT	
60	0.54	37.3		
61	0.27	-31.3		
74	0.19	-51.7		
76	0.70	78.0		
79	0.44	11.9		
83	0.26	-33.9		
89	0.39	-0.8		
95	0.16	-59.3		
99	0.30	-23.7		
100	0.35	-11.0		
101	< 0.50		IGNORED	
111	0.55	39.9		
112	1.18	200.1	REJECT	
115	0.37	-5.9		
116	2.08	429.0	REJECT	
119	1.36	245.9	REJECT	
123	0.53	34.8	OTHER	

36 Labs had a total range of 0.06 to 2.54 and a mean of 0.393 with a standard deviation of 0.193 and a 95% confidence interval of the mean +/- 0.075.

Table 12 Standard Reference Water Sample N17 Report for P, TOTAL

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.37	-9.6		
3	0.40	-2.3		
4	0.45	9.9		
9	0.41	0.1		
15	0.28	-31.6		
16	0.64	56.3	REJECT	
17	0.50	22.1		
18	0.39	-4.8		
23	0.42	2.6		
25	0.35	-14.5		
26	0.50	22.1		
29	0.43	5.0		
35	0.45	9.9		
37	0.23	-43.8		
40	0.30	-26.7		
41	0.41	0.1		
44	0.42	2.6		
46	0.30	-26.7		
47	0.37	-9.6		
51	0.46	12.3		
52	0.32	-21.9		
55	0.40	-2.3		
56	0.41	0.1		
57	0.40	-2.3		
59	0.40	-2.3		
60	1.04	154.0	REJECT	
61	0.42	2.6		
64	0.44	7.4		
69	0.42	2.6		
70	0.50	22.1		
71	0.43	5.0		
74	0.54	31.9		
76	0.43	5.0		
77	0.41	0.1		
79	0.41	0.1		
80	0.46	12.3		
81	0.58	41.6		
83	0.44	7.4		
88	0.42	2.6		
89	0.41	0.1		
95	0.36	-12.1		
96	0.36	-12.1		
97	0.46	12.3		
98	0.42	2.6		
99	0.30	-26.7		
100	0.42	2.6		
101	0.41	0.1		
105	0.43	5.0		
108	0.44	7.4		
111	0.39	-4.8		
112	0.39	-4.8		
115	0.42	2.6		
116	0.40	-2.3		
117	0.40	-2.3		
119	0.41	0.1		
123	0.41	0.1		

58 Labs had a total range of 0.23 to 1.04 and a mean of 0.410 with a standard deviation of 0.065 and a 95% confidence interval of the mean +/- 0.017.

Table 12 Standard Reference Water Sample N17 Report for PO4-P

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.20	-15.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
3	0.24	1.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
4	0.18	-24.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
13	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
16	0.51	115.2	REJECT	1, 2, 3, 4
17	0.35	47.7	REJECT	1, 2, 3, 4
18	0.34	1.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
23	0.24	1.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
25	0.44	26.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
26	0.30	85.7	REJECT	1, 2, 3, 4
27	0.31	30.8	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
29	0.26	9.7	OTHER	1, 2, 3, 4
33	0.49	106.8	REJECT	1, 2, 3, 4
34	0.31	30.8	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
35	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
37	0.52	119.4	REJECT	1, 2, 3, 4
40	0.20	-15.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
41	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
44	0.20	-15.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
46	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
47	0.23	-3.0	NOT REPORTED	1, 2, 3, 4
49	0.07	-70.5	REJECT	1, 2, 3, 4
52	0.26	9.7	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
55	0.21	-11.4	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
56	0.19	-19.8	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
57	0.28	18.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
60	0.18	-24.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
61	0.42	77.2	REJECT	1, 2, 3, 4
62	0.23	-3.0	ION CHROMATOGRAPHY	2, 3, 6
64	0.21	-11.4	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
69	0.28	18.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
71	0.21	-11.4	OTHER	1, 2, 3, 4
73	0.21	-11.4	ION CHROMATOGRAPHY	2, 3, 6
74	0.22	-7.2	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
76	0.22	-7.2	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
79	0.22	-7.2	OTHER	1, 2, 3, 4
80	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
83	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
88	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
89	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
95	0.20	-15.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
96	0.22	-7.2	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
97	0.26	9.7	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
98	0.21	-11.4	OTHER	1, 2, 3, 4
100	0.22	-7.2	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
101	0.24	1.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
108	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
111	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
112	0.27	13.9	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
115	0.23	-3.0	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
116	0.25	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
117	0.29	22.4	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
119	0.28	18.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4
123	0.24	1.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1, 2, 3, 4

54 Labs had a total range of 0.07 to 0.52 and a mean of 0.237 with a standard deviation of 0.032 and a 95% confidence interval of the mean +/- 0.009.

Table 13. Statistics by method for standard reference sample N17

Determination	Method	Range:		Mean	Standard Deviation	N
		from	to			
NH3-N	COLORIMETRIC, DISTILLATION, NESSLERIZATION	0.030	-	0.440	0.129	0.088 7
	COLORIMETRIC, PHENATE	0.010	-	0.100	0.027	0.019 12
	ION SELECTIVE ELECTRODE	0.010	-	0.320	0.115	0.112 11
	OTHER	0.020	-	0.060	0.043	0.021 3
	_OVER-ALL_	0.010	-	0.500	0.074	0.085 36
NO2-N	COLORIMETRIC, DIAZOTIZATION	0.020	-	0.570	0.055	0.007 44
	_OVER-ALL_	0.020	-	0.570	0.055	0.007 45
NO3-N	COLORIMETRIC, BRUCINE	0.400	-	1.540	0.991	0.373 7
	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	0.280	-	1.350	1.051	0.111 43
	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	0.320	-	1.150	0.885	0.384 4
	ION CHROMATOGRAPHY	0.980	-	1.200	1.078	0.091 4
	OTHER	0.300	-	1.420	0.954	0.405 5
_OVER-ALL_	0.280	-	1.660	1.018	0.242 67	
ORG-N	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	0.100	-	1.180	0.452	0.192 10
	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	0.060	-	0.300	0.173	0.098 4
	COLORIMETRIC, DIGESTION, DISTILLATION, PHENATE	0.190	-	2.270	0.383	0.276 3
	DIGESTION, DISTILLATION, TITRATION	0.200	-	1.360	0.440	0.282 3
	OTHER	0.270	-	0.530	0.383	0.108 4
_OVER-ALL_	0.060	-	2.540	0.393	0.193 28	
P, TOTAL	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYB	0.280	-	0.580	0.414	0.060 40
	COLORIMETRIC, BLK DIG, H2SO4, K&HG2SO4, PHOSPHOMOLYBDATE	0.230	-	0.640	0.390	0.087 9
	_OVER-ALL_	0.230	-	1.040	0.410	0.065 56
PO4-P	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	0.070	-	0.520	0.238	0.031 40
	_OVER-ALL_	0.070	-	0.520	0.237	0.032 47

Table 14 Standard Reference Water Sample P10 Report for ACID@CACO3

Code Number	Reported value	Pct. dev. from mean		Methods	References
1	1.5	-68.2		TITRATION, ELECTROMETRIC	1,2,3,4
2	< 1.0		IGNORED	TITRATION, ELECTROMETRIC	1,2,3,4
19	0.8	-83.0		TITRATION, ELECTROMETRIC	1,2,3,4
35	18.0	281.5		TITRATION, ELECTROMETRIC	1,2,3,4
41	1.0	-78.8		OTHER	
44	16.0	239.1		TITRATION, ELECTROMETRIC	1,2,3,4
56	1.6	-66.1		TITRATION, ELECTROMETRIC	1,2,3,4
63	2.0	-57.6		TITRATION, COLORIMETRIC	1,2,3,4
64	3.0	-36.4		TITRATION, ELECTROMETRIC	1,2,3,4
69	4.0	-15.2		TITRATION, COLORIMETRIC	1,2,3,4
100	3.0	-36.4		TITRATION, ELECTROMETRIC	1,2,3,4
104	1.0	-78.8		TITRATION, ELECTROMETRIC	1,2,3,4
115	< 1.0		IGNORED	TITRATION, COLORIMETRIC	1,2,3

13 Labs had a total range of 0.8 to 18.0 and a mean of 4.72 with a standard deviation of 6.17 and a 95% confidence interval of the mean +/- 4.14.

Table 14 Standard Reference Water Sample P10 Report for CA

Code Number	Reported value	Pct. dev. from mean		Methods	References
1	0.10	-22.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	0.40	209.6	REJECT	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	0.10	-22.6		ATOMIC ABSORPTION, DIRECT, AIR	1,7
4	< 1.00		IGNORED	EMISSION, IC PLASMA	3,5,7
10	< 0.17	31.6		X-RAY FLUORESCENCE	7
16	< 0.20		IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
19	0.15	16.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	< 0.02		IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	0.10	-22.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	0.07	-45.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
41	0.10	-22.6		EMISSION, IC PLASMA	3,5,7
42	0.18	39.3		NOT REPORTED	
44	0.08	-38.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	0.10	-22.6		EMISSION, IC PLASMA	3,5,7
56	< 1.00		IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	3,5,7
61	0.14	8.4		TITRATION, EDTA	1,2,3,4
63	0.09	-30.3		ATOMIC ABSORPTION, DIRECT, AIR	1,3
64	0.20	54.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	0.17	31.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	0.14	8.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
76	0.11	-14.9		EMISSION, IC PLASMA	3,5,7
77	0.11	-14.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	< 0.10		IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	0.20	54.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	0.14	8.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	0.24	85.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	0.09	-30.3		EMISSION, IC PLASMA	3,5,7
103	0.13	0.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	0.19	47.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	0.11	-14.9		EMISSION, IC PLASMA	1,2,3,4
106	0.09	-30.3		EMISSION, IC PLASMA	3,5,7
111	0.06	-53.6		ATOMIC ABSORPTION, DIRECT, AIR	3,5,7
115	< 0.10		IGNORED	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4

33 Labs had a total range of < 0.02 to < 1.00 and a mean of 0.129 with a standard deviation of 0.046 and a 95% confidence interval of the mean +/- 0.019.

Table 14 Standard Reference Water Sample P10 Report for CL

Code Number	Reported value	Pct. dev. from mean		Methods	References
1	0.11	-28.6		ION CHROMATOGRAPHY	2,3,6,7
2	0.40	159.7		COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
3	< 0.50		IGNORED	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
4	2.00	1198.7	REJECT	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
6	0.06	-61.0		ION CHROMATOGRAPHY	2,3,6,7
10	0.12	-22.1		X-RAY FLUORESCENCE	7
16	< 0.50		IGNORED	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
17	1.50	874.0	REJECT	TITRATION, MERCURIC NITRATE	1,2,3,4
21	< 5.00		IGNORED	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
28	< 5.00		IGNORED	TITRATION, SILVER NITRATE	1,2,4
35	0.20	29.9		ION CHROMATOGRAPHY	2,3,6,7
38	0.05	-67.5		ION CHROMATOGRAPHY	2,3,6,7
44	0.08	-48.1		ION SELECTIVE ELECTRODE	1,2,3,4
55	< 1.00		IGNORED	TITRATION, SILVER NITRATE	1,2,4
56	< 1.00		IGNORED	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
63	0.35	127.3		ION SELECTIVE ELECTRODE	1,2,3,4
64	1.00	549.4	REJECT	TITRATION, SILVER NITRATE	1,2,3,4
69	0.20	29.9		TITRATION, MERCURIC NITRATE	1,2,4
76	0.05	-67.5		ION CHROMATOGRAPHY	1,2,3,4
77	0.07	-54.5		COLORIMETRIC, FERRIC THIOCYANATE	2,3,6,7
79	< 0.10		IGNORED	TITRATION, SILVER NITRATE	1,2,3,4
85	< 1.00		IGNORED	COLORIMETRIC, FERRIC THIOCYANATE	1,2,4
88	0.25	62.3		ION CHROMATOGRAPHY	1,2,3,4
100	0.11	-28.6		TITRATION, MERCURIC NITRATE	2,3,6,7
104	0.21	36.4		TITRATION, MERCURIC NITRATE	1,2,3,4
111	< 0.10		IGNORED	TITRATION, MERCURIC NITRATE	1,2,3,4
112	50.30	3E+04	REJECT	COLORIMETRIC, FERRIC THIOCYANATE	1,2,3,4
115	< 1.00		IGNORED	TITRATION, SILVER NITRATE	1,2,3,4
123	0.05	-67.5		COLORIMETRIC, FERRIC THIOCYANATE	1,2,4

29 Labs had a total range of < 0.05 to 50.30 and a mean of 0.154 with a standard deviation of 0.112 and a 95% confidence interval of the mean +/- 0.062.

Table 14 Standard Reference Water Sample P10 Report for F

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 0.01		IGNORED ION CHROMATOGRAPHY	2,3,6
2	0.06	84.6	ION SELECTIVE ELECTRODE	1,2,3,4
3	< 0.10		IGNORED COLORIMETRIC, CEROUS ALIZARIN "COMPLEXONE"	3
4	< 0.10		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
6	< 0.10		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
16	0.03	-7.7	ION SELECTIVE ELECTRODE	1,2,3,4
28	< 0.05		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
35	< 0.20		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
42	< 0.50		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
44	< 0.02		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
55	0.03	-7.7	ION SELECTIVE ELECTRODE	1,2,3,4
56	< 0.02		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
63	0.01	-69.2	ION SELECTIVE ELECTRODE	1,2,3,4
64	< 0.10		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
69	< 0.10		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
76	< 0.05		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
79	0.21	546.2	REJECT COLORIMETRIC, SPADNS	1,2,3,4
85	< 1.00		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
88	< 0.01		IGNORED ION CHROMATOGRAPHY	2,3,6
100	< 0.04		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4
115	< 0.20		IGNORED ION SELECTIVE ELECTRODE	1,2,3,4

21 Labs had a total range of < 0.01 to < 1.00 and a mean of 0.033 with a standard deviation of 0.021 and a 95% confidence interval of the mean +/- 0.033.

Table 14 Standard Reference Water Sample P10 Report for K

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.01	-77.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	0.10	126.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	< 0.01		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	< 1.00		IGNORED EMISSION, IC PLASMA	3,7
10	0.02	-54.6	X-RAY FLUORESCENCE	7
19	< 0.01		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	0.02	-54.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	< 0.03		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
42	< 0.10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
43	0.03	-32.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	< 0.01		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
55	< 0.10		IGNORED EMISSION, IC PLASMA	3,7
56	< 1.00		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
63	0.02	-54.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	< 0.50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	0.11	149.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	0.02	-54.6	EMISSION, IC PLASMA	3,7
76	0.02	-54.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
77	0.01	-77.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	0.11	149.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	0.10	126.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	0.01	-77.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	< 0.06		IGNORED EMISSION, IC PLASMA	3,7
100	0.01	-77.3	EMISSION, FLAME, PHOTOMETRIC	1,2
103	< 0.05		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	0.14	217.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	< 0.30		IGNORED EMISSION, IC PLASMA	3,7
111	0.02	-54.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	< 0.02		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

29 Labs had a total range of < 0.01 to < 1.00 and a mean of 0.044 with a standard deviation of 0.046 and a 95% confidence interval of the mean +/- 0.024.

Table 14 Standard Reference Water Sample P10 Report for MG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.02	30.7	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
2	0.10	553.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
3	< 0.01		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
4	< 1.00		IGNORED EMISSION, IC PLASMA	3,5
16	< 0.10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
19	0.03	96.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
21	< 0.01		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
28	< 0.08		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	0.02	30.7	EMISSION, IC PLASMA	3,5
41	0.01	-34.6	NOT REPORTED	
42	< 0.05		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
43	0.02	30.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
44	< 0.01	-100.0	IGNORED EMISSION, IC PLASMA	3,5
55	< 0.10		IGNORED OTHER	
56	< 1.00		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
61	< 0.20		IGNORED TITRATION, EDTA	2
63	0.01	-34.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
64	< 0.50		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
69	< 0.05		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
70	0.03	96.1	EMISSION, IC PLASMA	3,5
76	0.02	30.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
77	0.01	-34.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
79	< 0.10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	0.10	553.6	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	0.02	30.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
93	< 0.02		IGNORED EMISSION, IC PLASMA	3,5
100	0.01	-34.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	0.01	-34.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
104	0.01	-34.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	0.01	-34.6	EMISSION, IC PLASMA	3,5
106	0.01	-34.6	EMISSION, IC PLASMA	3,5
111	0.02	30.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
115	< 0.10		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

33 Labs had a total range of < 0.01 to < 1.00 and a mean of 0.015 with a standard deviation of 0.008 and a 95% confidence interval of the mean +/- 0.004.



Table 14 Standard Reference Water Sample P10 Report for NA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.04	-20.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
2	< 0.10		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
3	0.10	97.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
4	< 5.00		EMISSION, IC PLASMA	3, 5
19	< 0.05	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
21	< 0.01		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
28	< 0.10		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
35	< 0.04		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
41	< 0.03	-40.7	EMISSION, IC PLASMA	3, 5
42	< 0.10		NOT REPORTED	
43	< 0.02	-60.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
44	< 0.03	-40.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
55	< 0.10		EMISSION, IC PLASMA	3, 5
56	< 1.00		EMISSION, IC PLASMA	3, 5
63	< 0.05	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
64	< 0.50		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
69	< 0.09	77.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
70	0.10	97.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
76	0.03	-40.7	EMISSION, IC PLASMA	3, 5
77	0.03	-40.7	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
79	0.89	1658.9	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
85	0.20	295.3	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
88	0.05	-1.2	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
93	< 0.02		EMISSION, IC PLASMA	3, 5
100	< 0.02	-60.5	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
103	< 0.40		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
104	< 0.06	18.6	ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4
105	< 0.08	58.1	EMISSION, IC PLASMA	3, 5
106	< 0.02		EMISSION, IC PLASMA	3, 5
111	< 0.03	-40.7	EMISSION, FLAME	3, 5
115	< 0.05		ATOMIC ABSORPTION, DIRECT, AIR	1, 2, 3, 4

31 Labs had a total range of < 0.01 to <5.00 and a mean of 0.051 with a standard deviation of 0.028 and a 95% confidence interval of the mean +/- 0.015.

Table 14 Standard Reference Water Sample P10 Report for NH3-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.03	-37.2	COLORIMETRIC, PHENATE	1, 2, 3, 7
2	0.08	67.4	COLORIMETRIC, PHENATE	1, 2, 3, 7
3	< 0.05		IGNORED	1, 2, 3, 7
4	< 0.10		IGNORED	1, 2, 3, 7
19	< 0.01		IGNORED	4
21	< 0.02		IGNORED	1, 2, 3, 7
28	< 0.12		IGNORED	1, 4
35	< 0.02		IGNORED	1, 2, 3, 7
42	< 0.10		IGNORED	1, 2, 3, 7
44	< 0.02		IGNORED	1, 2, 3, 7
55	< 0.10		IGNORED	1, 2, 3, 7
56	< 0.10		IGNORED	1, 2, 3, 4
61	< 0.01	25.5	ION SELECTIVE ELECTRODE	1, 2, 3, 4
64	< 0.10		ION SELECTIVE ELECTRODE	1, 2, 3, 4
69	< 0.06		ION SELECTIVE ELECTRODE	1, 2, 3, 4
76	< 0.01		ION SELECTIVE ELECTRODE	1, 2, 3, 4
77	0.02	-58.2	COLORIMETRIC, PHENATE	1, 2, 3, 7
79	0.01	-79.1	COLORIMETRIC, INDOPHENOL	4
85	< 1.00		COLORIMETRIC, INDOPHENOL	4
98	< 0.01	-79.1	IGNORED	4
100	< 0.01		COLORIMETRIC, PHENATE	1, 2, 3, 7
108	< 0.08	67.4	COLORIMETRIC, INDOPHENOL	4
111	< 0.10		IGNORED	1, 4
112	0.19	297.5	COLORIMETRIC, PHENATE	1, 2, 3, 7
115	0.08	67.4	REJECT	1, 2, 3, 7
123	0.06	25.5	OTHER	
			COLORIMETRIC, PHENATE	1, 2, 3, 7

27 Labs had a total range of <0.01 to <1.00 and a mean of 0.048 with a standard deviation of 0.030 and a 95% confidence interval of the mean +/- 0.023.

Table 14 Standard Reference Water Sample P10 Report for NO3-N

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.04	-78.8	ION CHROMATOGRAPHY	2, 3, 6, 7
2	0.26	37.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
3	< 0.10		IGNORED	1, 2, 3, 4
4	< 0.02	-89.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
6	< 0.09		IGNORED	1, 2, 3, 4
16	0.27	42.8	ION CHROMATOGRAPHY	2, 3, 6, 7
17	0.07	-63.0	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
19	0.37	95.7	COLORIMETRIC, BRUCINE	1, 2, 3, 4
21	0.07	-63.0	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
35	< 0.04		IGNORED	1, 2, 3, 4
38	0.29	53.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
42	0.06	-68.3	ION CHROMATOGRAPHY	2, 3, 6, 7
44	0.30	58.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
55	< 0.10		IGNORED	1, 2, 3, 4
56	0.32	69.2	COLORIMETRIC, BRUCINE	1, 2, 3, 4
61	0.12	-36.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
63	0.35	85.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
64	< 0.40		IGNORED	1, 2, 3, 4
69	< 0.20		IGNORED	1, 2, 3, 4
76	0.09	-52.4	COLORIMETRIC, BRUCINE	1, 2, 3, 4
77	0.03	-84.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
79	0.04	-78.8	ION CHROMATOGRAPHY	2, 3, 6, 7
85	< 1.00		IGNORED	3
88	0.40	111.5	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	1, 2, 3, 4
98	0.40	111.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
100	0.29	53.4	COLORIMETRIC, BRUCINE	1, 2, 3, 4
104	44.00	2E+04	REJECT	3
111	< 0.44		IGNORED	1, 2, 3, 4
112	0.01	-94.7	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
115	0.24	26.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4
123	0.12	-36.5	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1, 2, 3, 4

31 Labs had a total range of 0.01 to 44.00 and a mean of 0.189 with a standard deviation of 0.139 and a 95% confidence interval of the mean +/- 0.062.

Table 14 Standard Reference Water Sample P10 Report for PH

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	5.05	0.7	ELECTROMETRIC	1,2,3,4
2	5.30	5.7	ELECTROMETRIC	1,2,3,4
3	4.73	-5.7	ELECTROMETRIC	1,2,3,4
4	4.70	-6.3	ELECTROMETRIC	1,2,3,4
6	5.18	3.3	ELECTROMETRIC	1,2,3,4
15	4.83	-3.7	ELECTROMETRIC	1,2,3,4
16	5.30	5.7	ELECTROMETRIC	1,2,3,4
17	5.19	3.5	ELECTROMETRIC	1,2,3,4
19	5.10	1.7	ELECTROMETRIC	1,2,3,4
28	4.44	-11.4	ELECTROMETRIC	1,2,3,4
35	5.40	7.7	ELECTROMETRIC	1,2,3,4
38	4.95	-1.3	ELECTROMETRIC	1,2,3,4
42	5.00	-0.3	ELECTROMETRIC	1,2,3,4
44	4.82	-3.9	ELECTROMETRIC	1,2,3,4
55	5.36	6.9	ELECTROMETRIC	1,2,3,4
56	5.68	13.3	ELECTROMETRIC	1,2,3,4
61	4.90	-2.3	ELECTROMETRIC	1,2,3,4
63	4.98	-0.7	ELECTROMETRIC	1,2,3,4
64	6.40	27.7	ELECTROMETRIC	1,2,3,4
69	4.17	-16.8	ELECTROMETRIC	1,2,3,4
76	4.94	-1.5	ELECTROMETRIC	1,2,3,4
77	4.95	-1.3	ELECTROMETRIC	1,2,3,4
79	4.85	-3.3	ELECTROMETRIC	1,2,3,4
85	4.90	-2.3	ELECTROMETRIC	1,2,3,4
88	4.60	-8.2	ELECTROMETRIC	1,2,3,4
98	4.97	-0.9	ELECTROMETRIC	1,2,3,4
100	5.23	4.3	ELECTROMETRIC	1,2,3,4
103	5.00	-0.3	ELECTROMETRIC	1,2,3,4
104	5.75	14.7	ELECTROMETRIC	1,2,3,4
105	5.20	3.7	ELECTROMETRIC	1,2,3,4
108	5.20	3.7	ELECTROMETRIC	1,2,3,4
112	8.56	70.7	ELECTROMETRIC	1,2,3,4
115	4.75	-5.3	ELECTROMETRIC	1,2,3,4

33 Labs had a total range of 4.17 to 8.56 and a mean of 5.014 with a standard deviation of 0.327 and a 95% confidence interval of the mean +/- 0.120.

Table 14 Standard Reference Water Sample P10 Report for PO4-P

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 0.01		IGNORED	1,2,3,4
2	0.01	-64.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
3	0.02	-28.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
4	< 0.02		IGNORED	1,2,3,4
16	0.05	78.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
19	0.02	-28.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
35	< 0.01		IGNORED	1,2,3,4
41	< 0.02		IGNORED	1,2,3,4
44	< 0.04		IGNORED	2,3,6
55	< 0.01		IGNORED	1,2,3,4
56	< 0.05		IGNORED	1,2,3,4
61	< 0.01		IGNORED	1,2,3,4
63	0.17	507.1	REJECT	1,2,3,4
64	< 0.03		IGNORED	1,2,3,4
69	< 0.02		IGNORED	1,2,3,4
76	< 0.01		IGNORED	1,2,3,4
77	0.01	-64.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
79	0.02	-28.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
88	< 0.05		IGNORED	1,2,3,4
100	< 0.02		IGNORED	1,2,3,4
104	0.04	42.9	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
108	0.01	-64.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
112	0.04	42.9	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
115	0.06	114.3	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	1,2,3,4
123	< 0.01		IGNORED	1,2,3,4

25 Labs had a total range of <0.01 to 0.17. INSUFFICIENT DATA TO DEFINE MEAN AND STANDARD DEVIATION.

Table 14 Standard Reference Water Sample P10 Report for SO4

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.43	-64.4	ION CHROMATOGRAPHY	2,6,7
2	0.80	-33.7	COLORIMETRIC, METHYL THYMOL BLUE	1,3,4
3	< 5.00		IGNORED	1,3,4
4	< 3.00		IGNORED	1,3,4
6	0.70	-42.0	COLORIMETRIC, METHYL THYMOL BLUE	1,3,4
10	0.69	-42.8	ION CHROMATOGRAPHY	2,6,7
16	< 5.00		IGNORED	7
17	5.00	314.3	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
21	< 2.00		IGNORED	1,2,3
28	6.20	82.3	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
35	0.28	-76.8	TURBIDIMETRIC, BARIUM SULFATE	1,2,7
38	0.42	-65.2	ION CHROMATOGRAPHY	2,6,7
42	1.20	-0.6	COLORIMETRIC, METHYL THYMOL BLUE	1,3,4
43	0.30	-75.1	GRAVIMETRIC, BARIUM SULFATE	1,3,3
44	0.53	-56.1	ION CHROMATOGRAPHY	2,6,7
55	1.00	-17.1	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
56	< 1.00		IGNORED	1,2,3
63	0.99	-18.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
64	< 2.00		IGNORED	1,2,3
69	0.50	-58.6	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
76	0.50	-58.6	ION CHROMATOGRAPHY	2,6,7
77	0.40	-66.9	ION CHROMATOGRAPHY	2,6,7
79	4.54	276.2	GRAVIMETRIC, BARIUM SULFATE	1,2,3
85	0.60	-50.3	COLORIMETRIC, METHYL THYMOL BLUE	1,3,4
88	0.37	-69.3	ION CHROMATOGRAPHY	2,6,7
100	< 1.00		IGNORED	1,2,3
104	0.20	-83.4	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
105	1.30	7.7	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
111	< 1.00		IGNORED	1,2,3
112	3.60	198.3	COLORIMETRIC, METHYL THYMOL BLUE	1,3,4
115	< 1.00		IGNORED	1,2,3

31 Labs had a total range of 0.20 to < 5.00 and a mean of 1.207 with a standard deviation of 1.382 and a 95% confidence interval of the mean +/- 0.613.

Table 14 Standard Reference Water Sample P10 Report for SP. COND.

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	4.2	-19.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
2	4.1	-21.2	DIRECT READING INSTRUMENT	4
3	5.0	-3.8	DIRECT READING INSTRUMENT	4
4	35.9	590.4	REJECT WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
6	4.0	-23.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
16	5.6	7.7	DIRECT READING INSTRUMENT	4
21	4.6	-11.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
28	4.1	-21.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
35	5.1	-1.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
38	6.0	15.4	DIRECT READING INSTRUMENT	4
42	5.0	-3.8	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
43	3.1	-40.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
44	4.8	-7.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
55	8.0	53.8	DIRECT READING INSTRUMENT	4
56	5.1	-1.9	DIRECT READING INSTRUMENT	4
61	4.9	-5.8	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
63	6.3	21.2	DIRECT READING INSTRUMENT	4
64	39.0	650.0	REJECT DIRECT READING INSTRUMENT	4
69	6.7	28.8	DIRECT READING INSTRUMENT	4
76	5.6	7.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
77	6.1	17.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
79	4.4	-15.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
85	12.0	130.8	REJECT DIRECT READING INSTRUMENT	4
88	5.6	7.7	DIRECT READING INSTRUMENT	4
98	4.4	-15.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
100	5.1	-1.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
103	5.0	-3.8	DIRECT READING INSTRUMENT	4
104	5.3	1.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
105	8.0	53.8	DIRECT READING INSTRUMENT	4
111	< 1.0		IGNORED DIRECT READING INSTRUMENT	4
112	5.0	-3.8	DIRECT READING INSTRUMENT	4
115	4.7	-9.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	4
123	5.0	-3.8	OTHER	1,2,3,4

33 Labs had a total range of < 1.0 to 39.0 and a mean of 5.20 with a standard deviation of 1.08 and a 95% confidence interval of the mean +/- 0.41.

Table 15. Statistics by method for standard reference sample P10

Determination	Method	Range:		Mean	Standard Deviation	N
		from	to			
ACID@CACO3	TITRATION, ELECTROMETRIC	0.800	18.000	5.613	7.096	8
	_OVER-ALL_	0.800	18.000	4.718	6.169	11
CA	ATOMIC ABSORPTION, DIRECT, AIR	0.020	1.000	0.135	0.045	15
	EMISSION, IC PLASMA	0.070	1.000	0.098	0.025	6
	_OVER-ALL_	0.020	1.000	0.129	0.046	26
CL	ION CHROMATOGRAPHY	0.050	0.250	0.120	0.086	6
	TITRATION, MERCURIC NITRATE	0.100	1.500	0.173	0.055	3
	_OVER-ALL_	0.050	50.300	0.154	0.112	15
F	ION SELECTIVE ELECTRODE	0.010	1.000	0.033	0.021	4
	_OVER-ALL_	0.010	1.000	0.033	0.021	4
K	ATOMIC ABSORPTION, DIRECT, AIR	0.000	1.000	0.050	0.049	14
	_OVER-ALL_	0.000	1.000	0.044	0.046	17
MG	ATOMIC ABSORPTION, DIRECT, AIR	0.010	1.000	0.016	0.007	11
	EMISSION, IC PLASMA	0.000	1.000	0.014	0.011	5
	_OVER-ALL_	0.000	1.000	0.015	0.008	17
NA	ATOMIC ABSORPTION, DIRECT, AIR	0.010	1.000	0.049	0.026	11
	EMISSION, IC PLASMA	0.020	5.000	0.070	0.036	3
	_OVER-ALL_	0.010	5.000	0.051	0.028	16
NH3-N	COLORIMETRIC, PHENATE	0.010	0.190	0.045	0.031	4
	_OVER-ALL_	0.010	1.000	0.048	0.030	9
NO3-N	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	0.010	1.000	0.185	0.127	14
	ION CHROMATOGRAPHY	0.030	0.300	0.165	0.150	4
	_OVER-ALL_	0.010	44.000	0.189	0.139	22
PH	ELECTROMETRIC	4.170	8.560	5.014	0.327	31
	_OVER-ALL_	4.170	8.560	5.014	0.327	31
PO4-P	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE	0.010	0.170	0.029	0.019	9
	_OVER-ALL_	0.010	0.170	0.028	0.018	10
SO4	COLORIMETRIC, METHYL THYMOL BLUE	0.600	5.000	1.550	1.389	4
	ION CHROMATOGRAPHY	0.280	0.700	0.454	0.126	8
	TURBIDIMETRIC, BARIUM SULFATE	0.200	5.000	1.032	0.695	6
	_OVER-ALL_	0.200	5.000	1.207	1.382	22
SP. COND.	DIRECT READING INSTRUMENT	1.000	39.000	5.867	1.210	12
	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	3.100	35.900	4.713	0.704	16
	_OVER-ALL_	1.000	39.000	5.200	1.081	29

Table 16 Standard Reference Water Sample SED2 Report for AG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 1.0		IGNORED ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
18	< 0.1		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
35	4.4	12.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
39	3.1	-20.5	NOT REPORTED	
44	< 1.0		IGNORED EMISSION, IC PLASMA	3
54	3.7	-5.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
58	3.1	-20.5	EMISSION, IC PLASMA	3
64	< 10.0		IGNORED EMISSION, IC PLASMA	3
80	22.0	464.1	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
82	3.6	-7.7	MASS SPECTROMETRY, IC PLASMA	7
88	5.1	30.8	ATOMIC ABSORPTION, FLAMELESS	3
100	2.2	-43.6	ATOMIC ABSORPTION, FLAMELESS	3
106	3.3	-15.4	EMISSION, IC PLASMA	3
116	< 5.0		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
126	6.6	69.2	EMISSION, IC PLASMA	3

15 Labs had a total range of < 0.1 to 22.0 and a mean of 3.90 with a standard deviation of 1.31 and a 95% confidence interval of the mean +/- 1.00.

Table 16 Standard Reference Water Sample SED2 Report for AL

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	5.43	-36.7	EMISSION, DC PLASMA	7
4	10.00	16.6	EMISSION, IC PLASMA	3,5
18	8.10	-5.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
35	10.69	24.6	EMISSION, IC PLASMA	3,5
39	3.79	-55.8	NOT REPORTED	
44	8.20	-4.4	EMISSION, IC PLASMA	3,5
46	9.19	7.1	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
54	6.40	-25.4	EMISSION, IC PLASMA	3,5
58	8.20	-4.4	EMISSION, IC PLASMA	3,5
64	8.24	-4.0	EMISSION, IC PLASMA	3,5
80	8.60	0.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
85	0.78	-90.9	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
88	4.80	-44.1	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
100	7.46	-13.1	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
106	11.60	35.2	EMISSION, IC PLASMA	3,5
116	13.78	60.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
126	12.80	49.2	EMISSION, IC PLASMA	3,5

17 Labs had a total range of 0.78 to 13.78 and a mean of 8.580 with a standard deviation of 2.764 and a 95% confidence interval of the mean +/- 1.473.

Table 16 Standard Reference Water Sample SED2 Report for AS

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	650	332.4	REJECT ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
4	89	-40.8	ATOMIC ABSORPTION, FLAMELESS	3
18	11	-92.7	REJECT ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
35	170	13.1	ATOMIC ABSORPTION, FLAMELESS	3
39	102	-32.1	NOT REPORTED	
44	173	15.1	ATOMIC ABSORPTION, FLAMELESS	3
54	196	30.4	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
58	130	-13.5	EMISSION, IC PLASMA	3
64	132	-12.2	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
80	122	-18.8	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
88	170	13.1	ATOMIC ABSORPTION, FLAMELESS	3
100	146	-2.9	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	1,4
106	170	13.1	EMISSION, IC PLASMA	3
116	166	10.4	ATOMIC ABSORPTION, FLAMELESS	3
126	188	25.1	EMISSION, IC PLASMA	3

15 Labs had a total range of 11 to 650 and a mean of 150.3 with a standard deviation of 33.0 and a 95% confidence interval of the mean +/- 20.0.

Table 16 Standard Reference Water Sample SED2 Report for B

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 10		IGNORED EMISSION, DC PLASMA	7
44	58	176.2	EMISSION, IC PLASMA	3
58	2	-90.5	EMISSION, IC PLASMA	3
64	36	71.4	EMISSION, IC PLASMA	3
88	500	2281.0	REJECT ATOMIC ABSORPTION, FLAMELESS	3
106	5	-76.2	EMISSION, IC PLASMA	3
126	4	-81.0	EMISSION, IC PLASMA	3

7 Labs had a total range of 2 to 500. INSUFFICIENT DATA TO DEFINE MEAN AND STANDARD DEVIATION.

Table 16 Standard Reference Water Sample SED2 Report for BA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	167	-8.2	EMISSION, IC PLASMA	3,5
18	140	-23.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
35	214	17.7	EMISSION, IC PLASMA	3,5
39	155	-14.8	NOT REPORTED	
44	168	-7.6	EMISSION, IC PLASMA	3,5
46	199	-9.4	ATOMIC ABSORPTION, FLAMELESS	
58	160	-12.0	EMISSION, IC PLASMA	3,5
58	180	-1.0	EMISSION, IC PLASMA	3,5
64	228	25.4	EMISSION, IC PLASMA	3,5
80	250	37.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
82	127	-30.2	MASS SPECTROMETRY, IC PLASMA	
88	190	-4.5	ATOMIC ABSORPTION, FLAMELESS	3
100	107	-41.2	ATOMIC ABSORPTION, FLAMELESS	3
106	197	8.3	EMISSION, IC PLASMA	3,5
116	214	17.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
126	214	17.7	EMISSION, IC PLASMA	3,5

16 Labs had a total range of 107 to 250 and a mean of 181.9 with a standard deviation of 38.7 and a 95% confidence interval of the mean +/- 20.6.

Table 16 Standard Reference Water Sample SED2 Report for BE

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 0.50		IGNORED EMISSION, IC PLASMA	3,5
4	0.74	-28.1	EMISSION, IC PLASMA	3,5
18	< 0.02		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
35	1.22	18.6	EMISSION, IC PLASMA	3,5
44	1.20	16.6	EMISSION, IC PLASMA	3,5
46	1.16	12.7	ATOMIC ABSORPTION, FLAMELESS	
54	32.00	3010.1	REJECT EMISSION, IC PLASMA	3,5
58	0.79	-23.2	EMISSION, IC PLASMA	3,5
64	< 5.00		IGNORED EMISSION, IC PLASMA	3,5
82	1.40	36.1	MASS SPECTROMETRY, IC PLASMA	
88	1.10	6.9	ATOMIC ABSORPTION, FLAMELESS	3
106	0.83	-19.3	EMISSION, IC PLASMA	3,5
116	< 5.00		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
126	0.82	-20.3	EMISSION, IC PLASMA	3,5

14 Labs had a total range of <0.02 to 32.00 and a mean of 1.029 with a standard deviation of 0.237 and a 95% confidence interval of the mean +/- 0.182.

Table 16 Standard Reference Water Sample SED2 Report for C, INORG

Code Number	Reported value	Pct. dev. from mean	Methods	References
80	6	0.0	COMBUSTION OR OXIDATION	1
88	< 1		IGNORED COMBUSTION OR OXIDATION	1

2 Labs had a total range of <1 to 6. INSUFFICIENT DATA TO DEFINE MEAN AND STANDARD DEVIATION.

Table 16 Standard Reference Water Sample SED2 Report for C, TOTAL

Code Number	Reported value	Pct. dev. from mean	Methods	References
80	16	18.5	REJECT COMBUSTION OR OXIDATION	1,2,3
88	11	-18.5	REJECT COMBUSTION OR OXIDATION	1,2,3

2 Labs had a total range of 11 to 16 and a mean of 13.5 with a standard deviation of 1.6 and a 95% confidence interval of the mean +/- 0.0.

Table 16 Standard Reference Water Sample SED2 Report for CA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	15.8	-3.6	EMISSION, IC PLASMA	3,5,7
4	14.0	-14.6	EMISSION, IC PLASMA	3,5,7
18	9.2	-43.9	REJECT ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
35	15.4	-6.1	EMISSION, IC PLASMA	3,5,7
39	12.6	-23.1	NOT REPORTED	
44	39.2	139.1	REJECT EMISSION, IC PLASMA	3,5,7
46	16.9	3.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
54	16.3	-0.6	EMISSION, IC PLASMA	3,5,7
58	18.7	14.1	EMISSION, IC PLASMA	3,5,7
64	19.9	21.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	16.5	0.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
88	15.0	-8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	18.3	11.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	15.9	-3.0	EMISSION, IC PLASMA	3,5,7
116	18.0	9.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	16.2	-1.2	EMISSION, IC PLASMA	3,5,7

16 Labs had a total range of 9.2 to 39.2 and a mean of 16.39 with a standard deviation of 1.92 and a 95% confidence interval of the mean +/- 1.11.

Table 16 Standard Reference Water Sample SED2 Report for CD

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	7.4	-15.6	EMISSION, IC PLASMA	3,5
4	9.8	11.8	ATOMIC ABSORPTION, FLAMELESS	3
18	7.3	-16.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	10.6	20.9	EMISSION, IC PLASMA	3,5
39	7.7	-12.1	NOT REPORTED	
44	9.5	8.4	ATOMIC ABSORPTION, FLAMELESS	3
46	10.2	16.4	ATOMIC ABSORPTION, FLAMELESS	3,5
54	9.0	2.7	EMISSION, IC PLASMA	3,5
58	8.6	-1.9	EMISSION, IC PLASMA	3,5
64	6.0	-31.5	EMISSION, IC PLASMA	3,5
80	5.0	-43.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	8.8	0.4	MASS SPECTROMETRY, IC PLASMA	7
88	13.0	48.3	ATOMIC ABSORPTION, FLAMELESS	3
98	8.0	-8.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	9.9	13.0	ATOMIC ABSORPTION, FLAMELESS	3
106	7.7	-12.1	EMISSION, IC PLASMA	3,5
116	10.5	19.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	1.6	-81.7	REJECT EMISSION, IC PLASMA	3,5

18 Labs had a total range of 1.6 to 13.0 and a mean of 8.76 with a standard deviation of 1.90 and a 95% confidence interval of the mean +/- 0.98.

Table 16 Standard Reference Water Sample SED2 Report for CO

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 3.0		IGNORED	
35	13.5	40.3	EMISSION, IC PLASMA	3,5
54	110.0	1043.5	REJECT EMISSION, IC PLASMA	3,5
58	9.9	2.9	EMISSION, IC PLASMA	3,5
64	6.4	-33.5	EMISSION, IC PLASMA	3,5
80	9.0	-6.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	9.6	-0.2	MASS SPECTROMETRY, IC PLASMA	7
88	8.2	-14.8	ATOMIC ABSORPTION, FLAMELESS	3
100	5.0	-48.0	ATOMIC ABSORPTION, FLAMELESS	3
106	9.5	-1.2	EMISSION, IC PLASMA	3,5
116	13.5	40.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	11.6	20.6	EMISSION, IC PLASMA	3,5

12 Labs had a total range of < 3.0 to 110.0 and a mean of 9.62 with a standard deviation of 2.75 and a 95% confidence interval of the mean +/- 1.97.

Table 16 Standard Reference Water Sample SED2 Report for CR TOT

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	8.0	-42.9	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,3,4
4	11.2	-20.0	EMISSION, IC PLASMA	3
18	18.0	28.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	20.0	42.8	EMISSION, IC PLASMA	3
39	2.2	-84.3	REJECT NOT REPORTED	
44	10.0	-28.6	ATOMIC ABSORPTION, FLAMELESS	3
46	15.7	12.1	ATOMIC ABSORPTION, FLAMELESS	3
54	10.0	-28.6	EMISSION, IC PLASMA	3
58	9.9	-29.3	EMISSION, IC PLASMA	3
64	< 25.0		IGNORED EMISSION, IC PLASMA	3
80	12.0	-14.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	15.0	7.1	MASS SPECTROMETRY, IC PLASMA	7
88	16.0	14.2	ATOMIC ABSORPTION, FLAMELESS	3
98	18.0	28.5	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,3,4
100	10.6	-24.3	ATOMIC ABSORPTION, FLAMELESS	3
116	16.5	17.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	19.2	37.1	EMISSION, IC PLASMA	3

17 Labs had a total range of 2.2 to < 25.0 and a mean of 14.01 with a standard deviation of 3.94 and a 95% confidence interval of the mean +/- 2.18.

Table 16 Standard Reference Water Sample SED2 Report for CU

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.99	-16.2	EMISSION, IC PLASMA	3,5
4	0.93	-21.3	EMISSION, IC PLASMA	3,5
18	0.99	-16.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	1.42	20.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	0.94	-20.5	NOT REPORTED	
44	1.60	35.4	EMISSION, IC PLASMA	3,5
46	0.78	-34.0	ATOMIC ABSORPTION, FLAMELESS	3
54	1.30	10.0	EMISSION, IC PLASMA	3,5
58	1.20	1.5	EMISSION, IC PLASMA	3,5
64	1.24	4.9	EMISSION, IC PLASMA	3,5
80	1.06	-10.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	8.50	619.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	3.40	187.7	REJECT ATOMIC ABSORPTION, FLAMELESS	3
98	1.53	29.5	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
100	1.10	-6.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	1.21	2.4	EMISSION, IC PLASMA	3,5
116	1.29	9.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	1.33	12.5	EMISSION, IC PLASMA	3,5

18 Labs had a total range of 0.78 to 8.50 and a mean of 1.182 with a standard deviation of 0.229 and a 95% confidence interval of the mean +/- 0.122.

Table 16 Standard Reference Water Sample SED2 Report for FE

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	14.36	-37.4	EMISSION, IC PLASMA	3,5
4	22.60	-1.5	EMISSION, IC PLASMA	3,5
18	26.00	13.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	26.86	17.1	EMISSION, IC PLASMA	3,5
39	11.10	-51.6	NOT REPORTED	
44	25.80	12.5	EMISSION, IC PLASMA	3,5
46	24.20	5.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	23.50	2.5	EMISSION, IC PLASMA	3,5
58	22.90	-0.2	EMISSION, IC PLASMA	3,5
64	20.90	-8.9	EMISSION, IC PLASMA	3,5
80	2.24	-90.2	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
85	2.65	-88.4	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	27.40	19.5	ATOMIC ABSORPTION, FLAMELESS	3
100	17.30	-24.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	23.70	3.3	EMISSION, IC PLASMA	3,5
116	32.15	40.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	25.30	10.3	EMISSION, IC PLASMA	3,5

17 Labs had a total range of 2.24 to 32.15 and a mean of 22.938 with a standard deviation of 5.316 and a 95% confidence interval of the mean +/- 2.944.

Table 16 Standard Reference Water Sample SED2 Report for HG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.69	-17.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
18	0.61	-27.2	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
35	1.20	43.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
39	1.05	25.4	NOT REPORTED	
44	0.93	11.0	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
46	0.61	-27.2	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
54	1.20	43.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
58	0.80	-4.5	EMISSION, IC PLASMA	3
64	1.11	32.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
80	0.60	-28.4	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
82	< 0.50		IGNORED MASS SPECTROMETRY, IC PLASMA	7
100	0.49	-41.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
116	0.76	-9.3	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	1,2,3,4
126	9.90	1082.1	REJECT EMISSION, IC PLASMA	3

14 Labs had a total range of 0.49 to 9.90 and a mean of 0.838 with a standard deviation of 0.252 and a 95% confidence interval of the mean +/- 0.160.

Table 16 Standard Reference Water Sample SED2 Report for K

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	2.13	1.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
4	2.33	10.5	EMISSION, IC PLASMA	3,7
18	1.80	-14.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	2.44	15.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	1.17	-44.5	NOT REPORTED	
46	1.83	-13.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	1.76	-16.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
58	2.30	9.0	EMISSION, IC PLASMA	3,7
64	1.50	-28.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	2.22	5.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	2.50	18.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	2.10	-0.4	EMISSION, FLAME, PHOTOMETRIC	1,2
106	2.50	18.5	EMISSION, IC PLASMA	3,7
116	2.68	27.1	EMISSION, FLAME, PHOTOMETRIC	1,2
126	2.38	12.8	EMISSION, IC PLASMA	3,7

15 Labs had a total range of 1.17 to 2.68 and a mean of 2.109 with a standard deviation of 0.419 and a 95% confidence interval of the mean +/- 0.232.

Table 16 Standard Reference Water Sample SED2 Report for LI

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	11	-26.7	EMISSION, IC PLASMA	3,5
35	17	13.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
58	13	-13.3	EMISSION, IC PLASMA	3,5
64	< 500		IGNORED EMISSION, IC PLASMA	3,5
88	16	6.7	ATOMIC ABSORPTION, FLAMELESS	3,5
106	17	13.3	EMISSION, IC PLASMA	3,5
126	16	6.7	EMISSION, IC PLASMA	3,5

7 Labs had a total range of 11 to < 500 and a mean of 15.0 with a standard deviation of 2.4 and a 95% confidence interval of the mean +/- 2.6.

Table 16 Standard Reference Water Sample SED2 Report for MG

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	4.30	-19.4	EMISSION, IC PLASMA	3,5
4	5.39	-1.1	EMISSION, IC PLASMA	3,5
18	4.60	-13.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	6.32	18.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	4.00	-25.0	NOT REPORTED	
44	14.60	173.8	REJECT EMISSION, IC PLASMA	3,5
46	5.41	1.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
54	4.70	-11.9	EMISSION, IC PLASMA	3,5
58	5.60	5.0	EMISSION, IC PLASMA	3,5
64	5.33	-0.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	5.42	1.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,7
88	7.00	31.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	5.23	-1.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	5.35	0.3	EMISSION, IC PLASMA	3,5
116	5.80	8.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	5.53	3.7	EMISSION, IC PLASMA	3,5

16 Labs had a total range of 4.00 to 14.60 and a mean of 5.332 with a standard deviation of 0.751 and a 95% confidence interval of the mean +/- 0.416.

Table 16 Standard Reference Water Sample SED2 Report for MN

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.40	-2.3	EMISSION, IC PLASMA	3,5
4	1.30	-9.3	EMISSION, IC PLASMA	3,5
18	1.40	-2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	1.66	15.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	1.37	-4.4	NOT REPORTED	
44	1.50	4.7	EMISSION, IC PLASMA	3,5
46	1.72	20.0	EMISSION, IC PLASMA	3,5
54	1.60	11.6	EMISSION, IC PLASMA	3,5
58	1.50	4.7	EMISSION, IC PLASMA	3,5
64	1.44	0.5	EMISSION, IC PLASMA	3,5
80	1.43	-0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	0.99	-30.9	MASS SPECTROMETRY, IC PLASMA	7
85	1.15	-19.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	1.57	9.5	ATOMIC ABSORPTION, FLAMELESS	3
100	1.44	0.5	ATOMIC ABSORPTION, FLAMELESS	3
106	1.41	-1.6	EMISSION, IC PLASMA	3,5
116	1.48	3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	1.44	0.5	EMISSION, IC PLASMA	3,5

18 Labs had a total range of 0.99 to 1.72 and a mean of 1.433 with a standard deviation of 0.170 and a 95% confidence interval of the mean +/- 0.085.

Table 16 Standard Reference Water Sample SED2 Report for MO

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 10.0		IGNORED EMISSION, IC PLASMA	3,5
4	2.2	-53.5	EMISSION, IC PLASMA	3,5
35	< 71.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3
44	3.0		EMISSION, IC PLASMA	3,5
58	55.0	1062.0	REJECT EMISSION, IC PLASMA	3,5
64	< 10.0		IGNORED EMISSION, IC PLASMA	3,5
80	< 10.0		IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3
82	3.5	-26.1	MASS SPECTROMETRY, IC PLASMA	7
88	5.0	5.6	ATOMIC ABSORPTION, FLAMELESS	3
106	8.0	69.0	EMISSION, IC PLASMA	3,5
126	6.7	41.6	EMISSION, IC PLASMA	3,5

11 Labs had a total range of 2.2 to < 71.0 and a mean of 4.73 with a standard deviation of 2.26 and a 95% confidence interval of the mean +/- 2.37.

Table 16 Standard Reference Water Sample SED2 Report for NA

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	0.28	32.8	REJECT EMISSION, IC PLASMA	3,5
4	1.72	715.9	EMISSION, IC PLASMA	3,5
18	0.15	-28.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	0.12	-43.1	EMISSION, IC PLASMA	3,5
39	< 0.31		IGNORED NOT REPORTED	
46	0.32	51.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	0.13	-38.3	EMISSION, IC PLASMA	3,5
58	0.21	-0.4	EMISSION, IC PLASMA	3,5
64	27.50	1E+04	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
80	0.22	4.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
88	0.25	18.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	0.23	9.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
106	0.19	-9.9	EMISSION, IC PLASMA	3,5
116	0.25	18.6	EMISSION, FLAME	1,2
126	0.18	-14.6	EMISSION, IC PLASMA	3,5

15 Labs had a total range of 0.12 to 27.50 and a mean of 0.211 with a standard deviation of 0.060 and a 95% confidence interval of the mean +/- 0.038.



Table 16 Standard Reference Water Sample SED2 Report for NI

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	< 1.0		IGNORED ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
4	9.6	-35.0	EMISSION, IC PLASMA	3,5,7
18	9.1	-38.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	27.4	85.6	EMISSION, IC PLASMA	3,5,7
39	7.6	-48.5	NOT REPORTED	
44	27.0	82.9	ATOMIC ABSORPTION, FLAMELESS	3
46	14.8	0.3	ATOMIC ABSORPTION, FLAMELESS	3
54	8.0	-45.8	EMISSION, IC PLASMA	3,5,7
58	9.8	-33.6	EMISSION, IC PLASMA	3,5,7
64	< 20.0		EMISSION, IC PLASMA	3,5,7
80	12.0	-18.7	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	12.0	-18.7	MASS SPECTROMETRY, IC PLASMA	3
88	15.0	1.6	ATOMIC ABSORPTION, FLAMELESS	3
98	10.3	-30.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
100	26.0	76.1	ATOMIC ABSORPTION, FLAMELESS	3
106	12.0	-18.7	EMISSION, IC PLASMA	3,5,7
116	20.0	35.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	15.6	5.7	EMISSION, IC PLASMA	3,5,7

18 Labs had a total range of <1.0 to 27.4 and a mean of 14.76 with a standard deviation of 6.77 and a 95% confidence interval of the mean +/- 3.61.

Table 16 Standard Reference Water Sample SED2 Report for PB

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	121	-20.7	EMISSION, IC PLASMA	3,5
4	157	2.9	EMISSION, IC PLASMA	3,5
18	130	-14.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	163	6.8	EMISSION, IC PLASMA	3,5
39	132	-13.5	NOT REPORTED	
44	166	8.7	ATOMIC ABSORPTION, FLAMELESS	3
46	90	-41.0	ATOMIC ABSORPTION, FLAMELESS	3
54	170	11.4	EMISSION, IC PLASMA	3,5
58	160	4.8	EMISSION, IC PLASMA	3,5
64	142	-7.0	EMISSION, IC PLASMA	3,5
80	139	-8.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
82	164	7.4	MASS SPECTROMETRY, IC PLASMA	3
88	200	31.0	ATOMIC ABSORPTION, FLAMELESS	3
98	160	4.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	157	2.9	ATOMIC ABSORPTION, FLAMELESS	3
106	160	4.8	EMISSION, IC PLASMA	3,5
116	184	20.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
126	269	76.2	REJECT EMISSION, IC PLASMA	3,5

18 Labs had a total range of 90 to 269 and a mean of 152.6 with a standard deviation of 25.4 and a 95% confidence interval of the mean +/- 13.0.

Table 16 Standard Reference Water Sample SED2 Report for SB

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	4.4	-3.7	ATOMIC ABSORPTION, HYDRIDE	2,4
4	< 0.1		IGNORED EMISSION, IC PLASMA	
18	7.0	53.1	ATOMIC ABSORPTION, DIRECT, AIR	1,3
35	< 50.0		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
39	< 31.0		IGNORED NOT REPORTED	
58	3.5	-23.4	EMISSION, IC PLASMA	
64	< 50.0		IGNORED EMISSION, IC PLASMA	
80	0.6	-86.9	ATOMIC ABSORPTION, HYDRIDE	2,4
82	6.3	37.8	MASS SPECTROMETRY, IC PLASMA	7
88	0.4	-91.2	ATOMIC ABSORPTION, FLAMELESS	3
106	< 6.0		IGNORED EMISSION, IC PLASMA	
116	< 50.0		IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
126	9.8	114.4	EMISSION, IC PLASMA	

13 Labs had a total range of <0.1 to <50.0 and a mean of 4.57 with a standard deviation of 3.43 and a 95% confidence interval of the mean +/- 3.17.

Table 16 Standard Reference Water Sample SED2 Report for SE

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.1	100.0	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
4	< 1.0		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
18	0.2	-63.6	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
35	< 1.0		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
39	2.0	263.6	REJECT NOT REPORTED	
44	0.3	-45.5	ATOMIC ABSORPTION, FLAMELESS	3
46	0.7	27.3	ATOMIC ABSORPTION, FLAMELESS	3
54	0.7	27.3	ATOMIC ABSORPTION, HYDRIDE	3
58	< 4.0		IGNORED EMISSION, IC PLASMA	1,2,3,4
64	0.7	27.3	ATOMIC ABSORPTION, HYDRIDE	3
80	0.6	9.1	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
82	< 5.0		IGNORED MASS SPECTROMETRY, IC PLASMA	1,2,3,4
88	< 0.1		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
100	0.1	-81.8	ATOMIC ABSORPTION, HYDRIDE	3
106	< 10.0		IGNORED EMISSION, IC PLASMA	1,2,3,4
116	< 1.0		IGNORED ATOMIC ABSORPTION, FLAMELESS	3
126	< 5.0		IGNORED EMISSION, IC PLASMA	3

17 Labs had a total range of <0.1 to <10.0 and a mean of 0.55 with a standard deviation of 0.33 and a 95% confidence interval of the mean +/- 0.28.

Table 16 Standard Reference Water Sample SED2 Report for SR

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	48	-7.3	EMISSION, IC PLASMA	3,5
35	50	-3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
44	42	-18.9	EMISSION, IC PLASMA	3,5
58	55	6.2	EMISSION, IC PLASMA	3,5
64	29	-44.0	EMISSION, IC PLASMA	3,5
80	< 10		IGNORED	
82	67	29.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
88	59	13.9	MASS SPECTROMETRY, IC PLASMA	7
106	58	12.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
126	58	12.0	MASS SPECTROMETRY, IC PLASMA	7
			EMISSION, IC PLASMA	3,5

10 Labs had a total range of <10 to 67 and a mean of 51.8 with a standard deviation of 11.2 and a 95% confidence interval of the mean +/- 8.6.

Table 16 Standard Reference Water Sample SED2 Report for V

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	20	-38.4	EMISSION, IC PLASMA	3,5
35	32	-1.4	EMISSION, IC PLASMA	3,5
44	37	14.0	EMISSION, IC PLASMA	3,5
54	30	-7.6	EMISSION, IC PLASMA	3,5
58	26	-19.9	EMISSION, IC PLASMA	3,5
64	39	20.2	EMISSION, IC PLASMA	3,5
80	25	-23.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3
82	40	23.2	MASS SPECTROMETRY, IC PLASMA	7
88	39	20.2	ATOMIC ABSORPTION, FLAMELESS	3
106	31	-4.5	NOT REPORTED	
126	38	17.1	EMISSION, IC PLASMA	3,5

11 Labs had a total range of 20 to 40 and a mean of 32.5 with a standard deviation of 6.7 and a 95% confidence interval of the mean +/- 4.5.

Table 16 Standard Reference Water Sample SED2 Report for ZN

Code Number	Reported value	Pct. dev. from mean	Methods	References
1	1.35	-11.2	EMISSION, IC PLASMA	3,5
4	1.48	-2.7	EMISSION, IC PLASMA	3,5
18	1.20	-21.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
35	1.88	23.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
39	1.21	-20.4	NOT REPORTED	
44	1.85	21.7	EMISSION, IC PLASMA	3,5
46	1.51	-0.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
54	1.70	11.8	EMISSION, IC PLASMA	3,5
58	1.50	-1.4	EMISSION, IC PLASMA	3,5
64	1.46	-4.0	EMISSION, IC PLASMA	3,5
80	1.44	-5.3	EMISSION, IC PLASMA	3,5
88	12.00	689.2	REJECT	
98	1.65	8.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	1.50	-1.4	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
106	1.57	3.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
116	1.34	-11.9	EMISSION, IC PLASMA	3,5
126	1.69	11.1	ANODIC STRIPPING VOLTAMMETRY	
			EMISSION, IC PLASMA	3,5

17 Labs had a total range of 1.20 to 12.00 and a mean of 1.521 with a standard deviation of 0.199 and a 95% confidence interval of the mean +/- 0.106.

Table 17. Statistics by method for standard reference sample SED2

Determination	Method	Range:		Mean	Standard Deviation	N
		from	to			
AG	_OVER-ALL_	0.100	22.000	3.900	1.306	9
AL	ATOMIC ABSORPTION, DIRECT, FLAMELESS	4.800	9.190	7.150	2.211	3
	EMISSION, IC PLASMA	6.400	12.800	9.516	2.123	8
	_OVER-ALL_	0.780	13.780	8.580	2.764	16
AS	ATOMIC ABSORPTION, FLAMELESS	89.000	173.000	169.750	2.872	4
	ATOMIC ABSORPTION, HYDRIDE, (NABH <sub>4</sub> )	11.000	650.000	149.000	32.843	4
	EMISSION, IC PLASMA	130.000	188.000	162.667	29.687	3
	_OVER-ALL_	11.000	650.000	150.308	33.031	13
B	EMISSION, IC PLASMA	2.000	58.000	21.000	25.000	5
	_OVER-ALL_	2.000	500.000	21.000	25.000	5
BA	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	140.000	250.000	201.333	56.083	3
	EMISSION, IC PLASMA	160.000	228.000	191.000	25.774	8
	_OVER-ALL_	107.000	250.000	181.875	38.680	16
BE	EMISSION, IC PLASMA	0.500	32.000	0.933	0.217	6
	_OVER-ALL_	0.020	32.000	1.029	0.237	9
CA	ATOMIC ABSORPTION, DIRECT, AIR	15.000	19.900	17.800	2.045	4
	EMISSION, IC PLASMA	14.000	39.200	16.043	1.403	7
	_OVER-ALL_	9.200	39.200	16.393	1.917	14
CD	ATOMIC ABSORPTION, DIRECT, AIR	5.000	10.500	7.700	2.264	4
	ATOMIC ABSORPTION, FLAMELESS	9.500	13.000	9.850	0.289	4
	EMISSION, IC PLASMA	1.600	10.600	8.217	1.568	6
	_OVER-ALL_	1.600	13.000	8.765	1.905	17
CO	EMISSION, IC PLASMA	3.000	110.000	10.180	2.640	5
	_OVER-ALL_	3.000	110.000	9.620	2.754	10
CR TOT	ATOMIC ABSORPTION, DIRECT, AIR	12.000	18.000	15.500	3.122	3
	ATOMIC ABSORPTION, FLAMELESS	10.000	16.000	13.075	3.216	4
	EMISSION, IC PLASMA	9.900	25.000	14.060	5.091	5
	_OVER-ALL_	2.200	25.000	14.007	3.941	15
CU	ATOMIC ABSORPTION, DIRECT, AIR	0.990	8.500	1.172	0.178	5
	EMISSION, IC PLASMA	0.930	1.600	1.225	0.207	8
	_OVER-ALL_	0.780	8.500	1.182	0.229	16
FE	ATOMIC ABSORPTION, DIRECT, AIR	2.240	32.150	24.913	6.111	4
	EMISSION, IC PLASMA	14.360	26.860	23.945	1.935	8
	_OVER-ALL_	2.240	32.150	22.938	5.316	15
HG	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR	0.490	1.200	0.820	0.269	10
	_OVER-ALL_	0.490	9.900	0.838	0.252	12
K	ATOMIC ABSORPTION, DIRECT, AIR	1.500	2.500	2.023	0.355	8
	EMISSION, IC PLASMA	2.300	2.500	2.378	0.088	4
	_OVER-ALL_	1.170	2.680	2.109	0.419	15
LI	EMISSION, IC PLASMA	11.000	500.000	14.250	2.754	4
	_OVER-ALL_	11.000	500.000	15.000	2.450	6
MG	ATOMIC ABSORPTION, DIRECT, AIR	4.600	7.000	5.713	0.855	6
	EMISSION, IC PLASMA	4.300	14.600	5.145	0.523	6
	_OVER-ALL_	4.000	14.600	5.332	0.751	15
MN	ATOMIC ABSORPTION, DIRECT, AIR	1.150	1.660	1.424	0.183	5
	EMISSION, IC PLASMA	1.300	1.720	1.479	0.122	9
	_OVER-ALL_	0.990	1.720	1.433	0.170	18
MO	EMISSION, IC PLASMA	2.200	55.000	4.975	2.812	4
	_OVER-ALL_	2.200	71.000	4.733	2.261	6
NA	ATOMIC ABSORPTION, DIRECT, AIR	0.150	27.500	0.234	0.061	5
	EMISSION, IC PLASMA	0.120	1.720	0.185	0.058	6
	_OVER-ALL_	0.120	27.500	0.211	0.060	12
NI	ATOMIC ABSORPTION, DIRECT, AIR	9.100	20.000	13.700	5.645	3
	ATOMIC ABSORPTION, FLAMELESS	14.800	27.000	20.700	6.710	4
	EMISSION, IC PLASMA	8.000	27.400	11.000	2.939	5
	_OVER-ALL_	1.000	27.400	14.763	6.768	16
PB	ATOMIC ABSORPTION, DIRECT, AIR	130.000	184.000	153.250	24.047	4
	ATOMIC ABSORPTION, FLAMELESS	90.000	200.000	153.250	46.053	4
	EMISSION, IC PLASMA	121.000	269.000	153.286	16.570	7
	_OVER-ALL_	90.000	269.000	152.647	25.380	17
SB	_OVER-ALL_	0.100	50.000	4.571	3.430	7
SE	ATOMIC ABSORPTION, HYDRIDE	0.100	1.100	0.567	0.367	6
	_OVER-ALL_	0.100	10.000	0.550	0.330	8
SR	EMISSION, IC PLASMA	29.000	58.000	46.400	11.546	5
	_OVER-ALL_	10.000	67.000	51.778	11.200	9
V	EMISSION, IC PLASMA	20.000	39.000	31.714	6.993	7
	_OVER-ALL_	20.000	40.000	32.455	6.743	11
ZN	ATOMIC ABSORPTION, DIRECT, AIR	1.200	1.880	1.530	0.226	6
	EMISSION, IC PLASMA	1.350	1.850	1.575	0.162	8
	_OVER-ALL_	1.200	12.000	1.521	0.199	16

Table 18 Most Probable Values (Means) for Constituents in the Standard Reference Samples

Min - lowest value reported  
 Max - highest value reported  
 Mean - the average of all the reported values  
 (except for the rejected or ignored values)

Std. Dev. - Standard Deviation  
 95% +- 95% confidence interval of the mean +/-  
 N - the number of labs reporting a value

Values based on laboratories having average ratings of at least 2.60 for sample M96

Constituent	Min	Max	Mean	Std. Dev.	95% +-	N
ALK(CACO3)	95.00	141.00	117.72	3.55	0.93	58
B	20.00	1,100.00	115.35	53.64	21.67	26
BR	----- insufficient data -----					
CA	39.00	48.00	43.32	2.05	0.52	63
CL	21.00	77.00	38.60	1.57	0.42	57
DSRD 180	380.00	500.00	407.31	13.77	3.95	49
F	1.20	1.80	1.44	0.10	0.03	50
K	2.60	34.20	3.45	0.31	0.09	53
MG	11.00	28.00	21.80	1.12	0.29	61
NA	52.00	79.00	58.40	2.49	0.66	58
NO3-N	----- unstabilized nutrient constituent -----					
P, TOTAL	0.11	1.00	0.37	0.02	0.01	42
PH	8.10	9.50	8.76	0.14	0.04	62
SIO2	11.00	21.00	13.61	1.26	0.37	46
SO4	115.00	200.00	138.55	7.68	2.07	55
SP. COND.	310.00	710.00	639.84	25.85	6.63	61
SR	49.00	794.00	538.00	29.24	13.31	21
V	5.50	14.00	7.34	1.52	0.96	12

Values based on laboratories having average ratings of at least 2.60 for sample T97

Constituent	Min	Max	Mean	Std. Dev.	95% +-	N
ACID@CACO3	810.00	1,100.00	855.45	30.78	20.68	11
AG	2.00	17.00	6.96	1.95	0.64	34
AL	40.00	300.00	126.21	42.12	16.02	29
AS	1.80	15.00	1.34	1.48	0.49	37
B	121.00	810.00	366.95	100.80	48.58	19
BA	40.00	200.00	98.00	12.43	4.26	35
CA	32.60	62.90	53.86	2.09	0.69	38
CD	8.00	22.00	16.31	2.26	0.63	51
CO	2.00	42.00	6.33	2.55	1.41	15
CR TOT	15.00	39.00	26.04	4.33	1.24	49
CU	5.00	30.00	16.80	2.48	0.78	41
FE	50.00	120.00	100.29	9.16	2.65	48
HG	0.60	2.10	0.92	0.15	0.05	34
K	0.50	5.00	3.65	0.33	0.12	31
LI	32.00	63.00	47.67	7.72	4.27	15
MG	9.60	24.00	18.88	1.01	0.33	38
MN	21.00	40.00	30.51	3.22	0.91	51
MO	30.00	42.00	35.74	3.63	1.75	19
NA	51.00	68.00	59.37	3.13	1.01	39
NI	6.00	42.00	15.18	5.85	2.27	28
PB	6.00	110.00	15.03	3.67	1.19	39
SB	3.00	39.00	15.69	11.29	6.83	13
SE	2.70	24.00	15.89	3.37	1.14	36
SIO2	4.40	8.30	7.12	0.52	0.24	21
SR	50.00	730.00	514.21	18.95	9.13	19
V	6.00	300.00	7.22	1.30	1.00	9
ZN	127.00	189.00	153.29	9.60	2.76	49

Values based on laboratories having average ratings of at least 2.60 for sample P10  
 \*\* All values for this sample are questionable due to sample instability resulting from bacterial contamination. \*\*

Constituent	Min	Max	Mean	Std. Dev.	95% +-	N
ACID@CACO3	0.80	16.00	1.65	0.79	0.83	6
CA	0.06	0.18	0.11	0.03	0.02	18
CL	0.05	0.35	0.08	0.03	0.02	9
F	----- insufficient data -----					
K	0.00	0.03	0.02	0.01	0.01	10
MG	0.00	0.03	0.01	0.01	0.00	14
NA	0.02	0.10	0.04	0.02	0.01	13
NH3-N	----- unstabilized nutrient constituent -----					
NO3-N	----- unstabilized nutrient constituent -----					
PH	4.60	5.68	5.04	0.25	0.11	21
PO4-P	----- unstabilized nutrient constituent -----					
SO4	0.30	1.30	0.68	0.34	0.20	13
SP. COND.	3.10	8.00	5.32	1.15	0.52	21

Values based on laboratories having average ratings of at least 2.60 for sample N17

Constituent	Min	Max	Mean	Std. Dev.	95% +-	N
NH3-N	0.01	0.20	0.05	0.04	0.02	23
NO2-N	0.03	0.06	0.06	0.01	0.00	31
NO3-N	0.28	1.66	1.05	0.05	0.02	42
ORG-N	0.10	2.54	0.70	0.67	0.28	25
P, TOTAL	0.30	0.50	0.41	0.04	0.01	40
PO4-P	0.19	0.42	0.24	0.03	0.01	35

Table 18 Most Probable Values (Means) for Constituents in the Standard Reference Samples

Min - lowest value reported  
 Max - highest value reported  
 Mean - the average of all the reported values  
 (except for the rejected or ignored values)

Std. Dev. - Standard Deviation  
 95% +- 95% confidence interval of the mean +/-  
 N - the number of labs reporting a value

Values based on Laboratories having average ratings of at least 2.60 for sample SED2

Constituent	Min	Max	Mean	Std. Dev.	95% +-	N
AG	2.20	22.00	3.18	0.60	0.74	5
AL	5.43	13.78	8.82	2.33	1.57	8
AS	11.00	650.00	143.88	33.20	27.76	11
B			insufficient data			0
BA	107.00	250.00	179.00	43.94	29.52	11
BE	0.74	32.00	0.98	0.29	0.35	5
C, INORG			insufficient data			1
C, TOTAL			insufficient data			1
CA	9.20	19.90	17.03	1.71	1.22	10
CD	5.00	10.50	8.32	1.65	0.99	13
CO	5.00	110.00	8.99	2.72	2.52	7
CR TOT	8.00	18.00	13.17	3.56	2.39	11
CU	0.78	1.53	1.14	0.20	0.13	12
FE	2.24	32.15	22.76	4.78	3.42	10
HG	0.49	1.20	0.76	0.24	0.19	9
K	1.50	2.68	2.10	0.35	0.24	11
LI	11.00	17.00	13.67	3.06	7.59	3
MG	4.30	5.80	5.19	0.46	0.31	11
MN	0.99	1.72	1.47	0.11	0.08	11
MO	2.20	55.00	4.57	3.04	7.56	3
NA	0.13	27.50	0.22	0.06	0.05	9
NI	8.00	26.00	10.84	2.05	1.58	9
PB	90.00	184.00	148.77	24.42	14.76	13
SB	0.60	7.00	4.36	2.53	3.14	5
SE	0.10	1.10	0.59	0.34	0.31	7
SR	29.00	67.00	49.83	13.32	13.98	6
V	20.00	40.00	30.14	7.34	6.78	7
ZN	1.20	1.70	1.48	0.14	0.09	12