

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

REPORT OF THE U.S. GEOLOGICAL SURVEY'S ANALYTICAL EVALUATION
PROGRAM--STANDARD REFERENCE WATER SAMPLES M-86 (MAJOR
CONSTITUENTS), T-87 (TRACE CONSTITUENTS), N-10 and N-11 (NUTRIENTS), P-5
(PRECIPITATION SNOWMELT), AND POL-1 (PRIORITY POLLUTANTS).

By Victor J. Janzer and Kristine A. Latal

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N-11 (NUTRIENTS), P-5 (PRECIPITATION SNOWMELT), AND
POL-1 (PRIORITY POLLUTANTS)

By Victor J. Janzer and Kristine A. Latal

ABSTRACT

The U.S. Geological Survey began an interlaboratory testing program of reference water samples in 1962. Program objectives then and now are to provide a means for participating water laboratories to: (1) Identify analytical problem areas; (2) ascertain the accuracy and precision of common water analyses and analytical methods; and (3) provide reference samples for quality-assurance testing. Participation in this continuing quality-assurance program is mandatory for all domestic laboratories providing water-analysis data for U.S. Geological Survey use.

This report presents analytical data submitted by the laboratories that analyzed the reference samples distributed in October 1983. Relative performance ratings achieved by the laboratories for each determination, statistical evaluation of the data, and a data summary are given in 18 tables.

INTRODUCTION

The U.S. Geological Survey began an interlaboratory testing program of reference water samples in 1962 with a single major-constituent reference sample prepared from distilled water and reagent grade chemicals. Principal objectives of this continuing program are to provide a means for participating water laboratories to: (1) Identify analytical problem areas; (2) ascertain the accuracy and precision of analytical methods for determining various constituents and physical properties of water; and (3) provide reference samples for continuing quality-assurance testing of U.S. Geological Survey and various cooperator and contract laboratories. Only 23 U.S. Geological Survey laboratories participated in the 1962 effort to determine 6 constituents in a single major-constituent Standard Reference Water Sample (SRWS). Today, more than 120 laboratories, both Survey and non-Survey, participate in the program, which currently uses eight SRWS types: (1) Major constituents; (2) trace constituents; (3) nutrients; (4) herbicides; (5) insecticides; (6) water and suspended-sediment mixture for trace metals; (7) precipitation snowmelt; and (8) priority pollutants.

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 SRWS types also may be included. This report presents analytical data submitted by the laboratories that

analyzed the reference samples distributed to them in October 1983. Samples were analyzed during November, and data were requested to be submitted by December 1. Relative performance ratings achieved by the laboratories for each determination, statistical evaluation of the data, and a priority-pollutant SRWS data summary are given in 18 tables.

PURPOSE AND PLAN

This program alerts participating laboratories to deficiencies in their analytical operations, and provides reference solutions for quality assurance testing. Standard Reference Water Samples are prepared and distributed every 6 months for analysis by U.S. Geological Survey and other cooperating laboratories. These analyses provide independent and objective evaluations of water-quality data from these laboratories for publication. Non-U.S. Geological Survey laboratories participating in this study are identified in this report only by a confidential code number. U.S. Geological Survey laboratories participating in this study are identified by location and code number.

This report summarizes the analytical results submitted by 90 laboratories for SRWS M-86 (major constituents), SRWS T-87 (trace constituents), SRWS N-10 and N-11 (nutrients), SRWS P-5 (precipitation snowmelt), and SRWS POL-1 (priority pollutants) distributed during October 1983. Not all samples are necessarily analyzed by all laboratories, nor do all laboratories participate in each round of analyses. Each participating laboratory was asked to perform at least those determinations that it makes routinely. Each laboratory was requested to indicate the analytical methods used for each constituent and those methods are listed in the data tables. Blank spaces appear in the method columns when no method was indicated.

PREPARATION OF SAMPLES

SRWS M-86 (major constituents), SRWS T-87 (trace constituents), and SRWS N-11 (nutrients), were prepared from untreated natural surface water collected from the same source. Samples were filtered through a 10- μ m (micrometer) nominal-size prefilter, followed by a 5- μ m nominal-size intermediate and a 0.45- μ m membrane final filter, into a large polyethylene drum. Thymol [1.25 mg/L (milligrams per liter)], was added to filtered water used to prepare samples SRWS M-86 and T-87.

Some trace constituents were added to SRWS M-86. SRWS T-87 was acidified to a pH of about 1.5 with nitric acid. Each sample was mixed overnight with a motor-driven Teflon^{1/} coated stirrer, after which it was filtered again through a 0.45- μ m membrane filter, then passed through a flow-through ultraviolet [254-nm (nanometer)] sterilizer and packaged under ultraviolet radiation, in dry-heat sterilized 1-L (liter) Teflon bottles.

^{1/}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.

Approximately 400 L of two different untreated surface waters were collected and filtered through a 0.45- μ m membrane filter to prepare SRWS N-10 and N-11 (nutrients). Mercuric chloride (50 mg/L) as a preservative and sodium chloride (450 mg/L) were then added. This is equivalent to the U.S. Geological Survey technique for field preservation of nutrient samples, using mercuric chloride-sodium chloride tablets. Each sample was then mixed overnight with a motor-driven stirrer, packaged without sterilization, and stored at 4°C (Celsius). The samples were packed in ice prior to distribution.

SRWS P-5 (precipitation snowmelt) was prepared by melting snow collected in several 200-L polyethylene drums. After melting, the sample was filtered through a 0.45- μ m membrane filter. No additions of any kind were made to this sample. After mixing overnight with a motor-driven stirrer, the sample was again filtered through a 0.45- μ m filter, sterilized by passage through a flow-through ultraviolet sterilizer (254 nm), then packaged under ultraviolet radiation in sterilized 1-L Teflon bottles.

SRWS POL-1 (priority pollutants) was prepared from the same filtered raw surface water used to prepare SRWS M-86 and T-87. An accurately measured 206-L volume of the filtered raw water was transferred to a Teflon-lined steel drum. Milligram quantities of the selected pollutant standards were weighed and dissolved in acetone, which was then added dropwise into the stirred raw water. A Teflon-coated propeller-type motor-driven stirrer was used to mix the solution during preparation and bottling. After stirring for several hours, a Teflon-diaphragm pump fitted with Teflon and glass tubing was used to transfer the solution into clean, baked, 1-L glass bottles with Teflon-lined caps. Some of the samples were packaged in 1-L Teflon bottles. Neither type bottle was rinsed with the test solution before filling. Samples were then refrigerated at 4°C in the dark, until distributed in iced coolers to the analyzing laboratories.

DETERMINATIONS

Determinations for each of the SRWS and their abbreviations are listed below. These abbreviations and symbols are used in tables 2-18. Additional abbreviations and symbols used in tables 7-18 are explained in table 1.

Standard Reference Water Sample M-86 (major constituents) (results in milligrams per liter^{1/})

ALK(CACO ₃)	= Alkalinity (as CaCO ₃)	NO ₂ -N	= Nitrite as nitrogen
B	= Boron	PH	= pH
BR	= Bromide	P, TOTAL	= Phosphorus, Total as phosphorus
CA	= Calcium	K	= Potassium
CL	= Chloride	SIO ₂	= Silica
DSRD 180	= Dissolved solids	NA	= Sodium
F	= Fluoride	SP. COND.	= Specific conductance
I	= Iodide	SR	= Strontium
MG	= Magnesium	SO ₄	= Sulfate
NO ₃ -N	= Nitrate as nitrogen	V	= Vanadium

Standard Reference Water Sample T-87 (trace constituents) (results in micrograms per liter^{2/})

ACID@CACO ₃	= Acidity (as CaCO ₃)	PB	= Lead
AL	= Aluminum	LI	= Lithium
SB	= Antimony	MN	= Manganese
AS	= Arsenic	HG	= Mercury
BA	= Barium	MO	= Molybdenum
BE	= Beryllium	NI	= Nickel
CD	= Cadmium	SE	= Selenium
CR TOT	= Chromium, total	AG	= Silver
CO	= Cobalt	SR	= Strontium
CU	= Copper	TL	= Thallium
FE	= Iron	ZN	= Zinc

^{1/} Except specific conductance (microsiemens or micromhos per centimeter at 25°C); pH (units); boron, bromide, iodide, strontium, and vanadium (micrograms per liter).

^{2/} Except acidity (milligrams per liter).

Standard Reference Water Samples N-10 and N-11 (nutrients)
(results in milligrams per liter)

NH ₃ -N	= Ammonia as nitrogen	ORG-N	= Organic nitrogen as nitrogen
NO ₃ -N	= Nitrate as nitrogen	PO ₄ -P	= Orthophosphate as phosphorus
NO ₂ -N	= Nitrite as nitrogen	P,TOTAL	= Phosphorous, total as phosphorus

Standard Reference Water Sample P-5 (precipitation snowmelt)
(results in milligrams per liter ^{3/})

CA	= Calcium	PH	= pH
CL	= Chloride	K	= Potassium
F	= Fluoride	NA	= Sodium
MG	= Magnesium	SP. COND.	= Specific conductance
NH ₃ -N	= Ammonia as nitrogen	SO ₄	= Sulfate
NO ₃ -N	= Nitrate as nitrogen		

Standard Reference Water Sample POL-1 (priority pollutants)
(results in micrograms per liter)

12 BENZANTH	= 1,2-Benzanthracene	B12 CLETETH	= Bis-(2-chloroethyl) ether
246 CLPHNOL	= 2,4,6-Trichlorophenol	FLUORANTHN	= Fluoranthene
24 CLRPHNOL	= 2,4-Dichlorophenol	FLUORENE	= Fluorene
26 NITTOLUN	= 2,6-Dinitrotouene	HEXCLRBENZ	= Hexachlorobenzene
2 NITPHENOL	= 2-Nitrophenol	NAPHTHALEN	= Naphthalene
4 NITPHENOL	= 4-Nitrophenol	NITDIPHNAM	= N-nitrosodiphenylamine
4 BRDIPHETH	= 4-Bromo-diphenyl ether	PYRENE	= Pyrene
ACENPHTHLN	= Acenaphthylene		

^{3/} Except pH (units) and specific conductance (microsiemens or micromhos per centimeter at 25°C).

STATISTICAL EVALUATION

A statistical evaluation of the data was 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 (1982). 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. Outliers are not recalculated when determining 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.

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 8, 10, 12, 14, 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 SRWS.

Overall-laboratory performance-rating tables have not been included in this report for SRWS POL-1 (priority pollutants). SRWS POL-1 was an experimental sample to determine sample stability, variations in recovery as a function of extraction procedures, and so forth. Analytical data for this sample have been listed as reported. A summary of the analytical data reported for POL-1 is given in Table 18.

LABORATORY PERFORMANCE AND REPORTED VALUES

To facilitate inter-laboratory performance comparisons, ratings based on the analyses reported for each SRWS are included as tables 2-6 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, 1980, Standard methods for the examination of water and wastewater [15th ed.]: Washington, D.C., 1134 p.

2. American Society for Testing and Materials, 1982, Annual book of ASTM standards, Part 31: Philadelphia, PA, U.S.A., 1554 p.
3. Kopp, J. F., and McKee, G. F., 1978, Methods for chemical analysis of water and wastes: Cincinnati, Ohio, U.S. Environmental Protection Agency, 460 p.
4. Skougstad, M. W., Fishman, M. J., Friedman, L. C., Erdmann, D. E., and Duncan, S. S., eds., 1979, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1, 626 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.

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". Method and reference columns are left blank if no method was indicated.

Values reported for all constituents determined in each SRWS are listed in tables 7, 9, 11, 13, 15, and 17. 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).

PARTICIPATING LABORATORIES

U.S. Geological Survey

COLORADO, Denver: 090
FLORIDA, Ocala: 011
GEORGIA, Doraville: 051

GEORGIA, Doraville: 052
LOUISIANA, Baton Rouge: 033

Cooperator

ALABAMA, University: Geological Survey of Alabama

ALASKA, Fairbanks: Alaska Division of Geological & Geophysical Surveys
ALASKA, Soldotna: Alaska Department of Fish & Game

ARKANSAS, Little Rock: Arkansas Department of Pollution Control & Ecology

CALIFORNIA, Bryte: California Department of Water Resources
CALIFORNIA, Castaic: Department of Water Resources Chemical Laboratory
CALIFORNIA, La Mesa: San Diego Water Utilities Laboratory
CALIFORNIA, Los Gatos: Santa Clara Valley Water District
CALIFORNIA, Oakland: East Bay Municipal Utility District
CALIFORNIA, Palm Desert: California Regional Water Quality Control Board #7

COLORADO, Aurora: Core Laboratories Incorporated
COLORADO, Denver: Colorado Department of Health
COLORADO, Denver: Metropolitan Denver Sewage Disposal District
COLORADO, Golden: Rockwell International
COLORADO, Grand Junction: Cathedral Bluffs Shale Oil Company

FLORIDA, Live Oak: Suwannee River Water Management District
FLORIDA, Palatka: St. John's River Water Management District
FLORIDA, Tallahassee: Tallahassee Water Quality Laboratory
FLORIDA, Tampa: Hillsborough Environmental Protection Commission
FLORIDA, West Palm Beach: South Florida Water Management District

GEORGIA, Albany: Water, Gas & Light Commission
GEORGIA, Athens: Soil Testing & Plant Tissue Analysis Laboratory
GEORGIA, Atlanta: Environmental Protection Division, Department of Natural Resources

ILLINOIS, Champaign: Illinois Environmental Protection Agency
ILLINOIS, Chicago: Illinois Environmental Protection Agency

INDIANA, Indianapolis: Marion County Public Health Laboratory

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

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

LOUISIANA, Lake Charles: Core Labs, Inc.

MAINE, Augusta: Maine Department of Environmental Protection

Cooperator--continued

MARYLAND, Baltimore: Martel Laboratory Services

MASSACHUSETTS, Barnstable: Barnstable County Health Department
MASSACHUSETTS, Wellesley: Massachusetts Department of Public Works

MICHIGAN, Lansing: Michigan Department of Natural Resources

MINNESOTA, St. Paul: Metropolitan Waste Control Commission

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

MONTANA, Butte: Montana Bureau of Mines & Geology

NEVADA, Boulder City: U.S. Bureau of Reclamation, Lower Colorado Regional
Laboratory

NEVADA, Reno: Desert Research Institute
NEVADA, Reno: Nevada State Health Laboratory

NEW HAMPSHIRE, Concord: Water Supply & Pollution Control Commission

NEW JERSEY, Tom's River: Ocean County Health Department
NEW JERSEY, Trenton: New Jersey Department of Health

NEW MEXICO, Albuquerque: New Mexico State Scientific Laboratory
NEW MEXICO, Albuquerque: New Mexico Water Resources Laboratory
NEW MEXICO, Gallup: Bureau of Indian Affairs - Soil, Water & Materials Testing
Laboratory

NEW YORK, Buffalo: Erie County Laboratory - Public Health
NEW YORK, Central Islip: Suffolk County Health Services Department
NEW YORK, Farmingdale: ECO Test Laboratory
NEW YORK, Hempstead: Nassau County Department of Health
NEW YORK, New York: New York City Department of Health Laboratories
NEW YORK, Oakdale: Suffolk County Water Authority
NEW YORK, Rochester: Monroe County Health Laboratory
NEW YORK, Rochester: FEV Wastewater Treatment Facility Laboratory
NEW YORK, Syracuse: University of Syracuse, Department of Civil Engineering
NEW YORK, N. Syracuse: Onondaga County Department of Drainage and Sanitation
NEW YORK, Wantagh: Cedar Creek Wastewater Reclamation Plant
NEW YORK, Westbury: New York Testing Laboratory

NORTH CAROLINA, Charlotte: Mecklenburg County Environmental Health Department

NORTH DAKOTA, Bismarck: North Dakota State Water Commission

OHIO, Columbus: Ohio Environmental Protection Agency Water Quality Laboratory
OHIO, Dayton: The Miami Conservancy District
OHIO, Medina: Medina County Sanitary Engineering Department

OKLAHOMA, Norman: Oklahoma Geological Survey
OKLAHOMA, Oklahoma City: Oklahoma State Department of Agriculture

Cooperator--continued

OREGON, Corvallis: Forestry Sciences Laboratory
OREGON, Sandy: Bureau of Water Works

PUERTO RICO, Puerta de Tierra: Department of Natural Resources

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
TEXAS, Tyler: Core Laboratories

VERMONT, Montpelier: Vermont Department of Water Resources Laboratory

VIRGINIA, Culpepper: Environmental Systems Service
VIRGINIA, Richmond: Commonwealth of VA, Department of General Services, Division
of Consolidated Laboratories

WASHINGTON, Richland: Rockwell Hanford Operation

WEST VIRGINIA, Morgantown: West Virginia Geologic and Economic Survey

WISCONSIN, Madison: State Laboratory of Hygiene
WISCONSIN, Milwaukee: Milwaukee Metropolitan Sewerage District
WYOMING, Casper: Core Laboratories
WYOMING, Cheyenne: Department of Environmental Quality, Water Quality Division
WYOMING, Laramie: Wyoming Department of Agriculture

REFERENCES

American Society for Testing and Materials, 1981, Annual book of ASTM standards, Part 41, Philadelphia, Pa., 1390 p.

_____, 1982, Annual book of ASTM standards, Part 31: Philadelphia, Pa., 1554 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.

Table 1.—Explanation of abbreviations and symbols used in computer printout sections

APDC	- ammonium pyrrolidine dithiocarbamate
AUTO	- automated
AVG	- average
BLK	- block
CHCL ₃	- chloroform
CO'METRIC	- colorimetric
DEV	- deviation
DIG	- digestion
EDTA	- ethylenediaminetetraacetic acid
H ₂ SO ₄	- sulfuric acid
IC	- inductively coupled
IGNORED	- values reported as less than detection level and not used in statistical analyses
INTRVL	- interval
K & HG SO ₄	- potassium & mercuric sulfate
LT	- less than
MIBK	- methyl isobutyl ketone
NABH ₄	- sodium borohydride
ND	- not determined
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
SRWS	- standard reference water sample
STD	- standard

TABLE 2 OVERALL LABORATORY PERFORMANCE (MAJOR CONSTITUENTS)

SRWS M86 (MAJOR CONSTITUENTS)

ABREVIATIONS

ND = NOT DETERMINED

LT = LESS-THAN VALUE REPORTED, NOT RATED

N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED

AVG = AVERAGE LABORATORY PERFORMANCE RATING

RATING	LAB	ALK(CACU3)B	BR	CA	CL	OSRD 180	F	I	K	MG
4 (EXCELLENT)	1	ND	ND	4	0	3	4	ND	2	3
3 (GOOD)	2	4	ND	3	4	4	4	ND	4	3
2 (SATISFACTORY)	4	4	ND	ND	0	ND	ND	ND	ND	ND
1 (QUESTIONABLE)	6	4	ND	0	ND	ND	4	ND	4	0
0 (POOR)	7	4	ND	4	4	2	4	ND	3	3
	8	4	ND	4	4	2	4	ND	4	2
	10	4	ND	0	ND	3	3	ND	ND	ND
	11	0	ND	4	0	4	4	ND	4	4
	12	4	ND	4	4	ND	4	ND	4	2
	13	ND	ND	4	2	1	2	ND	4	1
	14	ND	ND	ND	0	3	ND	ND	ND	ND
	15	4	ND	4	2	2	4	ND	4	4
	16	0	ND	4	2	4	3	ND	2	3
	17	0	ND	0	4	0	4	ND	2	ND
	18	4	ND	3	ND	ND	ND	ND	ND	0
	19	3	ND	1	ND	2	ND	ND	4	2
	20	ND	ND	0	2	ND	ND	ND	3	3
	21	0	ND	3	2	2	1	ND	2	0
	22	4	ND	3	4	4	4	ND	4	2
	23	4	ND	4	4	1	ND	ND	4	2
	24	4	ND	ND	ND	ND	3	ND	ND	ND
	25	4	ND	4	4	2	1	ND	3	2
	26	4	ND	3	1	3	4	ND	2	3
	27	1	ND	4	1	ND	3	ND	3	4
	29	2	ND	4	1	ND	4	ND	ND	4
	30	4	ND	1	ND	ND	4	ND	ND	4
	32	4	ND	0	4	4	4	ND	4	3
	33	4	ND	3	3	4	3	ND	4	3
	34	ND	ND	4	4	4	ND	ND	0	2
	35	4	ND	4	4	3	4	ND	2	0
	36	2	ND	3	4	3	4	ND	4	1
	37	2	ND	0	4	2	0	ND	2	ND
	39	1	ND	3	2	2	4	ND	3	0
	40	4	ND	4	4	3	3	0	4	3
	41	4	ND	4	2	3	3	ND	3	4
	42	4	ND	4	4	3	4	ND	4	4
	44	4	ND	4	3	3	4	ND	2	4
	45	0	ND	3	0	0	0	ND	4	3
	46	4	ND	2	3	0	3	ND	2	3
	47	0	ND	4	0	0	ND	ND	ND	2
	48	4	ND	4	4	4	4	ND	1	4
	49	2	ND	0	2	2	4	ND	2	0
	50	2	ND	ND	ND	ND	ND	ND	2	ND

TABLE 2 OVERALL LABORATORY PERFORMANCE
 SRWS M86 (MAJOR CONSTITUENTS)
 ABBREVIATIONS
 ND = NOT DETERMINED
 LT = LESS-THAN VALUE REPORTED, NOT RATED
 N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
 AVG = AVERAGE LABORATORY PERFORMANCE RATING

RATING	ALK(CAC03)8	BR	CA	CL	DSRD 180	F	I	K	MG
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.								
LAB	051	3	4	4	3	4	0	3	0
052	ND	ND	4	ND	ND	ND	ND	ND	4
053	4	ND	ND	2	ND	4	ND	3	ND
054	4	ND	2	4	4	4	ND	2	0
055	4	ND	3	4	ND	3	ND	3	3
056	4	3	4	2	4	ND	ND	3	3
057	4	3	4	ND	4	0	ND	3	3
058	4	ND	ND	2	ND	4	ND	ND	ND
059	ND	ND	ND	2	ND	2	ND	ND	ND
060	3	4	4	3	0	4	ND	0	3
061	ND	ND	4	4	3	ND	ND	3	4
062	4	ND	2	ND	ND	ND	ND	4	2
063	3	ND	0	0	3	0	ND	2	0
064	3	ND	4	2	4	4	ND	2	4
065	0	ND	1	1	ND	1	ND	3	3
066	0	0	3	2	1	3	ND	3	4
067	1	ND	4	1	4	ND	ND	3	4
068	4	ND	4	4	4	ND	ND	3	4
069	4	ND	4	4	4	ND	ND	4	4
070	4	ND	4	2	2	4	ND	ND	ND
071	0	ND	4	4	ND	ND	ND	ND	ND
072	4	0	4	4	4	3	ND	3	3
073	ND	ND	4	4	ND	ND	ND	3	4
075	4	ND	0	0	0	3	ND	ND	ND
076	3	ND	4	2	4	ND	ND	4	3
077	0	ND	4	0	3	3	ND	4	4
079	ND	ND	4	ND	ND	ND	ND	4	3
080	3	ND	ND	ND	ND	ND	ND	ND	ND
081	1	ND	4	4	3	4	ND	ND	4
082	4	ND	3	4	2	4	ND	ND	0
083	4	ND	ND	2	ND	ND	ND	ND	ND
084	4	4	4	4	3	4	ND	3	3
087	4	ND	0	4	ND	ND	ND	3	2
088	4	ND	0	4	4	3	ND	0	4
089	3	ND	4	3	3	ND	ND	LT	2
090	4	4	4	0	4	4	0	4	4
091	4	ND	4	0	4	4	ND	0	3
093	0	4	0	2	ND	0	ND	2	4
094	2	3	3	4	ND	4	ND	4	2
095	4	ND	4	2	3	4	ND	ND	0
096	3	ND	4	3	2	3	ND	2	4
097	ND	ND	ND	0	ND	ND	ND	ND	ND
098	1	ND	3	1	0	4	ND	0	2
099	3	ND	3	2	3	0	ND	4	4
100	ND	ND	ND	3	ND	ND	ND	ND	ND
101	4	ND	3	4	2	4	ND	3	3
103	4	3	4	3	4	4	ND	4	4
105	ND	ND	0	4	0	3	ND	0	0
107	ND	ND	ND	4	ND	4	ND	0	2

TABLE 2 OVERALL LABORATORY PERFORMANCE

RATING	SRWS M86 (MAJOR CONSTITUENTS)										ABBREVIATIONS										N	AVG.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	4 (EXCELLENT)					3 (GOOD)					2 (SATISFACTORY)					1 (QUESTIONABLE)							0 (POOR)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	0.00 TO 0.50 STD. DEV.					0.51 TO 1.00 STD. DEV.					1.01 TO 1.50 STD. DEV.					1.51 TO 2.00 STD. DEV.							> 2.00 STD. DEV.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	NA	N02-N	N03-N	P, TOTAL	PH	S102	S04	SP. COND.	SR	V																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
LAB	001	002	004	006	007	008	010	011	012	013	014	015	016	017	018	019	020	021	022	023	025	026	027	029	032	033	034	035	036	038	039	040	041	042	044	045	046	047	048	049	050																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	4	4	4	4	3	3	4	4	4	4	ND	4	4	4	4	4	4	4	4	4	ND	1	1	1	3	1	1	3	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	

TABLE 2 OVERALL LABORATORY PERFORMANCE
SRWS M86 (MAJOR CONSTITUENTS)

LAB	NATING	0.00 TO 0.50 STD. DEV.				P ₁ TOTAL	PH	SI02	S04	SP. COND.	SR	V	N	AVG.
		4 (EXCELLENT)	3 (GOOD)	2 (SATISFACTORY)	1 (QUESTIONABLE)	0 (POOR)	DEV.							
51	3	3	0	0	0	0	0	4	4	3	4	3	20	2.95
52	3	3	0	0	0	0	0	4	4	0	0	3	6	3.00
53	0	0	0	0	0	0	0	0	0	0	0	0	6	2.75
54	3	3	0	0	0	0	0	4	4	2	0	0	15	3.07
55	3	3	0	0	0	0	0	4	4	0	0	0	12	2.92
56	4	4	0	0	0	0	0	4	4	3	4	0	16	3.56
57	3	3	0	0	0	0	0	4	4	4	1	0	14	3.21
58	ND	ND	ND	ND	ND	ND	ND	0	0	ND	ND	ND	7	2.86
59	LT	LT	LT	LT	LT	LT	LT	0	0	ND	ND	ND	4	1.50
60	3	3	0	0	0	0	0	4	4	4	0	0	14	3.00
61	4	4	0	0	0	0	0	4	4	ND	ND	ND	8	3.75
62	3	3	0	0	0	0	0	4	4	4	0	0	8	3.38
63	0	0	0	0	0	0	0	2	0	0	0	4	15	1.47
64	4	4	0	0	0	0	0	4	4	2	0	0	12	3.33
65	4	4	0	0	0	0	0	4	4	3	0	0	12	2.58
66	3	3	0	0	0	0	0	4	4	2	4	0	10	2.67
67	4	4	0	0	0	0	0	4	4	0	0	0	13	2.77
68	4	4	0	0	0	0	0	4	4	0	0	0	11	3.64
69	3	3	0	0	0	0	0	4	4	3	0	0	13	2.54
70	2	2	0	0	0	0	0	2	1	4	0	0	7	1.71
71	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	0	0	14	3.21
72	2	2	0	0	0	0	0	4	4	3	0	0	10	3.30
73	0	0	0	0	0	0	0	4	4	ND	ND	ND	11	1.18
74	0	0	0	0	0	0	0	4	4	3	0	0	12	2.92
75	0	0	0	0	0	0	0	4	4	3	0	0	15	2.33
76	3	3	0	0	0	0	0	4	4	0	0	0	7	2.86
77	3	3	0	0	0	0	0	4	4	ND	ND	ND	2	2.50
78	3	3	0	0	0	0	0	4	4	ND	ND	ND	11	3.18
79	3	3	0	0	0	0	0	4	4	4	0	0	10	2.90
80	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	0	0	4	3.25
81	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	0	0	18	3.50
82	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	4	0	9	3.00
83	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	0	0	14	2.93
84	3	3	0	0	0	0	0	4	4	4	0	0	11	2.82
85	4	4	0	0	0	0	0	4	4	4	4	0	20	3.55
86	4	4	0	0	0	0	0	4	4	0	0	0	14	2.57
87	4	4	0	0	0	0	0	4	4	0	0	0	17	1.47
88	1	1	0	0	0	0	0	4	4	1	0	0	15	3.20
89	4	4	0	0	0	0	0	4	4	3	4	0	12	2.42
90	4	4	0	0	0	0	0	4	4	0	0	0	17	3.06
91	4	4	0	0	0	0	0	4	4	3	0	0	4	2.00
92	0	0	0	0	0	0	0	4	4	0	0	0	17	2.35
93	0	0	0	0	0	0	0	4	4	0	0	0	15	2.93
94	1	1	0	0	0	0	0	4	4	3	4	0	7	3.43
95	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	15	3.33
96	3	3	0	0	0	0	0	4	4	3	0	0	13	3.29
97	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	0	0	10	1.62
98	4	4	0	0	0	0	0	4	4	0	0	0	10	2.90
99	4	4	0	0	0	0	0	4	4	0	0	0	10	2.90
100	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	10	2.90
101	3	3	0	0	0	0	0	4	4	3	0	0	10	2.90
102	3	3	0	0	0	0	0	4	4	0	0	0	10	2.90
103	3	3	0	0	0	0	0	4	4	0	0	0	10	2.90
104	0	0	0	0	0	0	0	4	4	0	0	0	10	2.90
105	0	0	0	0	0	0	0	4	4	0	0	0	10	2.90
106	3	3	0	0	0	0	0	4	4	0	0	0	10	2.90
107	3	3	0	0	0	0	0	4	4	0	0	0	10	2.90

TABLE 3 OVERALL LABORATORY PERFORMANCE
 SRWS 187 (TRACE CONSTITUENTS)
 ABBREVIATIONS
 ND = NOT DETERMINED
 LT = LESS-THAN VALUE REPORTED, NOT RATED
 N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
 AVG = AVERAGE LABORATORY PERFORMANCE RATING

RATING	4 (EXCELLENT)	3 (GOOD)	2 (SATISFACTORY)	1 (QUESTIONABLE)	0 (POOR)	0.00 TO 0.50 STD. DEV.	0.51 TO 1.00 STD. DEV.	1.01 TO 1.50 STD. DEV.	1.51 TO 2.00 STD. DEV.	> 2.00 STD. DEV.	AL	AS	BA	BE	CD	CU	CR TOT	CU
LAB	AC10ACAC03AG	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
010	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
016	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
017	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
029	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
030	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
035	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
036	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
039	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
040	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
041	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
042	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
045	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
047	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
048	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
050	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
052	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
054	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
056	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
057	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
059	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
060	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
065	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE 3 OVERALL LABORATORY PERFORMANCE
SRWS 187 (THACE CONSTITUENTS)
ABBREVIATIONS
ND = NOT DETERMINED
LT = LESS-THAN VALUE REPORTED, NOT RATED
N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
AVG = AVERAGE LABORATORY PERFORMANCE RATING

LAB	ACID@CAC03AG	AL	AS	BA	BE	CD	CO	CR Tot	CU
068	LT	3	3	ND	LT	3	ND	LT	4
069	ND	ND	ND	ND	ND	ND	ND	ND	ND
070	ND	ND	ND	ND	ND	ND	ND	ND	3
071	ND	ND	ND	ND	ND	ND	ND	4	2
072	0	LT	ND	LT	ND	LT	ND	LT	LT
073	ND	ND	ND	ND	ND	ND	ND	ND	4
075	2	4	ND	4	ND	1	ND	1	1
076	ND	4	4	ND	ND	2	ND	4	2
077	4	LT	4	LT	ND	LT	ND	LT	LT
079	ND	LT	LT	4	LT	LT	LT	LT	4
080	ND	ND	ND	ND	ND	ND	ND	3	4
081	ND	LT	LT	3	LT	LT	0	4	4
082	ND	ND	2	3	LT	4	LT	3	3
083	ND	ND	4	3	ND	3	ND	3	1
084	ND	ND	4	3	LT	LT	ND	LT	3
087	1	ND	ND	ND	ND	ND	ND	3	3
088	ND	LT	4	4	LT	LT	ND	3	LT
089	ND	ND	3	ND	LT	LT	ND	LT	LT
090	0	LT	3	4	LT	LT	LT	LT	3
094	ND	ND	4	4	ND	ND	2	ND	4
096	ND	LT	LT	LT	ND	LT	LT	LT	LT
097	ND	ND	ND	ND	ND	ND	ND	3	4
098	4	0	LT	0	LT	0	LT	LT	LT
099	ND	LT	3	LT	LT	LT	LT	3	4
100	ND	ND	ND	ND	ND	ND	ND	3	3
105	0	4	4	3	LT	LT	ND	LT	0

TABLE 3 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.

SRWS TR7 (TRACE CONSTITUENTS)

ABBREVIATIONS
 ND = NOT DETERMINED
 LT = LESS-THAN VALUE REPORTED, NOT RATED
 N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
 AVG = AVERAGE LABORATORY PERFORMANCE RATING

LAB	FE	HG	LI	MN	MO	NI	PB	SB	SE	SR
002	2	2	ND	2	ND	3	3	ND	0	ND
006	4	ND	ND	LT	ND	4	LT	ND	3	ND
007	3	4	ND	2	ND	3	3	ND	4	ND
008	3	4	ND	2	ND	ND	2	ND	2	4
010	ND	LT	ND	ND	ND	ND	LT	ND	ND	ND
012	3	0	ND	LT	ND	ND	LT	ND	2	ND
013	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
015	LT	4	ND	LT	ND	LT	LT	ND	4	4
016	3	1	3	3	2	ND	3	ND	3	4
017	4	ND	3	3	0	0	3	ND	ND	2
020	3	ND	3	3	2	4	1	2	1	4
021	ND	0	ND	ND	ND	4	3	ND	4	ND
022	3	ND	ND	3	ND	ND	ND	ND	ND	ND
023	LT	ND	ND	LT	ND	LT	LT	ND	LT	4
026	ND	3	ND	ND	ND	ND	LT	ND	3	ND
027	LT	4	ND	LT	LT	LT	3	LT	4	0
029	ND	3	ND	ND	ND	3	LT	LT	ND	ND
030	LT	ND	ND	LT	ND	ND	2	ND	LT	ND
032	3	3	3	3	4	3	LT	LT	4	0
033	0	ND	ND	0	ND	ND	ND	ND	ND	ND
035	LT	4	ND	LT	ND	ND	4	ND	3	ND
036	2	4	3	3	LT	3	LT	ND	3	ND
039	LT	1	ND	LT	ND	ND	3	ND	4	ND
040	LT	LT	3	LT	4	LT	LT	LT	3	4
041	3	4	3	4	2	LT	LT	LT	3	4
042	LT	4	3	LT	4	3	3	LT	3	0
045	3	LT	LT	0	1	LT	LT	ND	LT	0
046	3	LT	ND	0	ND	2	LT	ND	LT	ND
047	3	3	ND	3	ND	3	3	ND	ND	ND
048	ND	2	ND	3	ND	4	1	ND	ND	4
049	3	3	ND	LT	ND	ND	3	ND	0	ND
050	ND	4	ND	ND	ND	4	ND	ND	ND	ND
051	4	3	3	3	4	3	3	LT	4	4
052	LT	ND	3	3	ND	ND	ND	ND	ND	4
054	LT	LT	ND	LT	ND	ND	3	ND	3	ND
056	ND	ND	3	ND	ND	ND	ND	ND	ND	4
057	ND	ND	1	ND	ND	ND	ND	ND	ND	2
059	0	1	ND	ND	ND	ND	LT	ND	LT	ND
060	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
064	3	LT	ND	3	ND	LT	LT	ND	LT	ND
065	LT	ND	1	ND	ND	ND	ND	ND	ND	ND
067	3	LT	3	3	LT	LT	LT	ND	LT	4

TABLE 3 OVERALL LABORATORY PERFORMANCE
SRWS T87 (TRACE CONSTITUENTS)
ABBREVIATIONS
ND = NOT DETERMINED
LT = LESS-THAN VALUE REPORTED, NOT RATED
N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
AVG = AVERAGE LABORATORY PERFORMANCE RATING

RATING	4 (EXCELLENT)	0.00 TO 0.50	STD. DEV.	LI	MN	NO	NI	PB	SB	SE	SR
LAB	FE	HG	LI	MN	NO	NI	PB	SB	SE	SR	
068	LT	LT	ND	LT	ND	3	LT	LT	LT	ND	ND
069	3	ND	ND	LT	ND	LT	ND	ND	ND	ND	ND
070	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
071	LT	ND	ND	ND	ND	3	4	ND	ND	ND	ND
072	0	ND	ND	0	ND	LT	LT	ND	ND	ND	ND
073	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND
075	0	ND	ND	3	ND	0	4	0	ND	0	0
076	LT	ND	ND	3	4	3	ND	ND	ND	ND	ND
077	4	0	ND	LT	ND	LT	LT	ND	LT	ND	ND
079	4	ND	3	3	LT	LT	LT	ND	LT	3	3
080	0	ND	ND	3	ND	3	ND	ND	ND	ND	ND
081	3	2	ND	3	ND	0	LT	ND	LT	ND	ND
082	3	4	ND	3	ND	4	4	4	ND	ND	ND
083	LT	3	ND	LT	ND	ND	3	ND	3	ND	ND
084	3	3	3	LT	ND	ND	ND	ND	4	4	4
087	LT	ND	ND	ND	ND	4	ND	ND	ND	ND	ND
088	LT	LT	ND	3	1	LT	2	LT	4	ND	ND
089	3	LT	ND	ND	LT	LT	LT	LT	3	ND	ND
090	LT	1	3	0	4	3	3	LT	4	4	4
094	ND	ND	1	LT	ND	ND	ND	ND	3	4	4
096	LT	2	ND	LT	LT	LT	LT	ND	LT	ND	ND
097	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND
098	LT	0	LT	LT	LT	LT	0	0	0	2	2
099	4	LT	0	LT	LT	LT	LT	ND	4	4	4
100	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND
105	3	LT	3	LT	ND	0	4	LT	LT	0	0

TABLE 3 OVERALL LABORATORY PERFORMANCE

RATING	SRWS 187 (TRACE CONSTITUENTS)				ABBREVIATIONS		N	AVG.
	4 (EXCELLENT)	0.00 TO 0.50 STD. DEV.	3 (GOOD)	0.51 TO 1.00 STD. DEV.	ND = NOT DETERMINED	LT = LESS-THAN VALUE REPORTED, NOT RATED		
	2 (SATISFACTORY)	1.01 TO 1.50 STD. DEV.	1 (QUESTIONABLE)	1.51 TO 2.00 STD. DEV.	N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED			
	0 (POOR)	> 2.00 STD. DEV.			AVG = AVERAGE LABORATORY PERFORMANCE RATING			
LA8	TL	ZN						
002	ND	3					14	2.86
006	ND	4					10	3.20
007	ND	4					14	2.93
008	ND	4					15	2.93
010	ND	LT					1	4.00
012	ND	4					6	2.50
013	ND	4					5	2.80
015	ND	LT					6	4.00
016	ND	ND					9	2.78
017	2	0					17	2.12
020	2	3					17	2.41
021	ND	2					10	2.20
022	ND	ND					7	3.00
023	ND	LT					4	2.50
026	ND	ND					4	3.50
027	LT	2					8	3.00
029	ND	ND					5	3.00
030	ND	LT					3	3.33
032	LT	2					13	2.85
033	ND	ND					2	0.00
035	ND	4					10	3.60
036	ND	3					12	3.25
039	2	1					15	2.60
040	LT	3					8	3.50
041	LT	2					10	3.20
042	3	4					18	3.00
045	ND	2					6	1.00
046	ND	2					10	2.30
047	ND	0					13	2.31
048	ND	ND					10	2.70
049	ND	2					11	2.45
050	ND	4					5	4.00
051	ND	4					15	3.47
052	ND	4					5	3.60
054	ND	0					7	2.86
056	ND	4					5	3.60
057	ND	ND					2	1.50
059	ND	LT					3	1.33
060	ND	ND					2	2.00
064	ND	LT					3	2.67
065	ND	ND					1	1.00
067	LT	4					8	2.50

TABLE 3 OVERALL LABORATORY PERFORMANCE

RATING	SRWS TA7 (TRACE CONSTITUENTS)				ABBREVIATIONS		N	AVG.
	4 (EXCELLENT)	0.00 TO 0.50 STD. DEV.	3 (GOOD)	0.51 TO 1.00 STD. DEV.	ND = NOT DETERMINED	LT = LESS-THAN VALUE REPORTED, NOT RATED		
	2 (SATISFACTORY)	1.01 TO 1.50 STD. DEV.	1 (QUESTIONABLE)	1.51 TO 2.00 STD. DEV.	N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED			
	0 (POOR)	> 2.00 STD. DEV.			AVG = AVERAGE LABORATORY PERFORMANCE RATING			
LAB	TL	ZN						
068	LT	4					6	3.33
069	ND	4					2	3.50
070	ND	1					2	2.00
071	ND	4					5	3.40
072	ND	LT					3	0.00
073	ND	4					3	2.67
075	ND	0					13	1.54
076	ND	3					9	1.22
077	LT	LT					4	3.00
079	ND	LT					6	3.50
080	ND	0					6	2.17
081	ND	1					9	2.22
082	4	4					14	3.50
083	ND	3					9	2.89
084	ND	4					9	3.44
087	ND	4					5	3.00
088	LT	4					8	3.13
089	LT	2					4	2.75
090	LT	3					13	2.69
094	ND	3					8	3.13
096	ND	LT					1	2.00
097	ND	4					4	3.75
098	ND	LT					8	0.75
099	ND	4					9	3.11
100	ND	3					4	3.25
105	LT	0					11	1.91

TABLE 4 OVERALL LABORATORY PERFORMANCE
SRWS N10 (NUTRIENTS)

[illegible]

ABBREVIATIONS
ND = NOT DETERMINED
LT = LESS-THAN VALUE REPORTED, NOT RATED
N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED
AVG = AVERAGE LABORATORY PERFORMANCE RATING

RATING	4 (EXCELLENT)		0.00 TO 0.50		STD. DEV.		0.00 TO 0.50		STD. DEV.		0.51 TO 1.00		STD. DEV.		1.01 TO 1.50		STD. DEV.		1.51 TO 2.00		STD. DEV.		2.00		STD. DEV.	
	NH3-N	NH3-N	NH3-N	NH3-N	ORG-N	P, TOTAL	P04-P	N	AVG.																	
3 (GOOD)	1	LT	4	4	4	1	4	5	2.80																	
2 (SATISFACTORY)	4	4	3	4	4	2	0	5	2.83																	
1 (QUESTIONABLE)	2	1	0	3	3	4	4	6	2.33																	
0 (POOR)	0	4	0	0	0	4	3	6	1.83																	
	2	2	3	ND	ND	4	4	5	3.00																	
	3	ND	4	ND	ND	3	4	4	3.50																	
	2	LT	1	2	1	0	0	5	1.20																	
	3	4	3	3	0	3	3	6	2.67																	
	3	3	4	ND	2	4	4	5	3.20																	
	3	3	3	1	2	3	3	6	2.50																	
	ND	ND	4	ND	4	4	4	3	4.00																	
	ND	3	4	ND	4	2	2	4	3.25																	
	3	LT	3	3	4	2	2	5	3.00																	
	3	LT	4	1	4	4	4	5	3.20																	
	3	3	4	4	4	0	0	6	3.00																	
	3	LT	3	ND	ND	4	4	4	2.50																	
	4	LT	2	ND	ND	0	4	4	2.50																	
	ND	4	1	3	3	3	2	5	2.60																	
	0	LT	3	ND	ND	4	3	4	2.50																	
	3	ND	3	ND	ND	4	2	4	3.00																	
	1	4	4	4	4	4	2	6	3.17																	
	4	4	3	4	4	4	3	6	3.67																	
	4	4	3	ND	ND	0	2	5	2.60																	

TABLE 5 OVERALL LABORATORY PERFORMANCE
SRWS N11 (NUTRIENTS)

[illegible]

TABLE 6 OVERALL LABORATORY PERFORMANCE
SRWS P5 (PRECIPITATION)

RATING	4 (EXCELLENT)				0.00 TO 0.50 STD. DEV.				0.51 TO 1.00 STD. DEV.				1.01 TO 1.50 STD. DEV.				1.51 TO 2.00 STD. DEV.				> 2.00 STD. DEV.				ABBREVIATIONS				ND = NOT DETERMINED				LT = LESS-THAN VALUE REPORTED, NOT RATED				N = NUMBER OF CONSTITUENTS LABORATORY DETERMINED				AVG = AVERAGE LABORATORY PERFORMANCE RATING			
	CA	CL	F	K	MG	NA	NH3-N	NO3-N	PH	S04	SP. COND.	N	AVG.	CA	CL	F	K	MG	NA	NH3-N	NO3-N	PH	S04	SP. COND.	N	AVG.	CA	CL	F	K	MG	NA	NH3-N	NO3-N	PH	S04	SP. COND.	N	AVG.					
002	4	3	3	4	4	4	3	4	4	4	3	11	3.64	4	0	0	4	4	4	3	1	0	LT	ND	9	3.64	4	0	0	4	4	4	3	1	0	LT	ND	9	3.64					
006	3	3	4	0	0	4	3	4	3	2	4	11	2.22	3	3	4	0	0	4	3	4	3	2	4	11	2.22	3	3	4	0	0	4	3	4	3	2	4	11	2.22					
007	2	3	2	2	3	3	ND	2	3	4	4	10	2.73	2	3	2	2	3	3	ND	2	3	4	10	2.73	2	3	2	2	3	4	4	4	4	4	10	2.73							
008	4	3	2	2	3	3	3	4	2	4	4	11	3.09	4	3	2	2	3	3	4	4	4	4	11	3.09	4	3	2	2	3	4	4	4	4	4	11	3.09							
009	LT	ND	LT	ND	LT	LT	4	0	4	LT	3	4	2.75	LT	ND	LT	ND	LT	LT	4	0	4	LT	3	4	2.75	LT	ND	LT	ND	LT	3	3	4	4	4	4	11	2.82					
010	4	3	4	2	3	0	3	3	3	3	3	11	2.82	4	3	4	2	3	3	3	3	3	3	11	2.82	4	3	4	2	3	4	4	4	4	4	11	2.82							
011	0	0	LT	3	ND	3	2	4	4	2	1	9	2.11	0	0	LT	3	ND	3	2	4	4	2	1	9	2.11	0	0	LT	3	ND	4	4	4	4	4	9	2.11						
017	2	ND	ND	ND	LT	ND	3	4	4	ND	4	5	3.40	2	ND	ND	ND	LT	ND	3	4	4	ND	4	5	3.40	2	ND	ND	ND	4	4	4	4	4	4	5	3.40						
018	3	ND	ND	4	4	3	4	4	4	ND	4	8	3.75	3	ND	ND	4	4	4	4	4	4	ND	4	8	3.75	3	ND	ND	ND	4	4	4	4	4	4	8	3.75						
020	ND	2	ND	ND	ND	ND	4	2	3	ND	2	5	2.60	ND	2	ND	ND	ND	ND	4	2	3	ND	2	5	2.60	ND	2	ND	ND	4	4	4	4	4	4	5	2.60						
021	ND	ND	4	3	ND	ND	ND	0	2	ND	4	4	2.50	ND	ND	ND	3	ND	ND	ND	0	2	ND	4	4	2.50	ND	ND	ND	ND	4	4	4	4	4	4	4	4	2.50					
022	2	2	1	3	3	4	3	2	4	0	4	11	2.55	2	2	1	3	3	4	3	2	4	0	11	2.55	2	2	1	3	3	4	4	4	4	4	4	11	2.55						
023	0	LT	ND	0	0	0	LT	0	4	LT	3	7	1.00	0	LT	ND	0	0	0	LT	0	4	LT	3	7	1.00	0	LT	ND	ND	4	4	4	4	4	4	7	1.00						
027	4	LT	4	LT	LT	4	0	2	4	2	3	8	2.88	4	LT	4	LT	LT	4	0	2	4	2	8	2.88	4	LT	4	LT	4	4	4	4	4	4	4	8	2.88						
029	2	4	1	ND	3	ND	ND	ND	4	ND	3	6	2.83	2	4	1	ND	3	ND	ND	ND	4	ND	6	2.83	2	4	1	ND	4	4	4	4	4	4	6	2.83							
030	LT	ND	LT	ND	LT	3	ND	0	2	0	4	5	1.80	LT	ND	LT	ND	LT	3	ND	0	2	0	5	1.80	LT	ND	LT	ND	4	4	4	4	4	4	5	1.80							
032	3	4	ND	4	3	4	ND	4	0	LT	3	8	3.13	3	4	ND	4	3	4	ND	0	LT	3	8	3.13	3	4	ND	4	4	4	4	4	4	4	8	3.13							
034	2	0	ND	3	3	0	ND	4	4	2	0	10	1.90	2	0	ND	3	3	0	ND	4	2	0	10	1.90	2	0	ND	4	4	4	4	4	4	4	10	1.90							
035	1	3	4	3	4	4	4	4	4	2	3	11	3.27	1	3	4	3	4	4	4	4	2	3	11	3.27	1	3	4	3	4	4	4	4	4	4	11	3.27							
036	3	3	LT	4	4	4	ND	4	4	4	2	9	3.56	3	3	LT	4	4	4	ND	4	4	4	9	3.56	3	3	LT	4	4	4	4	4	4	9	3.56								
038	2	0	4	4	ND	4	LT	4	3	2	4	8	3.00	2	0	4	4	ND	4	LT	4	3	2	8	3.00	2	0	4	4	4	4	4	4	4	8	3.00								
040	4	0	LT	LT	4	LT	3	4	4	4	3	8	3.25	4	0	LT	LT	4	LT	3	4	4	4	8	3.25	4	0	LT	LT	4	4	4	4	4	8	3.25								
044	2	3	2	0	0	2	4	3	3	3	4	11	2.36	2	3	2	0	0	2	4	3	3	4	11	2.36	2	3	2	0	0	4	4	4	4	4	11	2.36							
046	4	LT	LT	4	LT	3	LT	3	4	ND	4	6	3.67	4	LT	LT	4	LT	3	3	4	ND	4	6	3.67	4	LT	LT	4	4	4	4	4	4	6	3.67								
048	4	3	4	3	0	0	3	4	0	LT	4	10	2.50	4	3	4	3	0	0	3	4	0	10	2.50	4	3	4	3	4	4	4	4	4	4	10	2.50								
049	2	ND	3	0	3	3	4	0	3	0	0	10	1.80	2	ND	3	0	3	3	4	0	0	10	1.80	2	ND	3	0	4	4	4	4	4	4	10	1.80								
050	ND	ND	ND	ND	ND	ND	3	4	4	4	3	9	2.80	ND	ND	ND	ND	ND	ND	3	4	4	4	9	2.80	ND	ND	ND	ND	4	4	4	4	4	4	9	2.80							
051	1	4	LT	4	4	4	LT	1	4	4	4	9	3.33	1	4	LT	4	4	4	LT	1	4	4	9	3.33	1	4	LT	4	4	4	4	4	4	9	3.33								
052	3	3	LT	ND	LT	LT	ND	4	ND	4	ND	4	1.50	3	3	LT	ND	LT	LT	ND	4	ND	4	4	1.50	3	3	LT	ND	4	4	4	4	4	4	4	4	1.50						
053	ND	4	3	4	ND	1	4	ND	4	ND	3	7	3.29	ND	4	3	4	ND	1	4	ND	4	ND	7	3.29	ND	4	3	4	4	4	4	4	4	4	7	3.29							
055	3	3	ND	4	4	3	ND	3	3	ND	3	8	3.25	3	3	ND	4	ND	3	ND	3	3	ND	8	3.25	3	3	ND	4	4	4	4	4	4	8	3.25								
056	3	3	ND	3	4	3	ND	4	3	ND	4	9	3.44	3	3	ND	3	ND	3	ND	4	4	ND	9	3.44	3	3	ND	4	4	4	4	4	4	9	3.44								
059	ND	LT	LT	ND	ND	ND	ND	LT	ND	4	ND	1	4.00	ND	LT	LT	ND	ND	ND	LT	ND	4	ND	1	4.00	ND	LT	LT	ND	4	4	4	4	4	4	1	4.00							
060	0	ND	4	ND	ND	3	ND	4	3	ND	0	7	2.00	0	ND	4	ND	ND	3	ND	3	ND	0	7	2.00	0	ND	4	ND	4	4	4	4	4	7	2.00								
064	LT	3	LT	LT	LT	LT	LT	ND	ND	LT	LT	1	3.00	LT	3	LT	LT	LT	LT	ND	ND	LT	LT	1	3.00	LT	3	LT	LT	4	4	4	4	4	1	3.00								
065	2	3	2	2	3	3	2	4	4	2	1	9	2.44	2	3	2	2	3	3	ND	4	2	1	9	2.44	2	3	2	2	4	4	4	4	4	9	2.44								
067	3	0	LT	2	4	2	0	4	3	LT	4	8	2.75	3	0	LT	2	4	2	0	3	LT	4	8	2.75	3	0	LT	2	4	4	4	4	4	8	2.75								
068	4	LT	ND	4	4	4	0	3	2	1	LT	6	3.17	4	LT	ND	4	4	0	3	2	1	6	3.17	4	LT	ND	4	4	4	4	4	4	6	3.17									
073	2	ND	ND	3	4	4	ND	3	3	ND	ND	6	1.17	2	ND	ND	3	4	ND	3	3	ND	ND	6	1.17	2	ND	ND	ND	4	4	4	4	4	6	1.17								
075	0	0	0	ND	ND	0	4	3	0	2	0	9	1.22	0	0	0	ND	ND	0	4	2	0	9	1.22	0	0	0	ND	4	4	4	4	4	9	1.22									
076	2	4	ND	ND	3	1	ND	ND	0	4	4	7	2.57	2	4	ND	ND	3	1	ND	0	4	4	7	2.57	2	4	ND	ND	4	4	4	4	4	7	2.57								

TABLE 6 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.

LAB	CA	CL	F	K	MG	NA	NH ₃ -N	NO ₃ -N	PH	SO ₄	SP. COND.	N	AVG.
077	3	3	2	3	4	1	4	4	1	0	0	11	2.27
078	0	LT	ND	LT	0	LT	ND	ND	3	0	4	5	1.40
079	4	ND	ND	0	4	4	ND	ND	ND	ND	ND	4	3.00
084	3	3	3	0	0	3	ND	3	4	4	4	10	2.70
087	2	2	ND	4	4	3	ND	ND	1	ND	3	7	2.71
089	4	0	4	LT	LT	LT	LT	0	2	LT	0	6	1.67
090	2	3	LT	4	4	4	LT	3	2	4	4	9	3.33
091	4	3	3	4	4	4	3	3	2	2	3	11	3.18
096	2	3	4	3	4	3	LT	ND	0	2	4	9	2.78
097	NO	0	ND	ND	NO	NO	3	ND	ND	ND	ND	2	1.50
098	3	LT	LT	4	4	3	LT	4	2	LT	3	7	3.29
099	4	LT	LT	4	4	3	LT	LT	3	LT	3	6	3.50
102	3	LT	ND	4	4	4	3	4	4	LT	3	8	3.63
105	0	LT	LT	0	0	0	LT	4	4	LT	4	7	1.71
107	2	3	ND	4	4	3	3	3	4	3	ND	9	3.22

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR ALK(CAC03)

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
004	148	1.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
006	151	0.2	TITRATION, COLORIMETRIC, MANUAL	1,2
007	150	0.4	TITRATION, COLORIMETRIC, MANUAL	1,2
008	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
010	152	0.9	TITRATION, COLORIMETRIC, MANUAL	1,2
011	188	24.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
012	152	0.9	OTHER	
015	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
016	189	25.4	TITRATION, ELECTROMETRIC, AUTOMATED	4
017	164	8.8	TITRATION, COLORIMETRIC, MANUAL	1,2
018	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
019	156	3.5	TITRATION, ELECTROMETRIC, AUTOMATED	4
021	164	8.8	TITRATION, COLORIMETRIC, MANUAL	1,2
022	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
023	151	0.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
025	152	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
026	150	0.4	TITRATION, ELECTROMETRIC, AUTOMATED	3
027	140	7.1	TITRATION, COLORIMETRIC, MANUAL	1,2
029	158	4.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
030	151	0.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
032	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
033	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
035	152	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
036	144	4.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
038	143	5.1	TITRATION, ELECTROMETRIC, MANUAL	1,2
039	140	7.1	TITRATION, COLORIMETRIC, MANUAL	4
040	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	1,2,3,4
041	152	0.9	TITRATION, COLORIMETRIC, MANUAL	4
042	148	1.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
044	150	0.4	TITRATION, ELECTROMETRIC, AUTOMATED	1,2,3,4
045	138	8.4	TITRATION, COLORIMETRIC, AUTOMATED	3
046	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
047	177	17.5	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
048	150	0.4	TITRATION, COLORIMETRIC, AUTOMATED	3
049	158	4.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
050	145	3.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
051	154	2.2	OTHER	
053	152	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
054	153	1.5	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
055	153	1.5	TITRATION, COLORIMETRIC, MANUAL	1,2
056	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
057	149	1.1	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
058	152	0.9	OTHER	
060	154	2.2	TITRATION, COLORIMETRIC, MANUAL	1,2
062	152	0.9	TITRATION, COLORIMETRIC, MANUAL	1,2
063	146	3.1	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
064	154	2.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
065	314	108.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR ALK(CAC03)

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
067	170	12.8	REJECT	1,2,3,4
068	140	7.1	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
069	153	1.5	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
070	151	0.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
071	138	8.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
072	150	0.4	TITRATION, COLORIMETRIC, MANUAL	1,2
075	152	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
077	220	46.0	REJECT	1,2,3,4
080	146	3.1	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
081	160	6.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
082	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
083	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
084	151	0.2	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
087	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
088	150	0.4	TITRATION, COLORIMETRIC, MANUAL	1,2
089	155	2.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
090	148	1.8	TITRATION, ELECTROMETRIC, AUTOMATED	4
091	152	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
093	167	10.8	TITRATION, ELECTROMETRIC, AUTOMATED	4
094	143	5.1	TITRATION, ELECTROMETRIC, AUTOMATED	4
095	150	0.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
096	155	2.9	TITRATION, COLORIMETRIC, MANUAL	1,2
098	142	5.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
099	155	2.9	TITRATION, COLORIMETRIC, MANUAL	1,2
101	152	0.9	TITRATION, ELECTROMETRIC, AUTOMATED	4
103	148	1.8	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4

TOTAL RANGE 138 TO 314 MEAN 150.7
STANDARD DEVIATION 5.4 95 % CONFIDENCE INTRVL OF MEAN 150.7 + OR - 1.3

STANDARD REFERENCE SAMPLE M86				REPORT FOR B		
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES		
007	100	58.3	EMISSION, IC PLASMA	1,2,3,4	2,4	
012	260	8.3	COLORIMETRIC, CURCUMIN			
015	200	16.7	EMISSION, IC PLASMA			
016	140	41.7	COLORIMETRIC, CARMINE (CARMINIC ACID)	1,2,3,4	2,4	
020	200	16.7	EMISSION, IC PLASMA			
022	360	50.0	COLORIMETRIC, CURCUMIN			
032	280	16.7	COLORIMETRIC, CARMINE (CARMINIC ACID)	1,2,3,4	5	
036	200	16.7	EMISSION, IC PLASMA			
040	200	16.7	EMISSION, IC PLASMA			
041	220	8.3	EMISSION, IC PLASMA	1,2,3,4	4	
042	350	45.8	COLORIMETRIC, CURCUMIN			
044	250	4.2	COLORIMETRIC, AZOMETHINE, AUTOMATED			
045	100	***	IGNORED	1,2,3,4	5	
051	220	8.3	COLORIMETRIC, DIANTHRIMIDE			
056	200	16.7	COLORIMETRIC, CURCUMIN			
057	290	20.8	COLORIMETRIC, CURCUMIN	1,2,3,4	5	
060	240	0.0	COLORIMETRIC, AZOMETHINE, AUTOMATED			
067	440	83.3	COLORIMETRIC, CURCUMIN			
072	400	66.7		1,2,3,4	2,4	
076	200	16.7	EMISSION, IC PLASMA			
084	230	4.2	EMISSION, IC PLASMA			
090	210	12.5	EMISSION, DC PLASMA	1,2,3,4	2,4	
093	240	0.0	OTHER			
094	190	20.8	EMISSION, IC PLASMA			
096	200	16.7	COLORIMETRIC, CURCUMIN	1,2,3,4	2,4	
098	200	16.7	COLORIMETRIC, CURCUMIN			
099	260	8.3	COLORIMETRIC, CURCUMIN			
103	200	16.7	COLORIMETRIC, CARMINE (CARMINIC ACID)			
TOTAL RANGE		100	TO	440	MEAN: 240	
STANDARD DEVIATION		75	95 % CONFIDENCE	INTRVL OF MEAN	240 + OR -	30

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR BR

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
029	400	37.5	OTHER	
032	810	178.4	COLORIMETRIC, CHLORAMINE-T	1
036	260	10.6	ION CHROMATOGRAPHY	
040	40	86.2	TITRIMETRIC, REDOX	2,4
042	100	***	IGNORED	1
045	790	171.6	COLORIMETRIC, CHLORAMINE-T	
051	480	65.0	OTHER	
065	0	100.0	OTHER	
067	240	17.5	COLORIMETRIC, CATALYTIC OXIDATION	
084	50	82.8	OTHER	
090	130	55.3	OTHER	
093	0	100.0	ION CHROMATOGRAPHY	2,4

TOTAL RANGE 0 TO 810 MEAN: 291
 STANDARD DEVIATION 298 '95 % CONFIDENCE INTRVL OF MEAN 291 + OR - 200

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR CA

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
001	69	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
002	67	5.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	50	29.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	68	3.7	EMISSION, IC PLASMA	5
008	73	3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
010	214	203.1	TITRATION, EDTA	1,3
011	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
012	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
013	73	3.4	TITRATION, EDTA	1,3
015	70	0.9	EMISSION, IC PLASMA	5
016	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	100	41.6	TITRATION, EDTA	1,3
018	65	6.0	TITRATION, EDTA	1,3
019	59	16.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	86	21.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
021	67	5.1	ATOMIC ABSORPTION, DIRECT, AIR	1,3
022	76	7.6	TITRATION, EDTA	1,2,3,4
023	73	3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,3
026	71	0.5	TITRATION, EDTA	1,3
027	75	6.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
030	81	14.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	50	29.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
033	67	5.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	71	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
035	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	76	7.6	EMISSION, IC PLASMA	5
038	6	91.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
039	64	9.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	70	0.9	TITRATION, EDTA	1,3
041	74	4.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
042	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
044	73	3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
045	75	6.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
046	61	13.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	73	3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	69	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,3
049	36	49.0	TITRATION, EDTA	1,3
051	74	4.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	72	2.0	EMISSION, IC PLASMA	5
054	80	13.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
055	67	5.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	71	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
057	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
060	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
061	68	3.7	EMISSION, IC PLASMA	5
062	78	10.5	ATOMIC ABSORPTION, DIRECT, AIR	5
063	55	22.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	73	3.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR CA

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
065	82	16.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	77	9.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
069	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
070	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	69	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	3	95.8	REJECT	1,2,3,4
076	71	0.5	EMISSION, IC PLASMA	5
077	74	4.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	73	3.4	EMISSION, IC PLASMA	5
081	72	2.0	TITRATION, EDTA	1,3
082	77	9.0	TITRATION, EDTA	1,3
084	73	3.4	EMISSION, IC PLASMA	5
087	100	41.6	REJECT	1,2,3,4
088	55	22.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	70	0.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	71	0.5	EMISSION, IC PLASMA	1,2,3,4
091	68	3.7	ATOMIC ABSORPTION, DIRECT, AIR	5
093	91	28.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
094	77	9.0	EMISSION, IC PLASMA	1,2,3,4
095	74	4.8	ATOMIC ABSORPTION, DIRECT, AIR	5
096	69	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	64	9.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	65	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
101	65	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	72	2.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	45	36.3	REJECT OTHER	1,2,3,4

TOTAL RANGE 3 TO 214 MEAN 70.6
STANDARD DEVIATION 6.8 95 % CONFIDENCE INTRVL OF MEAN 70.6 + OR - 1.6

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR CL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	REJECT	METHODS	REFERENCES
001	30	33.1	REJECT	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
002	44	1.9		TITRATION, SILVER NITRATE	1,2,4
004	50	11.5		TITRATION, SILVER NITRATE	1,2,4
007	45	0.4		TITRATION, SILVER NITRATE	1,2,4
008	44	1.9		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
011	111	147.5	REJECT	TITRATION, MERCURIC NITRATE	1,2,3,4
012	45	0.4		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
013	47	4.8		TITRATION, SILVER NITRATE	1,2,4
014	147	227.8	REJECT	TITRATION, MERCURIC NITRATE	1,2,3,4
015	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
016	47	4.8		TITRATION, SILVER NITRATE	1,2,4
017	45	0.4		TITRATION, SILVER NITRATE	1,2,4
020	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
021	47	4.8		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
022	44	1.9		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
023	44	1.9		TITRATION, MERCURIC NITRATE	1,2,3,4
026	44	1.9		TITRATION, SILVER NITRATE	1,2,4
027	48	7.0		TITRATION, MERCURIC NITRATE	1,2,3,4
029	42	6.3		TITRATION, SILVER NITRATE	1,2,4
032	44	1.9		TITRATION, SILVER NITRATE	1,2,4
033	46	2.6		TITRATION, MERCURIC NITRATE	1,2,3,4
034	44	1.9		TITRATION, MERCURIC NITRATE	1,2,3,4
035	45	0.4		ION CHROMATOGRAPHY	2,6
036	45	0.4		TITRATION, MERCURIC NITRATE	1,2,3,4
038	45	0.4		TITRATION, MERCURIC NITRATE	1,2,3,4
039	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
040	44	1.9		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
041	47	4.8		TITRATION, MERCURIC NITRATE	1,2,3,4
042	44	1.9		TITRATION, MERCURIC NITRATE	1,2,3,4
044	46	2.6		TITRATION, SILVER NITRATE	1,2,4
045	62	38.3	REJECT	OTHER	1,2,4
046	46	2.6		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
047	50	11.5		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
048	44	1.9		ION SELECTIVE ELECTRODE	2
049	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
051	44	1.9		TITRATION, SILVER NITRATE	1,2,4
053	47	4.8		TITRATION, SILVER NITRATE	1,2,4
054	45	0.4		TITRATION, SILVER NITRATE	1,2,4
055	44	1.9		TITRATION, SILVER NITRATE	1,2,4
056	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
058	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
059	43	4.1		TITRATION, SILVER NITRATE	1,2,4
060	46	2.6		ION SELECTIVE ELECTRODE	2
061	44	1.9		TITRATION, SILVER NITRATE	1,2,4
063	75	67.3	REJECT	ION CHROMATOGRAPHY	2,6
064	43	4.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
065	48	7.0		ION CHROMATOGRAPHY	2,6
067	43	4.1		TITRATION, MERCURIC NITRATE	1,2,3,4
068	42	6.3		TITRATION, MERCURIC NITRATE	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR CL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
069	45	0.4	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
070	43	4.1	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
071	44	1.9	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
072	44	1.9	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
073	45	0.4	TITRATION, SILVER NITRATE	1,2,4
075	25	44.2	TITRATION, SILVER NITRATE	1,2,4
076	43	4.1	ION SELECTIVE ELECTRODE	2
077	54	20.4	TITRATION, SILVER NITRATE	1,2,4
081	44	1.9	TITRATION, SILVER NITRATE	1,2,4
082	44	1.9	TITRATION, SILVER NITRATE	1,2,4
083	43	4.1	TITRATION, SILVER NITRATE	1,2,3,4
084	44	1.9	TITRATION, MERCURIC NITRATE	2,6
087	44	1.9	ION CHROMATOGRAPHY	1,2,3,4
088	44	1.9	TITRATION, MERCURIC NITRATE	1,2,4
089	46	2.6	TITRATION, SILVER NITRATE	1,3,4
090	46	2.6	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
091	38	15.3	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	2,6
093	47	4.8	ION CHROMATOGRAPHY	2,6
094	44	1.9	ION CHROMATOGRAPHY	1,3,4
095	47	4.8	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
096	46	2.6	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,2,4
097	23	48.7	TITRATION, SILVER NITRATE	1,2,3,4
098	48	7.0	TITRATION, MERCURIC NITRATE	1,2,4
099	43	4.1	TITRATION, SILVER NITRATE	1,2,4
100	46	2.6	TITRATION, MERCURIC NITRATE	1,2,3,4
101	45	0.4	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
103	46	2.6	TITRATION, SILVER NITRATE	1,2,4
105	45	0.4	TITRATION, MERCURIC NITRATE	1,2,3,4
107	45	0.4	COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4

TOTAL RANGE 23 TO 147 MEAN: 44.8
 STANDARD DEVIATION 1.7 95 % CONFIDENCE INTVL OF MEAN 44.8 + OR - 0.4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR DSRD 180

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
001	594	2.2	RESIDUE, FILTRABLE	1,3
002	587	1.0	RESIDUE ON EVAPORATION	2,4
007	603	3.8	RESIDUE, FILTRABLE	1,3
008	602	3.6	RESIDUE ON EVAPORATION	2,4
010	569	2.1	RESIDUE, FILTRABLE	1,3
011	579	0.4	RESIDUE ON EVAPORATION	2,4
013	551	5.2	RESIDUE, FILTRABLE	1,3
014	569	2.1	RESIDUE, FILTRABLE	1,3
015	561	3.5	RESIDUE ON EVAPORATION	2,4
016	580	0.2	RESIDUE ON EVAPORATION	2,4
017	447	23.1	RESIDUE ON EVAPORATION	2,4
019	558	4.0	OTHER	
021	564	2.9	RESIDUE, FILTRABLE	1,3
022	578	0.5	RESIDUE ON EVAPORATION	2,4
023	590	1.5	RESIDUE, FILTRABLE	1,3
026	600	3.3	RESIDUE ON EVAPORATION	2,4
027	570	1.9	RESIDUE, FILTRABLE	1,3
032	586	0.8	RESIDUE, FILTRABLE	1,3
033	589	1.4	RESIDUE ON EVAPORATION	2,4
034	584	0.5	RESIDUE ON EVAPORATION	2,4
035	566	2.6	RESIDUE, FILTRABLE	1,3
036	590	1.5	RESIDUE, FILTRABLE	1,3
038	598	2.9	RESIDUE, FILTRABLE	1,3
039	600	3.3	RESIDUE, FILTRABLE	1,3
040	594	2.2	RESIDUE, FILTRABLE	1,3
041	570	1.9	RESIDUE ON EVAPORATION	2,4
042	570	1.9	RESIDUE, FILTRABLE	1,3
044	570	1.9	RESIDUE ON EVAPORATION	2,4
045	620	6.7		
046	494	15.0	RESIDUE, FILTRABLE	1,3
047	624	7.4	RESIDUE ON EVAPORATION	2,4
048	584	0.5	RESIDUE ON EVAPORATION	2,4
049	562	3.3	RESIDUE, FILTRABLE	1,3
051	596	2.6	RESIDUE ON EVAPORATION	2,4
054	584	0.5	RESIDUE, FILTRABLE	1,3
056	575	1.1	RESIDUE, FILTRABLE	1,3
057	576	0.9	RESIDUE, FILTRABLE	1,3
060	544	6.4	RESIDUE, FILTRABLE	1,3
061	590	1.5	RESIDUE ON EVAPORATION	2,4
063	568	2.3	RESIDUE, FILTRABLE	1,3
064	588	1.2	RESIDUE, FILTRABLE	1,3
067	613	5.5	RESIDUE ON EVAPORATION	2,4
068	584	0.5	RESIDUE ON EVAPORATION	2,4
069	576	0.9	RESIDUE, FILTRABLE	1,3
070	600	3.3	RESIDUE, FILTRABLE	1,3
072	588	1.2	RESIDUE ON EVAPORATION	2,4
075	276	52.5	RESIDUE, FILTRABLE	1,3
076	582	0.2	RESIDUE ON EVAPORATION	2,4
077	590	1.5	RESIDUE, FILTRABLE	1,3

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR DSRD 180

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
081	570	1.9	RESIDUE ON EVAPORATION	2,4
082	563	3.1	RESIDUE, FILTRABLE	1,3
084	596	2.6	RESIDUE ON EVAPORATION	2,4
087	570	1.9	RESIDUE ON EVAPORATION	2,4
088	580	0.2	RESIDUE, FILTRABLE	1,3
089	568	2.3	RESIDUE ON EVAPORATION	2,4
090	584	0.5	RESIDUE ON EVAPORATION	2,4
095	592	1.9	RESIDUE ON EVAPORATION	2,4
096	564	2.9	RESIDUE, FILTRABLE	1,3
098	546	6.0	RESIDUE, FILTRABLE	1,3
099	590	1.5	RESIDUE, FILTRABLE	1,3
101	560	3.6		
103	586	0.8	RESIDUE, FILTRABLE	1,3
105	58	90.0	REJECT RESIDUE, FILTRABLE	1,3

TOTAL RANGE 58 TO 624 MEAN 581.1
 STANDARD DEVIATION 16.7 95 % CONFIDENCE INTRVL OF MEAN 581.1 + OR - 4.3

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR F

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
001	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
002	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
006	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
007	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
008	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
010	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
011	2.0	0.5	COLORIMETRIC, ZIRCONIUM ERIochrome	4
012	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
013	1.7	14.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
015	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
016	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
017	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
021	2.4	20.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
022	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
025	2.1	5.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
026	1.6	19.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
027	2.0	0.5	COLORIMETRIC, LANTHANUM ALIZARIN "COMPLEXONE", AUTOMATED	1
029	2.2	10.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
030	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
032	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
033	2.1	5.5	COLORIMETRIC, CEROUS ALIZARIN "COMPLEXONE", AUTOMATED	3
035	2.0	0.5	COLORIMETRIC, ZIRCONIUM ERIochrome	4
036	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
038	2.6	30.6	ION CHROMATOGRAPHY	2,6
039	2.0	0.5	COLORIMETRIC, SPADNS	1,2,3
040	2.1	5.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
041	2.2	10.5	OTHER	4
042	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	1,2,3,4
044	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	4
045	2.6	30.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
046	1.8	9.6	ION SELECTIVE ELECTRODE, AUTOMATED	4
048	58.0	814.1	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
049	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
051	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	4
053	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	1,2,3,4
054	1.9	4.5	COLORIMETRIC, SPADNS	1,2,3
055	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
057	1.4	29.7	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
058	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
059	1.7	14.6	ION SELECTIVE ELECTRODE, AUTOMATED	4
060	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
063	3.6	80.9	ION CHROMATOGRAPHY	2,6
064	2.0	0.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
065	2.4	20.6	ION CHROMATOGRAPHY	4
067	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
070	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
072	2.1	5.5	COLORIMETRIC, LANTHANUM ALIZARIN "COMPLEXONE", AUTOMATED	1
075	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
077	2.1	5.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR F

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
081	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
082	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
084	2.0	0.5	ION CHROMATOGRAPHY	2,6
088	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
090	1.9	4.5	ION SELECTIVE ELECTRODE, AUTOMATED	4
091	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
093	2.9	45.7	REJECT	2,6
094	2.0	0.5	ION CHROMATOGRAPHY	
095	2.0	0.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
096	2.2	10.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
098	2.0	0.5	COLORIMETRIC, SPADNS	1,2,3
099	2.6	30.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
101	2.0	0.5		
103	2.0	0.5	COLORIMETRIC, SPADNS	1,2,3
105	1.8	9.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
107	1.9	4.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4

TOTAL RANGE 1.4 TO 58.0 MEAN 1.99
 STANDARD DEVIATION 0.21 95 % CONFIDENCE INTVL OF MEAN 1.99 + OR - 0.05

TABLE 7 --

CODE	STANDARD REFERENCE SAMPLE M86		REPORT FOR 1	
	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
040	20		COLORIMETRIC, CERIC ARSENIOUS OXIDATION, MANUAL	2,4
051	100		TITRIMETRIC, PHENYL ARSINE OXIDE	3
090	13		COLORIMETRIC, CERIC ARSENIOUS OXIDATION, AUTOMATED	4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR K

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	5.5	16.5	FLAME, EMISSION, PHOTOMETRIC		1,2
002	4.7	0.5	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
006	4.9	3.8	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
007	4.4	6.8	PLASMA, INDUCTIVELY COUPLED		
008	4.5	4.7	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
011	4.5	4.7	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
012	4.5	4.7	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
013	5.0	5.9	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
015	5.0	5.9	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
016	5.4	14.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
017	5.4	14.3	FLAME, EMISSION, PHOTOMETRIC		1,2
019	4.8	1.6	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
020	4.3	9.0			
021	4.0	15.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
022	4.6	2.6	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
023	4.9	3.8	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
026	4.4	6.8	FLAME, EMISSION, PHOTOMETRIC		1,2
027	5.4	14.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
029	4.2	11.1	OTHER		
032	4.5	4.7	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
033	4.6	2.6	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
034	2.5	47.1	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
035	5.5	16.5	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
036	4.7	0.5	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
038	4.1	13.2	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
039	4.4	6.8	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
040	4.9	3.8	FLAME, EMISSION, PHOTOMETRIC		1,2
041	5.2	10.1	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
042	5.0	5.9	FLAME, EMISSION, PHOTOMETRIC		1,2
044	5.4	14.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
045	4.9	3.8			
046	4.0	15.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
048	4.4	6.8	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
049	5.6	18.6	FLAME, EMISSION, PHOTOMETRIC		1,2
050	5.6	18.6			
051	4.3	9.0	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
053	5.3	12.2	FLAME, EMISSION, PHOTOMETRIC		1,2
054	5.5	16.5	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
055	5.1	8.0	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
056	4.3	9.0	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
057	4.2	11.1	FLAME, EMISSION, PHOTOMETRIC		1,2
060	3.5	25.9	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
061	5.1	8.0	OTHER		
062	4.6	2.6	PLASMA, INDUCTIVELY COUPLED		1,2,3,4
063	4.0	15.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
064	4.0	15.3	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
065	4.4	6.8	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
067	4.2	11.1	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4
068	4.2	11.1	ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4

REJECT

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR K

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
069	4.5	4.7	FLAME, EMISSION, PHOTOMETRIC	1,2
072	4.2	11.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	4.2	11.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	4.7	0.5	PLASMA, INDUCTIVELY COUPLED	
077	4.7	0.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	5.0	5.9	OTHER	
084	4.4	6.8	OTHER	
087	5.2	10.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	7.8	65.2	REJECT FLAME, EMISSION, PHOTOMETRIC	1,2
089	5.0	***	IGNORED	1,2
090	4.6	2.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
091	7.4	56.7	REJECT FLAME, EMISSION, PHOTOMETRIC	1,2
093	5.6	18.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
094	4.6	2.6	FLAME, EMISSION, PHOTOMETRIC	1,2
096	4.0	15.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	6.5	37.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	4.5	4.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
101	4.4	6.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	4.9	3.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	3.4	28.0	OTHER	
107	6.4	35.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 2.5 10 7.6 MEAN 4.72
 STANDARD DEVIATION 0.59 95 % CONFIDENCE INTRVL OF MEAN 4.72 + OR - 0.15

TABLE 7 --

STANDARD REFERENCE SAMPLE M86				REPORT FOR M86		
CODE	REPORTED VALUE	Pct. DEV. FROM MEAN	METHODS			REFERENCES
001	29	3.4	TITRATION, EDTA			2
002	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
006	21	25.1	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
007	27	3.7	EMISSION, IC PLASMA			5
008	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
011	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
012	26	7.3	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
013	27	3.7	TITRATION, EDTA			2
015	28	0.2	EMISSION, IC PLASMA			5
016	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
018	22	21.6	TITRATION, EDTA			2
019	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
020	29	3.4				
021	25	10.9	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
022	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
023	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
026	30	7.0	TITRATION, EDTA			2
027	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
029	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
030	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
032	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
033	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
034	26	7.3	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
035	31	10.5	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
036	29	3.4	EMISSION, IC PLASMA			5
039	24	14.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
040	29	3.4	EMISSION, IC PLASMA			5
041	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
042	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
044	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
045	29	3.4				
046	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
047	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
048	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
049	13	53.6	TITRATION, EDTA			2
051	25	10.9	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
052	28	0.2	EMISSION, IC PLASMA			5
054	52	85.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
055	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
056	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
057	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
060	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
061	28	0.2	EMISSION, IC PLASMA			5
062	30	7.0	EMISSION, IC PLASMA			5
063	24	14.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
064	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
065	29	3.4	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
067	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4
068	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR			1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR MG

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
069	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	29	3.4	EMISSION, IC PLASMA	5
077	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	29	3.4	EMISSION, IC PLASMA	5
081	28	0.2	CALCULATION FROM CA PLUS MG	
082	23	18.0	TITRATION, EDTA	2
084	29	3.4	EMISSION, IC PLASMA	5
087	30	7.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	26	7.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	28	0.2	EMISSION, IC PLASMA	5
091	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
093	28	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
094	30	7.0	EMISSION, IC PLASMA	5
095	17	39.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
096	26	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	26	7.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	26	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
101	27	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
103	26	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	13	53.6	OTHER	1,2,3,4
107	26	7.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR NA

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	76	1.3		FLAME EMISSION, PHOTOMETRIC	1,2
002	77	0.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	77	0.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	75	2.6		PLASMA, INDUCTIVELY COUPLED	5
008	79	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
010	76	1.3		FLAME EMISSION, PHOTOMETRIC	1,2
011	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
012	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
013	76	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	78	1.3		PLASMA, INDUCTIVELY COUPLED	5
016	77	0.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	110	42.9	REJECT	FLAME EMISSION, PHOTOMETRIC	1,2
019	69	10.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	81	5.2			
021	68	11.7		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	80	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
023	82	6.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
026	83	7.8		PLASMA, INDUCTIVELY COUPLED	5
027	76	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	74	3.9		OTHER	
030	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	82	6.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
033	77	0.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	83	7.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
035	74	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	76	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
038	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
039	74	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	77	0.0		FLAME EMISSION, PHOTOMETRIC	1,2
041	75	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
042	78	1.3		FLAME EMISSION, PHOTOMETRIC	1,2
044	71	7.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
045	77	0.0			
046	54	29.9	REJECT	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	75	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	73	5.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	80	3.9		FLAME EMISSION, PHOTOMETRIC	1,2
051	80	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	74	3.9		PLASMA, INDUCTIVELY COUPLED	5
053	99	28.6	REJECT	FLAME EMISSION, PHOTOMETRIC	1,2
054	79	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
055	80	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
057	79	2.6		FLAME EMISSION, PHOTOMETRIC	1,2
059	10	***	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
060	79	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
061	76	1.3		PLASMA, INDUCTIVELY COUPLED	5
062	79	2.6		PLASMA, INDUCTIVELY COUPLED	5
063	43	44.1	REJECT	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86										REPORT FOR NA	
CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES						
	VALUE										
064	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
065	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
067	75	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
068	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
069	80	3.9		FLAME EMISSION, PHOTOMETRIC	1,2						
070	81	5.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
072	73	5.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
073	70	9.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
075	68	11.7		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
076	75	2.6		PLASMA, INDUCTIVELY COUPLED	5						
077	79	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
079	80	3.9		PLASMA, INDUCTIVELY COUPLED	5						
084	80	3.9		PLASMA, INDUCTIVELY COUPLED	5						
087	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
088	75	2.6		FLAME EMISSION, PHOTOMETRIC	1,2						
089	72	6.5		FLAME EMISSION, PHOTOMETRIC	1,2						
090	78	1.3		PLASMA, INDUCTIVELY COUPLED	5						
091	77	0.0		FLAME EMISSION, PHOTOMETRIC	1,2						
093	142	84.5	REJECT	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
094	82	6.5		PLASMA, INDUCTIVELY COUPLED	5						
096	79	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
098	77	0.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
099	78	1.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
101	74	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
103	75	2.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
105	41	46.7	REJECT	OTHER	1,2,3,4						
107	80	3.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4						
TOTAL RANGE		41	70	142	MEAN: 77.0						
STANDARD DEVIATION		3.3	95 % CONFIDENCE INTVL OF MEAN 77.0 + OR - 0.6								

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR NO2-N

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
002	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
006	< 0.01	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
007	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
008	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
010	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
011	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
013	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
017	< 0.05	***	IGNORED	ION CHROMATOGRAPHY	2,6
018	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
019	0.01	8.7		OTHER	
020	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
022	0.03	173.9	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4
023	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
025	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
027	< 0.01	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
029	< 0.02	***	IGNORED	ION CHROMATOGRAPHY	2,6
030	0.06	447.8	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4
032	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
034	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
035	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
036	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
039	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
040	< 0.20	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
042	0.12	995.7	REJECT	ION CHROMATOGRAPHY	2,6
045	< 0.01	***	IGNORED		
046	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
047	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
048	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
049	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
050	0.00	100.0		COLORIMETRIC, DIAZOTIZATION	1,3,4
051	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
054	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
056	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
057	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
058	< 0.01	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
067	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
068	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
070	0.03	173.9	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4
071	0.05	356.5	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4
073	0.01	8.7		OTHER	
077	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
081	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
082	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
088	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
089	< 0.01	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
090	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
091	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
093	0.00	100.0		ION CHROMATOGRAPHY	2,6
095	0.05	356.5	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86				REPORT FOR N02-N	
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES
096	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
097	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
098	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
100	0.01	8.7		ION CHROMATOGRAPHY	2,6
101	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
103	0.02	82.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
105	< 0.01	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
107	0.01	8.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
TOTAL RANGE 0.00 TO 0.12 MEAN: 0.011					
STANDARD DEVIATION 0.004 95 % CONFIDENCE INTVL OF MEAN 0.011 + OR - 0.001					

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR NO3-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	3.78	4.9	COLORIMETRIC, BRUCINE	1,2,3,4
006	10.50	164.2	ION SPECIFIC ELECTRODE	1,2,3,4
007	4.07	2.4	COLORIMETRIC, BRUCINE	1,2,3,4
008	4.09	2.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
010	3.71	6.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
011	4.69	18.0	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
012	4.03	1.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
013	7.88	98.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
014	0.13	96.7	OTHER	1,2,3,4
015	4.03	1.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
016	4.51	13.5	OTHER	1,2,3,4
017	4.32	8.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
018	4.61	16.0	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
019	4.03	1.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
020	3.80	4.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
021	3.62	8.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
022	3.89	2.1	COLORIMETRIC, BRUCINE	1,2,3,4
023	4.31	8.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
025	4.00	0.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
026	3.49	12.2	ION CHROMATOGRAPHY	2,6
027	4.78	20.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
029	4.07	2.4	ION CHROMATOGRAPHY	2,6
032	2.78	30.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
034	4.58	15.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
035	4.20	5.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
036	4.12	3.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
038	4.00	0.6	COLORIMETRIC, BRUCINE	1,2,3,4
039	4.10	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
040	4.04	1.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
042	3.80	4.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
044	3.96	0.4	SPECTROPHOTOMETRIC	1,2,3,4
045	7.17	80.4	REJECT	
046	4.20	5.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
047	4.09	2.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
048	3.97	0.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
049	4.11	3.4	COLORIMETRIC, BRUCINE	1,2,3,4
050	4.20	5.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
051	4.30	8.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	3
054	4.01	0.9	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	1,2,3,4
055	3.53	11.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
056	3.98	0.1	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
057	3.86	2.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
058	4.10	3.2	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
059	3.58	9.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
063	4.15	3.1	COLORIMETRIC, BRUCINE	1,2,3,4
067	3.61	9.2	COLORIMETRIC, BRUCINE	1,2,3,4
068	3.70	6.9	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
069	4.35	9.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86						REPORT FOR NO3-N	
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES			
070	3.01	24.3	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
071	2.04	48.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
072	4.04	1.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
073	3.50	11.9	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3			
075	5.50	36.4	OTHER				
076	3.20	19.5	OTHER				
077	4.60	15.7	COLORIMETRIC, BRUCINE	1,2,3,4			
081	3.37	15.2	COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3			
082	4.00	0.6	COLORIMETRIC, BRUCINE	1,2,3,4			
084	4.27	7.4	ION CHROMATOGRAPHY	2,6			
086	4.10	3.2	COLORIMETRIC, BRUCINE	1,2,3,4			
089	4.12	3.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
090	4.00	0.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
091	4.06	2.1	ION CHROMATOGRAPHY	2,6			
093	18.01	353.1	REJECT	2,6			
094	4.12	3.7	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
095	4.15	4.4	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
096	4.37	9.9	COLORIMETRIC, BRUCINE	1,2,3,4			
097	4.02	1.1	COLORIMETRIC, BRUCINE	1,2,3,4			
098	3.10	22.0	COLORIMETRIC, BRUCINE	1,2,3,4			
099	3.00	24.5	COLORIMETRIC, BRUCINE	1,2,3,4			
100	4.34	9.2	COLORIMETRIC, BRUCINE	1,2,3,4			
101	3.86	2.9	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
103	4.04	1.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
105	4.00	0.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
107	4.00	0.6	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4			
TOTAL RANGE				0.13	10	16.01	
STANDARD DEVIATION				0.392	95 % CONFIDENCE	MEAN ± 3.975	
					INTRVL OF MEAN	3.975 + OR - 0.095	

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 · REPORT FOR P, TOTAL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.51	2.6	OTHER	
007	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
008	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
011	0.48	3.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
013	0.35	29.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
014	0.44	11.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
015	0.46	7.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
017	0.68	36.8	OTHER	
018	0.54	8.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
019	0.48	3.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
020	0.52	4.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
022	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
023	0.98	97.1	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
026	0.42	15.5	OTHER	
027	0.52	4.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
032	0.57	14.7	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
034	0.48	3.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
035	0.46	7.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
036	0.42	15.5	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
038	0.48	3.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
039	0.39	21.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
040	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
042	0.51	2.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
045	0.45	9.5	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
046	0.48	3.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
047	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
048	0.40	19.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
049	3.10	523.6	OTHER	
051	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
053	0.56	12.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
054	0.47	5.5	PERSULFATE OXIDATION	
055	0.49	1.4	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
056	0.49	1.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
060	0.47	5.5	OTHER	
063	0.61	22.7	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
064	0.48	3.4	OTHER	
067	0.55	10.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
068	0.51	2.6	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
070	0.47	5.5	COLORIMETRIC, BLK DIG, H2S04, K&H 304, PHOSPHOMOLYBD	4
071	0.43	13.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
072	0.46	7.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
073	0.49	1.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
075	0.55	10.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
076	0.59	18.7	EMISSION, IC PLASMA	
077	0.61	22.7	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
079	0.78	56.9	EMISSION, IC PLASMA	
081	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
082	0.52	4.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
084	0.51	2.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR P, TOTAL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
088	0.55	10.6	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
089	0.29	41.7	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
090	0.56	12.6	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
091	0.49	1.4	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
095	0.45	9.5	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
096	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
097	0.66	32.8	COLORIMETRIC, BLK DIG, H2S04, K2HG 804, PHOSPHOMOLYBD	4
098	0.52	4.6	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
100	0.46	7.5	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
101	0.49	1.4	COLORIMETRIC, BLK DIG, H2S04, K2HG 804, PHOSPHOMOLYBD	4
103	0.50	0.6	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
105	0.46	7.5	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
107	0.60	20.7	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4

TOTAL RANGE 0.29 TO 3.10 MEAN 0.497
 STANDARD DEVIATION 0.066 95 % CONFIDENCE INTVL OF MEAN 0.497 + OR - 0.017

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR PH

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	8.3	2.1	ELECTROMETRIC	1,2,3,4	
002	8.2	0.9	ELECTROMETRIC	1,2,3,4	
004	8.2	0.9	ELECTROMETRIC	1,2,3,4	
006	7.8	4.0	ELECTROMETRIC	1,2,3,4	
007	8.4	3.3	ELECTROMETRIC	1,2,3,4	
008	8.1	0.4	ELECTROMETRIC	1,2,3,4	
010	8.2	0.9	ELECTROMETRIC	1,2,3,4	
011	8.2	0.9	ELECTROMETRIC	1,2,3,4	
012	7.8	4.0	ELECTROMETRIC	1,2,3,4	
013	8.2	0.9	ELECTROMETRIC	1,2,3,4	
015	8.2	0.9	ELECTROMETRIC	1,2,3,4	
016	8.3	2.1	ELECTROMETRIC	1,2,3,4	
017	8.2	0.9	ELECTROMETRIC	1,2,3,4	
018	8.1	0.4	ELECTROMETRIC	1,2,3,4	
019	7.8	4.0	ELECTROMETRIC	1,2,3,4	
020	8.1	0.4	ELECTROMETRIC	1,2,3,4	
021	7.9	2.8	ELECTROMETRIC	1,2,3,4	
022	8.3	2.1	ELECTROMETRIC	1,2,3,4	
023	8.3	2.1	ELECTROMETRIC	1,2,3,4	
025	8.2	0.9	ELECTROMETRIC	1,2,3,4	
026	7.8	4.0	OTHER	1,2,3,4	
027	8.0	1.6	ELECTROMETRIC	1,2,3,4	
029	8.3	2.1	ELECTROMETRIC	1,2,3,4	
030	8.3	2.1	ELECTROMETRIC	1,2,3,4	
032	8.0	1.6	ELECTROMETRIC	1,2,3,4	
033	7.6	6.5	OTHER	1,2,3,4	
034	8.2	0.9	ELECTROMETRIC	1,2,3,4	
035	8.0	1.6	ELECTROMETRIC	1,2,3,4	
036	8.0	1.6	ELECTROMETRIC	1,2,3,4	
038	8.0	1.6	ELECTROMETRIC	1,2,3,4	
039	8.3	2.1	ELECTROMETRIC	1,2,3,4	
040	8.2	0.9	ELECTROMETRIC	1,2,3,4	
041	8.3	2.1	ELECTROMETRIC	1,2,3,4	
042	8.2	0.9	ELECTROMETRIC	1,2,3,4	
044	8.1	0.4	ELECTROMETRIC	1,2,3,4	
045	8.1	0.4	ELECTROMETRIC	1,2,3,4	
046	8.2	0.9	ELECTROMETRIC	1,2,3,4	
047	7.9	2.8	ELECTROMETRIC	1,2,3,4	
048	7.6	6.5	ELECTROMETRIC	1,2,3,4	
049	8.3	2.1	ELECTROMETRIC	1,2,3,4	
050	8.1	0.4	ELECTROMETRIC	1,2,3,4	
051	8.0	1.6	ELECTROMETRIC	1,2,3,4	
053	8.2	0.9	ELECTROMETRIC	1,2,3,4	
054	8.3	2.1	ELECTROMETRIC	1,2,3,4	
055	7.9	2.8	ELECTROMETRIC	1,2,3,4	
056	8.3	2.1	ELECTROMETRIC	1,2,3,4	
057	8.1	0.4	ELECTROMETRIC	1,2,3,4	
058	7.9	2.8	ELECTROMETRIC	1,2,3,4	
060	8.0	1.6	ELECTROMETRIC	1,2,3,4	

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR PH

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
062	8.2	0.9	ELECTROMETRIC	1,2,3,4
063	8.3	2.1	ELECTROMETRIC	1,2,3,4
064	8.2	0.9	ELECTROMETRIC	1,2,3,4
065	8.2	0.9	ELECTROMETRIC	1,2,3,4
067	8.4	3.3	ELECTROMETRIC	1,2,3,4
068	8.2	0.9	ELECTROMETRIC	1,2,3,4
069	8.3	2.1	ELECTROMETRIC	1,2,3,4
070	8.2	0.9	ELECTROMETRIC	1,2,3,4
071	7.9	2.8	ELECTROMETRIC	1,2,3,4
072	8.2	0.9	ELECTROMETRIC	1,2,3,4
073	8.1	0.4	ELECTROMETRIC	1,2,3,4
075	7.7	5.3	ELECTROMETRIC	1,2,3,4
076	8.2	0.9	ELECTROMETRIC	1,2,3,4
077	7.7	5.3	ELECTROMETRIC	1,2,3,4
080	8.4	3.3	ELECTROMETRIC	1,2,3,4
081	8.4	3.3	ELECTROMETRIC	1,2,3,4
082	8.1	0.4	ELECTROMETRIC	1,2,3,4
083	8.2	0.9	ELECTROMETRIC	1,2,3,4
084	8.3	2.1	ELECTROMETRIC	1,2,3,4
087	8.0	1.6	ELECTROMETRIC	1,2,3,4
088	8.6	5.8	ELECTROMETRIC	1,2,3,4
089	8.1	0.4	ELECTROMETRIC	1,2,3,4
090	8.1	0.4	ELECTROMETRIC	1,2,3,4
091	8.3	2.1	ELECTROMETRIC	1,2,3,4
093	8.1	0.4	ELECTROMETRIC	1,2,3,4
094	8.2	0.9	ELECTROMETRIC	1,2,3,4
095	7.8	4.0	ELECTROMETRIC	1,2,3,4
096	8.0	1.6	ELECTROMETRIC	1,2,3,4
098	8.0	1.6	ELECTROMETRIC	1,2,3,4
099	8.1	0.4	ELECTROMETRIC	1,2,3,4
100	8.0	1.6	ELECTROMETRIC	1,2,3,4
101	8.3	2.1	ELECTROMETRIC	1,2,3,4
103	8.3	2.1	ELECTROMETRIC	1,2,3,4
105	8.6	5.8	ELECTROMETRIC	1,2,3,4
107	8.1	0.4	ELECTROMETRIC	1,2,3,4

TOTAL RANGE	7.6	TO	8.6	MEAN:	8.13
STANDARD DEVIATION	0.20			95 % CONFIDENCE INTRVL OF MEAN	0.13 + OR - 0.04

TOTAL RANGE 7.6 TO 8.6 MEAN: 8.13
 STANDARD DEVIATION 0.20 95 % CONFIDENCE INTVL OF MEAN 8.13 + OR - 0.04

TABLE 7-- STANDARD REFERENCE SAMPLE MAB REPORT FOR S102

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	14.5	14.9	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
004	14.0	11.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
006	13.14	6.2	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
007	13.0	3.0	EMISSION, IC PLASMA	5
008	7.3	42.1	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
011	13.0	3.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
012	14.0	11.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
015	12.0	4.9	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
016	13.0	3.0	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE	4
017	13.3	5.4	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
018	13.2	4.6	COLORIMETRIC, SODIUM SULFITE REDUCTION TO MOLYBDATE BLUE, AUTO.	4
019	11.9	5.7	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
020	13.1	3.8	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
025	13.2	4.6	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
026	13.0	3.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
027	13.0	3.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
032	13.5	7.0	CO ² METRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
035	14.0	11.0	CO ² METRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
036	12.5	0.9	EMISSION, IC PLASMA	5
039	10.0	20.7	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
040	12.6	0.1	EMISSION, IC PLASMA	5
041	13.7	8.6	EMISSION, IC PLASMA	5
042	13.0	3.0	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
044	13.0	3.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
045	14.0	11.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
046	5.8	54.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
047	12.9	2.2	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
048	13.6	7.8	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
049	5.9	53.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
051	13.0	3.0	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
052	13.0	3.0	EMISSION, IC PLASMA	5
054	12.8	1.4	MOLYBDOUSILICATE	3
056	13.0	3.0	CO ² METRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
058	5.5	56.4	OTHER	5
061	13.0	3.0	EMISSION, IC PLASMA	5
062	13.2	4.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	5
063	16.0	26.8	COLORIMETRIC, MOLYBDOUSILICIC ACID	4
065	13.0	3.0	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
067	14.0	11.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
070	10.0	20.7	COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.	4
077	13.1	3.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
084	13.6	7.8	EMISSION, IC PLASMA	5
090	13.0	3.0	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
091	17.8	41.1	CO ² METRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE	3
093	7.0	44.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
094	14.6	15.7	EMISSION, IC PLASMA	5
096	13.9	10.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
098	13.7	8.6	COLORIMETRIC, MOLYBDOUSILICIC ACID	4
099	13.9	10.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
101	13.0	3.0	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
103	12.8	1.4	COLORIMETRIC, MOLYBDOUSILICIC ACID	1,2,3
105	13.8	9.4	OTHER	1,2,3

TOTAL RANGE 5.5 10 17.8 MEAN 12.62
 STANDARD DEVIATION 2.37 95 X CONFIDENCE INTRVL OF MEAN 12.62 + OR - 0.66

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR 504

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	225	1.4		GRAVIMETRIC, BARIUM SULFATE	1,2,3
002	216	2.7		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
004	186	16.2		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
006	192	13.5		GRAVIMETRIC, BARIUM SULFATE	1,2,3
007	224	0.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
008	100	54.9	REJECT	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
010	235	5.9		GRAVIMETRIC, BARIUM SULFATE	1,2,3
011	220	0.9		THORIN TITRATION	2,4
012	207	6.7		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
013	241	8.6		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
015	217	2.2		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
016	230	3.6		GRAVIMETRIC, BARIUM SULFATE	1,2,3
017	211	4.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
021	420	89.2	REJECT	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
022	200	9.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
023	225	1.4		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
025	214	3.6		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
026	230	3.6		ION CHROMATOGRAPHY	2,6
027	220	0.9		GRAVIMETRIC, BARIUM SULFATE	1,2,3
029	216	2.7		ION CHROMATOGRAPHY	2,6
030	250	12.6		GRAVIMETRIC, BARIUM SULFATE	1,2,3
032	237	6.8		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
033	220	0.9		THORIN TITRATION	2,4
035	220	0.9		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
036	214	3.6		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
038	120	45.9	REJECT	TURBIDIMETRIC	1,2,3
039	210	5.4		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
040	217	2.2		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
041	244	9.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
042	212	4.5		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
044	220	0.9		THORIN TITRATION	2,4
045	242	9.0		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
046	220	0.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
047	230	3.6		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
048	201	9.4		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
049	221	0.4		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
050	205	7.6		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
051	220	0.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
054	241	8.6		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
055	224	0.9		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
056	218	1.8		GRAVIMETRIC, BARIUM SULFATE	1,2,3
057	225	1.4		COLORIMETRIC, BARIUM SULFATE	1,2,3
058	220	0.9		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
059	137	38.3	REJECT	OTHER	1,2,3
060	230	3.6		TURBIDIMETRIC, BARIUM SULFATE	1,2,3
061	220	0.9		GRAVIMETRIC, BARIUM SULFATE	1,2,3
063	270	21.7	REJECT	ION CHROMATOGRAPHY	2,6
064	210	5.4		COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
065	224	0.9		ION CHROMATOGRAPHY	2,6

TABLE 7 --

STANDARD REFERENCE SAMPLE M86										REPORT FOR 304	
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES							
067	222	0.0	GRAVIMETRIC, BARIUM SULFATE							1,2,3	
068	226	1.8	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
069	219	1.3	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
070	243	9.5	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
072	223	0.5	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
073	217	2.2	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
075	166	25.2	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
076	206	7.2	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
077	226	1.8	GRAVIMETRIC, BARIUM SULFATE							1,2,3	
084	224	0.9	ION CHROMATOGRAPHY							2,6	
088	220	0.9	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
089	224	0.9	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
090	235	5.9	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
091	239	7.7	ION CHROMATOGRAPHY							2,6	
093	230	3.6	ION CHROMATOGRAPHY							2,6	
094	222	0.0	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
095	220	0.9	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
096	210	5.4	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
098	230	3.6	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
099	237	6.8	GRAVIMETRIC, BARIUM SULFATE							1,2,3	
100	220	0.9	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
101	209	5.8	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
103	220	0.9	GRAVIMETRIC, BARIUM SULFATE							1,2,3	
105	256	15.3	TURBIDIMETRIC, BARIUM SULFATE							1,2,3	
107	210	5.4	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED							1,3,4	
TOTAL RANGE				100	10	420	MEAN: 221.9				
STANDARD DEVIATION				12.7	95 % CONFIDENCE INTVL OF MEAN 221.9 + OR - 3.1						

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR SP. COND.

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
001	866	0.8	DIRECT READING INSTRUMENT	4
002	883	2.8	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
004	885	3.0	DIRECT READING INSTRUMENT	4
007	892	3.8	DIRECT READING INSTRUMENT	4
008	840	2.2	DIRECT READING INSTRUMENT	4
010	814	5.2	DIRECT READING INSTRUMENT	4
011	860	0.1	OTHER	4
012	816	5.0	DIRECT READING INSTRUMENT	4
013	872	1.5	DIRECT READING INSTRUMENT	4
015	884	2.9	DIRECT READING INSTRUMENT	4
016	902	5.0	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
017	846	1.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
018	839	2.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
019	1140	32.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
020	878	2.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	4
021	765	10.9	DIRECT READING INSTRUMENT	1,2,3,4
022	857	0.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
023	873	1.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
026	887	3.3	OTHER	4
027	850	1.0	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
029	811	5.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
030	900	4.8	DIRECT READING INSTRUMENT	4
032	916	6.6	DIRECT READING INSTRUMENT	4
033	895	4.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
034	830	3.4	DIRECT READING INSTRUMENT	4
035	871	1.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
036	850	1.0	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
038	720	16.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
039	752	12.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
040	784	8.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
041	879	2.3	DIRECT READING INSTRUMENT	4
042	866	0.8	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
044	882	2.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
046	905	5.4	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
047	856	0.3	DIRECT READING INSTRUMENT	4
048	860	0.1	DIRECT READING INSTRUMENT	4
049	875	1.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
050	820	4.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
051	903	5.1	DIRECT READING INSTRUMENT	4
053	800	6.9	DIRECT READING INSTRUMENT	4
054	900	4.8	DIRECT READING INSTRUMENT	4
055	750	12.7	DIRECT READING INSTRUMENT	4
056	889	3.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
057	876	2.0	DIRECT READING INSTRUMENT	4
060	839	2.3	DIRECT READING INSTRUMENT	4
062	875	1.9	OTHER	4
063	88	89.8	DIRECT READING INSTRUMENT	4
064	923	7.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
065	900	4.8	DIRECT READING INSTRUMENT	4
			REJECT	

TABLE 7 --

STANDARD REFERENCE SAMPLE M86										REPORT FOR SP. COND.	
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS							REFERENCES	
067	920	7.1	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
068	742	13.6	DIRECT READING INSTRUMENT							4	
069	892	3.8	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
070	877	2.1	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
071	845	1.6	DIRECT READING INSTRUMENT							4	
072	883	2.8	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
075	900	4.8	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
076	897	4.4	OTHER								
077	1100	28.1	DIRECT READING INSTRUMENT							4	
081	867	0.9	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
083	895	4.2	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
084	885	3.0	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
087	875	1.9	DIRECT READING INSTRUMENT							4	
088	840	2.2	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
089	895	4.2	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
090	837	2.6	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
091	657	23.5	DIRECT READING INSTRUMENT							4	
093	952	10.8	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
094	885	3.0	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
095	750	12.7	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
096	823	4.2	DIRECT READING INSTRUMENT							4	
098	900	4.8	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
099	860	0.1	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
100	869	1.2	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
101	899	4.7	DIRECT READING INSTRUMENT							4	
103	763	11.2	WHEAISTONE BRIDGE-TYPE CONDUCTIVITY METER							1,2,3,4	
TOTAL RANGE				88	1140						
STANDARD DEVIATION				47.8	95 % CONFIDENCE INTRVL OF MEAN				859.0 + OR -	11.3	

TABLE 7 --

STANDARD REFERENCE SAMPLE M86 REPORT FOR SR

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
008	780		3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
011	770		2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
015	760		0.9	EMISSION, IC PLASMA	5
016	760		3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
017	560		25.6	EMISSION, IC PLASMA	5
020	760		0.9		
027	1200		59.4	REJECT	
032	1980		162.9	REJECT	
040	790		4.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
041	800		6.2	EMISSION, IC PLASMA	5
042	2300		205.4	REJECT	
045	500		33.6	ATOMIC ABSORPTION, DIRECT	5
048	3590		376.8	REJECT	
051	760		3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
052	170		77.4	REJECT	1,2,4
056	770		2.3	ATOMIC ABSORPTION, DIRECT, AIR	5
057	930		23.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
067	770		2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
079	840		11.6	EMISSION, IC PLASMA	5
084	770		2.3	EMISSION, IC PLASMA	5
090	760		0.9	EMISSION, IC PLASMA	5
093	400		46.9	REJECT	
094	760		0.9	EMISSION, IC PLASMA	5
098	590		21.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
099	800		6.2	OTHER	
103	790		4.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
TOTAL RANGE					
STANDARD DEVIATION					
TOTAL RANGE 170					
STANDARD DEVIATION 97					
MEAN: 3590					
95 % CONFIDENCE INTVL OF MEAN 753					
753 + OR - 45					

TABLE 7 --

STANDARD REFERENCE SAMPLE M86										REPORT FOR V		
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES	TOTAL RANGE STANDARD DEVIATION	4	10 12.1	50	MEAN 18.1	10.1 INTRVL OF MEAN	18.1 + OR -	5.8
008	12	33.5	ATOMIC ABSORPTION, FLAMELESS	3								
015	4	77.8	EMISSION, IC PLASMA	5								
017	50	177.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
022	18	0.3	ATOMIC ABSORPTION, FLAMELESS	3								
027	100	***	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
032	30	66.2	ATOMIC ABSORPTION, FLAMELESS	3								
036	40	121.6	EMISSION, IC PLASMA	5								
040	10	44.6	ATOMIC ABSORPTION, FLAMELESS	3								
041	12	33.5	EMISSION, IC PLASMA	5								
042	20	10.8	ATOMIC ABSORPTION, FLAMELESS	3								
045	50	***	IGNORED	3								
051	11	39.1	EMISSION, IC PLASMA	5								
052	12	33.5	EMISSION, IC PLASMA	5								
054	50	***	IGNORED	3								
063	14	22.4	ATOMIC ABSORPTION, FLAMELESS	3								
067	10	***	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
077	400	***	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
079	10	44.6	EMISSION, IC PLASMA	5								
084	13	44.6	EMISSION, IC PLASMA	5								
090	13	28.0	COLORIMETRIC, CATALYTIC OXIDATION	4								
093	31	71.7	ATOMIC ABSORPTION, FLAMELESS	3								
094	9	50.1	EMISSION, IC PLASMA	5								
096	10	44.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
098	200	***	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
099	100	***	IGNORED	1,3								
105	27	49.6	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,3								
			OTHER									

TABLE 8 --

STATISTICS BY METHOD FOR SAMPLE# M86

DETERMINATION: ALK(CAC03)			
METHOD			
TITRATION, COLORIMETRIC, AUTOMATED	MEAN	STD DEV	N
TITRATION, COLORIMETRIC, MANUAL	150.0	0.0	3
TITRATION, ELECTROMETRIC, AUTOMATED	152.1	6.6	15
TITRATION, ELECTROMETRIC, MANUAL	153.6	5.7	13
OTHER	149.2	4.3	33
***** OVER ALL *****	152.7	1.2	3
	150.7	5.4	69
DETERMINATION: B			
METHOD			
COLORIMETRIC, CARMININE (CARMINIC ACID)	MEAN	STD DEV	N
COLORIMETRIC, CURCUMIN	207	70	3
EMISSION, IC PLASMA	264	84	9
***** OVER ALL *****	193	37	9
	240	75	27
DETERMINATION: BR			
METHOD			
OTHER	MEAN	STD DEV	N
***** OVER ALL *****	212	215	5
	291	298	11
DETERMINATION: CA			
METHOD			
ATOMIC ABSORPTION, DIRECT, AIR	MEAN	STD DEV	N
EMISSION, IC PLASMA	69.6	7.3	50
TITRATION, EDTA	72.5	3.4	11
***** OVER ALL *****	72.0	4.0	7
	70.6	6.8	70
DETERMINATION: CL			
METHOD			
COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	MEAN	STD DEV	N
ION CHROMATOGRAPHY	44.5	1.7	24
ION SELECTIVE ELECTRODE	46.0	1.6	4
TITRATION, MERCURIC NITRATE	44.0	1.7	3
TITRATION, SILVER NITRATE	44.2	1.5	13
***** OVER ALL *****	45.4	1.6	23
	44.8	1.7	69

TABLE 8 --

STATISTICS BY METHOD FOR SAMPLE: M86

DETERMINATION: DSRD 180

METHOD	MEAN	STD DEV	N
RESIDUE, FILTRABLE	577.6	16.0	31
RESIDUE ON EVAPORATION	585.6	14.5	25
***** OVER ALL *****	581.1	16.7	59

DETERMINATION: F

METHOD	MEAN	STD DEV	N
COLORIMETRIC, SPADNS	2.12	0.32	4
ION CHROMATOGRAPHY	2.10	0.26	3
ION SELECTIVE ELECTRODE, AUTOMATED	1.95	0.14	10
ION SELECTIVE ELECTRODE, MANUAL	1.96	0.19	36
***** OVER ALL *****	1.99	0.21	62

DETERMINATION: I

DETERMINATION: K

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	4.70	0.62	45
FLAME, EMISSION, PHOTOMETRIC	4.94	0.50	10
OTHER	4.42	0.69	5
PLASMA, INDUCTIVELY COUPLED	4.57	0.15	3
***** OVER ALL *****	4.72	0.59	66

DETERMINATION: MG

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	27.8	1.6	48
EMISSION, IC PLASMA	28.7	0.9	12
TITRATION, EDTA	28.7	1.5	3
***** OVER ALL *****	28.0	1.5	66

TABLE 8 --

STATISTICS BY METHOD FOR SAMPLE: M86

DETERMINATION: NA

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	76.7	3.5	45
PLASMA, INDUCTIVELY COUPLED	78.2	3.0	11
FLAME EMISSION, PHOTOMETRIC	77.0	2.4	10
***** OVER ALL *****	77.0	3.3	69

DETERMINATION: NU2-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, DIAZOTIZATION	0.011	0.004	38
***** OVER ALL *****	0.011	0.004	42

DETERMINATION: NU3-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, BRUCINE	3.943	0.407	17
COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	4.020	0.377	40
COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3.717	0.411	4
ION CHROMATOGRAPHY	3.972	0.336	4
***** OVER ALL *****	3.975	0.392	68

DETERMINATION: P, TOTAL

METHOD	MEAN	STD DEV	N
COLORIMETRIC, BLK DIG, H2SO4, K&HG SO4, PHOSPHOMOLYBDATE	0.503	0.075	7
COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	0.495	0.063	43
OTHER	0.503	0.091	6
***** OVER ALL *****	0.497	0.066	59

DETERMINATION: PH

METHOD	MEAN	STD DEV	N
ELECTROMETRIC	8.13	0.19	78
***** OVER ALL *****	8.13	0.20	84

TABLE 8 --

STATISTICS BY METHOD FOR SAMPLE: M86

DETERMINATION: 3102

METHOD
 ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE
 COLORIMETRIC, MOLYBDOSILICIC ACID
 CO-METRIC, AMINO-NAPHTHOL SULFONIC ACID REDUCE-HETEROPOLY BLUE
 COLORIMETRIC, ASCORBIC ACID REDUCTION TO MOLYBDATE BLUE, AUTO.
 EMISSION, IC PLASMA
 ***** OVER ALL *****

MEAN	STD DEV	N
11.78	3.67	11
13.25	0.51	10
14.57	2.19	4
12.02	1.97	12
13.24	0.64	9
12.62	2.37	52

DETERMINATION: S04

METHOD
 COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED
 GRAVIMETRIC, BARIUM SULFATE
 ION CHROMATOGRAPHY
 THORIN TITRATION
 TURBIDIMETRIC, BARIUM SULFATE
 ***** OVER ALL *****

MEAN	STD DEV	N
217.5	8.8	20
225.2	13.7	12
227.2	7.8	6
220.0	0.0	3
222.2	15.2	26
221.9	12.7	68

DETERMINATION: SP. COND.

METHOD
 DIRECT READING INSTRUMENT
 WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER
 OTHER
 ***** OVER ALL *****

MEAN	STD DEV	N
852.9	47.7	27
861.0	49.9	40
879.8	15.9	4
859.0	47.8	71

DETERMINATION: SR

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 EMISSION, IC PLASMA
 ***** OVER ALL *****

MEAN	STD DEV	N
773	86	9
755	83	8
753	97	20

DETERMINATION: V

METHOD
 ATOMIC ABSORPTION, FLAMELESS
 EMISSION, IC PLASMA
 ***** OVER ALL *****

MEAN	STD DEV	N
19.3	8.4	7
13.5	11.0	8
18.1	12.1	19

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR ACID@CAC03

CODE	REPORTED VALUE	PCI. DEV. FROM MEAN	METHODS	REFERENCES
008	412	2.0	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
015	400	0.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
027	403	0.2	TITRATION, COLORIMETRIC, MANUAL	1,2,3
035	410	1.6	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
036	390	3.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
039	370	8.4	TITRATION, COLORIMETRIC, MANUAL	1,2,3
042	428	6.0	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
046	396	1.9	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
054	393	2.7	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
060	412	2.0	TITRATION, COLORIMETRIC, MANUAL	1,2,3
067	418	3.5	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
072	476	17.9	REJECT	1,2,3,4
075	382	5.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
077	398	1.4	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
087	434	7.5	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
090	8	98.0	REJECT	1,2,3,4
098	410	1.6	TITRATION, ELECTROMETRIC, MANUAL	1,2,3,4
105	236	41.5	REJECT	1,2,3,4

TOTAL RANGE 8 TO 476 MEANS 403.7
 STANDARD DEVIATION 16.8 95 % CONFIDENCE INTRVL OF MEAN 403.7 ± OR 4 9.3

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR AG

CODE	REPORTED VALUE	PCt. DEV. FROM MEAN	METHODS	REFERENCES
002	1	60.0	ATOMIC ABSORPTION, FLAMELESS	3
006	2	20.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
007	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
008	1	60.0	ATOMIC ABSORPTION, FLAMELESS	3
010	<	***	IGNORED	3
012	<	***	IGNORED	1,2,3
015	<	***	IGNORED	1,2,3
017	2	20.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
021	9	260.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
023	3	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
026	<	***	IGNORED	1,2,3
027	<	***	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
029	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
030	<	***	ATOMIC ABSORPTION, FLAMELESS	3
032	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
035	1	60.0	ATOMIC ABSORPTION, FLAMELESS	3
039	1	60.0	ATOMIC ABSORPTION, FLAMELESS	3
040	<	***	ATOMIC ABSORPTION, FLAMELESS	3
041	<	***	ATOMIC ABSORPTION, FLAMELESS	3
042	5	***	PLASMA, INDUCTIVELY COUPLED	3
045	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
047	<	***	IGNORED	1,2,3
049	3	20.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
051	2	20.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
054	<	***	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
059	5	***	ATOMIC ABSORPTION, FLAMELESS	3
064	<	***	ATOMIC ABSORPTION, FLAMELESS	1,2,3
067	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
068	<	***	ATOMIC ABSORPTION, FLAMELESS	1,2,3
072	10	***	ATOMIC ABSORPTION, DIRECT, AIR	3
075	<	***	ATOMIC ABSORPTION, FLAMELESS	1,2,3
077	2	20.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
079	<	***	IGNORED	3
081	<	***	IGNORED	3
082	10	***	OTHER	3
083	1	60.0	ATOMIC ABSORPTION, FLAMELESS	3
088	<	***	ATOMIC ABSORPTION, FLAMELESS	3
090	<	***	ATOMIC ABSORPTION, FLAMELESS	3
096	<	***	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,2,4
098	20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
099	<	300.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
105	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3
105	<	***	ATOMIC ABSORPTION, FLAMELESS	3

TOTAL RANGE 0 TO 10 MEAN: 2.5
 STANDARD DEVIATION 3.1 95 % CONFIDENCE INTERVAL OF MEAN 2.5 + OR - 1.8

TABLE 9 --

STANDARD REFERENCE SAMPLE T67 REPORT FOR AL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	10	87.3	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
006	5	93.7	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
007	0	100.0	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
015	<	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
017	40	49.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
020	310	293.7		
023	50	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
027	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
032	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
036	< 10	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
039	10	87.3	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
040	< 20	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
041	< 10	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
042	10	87.3	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
045	< 10	***	IGNORED	
046	60	23.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
047	320	306.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
051	< 10	***	IGNORED ATOMIC ABSORPTION, CHELATION EXTRACTION, NITROUS OXIDE, MANUAL	2,4
064	< 25	***	IGNORED ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
067	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
068	20	74.6	ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
072	< 500	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
076	80	1.6	PLASMA, INDUCTIVELY COUPLED	
077	< 400	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
079	< 20	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
081	< 90	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
088	< 50	***	IGNORED ATOMIC ABSORPTION, DIRECT, FLAMELESS	3
090	< 10	***	IGNORED PLASMA, DIRECT CURRENT	
096	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
098	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
099	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	1,2,3,4
105	80	1.6	PLASMA, DIRECT CURRENT	
TOTAL RANGE 0 TO 320				
STANDARD DEVIATION 113.9				
95 % CONFIDENCE INTRVL OF MEAN 78.8				
MEAN: 78.8				
78.8 + OR -				72.4

TABLE 9 -- STANDARD REFERENCE SAMPLE T67 REPORT FOR A3

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	5	6.3	ATOMIC ABSORPTION, FLAMELESS	3
006	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
007	0	100.0	SPECTROPHOTOMETRIC, SILVER DIETHYL DITHIOCARBAMATE	2, 3, 4
008	4	14.9	ATOMIC ABSORPTION, FLAMELESS	3
012	16	240.2	ATOMIC ABSORPTION, FLAMELESS	3
015	3	36.2	OTHER	
016	1	78.7	ATOMIC ABSORPTION, FLAMELESS	3
020	16	240.2		
021	17	261.5	ATOMIC ABSORPTION, FLAMELESS	3
022	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
023	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
026	<	***	IGNORED	
027	5	36.2	OTHER	
029	3	57.5	ATOMIC ABSORPTION, FLAMELESS	3
030	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
032	20	***	IGNORED	
033	9	91.4	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
035	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
036	3	36.2	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
039	1	78.7	ATOMIC ABSORPTION, FLAMELESS	3
040	6	27.6	ATOMIC ABSORPTION, FLAMELESS	3
041	10	***	IGNORED	
042	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
045	40	750.6	REJECT	
046	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
047	10	112.6	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
048	15	219.0	ATOMIC ABSORPTION, FLAMELESS	3
049	7	48.9	ATOMIC ABSORPTION, HYDRIDE, (ZINC), MANUAL	1, 2, 3, 4
051	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), AUTOMATED	4
054	10	***	SPECTROPHOTOMETRIC, SILVER DIETHYL DITHIOCARBAMATE	2, 3, 4
056	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
059	10	***	ATOMIC ABSORPTION, FLAMELESS	3
064	10	***	ATOMIC ABSORPTION, FLAMELESS	3
067	10	***	ATOMIC ABSORPTION, FLAMELESS	3
068	2	57.5	ATOMIC ABSORPTION, FLAMELESS	3
076	3	36.2	ATOMIC ABSORPTION, FLAMELESS	3
077	3	36.2	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
079	<	***	OTHER	
081	50	***	IGNORED	
082	<	***	ATOMIC ABSORPTION, FLAMELESS	3
083	10	112.6	ATOMIC ABSORPTION, FLAMELESS	3
084	3	36.2	ATOMIC ABSORPTION, FLAMELESS	3
088	3	36.2	ATOMIC ABSORPTION, FLAMELESS	3
089	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	3
090	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), AUTOMATED	1
094	4	14.9	ATOMIC ABSORPTION, FLAMELESS	4
096	<	***	IGNORED	3
098	5	***	ATOMIC ABSORPTION, FLAMELESS	3
099	2	57.5	ATOMIC ABSORPTION, HYDRIDE, (NABH ₄), MANUAL	1
105	3	36.2	ATOMIC ABSORPTION, FLAMELESS	3

TOTAL RANGE 0 10 40 4.7
 STANDARD DEVIATION 4.6 95 % CONFIDENCE INTRVL OF MEAN 4.7 + OR - 1.5

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR BA

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	62	22.8	ATOMIC ABSORPTION, FLAMELESS	3
006	230	186.3	ATOMIC ABSORPTION, FLAMELESS	3
007	66	17.9	PLASMA, INDUCTIVELY COUPLED	5
008	1200	393.6	REJECT	1,2,3,4
010	1	***	IGNORED	1,2,3,4
012	100	24.5	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
015	60	25.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
017	54	32.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
020	62	22.8	PLASMA, INDUCTIVELY COUPLED	5
021	29	63.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
023	193	140.2	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
026	85	5.8	ATOMIC ABSORPTION, FLAMELESS	3
030	80	0.4	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
032	64	20.3	ATOMIC ABSORPTION, FLAMELESS	3
036	60	25.3	PLASMA, INDUCTIVELY COUPLED	5
039	60	25.3	ATOMIC ABSORPTION, FLAMELESS	5
040	55	31.5	PLASMA, INDUCTIVELY COUPLED	5
041	60	25.3	PLASMA, INDUCTIVELY COUPLED	5
042	50	37.8	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
045	500	***	IGNORED	1,2,3,4
046	70	12.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
047	172	114.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
049	49	39.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
052	68	15.4	PLASMA, INDUCTIVELY COUPLED	5
054	44	45.2	ATOMIC ABSORPTION, FLAMELESS	3
056	70	12.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
059	200	***	IGNORED	1,2,3,4
064	400	***	IGNORED	1,2,3,4
067	200	148.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
072	100	***	IGNORED	1,2,3,4
075	60	25.3	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
077	100	***	IGNORED	1,2,3,4
079	60	25.3	PLASMA, INDUCTIVELY COUPLED	5
081	53	34.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
082	51	36.5	ATOMIC ABSORPTION, FLAMELESS	3
083	50	37.8	ATOMIC ABSORPTION, FLAMELESS	3
084	54	32.8	PLASMA, INDUCTIVELY COUPLED	5
088	80	0.4	PLASMA, DIRECT CURRENT	2
090	59	26.6	PLASMA, INDUCTIVELY COUPLED	5
094	62	22.8	GRAVIMETRIC, SULFATE	4
096	50	***	IGNORED	1,2,3,4
098	200	148.9	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
099	100	***	IGNORED	1,2,3,4
105	40	50.2	PLASMA, DIRECT CURRENT	2

TOTAL RANGE 29 TO 1200 MEAN: 80.3
 STANDARD DEVIATION 51.5 95 % CONFIDENCE INTERVAL OF MEAN 80.3 + OR - 17.6

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR BE

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
015	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
017	<	100.0	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
020	<	***	IGNORED	3
022	<	100.0	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
027	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	3
032	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	5
036	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	3
039	<	100.0	ATOMIC ABSORPTION, FLAMELESS	5
040	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
041	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
042	<	100.0	ATOMIC ABSORPTION, FLAMELESS	3
051	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
052	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
067	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
068	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
079	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
081	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
082	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
084	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
088	<	***	IGNORED COLORIMETRIC, ALUMINUM	1
089	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
090	<	***	IGNORED PLASMA; INDUCTIVELY COUPLED	5
098	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
099	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3,4
105	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
TOTAL RANGE 0 TO 1				
STANDARD DEVIATION 0.6				
95 % CONFIDENCE INTRVL OF MEAN 0.5				
MEAN: 0.5				
0.5 + OR - 0.9				

TABLE 9 -- STANDARD REFERENCE SAMPLE 187 REPORT FOR CD

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
006	1.0	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0.1	89.6	ATOMIC ABSORPTION, FLAMELESS	3
008	0.0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
010	< 0.3	***	IGNORED	3
012	< 1.0	***	IGNORED	3
013	4.0	314.9	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
015	< 3.0	***	ATOMIC ABSORPTION, DIRECT, AIR	5
017	5.0	418.7	ATOMIC ABSORPTION, INDUCTIVELY COUPLED	1,2,3,4
020	1.0	3.7	REJECT	
021	0.2	79.3	ATOMIC ABSORPTION, DIRECT, AIR	
023	0.1	89.6	ATOMIC ABSORPTION, FLAMELESS	3
026	< 2.0	***	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	1,4
027	0.0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
029	0.1	89.6	ATOMIC ABSORPTION, FLAMELESS	3
030	1.0	3.7	ATOMIC ABSORPTION, FLAMELESS	3
032	< 1.0	***	IGNORED	3
035	2.0	107.5	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	1,4
036	0.7	27.4	ATOMIC ABSORPTION, FLAMELESS	3
039	1.0	3.7	ATOMIC ABSORPTION, FLAMELESS	3
040	< 0.1	***	ATOMIC ABSORPTION, FLAMELESS	3
041	< 5.0	***	ATOMIC ABSORPTION, FLAMELESS	3
042	< 0.1	89.6	PLASMA, INDUCTIVELY COUPLED	5
045	< 10.0	***	ATOMIC ABSORPTION, FLAMELESS	3
046	< 0.2	***	IGNORED	
047	3.0	211.2	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
048	0.3	68.9	ATOMIC ABSORPTION, DIRECT, AIR	3
049	1.0	3.7	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
051	1.0	3.7	ATOMIC ABSORPTION, DIRECT, AIR	1,4
052	< 1.0	***	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	3
054	0.7	27.4	ATOMIC ABSORPTION, FLAMELESS	3
059	< 10.0	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	< 0.2	***	ATOMIC ABSORPTION, FLAMELESS	3
067	20.0	974.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	0.4	58.5	ATOMIC ABSORPTION, FLAMELESS	3
072	< 10.0	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	3.0	211.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	2.2	128.2	PLASMA, INDUCTIVELY COUPLED	5
077	< 10.0	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	< 10.0	***	ATOMIC ABSORPTION, INDUCTIVELY COUPLED	5
081	< 1.0	***	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	1,4
082	1.0	3.7	ATOMIC ABSORPTION, FLAMELESS	3
083	0.2	79.3	ATOMIC ABSORPTION, FLAMELESS	3
084	< 2.0	***	PLASMA, INDUCTIVELY COUPLED	5
088	< 1.0	***	ATOMIC ABSORPTION, FLAMELESS	3
089	< 0.1	***	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	1,4
090	< 1.0	***	ATOMIC ABSORPTION, EXTRACTION, (APDC/MIBK)	1,4
096	< 10.0	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	20.0	974.7	REJECT	

TABLE 9 --

STANDARD REFERENCE SAMPLE 187							REPORT FOR CD	
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS		REFERENCES			
099	< 10.0	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR		1,2,3,4			
105	< 1.0	***	IGNORED ATOMIC ABSORPTION, FLAMELESS		3			
TOTAL RANGE		0.0	TO	20.0	MEAN ± 0.96			
STANDARD DEVIATION		1.08	95 % CONFIDENCE INTRVL OF MEAN		0.96 + OR -	0.45		

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR CO

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
006	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
008	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
015	< 5	***	IGNORED PLASMA, INDUCTIVELY COUPLED	5
017	13	160.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	< 1	***	IGNORED	
022	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
027	< 20	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
040	< 10	***	IGNORED PLASMA, INDUCTIVELY COUPLED	5
041	< 5	***	IGNORED PLASMA, INDUCTIVELY COUPLED	5
042	3	40.0	ATOMIC ABSORPTION, FLAMELESS	3
046	< 5	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	5	0.0	ATOMIC ABSORPTION, FLAMELESS	3
051	3	40.0	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
052	< 3	***	IGNORED PLASMA, INDUCTIVELY COUPLED	5
067	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	< 10	***	IGNORED PLASMA, INDUCTIVELY COUPLED	5
081	40	700.0	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
082	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
090	< 1	***	IGNORED ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
094	11	120.0	PLASMA, INDUCTIVELY COUPLED	5
096	< 50	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0 TO 40 MEAN: 5.0
 STANDARD DEVIATION 5.1 95 % CONFIDENCE INTRVL OF MEAN 5.0 + OR - 4.7

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR CR T01

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
006	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
008	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
012	10	54.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
013	7	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	24	270.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	5	22.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
023	30	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
026	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
030	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
032	5	22.9	ATOMIC ABSORPTION, DIRECT, AIR	3
035	2	69.2	ATOMIC ABSORPTION, DIRECT, AIR	3
036	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
039	1	84.6	ATOMIC ABSORPTION, DIRECT, AIR	3
040	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
041	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
042	3	53.7	ATOMIC ABSORPTION, DIRECT, AIR	3
045	<	***	ATOMIC ABSORPTION, DIRECT, AIR	3
046	20	208.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	3	53.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
049	22	239.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
050	7	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
051	7	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
054	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
059	11	69.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
071	5	22.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	20	208.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	4	36.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
077	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
080	2	69.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
081	8	23.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
082	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
083	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
084	2	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
087	13	100.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	1	84.6	ATOMIC ABSORPTION, FLAMELESS	3
089	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	<	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR CR T0Y

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
096	<	50	*** IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
097	3	53.7	ATOMIC ABSORPTION, FLAMELESS	3
098	<	20	*** IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	10	54.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	1	84.6		
105	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
TOTAL RANGE				
STANDARD DEVIATION		1	TO	
		6.8	6.5	
		24	MEAN:	
		95 % CONFIDENCE	INTRVL OF MEAN	6.5 + OR -
				2.5

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR CU

CODE	REPORTED VALUE	PC1. DEV. FROM MEAN	METHODS	REFERENCES
002	7	21.2	ATOMIC ABSORPTION, FLAMELESS	3
006	6	32.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	20	125.0	PLASMA, INDUCTIVELY COUPLED	5
008	4	55.0	ATOMIC ABSORPTION, FLAMELESS	3
010	11	23.8	ATOMIC ABSORPTION, FLAMELESS	3
012	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
013	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	10	***	IGNORED	5
017	8	10.0	PLASMA, INDUCTIVELY COUPLED	1,2,3,4
020	1	88.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
021	9	1.3	ATOMIC ABSORPTION, DIRECT, AIR	3
022	6	32.5	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
023	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
026	9	1.3	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
027	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	5	43.7	IGNORED	1,2,3,4
030	20	***	ATOMIC ABSORPTION, DIRECT, AIR	3
032	17	91.3	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
035	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	3
036	6	32.5	ATOMIC ABSORPTION, FLAMELESS	3
039	1	88.7	ATOMIC ABSORPTION, FLAMELESS	3
040	6	32.5	ATOMIC ABSORPTION, FLAMELESS	3
041	6	32.5	PLASMA, INDUCTIVELY COUPLED	5
042	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
045	20	***	IGNORED	1,2,3,4
046	20	125.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	11	23.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	6	32.5	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
049	18	102.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
050	7	21.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
051	4	55.0	ATOMIC ABSORPTION, DIRECT, AIR	1,4
052	10	***	PLASMA, INDUCTIVELY COUPLED	5
054	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
059	50	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	3	66.2	ATOMIC ABSORPTION, FLAMELESS	3
067	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	7	21.2	ATOMIC ABSORPTION, FLAMELESS	3
070	5	43.7	ATOMIC ABSORPTION, FLAMELESS	3
071	14	57.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	17	91.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	15	68.8	PLASMA, INDUCTIVELY COUPLED	5
077	20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	9	1.3	PLASMA, INDUCTIVELY COUPLED	5
080	8	10.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
081	9	1.3	ATOMIC ABSORPTION, FLAMELESS	3
082	5	43.7	ATOMIC ABSORPTION, FLAMELESS	3
083	1	88.7	ATOMIC ABSORPTION, FLAMELESS	3

TABLE 9 --

STANDARD REFERENCE SAMPLE T67 REPORT FOR CU

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
084	12	35.0	PLASMA, INDUCTIVELY COUPLED	5
087	13	46.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	6	32.5	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
094	8	10.0	PLASMA, INDUCTIVELY COUPLED	5
096	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
097	8	10.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	10	12.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	12	35.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	120	250.0	REJECT ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 1 TO 120 MEAN 8.9
 STANDARD DEVIATION 4.7 95 % CONFIDENCE INTRVL OF MEAN 0.9 + OR - 1.4

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR FE

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
006	14	35.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	10	54.0	PLASMA, INDUCTIVELY COUPLED	5
008	10	54.0	OTHER	
012	10	54.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	10	***	PLASMA, INDUCTIVELY COUPLED	5
016	10	54.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	30	38.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	10	54.0	ATOMIC ABSORPTION, DIRECT, AIR	
022	6	72.4	ATOMIC ABSORPTION, FLAMELESS	3
023	50	***	IGNORED	1,2,3,4
027	10	***	IGNORED	1,2,3,4
030	50	***	IGNORED	1,2,3,4
032	3	86.2	ATOMIC ABSORPTION, FLAMELESS	3
035	20	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	10	***	PLASMA, INDUCTIVELY COUPLED	5
039	50	130.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	10	***	PLASMA, INDUCTIVELY COUPLED	5
041	10	***	IGNORED	5
042	10	54.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
045	20	***	IGNORED	
046	40	84.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	40	84.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	10	54.0	OTHER	
051	10	54.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	12	44.8	PLASMA, INDUCTIVELY COUPLED	5
054	200	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
059	60	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
060	70	222.1	OTHER	
064	100	360.1	REJECT	1,2,3,4
065	40	84.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	50	***	IGNORED	1,2,3,4
068	6	72.4	ATOMIC ABSORPTION, FLAMELESS	3
069	20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
071	40	84.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	30	***	IGNORED	1,2,3,4
075	880	949.1	REJECT	1,2,3,4
076	170	682.2	REJECT	1,2,3,4
077	50	***	PLASMA, INDUCTIVELY COUPLED	5
079	20	8.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
080	20	8.0	PLASMA, INDUCTIVELY COUPLED	5
081	80	268.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
082	5	77.0	ATOMIC ABSORPTION, FLAMELESS	3
083	2	90.8	OTHER	
084	10	***	PLASMA, INDUCTIVELY COUPLED	5
087	40	84.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	30	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	10	***	IGNORED	1,2,3,4
090	4	81.6	PLASMA, INDUCTIVELY COUPLED	5

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR FE

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
096	< 30	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	< 20	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	30	38.0	OTHER	
TOTAL RANGE 0 TO 880				
STANDARD DEVIATION 20.3				
95 % CONFIDENCE INTERVAL OF MEAN 21.7 ± OR - 7.6				

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR HG

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.4	42.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
007	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
010	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	3,4
018	<	***	IGNORED	1,2,3,4
012	1.0	255.3	REJECT	1,2,3,4
015	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	3,4
016	0.1	64.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED	1,2,3,4
021	0.9	219.7	REJECT	1,2,3,4
026	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
027	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
029	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
032	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
035	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
036	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
039	0.1	64.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED	3,4
040	0.5	***	IGNORED	1,2,3,4
041	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED	3,4
042	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
045	<	***	IGNORED	1,2,3,4
046	<	***	IGNORED	1,2,3,4
047	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
048	0.4	42.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
049	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
050	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
051	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED	3,4
054	<	***	IGNORED	1,2,3,4
059	0.5	77.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
064	<	***	IGNORED	1,2,3,4
067	<	***	IGNORED	1,2,3,4
068	<	***	IGNORED	1,2,3,4
077	0.6	113.2	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
081	0.4	42.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
082	0.3	6.6	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
083	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
084	0.2	28.9	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
088	<	***	IGNORED	1,2,3,4
089	<	***	IGNORED	1,2,3,4
090	0.1	64.5	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED	3,4
096	0.4	42.1	ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4
098	<	148.7	REJECT	1,2,3,4
099	<	***	IGNORED OTHER	1,2,3,4
105	<	***	IGNORED ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL	1,2,3,4

TOTAL RANGE 0.1 TO 1.0 MEAN: 0.28
 STANDARD DEVIATION 0.12 95 % CONFIDENCE INTRVL OF MEAN 0.28 + OR - 0.05

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR LI

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
016	20	22.6	OTHER	
017	20	22.6	EMISSION, FLAME	1
020	20	22.6		
032	30	16.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
036	20	22.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
040	30	16.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
041	20	22.6	PLASMA, INDUCTIVELY COUPLED	5
042	20	22.6	EMISSION, FLAME	1
045	50	***	IGNORED	
051	20	22.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
052	21	18.7		
056	20	22.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
057	40	54.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
065	40	54.8	EMISSION, FLAME	1
067	30	16.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
079	30	16.1	PLASMA, INDUCTIVELY COUPLED	5
084	20	22.6	PLASMA, INDUCTIVELY COUPLED	5
090	30	16.1	PLASMA, INDUCTIVELY COUPLED	5
094	40	54.8	PLASMA, INDUCTIVELY COUPLED	5
098	10	***	IGNORED	
099	100	287.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
105	20	22.6	REJECT EMISSION, FLAME	1
			ATOMIC ABSORPTION, DIRECT, AIR	1,2,4

TOTAL RANGE 20 TU 100 MEAN: 25.8
STANDARD DEVIATION 7.6 95 % CONFIDENCE INTVL OF MEAN 25.6 + OR - 3.7

STANDARD REFERENCE SAMPLE T87 REPORT FOR MN

TABLE 9 --
REPORTED
VALUE

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
006	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0	100.0	PLASMA, INDUCTIVELY COUPLED	5
008	0	100.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
012	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
016	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	1	81.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	1	81.6	ATOMIC ABSORPTION, FLAMELESS	3
023	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
030	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	2	63.2	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
035	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
039	10	83.8	ATOMIC ABSORPTION, FLAMELESS	3
040	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
041	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
042	5	8.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
045	< 20	***	IGNORED	5
046	30	451.5	REJECT	1,2,3,4
047	50	819.1	REJECT	1,2,3,4
048	1	81.6	ATOMIC ABSORPTION, FLAMELESS	3
049	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
051	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	1	81.6	ATOMIC ABSORPTION, EXTRACTION (PDCA/CHCL3)	2,3
054	1	81.6	ATOMIC ABSORPTION, FLAMELESS	3
064	< 40	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	1	81.6	ATOMIC ABSORPTION, FLAMELESS	3
069	< 20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	130	289.7	REJECT	1,2,3,4
076	10	83.8	PLASMA, INDUCTIVELY COUPLED	5
077	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
080	10	83.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
081	10	83.8	ATOMIC ABSORPTION, FLAMELESS	3
082	1	81.6	PLASMA, INDUCTIVELY COUPLED	5
083	1	81.6	PLASMA, INDUCTIVELY COUPLED	5
084	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	< 20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	1	81.6	PLASMA, INDUCTIVELY COUPLED	5
094	20	267.6	PLASMA, INDUCTIVELY COUPLED	5
096	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0 TO 130 MEAN: 5.4
STANDARD DEVIATION 5.4 95 % CONFIDENCE INTVL OF MEAN 5.4 + OR - 2.2

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR MO

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
016	9	20.7	ATOMIC ABSORPTION, FLAMELESS	3
017	21	181.7	REJECT	1,2,3
020	9	20.7	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	
027	< 100	***	IGNORED	
032	< 7	6.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3
036	< 10	***	ATOMIC ABSORPTION, FLAMELESS	3
040	7	6.1	PLASMA, INDUCTIVELY COUPLED	5
041	6	19.5	ATOMIC ABSORPTION, FLAMELESS	3
042	8	7.3	PLASMA, INDUCTIVELY COUPLED	5
045	10	34.1	ATOMIC ABSORPTION, FLAMELESS	3
051	7	6.1	ATOMIC ABS, EXTRACTION, 8 HYDROXYQUINOLINE/MIBK, NITROUS OXIDE	4
067	< 100	***	IGNORED	1,2,3
076	7	6.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	5
079	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
088	5	32.9	IGNORED	3
089	< 100	***	ATOMIC ABSORPTION, FLAMELESS	1,2,3
090	7	6.1	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	4
096	< 100	***	ATOMIC ABS, EXTRACTION, 8 HYDROXYQUINOLINE/MIBK, NITROUS OXIDE	1,2,3
098	< 10	***	IGNORED	1,2,3
099	< 100	***	ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	1,2,3
TOTAL RANGE 5 TO 21				
STANDARD DEVIATION 1.4				
95 % CONFIDENCE INTRVL OF MEAN 7.5				
MEAN: 7.5 ± OR ± 1.0				

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR NI

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	1	88.7	ATOMIC ABSORPTION, FLAMELESS	3
006	10	12.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	4	54.9	ATOMIC ABSORPTION, FLAMELESS	3
015	< 10	***	IGNORED	
017	28	215.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	5	43.7		
021	8	9.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
023	40	***	IGNORED	1,2,3,4
027	< 10	***	IGNORED	1,2,3,4
029	2	77.5	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
032	2	77.5	ATOMIC ABSORPTION, FLAMELESS	3
036	3	66.2	ATOMIC ABSORPTION, FLAMELESS	3
040	5	***	IGNORED	3
041	< 5	***	IGNORED PLASMA, INDUCTIVELY COUPLED	3
042	3	66.2	ATOMIC ABSORPTION, FLAMELESS	3
045	< 20	***	IGNORED	
046	20	125.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
047	15	69.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	10	12.7	ATOMIC ABSORPTION, FLAMELESS	3
050	7	21.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
051	3	66.2	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
064	< 20	***	IGNORED	3
067	< 50	***	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
068	2	77.5	ATOMIC ABSORPTION, FLAMELESS	3
069	< 20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
071	2	77.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	< 100	***	IGNORED	1,2,3,4
075	366	23.9	REJECT	1,2,3,4
076	4	54.9	PLASMA, INDUCTIVELY COUPLED	1,2,3,4
077	< 40	***	IGNORED	1,2,3,4
079	< 10	***	IGNORED	
080	15	69.0	OTHER	
081	62	598.6	REJECT	1,2,3,4
082	6	32.4	ATOMIC ABSORPTION, FLAMELESS	3
087	10	12.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
088	< 50	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	< 10	***	IGNORED	1,2,3,4
090	3	66.2	ATOMIC ABSORPTION, EXTRACTION (APOC/MIBK)	1,4
096	< 40	***	IGNORED	1,2,3,4
098	< 20	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	20	125.4	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	30	238.0	OTHER	1,2,3,4

TOTAL RANGE 1 TO 366 MEAN: 8.9
 STANDARD DEVIATION 8.3 95 % CONFIDENCE INTVL OF MEAN 8.9 + OR - 3.5

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR PB

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
006	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
008	0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
010	< 5	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
012	< 10	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
013	9	110.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
015	< 10	***	PLASMA, INDUCTIVELY COUPLED	5
016	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
017	2	53.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
020	11	156.7	ATOMIC ABSORPTION, DIRECT, AIR	3
021	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
023	< 2	***	ATOMIC ABSORPTION, FLAMELESS	3
026	< 20	***	IGNORED	3
027	2	53.3	ATOMIC ABSORPTION, FLAMELESS	3
029	3	***	ATOMIC ABSORPTION, FLAMELESS	3
030	10	133.3	ATOMIC ABSORPTION, FLAMELESS	3
032	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
035	5	16.7	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
036	< 10	***	ATOMIC ABSORPTION, FLAMELESS	3
039	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
040	< 5	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
041	< 10	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
042	2	53.3	ATOMIC ABSORPTION, FLAMELESS	3
045	< 20	***	IGNORED	3
046	< 5	***	ATOMIC ABSORPTION, FLAMELESS	3
047	2	53.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	12	180.0	ATOMIC ABSORPTION, FLAMELESS	3
049	2	53.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
051	2	53.3	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
054	7	63.3	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
059	< 10	***	IGNORED ANODIC STRIPPING VOLTAMMETRY, DIFFERENTIAL PULSE	2
064	< 3	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
067	< 10	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
068	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
071	3	30.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
072	< 30	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	30	600.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	6	40.0	ATOMIC ABSORPTION, FLAMELESS	1,2,3,4
077	< 50	***	PLASMA, INDUCTIVELY COUPLED	5
079	< 30	***	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
081	< 10	***	ATOMIC ABSORPTION, FLAMELESS	3
082	3	30.0	ATOMIC ABSORPTION, FLAMELESS	3
083	1	76.7	ATOMIC ABSORPTION, FLAMELESS	3
088	9	110.0	ATOMIC ABSORPTION, FLAMELESS	3
089	< 10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	1	76.7	ATOMIC ABSORPTION, EXTRACTION (APDC/MIBK)	1,4
096	< 50	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
097	3	30.0	ATOMIC ABSORPTION, FLAMELESS	3

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR PB

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
098	13	203.3	ATOMIC ABSORPTION, FLAMELESS	3
099	<	+++	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
100	6	40.0		
105	4	6.7	ANODIC STRIPPING VOLTAMMETRY, DIFFERENTIAL PULSE	2
TOTAL RANGE 0 TO 30 MEAN: 4.3				
STANDARD DEVIATION 3.9 95 % CONFIDENCE INTVL OF MEAN 4.3 ± OR - 1.5				

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR SB

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
020	10	100.0	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR
027	< 100	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
029	< 4	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
032	< 1	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
039	< 1	80.0	IGNORED	ATOMIC ABSORPTION, FLAMELESS
040	< 5	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
041	< 15	***	IGNORED	PLASMA, INDUCTIVELY COUPLED
042	< 5	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
051	< 1	***	IGNORED	ATOMIC ABSORPTION, HYDRIDE
068	< 3	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS
075	167	240.0	REJECT	ATOMIC ABSORPTION, DIRECT, AIR
082	4	20.0	IGNORED	ATOMIC ABSORPTION, FLAMELESS
088	< 5	***	IGNORED	ATOMIC ABSORPTION, HYDRIDE
089	< 100	***	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR
090	< 1	***	IGNORED	ATOMIC ABSORPTION, HYDRIDE
105	< 1	***	IGNORED	ATOMIC ABSORPTION, FLAMELESS

TOTAL RANGE 1 10 167 MEAN: 5.0
 STANDARD DEVIATION 4.6 95 % CONFIDENCE INTRVL OF MEAN 5.0 + OR - 11.4

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR SE

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	11.0	198.4	ATOMIC ABSORPTION, FLAMELESS	3
006	1.0	72.9	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
007	3.5	5.1	ATOMIC ABSORPTION, FLAMELESS	3
008	0.0	100.0	ATOMIC ABSORPTION, FLAMELESS	3
012	8.0	117.0	ATOMIC ABSORPTION, FLAMELESS	3
015	2.0	45.7	OTHER	
016	1.0	72.9	ATOMIC ABSORPTION, FLAMELESS	3
020	9.8	165.9		
021	5.0	35.6	ATOMIC ABSORPTION, FLAMELESS	3
023	2.0	***	ATOMIC ABSORPTION, FLAMELESS	3
026	1.9	48.5	IGNORED	
027	2.0	45.7	OTHER	
030	1.0	***	ATOMIC ABSORPTION, FLAMELESS	3
032	2.0	45.7	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
035	1.0	72.9	ATOMIC ABSORPTION, FLAMELESS	3
036	1.0	72.9	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
039	2.0	45.7	ATOMIC ABSORPTION, FLAMELESS	3
040	6.0	62.8	ATOMIC ABSORPTION, FLAMELESS	3
041	6.0	62.8	ATOMIC ABSORPTION, FLAMELESS	3
042	1.0	72.9	ATOMIC ABSORPTION, FLAMELESS	3
045	10.0	***	IGNORED	
046	2.0	***	ATOMIC ABSORPTION, FLAMELESS	3
049	12.0	225.5	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
051	2.0	45.7	OTHER	
054	1.0	72.9	ATOMIC ABSORPTION, FLAMELESS	3
059	10.0	***	ATOMIC ABSORPTION, FLAMELESS	3
064	5.0	***	ATOMIC ABSORPTION, FLAMELESS	3
067	10.0	***	ATOMIC ABSORPTION, FLAMELESS	3
068	2.0	***	ATOMIC ABSORPTION, FLAMELESS	3
077	1.0	***	ATOMIC ABSORPTION, FLAMELESS	3
079	50.0	***	IGNORED	1,2,3,4
081	3.0	***	OTHER	
083	1.0	72.9	ATOMIC ABSORPTION, FLAMELESS	3
084	2.0	45.7	ATOMIC ABSORPTION, FLAMELESS	3
088	3.0	18.6	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
089	0.7	81.0	ATOMIC ABSORPTION, FLAMELESS	3
090	2.0	45.7	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
094	6.0	62.8	ATOMIC ABSORPTION, HYDRIDE	3
096	10.0	***	ATOMIC ABSORPTION, FLAMELESS	3
098	11.0	198.4	ATOMIC ABSORPTION, FLAMELESS	3
099	2.0	45.7	ATOMIC ABSORPTION, HYDRIDE	1,2,3,4
105	1.0	***	IGNORED	3

TOTAL RANGE 0.0 TO 12.0 MEAN: 3.69
 STANDARD DEVIATION 3.53 95 % CONFIDENCE INTVL OF MEAN 3.69 + OR - 1.34

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR SR

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
008	780	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
015	770	2.3	EMISSION, IC PLASMA	5
016	750	0.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
017	580	22.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
020	760	1.0		
023	760	1.0		
027	1000	32.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
032	2040	171.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
040	790	5.0	EMISSION, IC PLASMA	5
041	790	5.0	EMISSION, IC PLASMA	5
042	2300	205.6	ATOMIC ABSORPTION, DIRECT	
045	500	33.6		
048	800	6.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
051	770	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
052	770	2.3	EMISSION, IC PLASMA	5
056	790	5.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
057	930	23.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
067	770	2.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
075	270	64.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
079	820	9.0	EMISSION, IC PLASMA	5
084	760	1.0	EMISSION, IC PLASMA	5
090	760	1.0	EMISSION, IC PLASMA	5
094	810	7.6	EMISSION, IC PLASMA	5
098	580	22.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,4
099	800	6.3	OTHER	
105	470	37.6	OTHER	

TOTAL RANGE 270 TO 2300 MEAN: 752.6
 STANDARD DEVIATION 119.6 95 % CONFIDENCE INTERVAL OF MEAN 752.6 ± OR - 51.7

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR TL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
017	30	87.5	ATOMIC ABSORPTION, DIRECT, AIR	1,3
020	31	93.8		
027	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
032	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
039	< 1	93.8	ATOMIC ABSORPTION, FLAMELESS	3
040	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
041	< 30	***	IGNORED PLASMA, INDUCTIVELY COUPLED	
042	8	50.0	ATOMIC ABSORPTION, FLAMELESS	3
067	< 100	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
068	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
077	< 99	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
082	< 10	37.5	ATOMIC ABSORPTION, FLAMELESS	3
088	< 5	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
089	< 10	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	1,3
090	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3
105	< 1	***	IGNORED ATOMIC ABSORPTION, FLAMELESS	3

TOTAL RANGE 1 TO 31 MEAN: 16.0
 STANDARD DEVIATION 13.7 95 % CONFIDENCE INTVL OF MEAN 16.0 + OR - 17.0

TABLE 9 --

STANDARD REFERENCE SAMPLE T87 REPORT FOR ZN

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	7	39.0	ATOMIC ABSORPTION, FLAMELESS	3
006	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
007	10	12.9	PLASMA, INDUCTIVELY COUPLED	5
008	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
010	<	***	IGNORED	2,3,4
012	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
013	13	13.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
015	<	***	IGNORED	5
017	28	144.0	PLASMA, INDUCTIVELY COUPLED	2,3,4
020	8	30.3	ATOMIC ABSORPTION, DIRECT, AIR	
021	4	65.1	ANODIC STRIPPING VOLTAMMETRY, DIFFERENTIAL PULSE	
023	<	***	IGNORED	2,3,4
027	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
030	<	***	IGNORED	2,3,4
032	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
035	12	4.6	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
036	6	47.7	PLASMA, INDUCTIVELY COUPLED	5
039	1	91.3	ATOMIC ABSORPTION, FLAMELESS	3
040	7	39.0	PLASMA, INDUCTIVELY COUPLED	5
041	5	56.4	PLASMA, INDUCTIVELY COUPLED	5
042	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
045	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	
046	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
047	27	135.2	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
049	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
050	11	4.2	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
051	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
052	9	21.6	PLASMA, INDUCTIVELY COUPLED	5
054	220	816.8	ANODIC STRIPPING VOLTAMMETRY, DIFFERENTIAL PULSE	
056	9	21.6	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
059	<	***	IGNORED	
064	<	***	IGNORED	2,3,4
067	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
068	12	4.6	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
069	9	21.6	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
070	0	100.0	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
071	14	22.0	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
072	10	***	IGNORED	2,3,4
073	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
075	63	488.9	REJECT	2,3,4
076	6	47.7	PLASMA, INDUCTIVELY COUPLED	5
077	<	***	IGNORED	2,3,4
079	<	***	IGNORED	5
080	41	257.2	REJECT	
081	21	83.0	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
082	9	21.6	EMISSION-PLASMA ICP	
083	6	47.7	ATOMIC ABSORPTION, FLAMELESS	3
084	12	4.6	PLASMA, INDUCTIVELY COUPLED	5
087	11	4.2	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4

TABLE 9 --

STANDARD REFERENCE SAMPLE 187 REPORT FOR ZN

CODE	REPORTED VALUE	PCI. DEV. FROM MEAN	METHODS	REFERENCES
088	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
089	20	74.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
090	8	30.3	PLASMA, INDUCTIVELY COUPLED	5
094	8	30.3	PLASMA, INDUCTIVELY COUPLED	5
096	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
097	14	22.0	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
098	<	***	IGNORED ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
099	10	12.9	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
100	8	30.3	ATOMIC ABSORPTION, DIRECT, AIR	2,3,4
105	150	206.9	REJECT ATOMIC ABSORPTION, DIRECT, AIR	2,3,4

TOTAL RANGE 0 TO 220 MEAN: 11.5
 STANDARD DEVIATION 6.1 95 % CONFIDENCE INTVL OF MEAN 11.5 + OR - 1.9

TABLE 10 --

STATISTICS BY METHOD FOR SAMPLE: T87

DETERMINATION: ACID@CACO3

METHOD	MEAN	STD DEV	N
TITRATION, COLORIMETRIC, MANUAL	395.0	22.1	3
TITRATION, ELECTROMETRIC, MANUAL	405.9	15.6	12
***** OVER ALL *****	403.7	16.8	15

DETERMINATION: AG

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	4.3	3.6	7
ATOMIC ABSORPTION, FLAMELESS	0.7	0.5	7
***** OVER ALL *****	2.5	3.1	14

DETERMINATION: AL

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, FLAMELESS	9.2	6.6	6
ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE, MANUAL	140.0	156.2	3
***** OVER ALL *****	49.6	130.6	12

DETERMINATION: AS

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, FLAMELESS	5.1	4.9	23
ATOMIC ABSORPTION, HYDRIDE, (NABH4), MANUAL	3.3	3.0	7
***** OVER ALL *****	4.7	4.6	37

DETERMINATION: BA

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, NITROUS OXIDE	98.6	63.3	14
ATOMIC ABSORPTION, FLAMELESS	80.8	61.6	8
PLASMA, INDUCTIVELY COUPLED	60.2	4.5	9
***** OVER ALL *****	58.7	75.7	35

DETERMINATION: BE

METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, FLAMELESS	0.3	0.6	3
***** OVER ALL *****	0.5	0.6	4

TABLE 10 --
STATISTICS BY METHOD FOR SAMPLE: T87

DETERMINATION: CU			
METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	2.40	1.34	5
ATOMIC ABSORPTION, FLAMELESS	0.37	0.34	16
***** OVER ALL *****	0.96	1.08	25
DETERMINATION: CO			
METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, FLAMELESS	2.0	2.4	4
***** OVER ALL *****	5.0	5.1	7
DETERMINATION: CR TIT			
METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	12.3	6.9	13
ATOMIC ABSORPTION, FLAMELESS	1.7	1.3	13
***** OVER ALL *****	6.5	6.8	31
DETERMINATION: CU			
METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	11.1	3.8	18
ATOMIC ABSORPTION, FLAMELESS	6.1	4.2	13
PLASMA, INDUCTIVELY COUPLED	11.7	5.2	6
***** OVER ALL *****	8.9	4.7	45
DETERMINATION: FE			
METHOD	MEAN	STD DEV	N
ATOMIC ABSORPTION, DIRECT, AIR	22.3	31.1	15
ATOMIC ABSORPTION, FLAMELESS	3.5	2.6	4
PLASMA, INDUCTIVELY COUPLED	6.0	8.9	5
OTHER	16.7	11.5	3
***** OVER ALL *****	15.3	23.6	30

TABLE 10 --

STATISTICS BY METHOD FOR SAMPLE: T87

DETERMINATION: HG

METHOD
 ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, AUTOMATED
 ATOMIC ABSORPTION, FLAMELESS, COLD VAPOR, MANUAL
 ***** OVER ALL *****

MEAN	STD DEV	N
0.22	0.10	6
0.30	0.12	20
0.28	0.12	27

DETERMINATION: LI

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 EMISSION, FLAME
 PLASMA, INDUCTIVELY COUPLED
 ***** OVER ALL *****

MEAN	STD DEV	N
26.3	7.4	8
26.7	11.5	3
28.0	8.4	5
25.8	7.6	19

DETERMINATION: MN

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 ATOMIC ABSORPTION, FLAMELESS
 PLASMA, INDUCTIVELY COUPLED
 ***** OVER ALL *****

MEAN	STD DEV	N
22.0	40.8	10
0.8	0.5	4
1.8	4.0	6
10.3	27.5	24

DETERMINATION: MO

METHOD
 ATOMIC ABSORPTION, FLAMELESS
 ***** OVER ALL *****

MEAN	STD DEV	N
7.2	1.5	5
7.5	1.4	11

DETERMINATION: NI

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 ATOMIC ABSORPTION, FLAMELESS
 ***** OVER ALL *****

MEAN	STD DEV	N
13.3	8.1	9
3.7	2.8	9
8.9	8.3	24

DETERMINATION: PB

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 ATOMIC ABSORPTION, EXTRACTION (APUC/MIBK)
 ATOMIC ABSORPTION, FLAMELESS
 ***** OVER ALL *****

MEAN	STD DEV	N
3.6	3.0	5
3.8	2.8	4
4.0	4.5	15
4.3	3.9	28

TABLE 11--

STANDARD REFERENCE SAMPLE N10 REPORT FOR NH3-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	1.30	9.1	ION SELECTIVE ELECTRODE	1,2,3,4
004	1.08	9.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
006	0.01	***	IGNORED	1,2,3,4
007	1.24	4.1	ION SELECTIVE ELECTRODE	1,2,3,4
009	1.44	20.9	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
011	1.14	4.3	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
013	1.21	1.6	OTHER	
017	1.01	15.2	OTHER	
018	1.53	28.4	COLORIMETRIC, PHENATE, MANUAL	1
020	1.40	17.5	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
022	0.95	20.3	ION SELECTIVE ELECTRODE	1,2,3,4
023	1.51	26.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
025	1.16	2.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
026	1.08	9.3	ION SELECTIVE ELECTRODE	1,2,3,4
027	0.40	24.5	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
029	0.85	28.7	OTHER	
032	1.09	8.5	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
034	1.40	17.5	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
035	1.30	9.1	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
038	0.90	24.5	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
039	1.10	7.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
040	1.71	43.5	COLORIMETRIC, INDOPHENOL, AUTOMATED	1,2,3
044	1.44	20.9	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
046	2.25	88.9	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
047	1.21	1.6	ION SELECTIVE ELECTRODE	1,2,3,4
048	1.10	7.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
049	1.55	30.1	ION SELECTIVE ELECTRODE	1,2,3,4
050	1.14	4.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
051	1.20	0.7	ION SELECTIVE ELECTRODE	1,2,3,4
053	1.00	16.1	COLORIMETRIC, PHENATE, MANUAL	1
054	1.41	18.4	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
055	0.81	32.0	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
056	1.30	9.1	COLORIMETRIC, PHENATE, MANUAL	1,2,3
058	1.00	16.1	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,2,3,4
060	1.76	47.7	OTHER	1
063	125.00	392.3	REJECT	
067	1.58	32.6	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
068	1.10	7.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
070	1.45	21.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
071	3.22	170.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
073	0.92	22.8	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
076	1.04	12.7	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
077	0.85	28.7	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
080	1.00	16.1	COLORIMETRIC, PHENATE, AUTOMATED	
081	1.02	14.4	DISTILLATION-TITRIMETRIC	1,2,3
082	1.40	17.5	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
089	1.41	18.4	OTHER	
090	1.00	16.1	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
091	1.05	11.9	COLORIMETRIC, PHENATE, AUTOMATED	

TABLE 11--

STANDARD REFERENCE SAMPLE N10 REPORT FOR NH₃-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
095	1.00	16.1	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
096	1.14	4.3	ION SELECTIVE ELECTRODE	1,2,3,4
098	0.59	50.5	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
099	1.40	17.5	ION SELECTIVE ELECTRODE	1,2,3,4
100	1.60	34.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
101	1.08	9.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
107	1.10	7.7	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3

TOTAL RANGE 0.59 TO 125.00 MEAN: 1.191
STANDARD DEVIATION 0.249 95 % CONFIDENCE INTVL OF MEAN 1.191 ± 0R - 0.069

TABLE 11-- STANDARD REFERENCE SAMPLE N10 REPORT FOR NO2-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
001	< 0.010	***	IGNORED	
002	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
004	0.007	11.5	COLORIMETRIC, DIAZOTIZATION	1,3,4
006	< 0.010	***	IGNORED	1,3,4
007	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
008	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
009	0.000	100.0	COLORIMETRIC, DIAZOTIZATION	1,3,4
011	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
013	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
017	< 0.050	***	IGNORED	1,3,4
018	0.004	49.5	COLORIMETRIC, DIAZOTIZATION	1,3,4
022	0.020	152.7	COLORIMETRIC, DIAZOTIZATION	1,3,4
023	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
025	0.006	24.2	COLORIMETRIC, DIAZOTIZATION	1,3,4
026	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
027	< 0.010	***	IGNORED	1,3,4
029	< 0.020	***	IGNORED	2,6
030	< 0.030	279.1	IGNURED 10N CHROMATOGRAPHY	1,3,4
032	< 0.010	***	REJECT	1,3,4
034	0.002	74.7	COLORIMETRIC, DIAZOTIZATION	1,3,4
035	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
039	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
040	< 0.200	***	IGNORED	1,3,4
042	0.068	759.2	REJECT	2,6
046	0.016	102.2	10N CHROMATOGRAPHY	1,3,4
047	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
048	0.006	24.2	COLORIMETRIC, DIAZOTIZATION	1,3,4
049	0.005	36.8	COLORIMETRIC, DIAZOTIZATION	1,3,4
050	0.000	100.0	COLORIMETRIC, DIAZOTIZATION	1,3,4
051	0.020	152.7	COLORIMETRIC, DIAZOTIZATION	2,6
054	< 0.020	***	IGNORED	1,3,4
056	< 0.010	***	IGNORED	1,3,4
057	< 0.006	24.2	COLORIMETRIC, DIAZOTIZATION	1,3,4
058	< 0.010	***	IGNORED	1,3,4
067	< 0.010	***	IGNORED	1,3,4
068	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
070	0.000	100.0	COLORIMETRIC, DIAZOTIZATION	1,3,4
071	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
073	0.003	62.1	COLORIMETRIC, DIAZOTIZATION	1,3,4
077	< 0.010	***	IGNORED	1,3,4
081	0.010	26.4	COLORIMETRIC, DIAZOTIZATION	1,3,4
082	0.005	36.8	COLORIMETRIC, DIAZOTIZATION	1,3,4
088	0.005	36.8	COLORIMETRIC, DIAZOTIZATION	1,3,4
089	< 0.010	***	IGNORED	1,3,4
090	< 0.020	***	IGNORED	1,3,4
091	0.004	49.5	OTHER	1,3,4
095	< 0.050	***	IGNORED	1,3,4
096	< 0.010	***	IGNORED	1,3,4

TABLE 11--

STANDARD REFERENCE SAMPLE N10 REPORT FOR N02-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES
097	0.007	11.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
098	< 0.002	***	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
100	0.010	26.4		ION CHROMATOGRAPHY	2,6
101	0.006	24.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
107	0.010	26.4		COLORIMETRIC, DIAZOTIZATION	1,3,4
TOTAL RANGE		0.000	TO	0.068	MEAN: 0.008
STANDARD DEVIATION		0.005			95 X CONFIDENCE INTRVL OF MEAN 0.006 + OR - 0.002

TABLE 11--

STANDARD REFERENCE SAMPLE NO. REPORT FOR NO3-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES
001	8.33	236.1	REJECT	COLORIMETRIC, BRUCINE	1,2,3,4
002	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
004	2.43	1.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
006	13.40	440.7	REJECT	ION SPECIFIC ELECTRODE	
007	2.54	2.5		COLORIMETRIC, BRUCINE	1,2,3,4
008	2.49	0.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
009	2.44	1.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
011	2.75	11.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
013	4.79	93.3	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
014	2.73	10.2		OTHER	
017	2.65	6.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
018	2.55	2.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
022	1.73	30.2	REJECT	COLORIMETRIC, BRUCINE	1,2,3,4
023	2.45	1.1		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
025	2.45	1.1		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
026	2.43	1.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
027	2.54	2.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
029	2.60	4.9		ION CHROMATOGRAPHY	2,6
030	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
032	2.07	16.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
034	1.78	28.2	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
035	1.20	51.6	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
038	2.50	0.9		COLORIMETRIC, BRUCINE	1,2,3,4
039	2.60	4.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
040	2.52	1.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
042	2.45	1.1		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
044	1.46	41.1	REJECT	SPECTROPHOTOMETRIC	1,2,3,4
046	3.03	22.3	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
047	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
048	2.44	1.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
049	4.82	94.5	REJECT	COLORIMETRIC, BRUCINE	1,2,3,4
050	2.33	6.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
051	2.60	4.9		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
054	2.08	16.1		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
055	2.47	0.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
056	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
057	5.60	126.0	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
058	2.50	0.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
060	2.42	2.4		COLORIMETRIC, BRUCINE	1,2,3,4
063	2.70	8.9		COLORIMETRIC, BRUCINE	1,2,3,4
067	2.48	0.1		COLORIMETRIC, BRUCINE	1,2,3,4
068	2.40	3.2		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
070	2.78	12.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
071	1.10	55.6	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
073	2.40	3.2		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
076	2.45	1.1		OTHER	
077	2.71	9.4		COLORIMETRIC, BRUCINE	1,2,3,4
080	2.35	5.2		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
081	2.42	2.4		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3

TABLE 11-- STANDARD REFERENCE SAMPLE N10 REPORT FOR N03-N

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
082	2.40	3.2		COLORIMETRIC, BRUCINE	1,2,3,4
084	2.49	0.5		ION CHROMATOGRAPHY	2,6
088	2.50	0.9		COLORIMETRIC, BRUCINE	1,2,3,4
089	2.56	3.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
090	2.50	0.9		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
091	2.53	2.1		ION CHROMATOGRAPHY	2,6
095	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
096	2.66	7.3		COLORIMETRIC, BRUCINE	1,2,3,4
097	2.21	10.8		COLORIMETRIC, BRUCINE	1,2,3,4
098	2.60	4.9		COLORIMETRIC, BRUCINE	1,2,3,4
099	2.40	3.2		COLORIMETRIC, BRUCINE	1,2,3,4
100	2.54	2.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
101	2.36	4.8		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
107	2.40	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
TOTAL RANGE 1.10 TO 13.40 MEAN 2.478					
STANDARD DEVIATION 0.141 95 % CONFIDENCE INTVL OF MEAN 2.478 + OR - 0.039					

TABLE 11--

STANDARD REFERENCE SAMPLE N10 REPORT FOR ORG-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.06	95.5	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
004	2.06	53.5	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
007	1.96	46.0	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
009	1.10	18.1	COLORIMETRIC	
011	0.60	55.3	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
013	2.29	70.6	DIGESTION, DISTILLATION, TITRATION	2,3,4
017	0.55	59.0	COLORIMETRIC	
018	0.51	62.0	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
020	0.56	58.3	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
023	1.80	34.1	DIGESTION, DISTILLATION, TITRATION	2,3,4
027	1.40	4.3	DIGESTION, DISTILLATION, TITRATION	2,3,4
029	2.00	49.0	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
032	0.60	55.3	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
034	3.06	127.9	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
035	1.10	16.1	COLORIMETRIC	
039	0.65	51.6	DIGESTION, DISTILLATION, INDOPHENOL	4
040	1.70	26.6	COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	4
047	1.24	7.6	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
049	7.42	452.7	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	3,4
051	2.40	78.8	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	2,3,4
056	1.40	4.3	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
067	1.12	16.6	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
068	1.70	26.6	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
070	0.63	53.1	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
071	3.56	165.2	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
077	0.06	95.5	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
080	0.65	51.6	DIGESTION, DISTILLATION, TITRATION	2,3,4
082	0.00	100.0	COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	4
089	0.90	33.0	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
090	2.80	108.6	DIGESTION, DISTILLATION, TITRATION	2,3,4
091	1.60	19.2	COLORIMETRIC, DIGESTION, DISTILLATION, PHENATE	3
097	1.81	34.8	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
100	0.95	29.2		
101	1.48	10.2		

TOTAL RANGE 0.00 TO 7.42 MEAN: 1.342
 STANDARD DEVIATION 0.870 95 % CONFIDENCE INTERVAL OF MEAN 1.342 + OR - 0.308

TABLE 11-- STANDARD REFERENCE SAMPLE N10 REPORT FOR P, TOTAL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	1.60	11.8	OTHER	
004	1.60	11.8	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
007	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
008	1.23	14.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
009	1.46	2.0	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
011	1.38	3.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
013	1.26	12.0	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
014	0.70	51.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
017	1.52	6.2	OTHER	
018	1.56	10.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
020	1.50	4.8	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
022	1.36	3.6	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
023	1.45	1.3	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
026	1.20	16.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
027	1.30	9.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
029	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
032	1.50	4.8	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
034	1.41	1.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
035	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
038	1.43	0.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
039	1.10	23.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
040	1.44	0.6	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
042	1.51	5.5	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
046	1.43	0.1	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
047	1.46	2.0	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
048	1.46	2.0	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
049	11.60	710.2	OTHER	
050	1.06	26.0	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
051	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
053	1.85	29.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
054	1.57	9.7	PERSULFATE OXIDATION	
055	1.21	15.5	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
056	1.50	4.8	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
063	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
067	1.14	20.4	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
068	1.60	11.8	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
070	1.49	4.1	COLORIMETRIC, BLK DIG, H2S04, K&H 504, PHOSPHOMOLYBDATE	4
071	1.39	2.9	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
073	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
076	1.34	6.4	EMISSION, IC PLASMA	
077	1.16	19.0	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
080	2.91	103.3	REJECT	
081	1.59	11.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
082	1.59	11.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
084	1.39	2.9	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
088	1.40	2.2	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
089	1.49	4.1	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
090	1.50	4.8	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
091	1.45	1.3	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4

TABLE 11-- STANDARD REFERENCE SAMPLE N10 REPORT FOR P, TOTAL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES
095	1.80	25.7		COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
096	2.50	74.6	REJECT	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
097	1.58	10.4		COLORIMETRIC, BLK DIG, H2S04, K2HG 504, PHOSPHOMOLYBDATE	4
098	1.49	4.1		COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
099	1.44	0.6		OTHER	
100	1.40	2.2		COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
101	1.42	0.8		COLORIMETRIC, BLK DIG, H2S04, K2HG 504, PHOSPHOMOLYBDATE	4
107	2.40	67.6	REJECT	COLORIMETRIC, H2S04/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
TOTAL RANGE		0.70	TO	11.60	MEAN: 1.432
STANDARD DEVIATION		0.152	95 % CONFIDENCE	INTRVL OF MEAN	1.432 + OR - 0.042

TABLE 11--

STANDARD REFERENCE SAMPLE N10 REPORT FOR P04-P

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	1.11	10.9	REJECT	OTHER	
002	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
004	1.03	2.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
006	1.22	21.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
007	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
008	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
009	0.94	6.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
011	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
013	0.92	8.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
017	1.06	5.9		OTHER	
018	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
022	0.57	43.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
025	0.98	2.1	REJECT	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
026	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
027	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
029	0.96	4.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
032	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
034	0.99	1.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
035	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
038	1.02	1.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
039	0.96	4.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
040	0.81	19.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
042	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
044	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
046	0.98	2.1	REJECT	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
047	0.95	5.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
048	1.03	2.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
049	3.50	249.6		OTHER	
050	0.84	16.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
051	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
053	1.05	4.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
054	0.95	5.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
056	0.99	1.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
058	0.99	1.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
060	0.94	6.1		OTHER	
063	0.90	10.1	REJECT	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
067	0.97	3.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
068	0.10	90.0		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
070	0.99	1.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
071	0.93	7.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
073	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
076	0.99	1.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
077	1.93	92.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
080	0.93	7.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
081	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
082	0.95	5.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
084	1.01	0.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
088	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
089	0.92	8.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4

TABLE 11-- STANDARD REFERENCE SAMPLE N10 REPORT FOR P04-P

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
090	1.00	0.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3, 4
091	1.20	19.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1, 2, 3, 4
095	1.02	1.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3, 4
096	0.98	2.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1, 2, 3, 4
097	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1, 2, 3, 4
098	1.05	4.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1, 2, 3, 4
099	1.09	8.9		OTHER	
100	0.89	11.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3, 4
101	0.93	7.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3, 4
107	1.10	9.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3, 4
TOTAL RANGE		0.10	10	3.50	MEAN: 1.001
STANDARD DEVIATION		0.077			95 % CONFIDENCE INTVL OF MEAN 1.001 + OR - 0.021

TABLE 12
STATISTICS BY METHOD FOR SAMPLE: N10

DETERMINATION: NH3-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, DISTILLATION, Nesslerization	1.143	0.376	10
COLORIMETRIC, INDOPHENOL, AUTOMATED	1.200	0.336	5
COLORIMETRIC, PHENATE, AUTOMATED	1.224	0.192	16
COLORIMETRIC, PHENATE, MANUAL	1.313	0.276	3
ION SELECTIVE ELECTRODE	1.207	0.161	10
OTHER	1.017	0.146	4
***** OVER ALL *****	1.191	0.249	52

DETERMINATION: NO2-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, DIAZOTIZATION	0.006	0.004	31
***** OVER ALL *****	0.006	0.005	35

DETERMINATION: NO3-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, BRUCINE	2.504	0.137	14
COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	2.459	0.151	26
COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	2.455	0.097	4
ION CHROMATOGRAPHY	2.540	0.056	3
***** OVER ALL *****	2.478	0.141	52

DETERMINATION: ORG-N

METHOD	MEAN	STD DEV	N
COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	1.699	0.968	11
COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	1.260	0.401	3
COLORIMETRIC, DIGESTION, DISTILLATION, Nesslerization	1.410	1.242	4
DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	0.873	0.979	3
DIGESTION, DISTILLATION, TITRATION	1.152	0.852	5
COLORIMETRIC	0.753	0.306	3
***** OVER ALL *****	1.342	0.670	33

DETERMINATION: P, TOTAL

METHOD	MEAN	STD DEV	N
COLORIMETRIC, BLK DIG, H2SO4, KMG S04, PHOSPHOMOLYBDATE	1.455	0.119	8
COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1.419	0.163	39
OTHER	1.520	0.080	3
***** OVER ALL *****	1.432	0.152	52

DETERMINATION: PO4-P

METHOD	MEAN	STD DEV	N
COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	0.983	0.049	25
COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1.011	0.096	24
OTHER	1.047	0.074	4
***** OVER ALL *****	1.001	0.077	55

TABLE 13--
STANDARD REFERENCE SAMPLE N11 REPORT FOR NH3-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
004	0.11	31.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
006	0.07	56.3	ION SELECTIVE ELECTRODE	1,2,3,4
007	0.17	6.1	ION SELECTIVE ELECTRODE	1,2,3,4
009	0.13	18.9	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
011	0.15	6.4	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
013	0.25	56.0	OTHER	
017	0.09	43.8	OTHER	
018	0.29	81.0	COLORIMETRIC, PHENATE, MANUAL	1
020	0.13	18.9	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
022	0.12	25.1	ION SELECTIVE ELECTRODE	1,2,3,4
023	0.05	***	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
025	0.10	37.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3,4
026	0.22	37.3	ION SELECTIVE ELECTRODE	1,2,3,4
027	0.20	24.6	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
029	0.05	68.8	OTHER	
032	0.36	124.7	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
034	0.79	393.1	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
035	0.12	25.1	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
038	0.15	6.4	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
039	0.11	31.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
040	0.10	37.6	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
044	0.34	112.2	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
046	0.19	18.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
047	0.24	49.8	ION SELECTIVE ELECTRODE	1,2,3,4
048	0.19	18.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
049	0.11	31.3	ION SELECTIVE ELECTRODE	1,2,3,4
050	0.12	25.1	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
051	0.05	68.8	ION SELECTIVE ELECTRODE	1,2,3,4
053	0.10	37.6	ION SELECTIVE ELECTRODE	1,2,3,4
056	0.11	31.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
058	0.13	18.9	COLORIMETRIC, PHENATE, AUTOMATED	1
060	0.42	162.1	COLORIMETRIC, PHENATE, MANUAL	1,4
063	0.42	162.1	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
067	0.18	12.3	OTHER	
068	0.20	24.8	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
070	0.48	199.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
071	0.77	199.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
075	0.16	380.6	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3,4
076	0.11	0.1	ION SELECTIVE ELECTRODE	4
077	0.11	31.3	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
078	0.09	43.8	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
080	0.05	***	COLORIMETRIC, DISTILLATION, Nesslerization	1,4
081	0.15	6.4	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
082	0.14	12.6	OTHER	
089	0.27	68.5	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
090	0.13	18.9	OTHER	
091	0.27	68.5	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
095	0.11	31.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
096	0.12	25.1	ION SELECTIVE ELECTRODE	1,2,3,4
098	0.14	12.6	COLORIMETRIC, DISTILLATION, Nesslerization	1,4

TABLE 13--

STANDARD REFERENCE SAMPLE N11 REPORT FOR NH₃-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES
099	0.20	24.6		ION SELECTIVE ELECTRODE COLORIMETRIC, PHENATE, AUTOMATED COLORIMETRIC, PHENATE, AUTOMATED COLORIMETRIC, PHENATE, AUTOMATED	1,2,3,4
100	0.26	62.3			1,2,3
101	0.11	31.3			1,2,3
107	0.23	43.6			1,2,3
TOTAL RANGE		0.05	TO	141.00	
STANDARD DEVIATION		0.072		95 % CONFIDENCE INTVL OF MEAN	0.160 ± 0.021
				MEAN	0.160

TABLE 13-7 STANDARD REFERENCE SAMPLE N11 REPORT FOR NO2-N

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE	VALUE			
001	< 0.010	444	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
004	0.014	3.3		COLORIMETRIC, DIAZOTIZATION	1,3,4
006	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
007	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
008	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
009	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
011	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
013	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
017	< 0.050	444	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
018	0.013	4.1		COLORIMETRIC, DIAZOTIZATION	1,3,4
020	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
022	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
023	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
025	0.016	18.0		COLORIMETRIC, DIAZOTIZATION	1,3,4
026	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
027	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
029	< 0.020	444	IGNORED	ION CHROMATOGRAPHY	2,6
030	0.060	342.6	REJECT	COLORIMETRIC, DIAZOTIZATION	1,3,4
032	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
034	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
035	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
039	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
040	< 0.200	444	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
042	0.155	43.5	REJECT	ION CHROMATOGRAPHY	2,6
046	0.009	33.6		COLORIMETRIC, DIAZOTIZATION	1,3,4
047	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
048	0.015	10.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
049	0.013	4.1		COLORIMETRIC, DIAZOTIZATION	1,3,4
050	0.000	100.0		COLORIMETRIC, DIAZOTIZATION	1,3,4
051	0.010	26.2		ION CHROMATOGRAPHY	2,6
055	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
056	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
057	0.014	3.3		COLORIMETRIC, DIAZOTIZATION	1,3,4
058	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
067	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
068	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
070	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
071	0.020	47.5		COLORIMETRIC, DIAZOTIZATION	1,3,4
077	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
080	0.016	18.0		COLORIMETRIC, DIAZOTIZATION	1,3,4
081	0.014	3.3		COLORIMETRIC, DIAZOTIZATION	1,3,4
082	0.015	10.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
088	0.013	4.1		COLORIMETRIC, DIAZOTIZATION	1,3,4
089	< 0.010	444	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
090	0.015	10.7		COLORIMETRIC, DIAZOTIZATION	1,3,4
091	0.014	3.3		OTHER	1,3,4
095	< 0.050	444	IGNORED	COLORIMETRIC, DIAZOTIZATION	1,3,4
096	0.010	26.2		COLORIMETRIC, DIAZOTIZATION	1,3,4
097	0.015	10.7		COLORIMETRIC, DIAZOTIZATION	1,3,4

TABLE 13--

STANDARD REFERENCE SAMPLE N11										REPORT FOR N02-N									
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN		METHODS	REFERENCES														
098	0.010	26.2		COLORIMETRIC, DIAZOTIZATION ION CHROMATOGRAPHY COLORIMETRIC, DIAZOTIZATION COLORIMETRIC, DIAZOTIZATION	1,3,4 2,6 1,3,4 1,3,4														
100	0.010	26.2																	
101	0.014	3.3																	
107	0.020	47.5																	
TOTAL RANGE		0.000	TO	0.155	MEAN:	0.014													
STANDARD DEVIATION		0.005	95 % CONFIDENCE INTVL OF MEAN		0.014 + OR -	0.001													

TABLE 13-- STANDARD REFERENCE SAMPLE N11 REPORT FOR N03-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	REJECT	METHODS	REFERENCES
001	10.75	171.3	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
004	3.97	0.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
006	17.20	334.1	REJECT	ION SPECIFIC ELECTRODE	1,2,3,4
007	4.20	6.0		COLORIMETRIC, BRUCINE	1,2,3,4
008	3.94	0.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
009	3.97	0.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
011	4.35	9.8		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
013	7.78	96.4	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
014	0.10	97.5	REJECT	OTHER	
017	4.26	8.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
018	4.14	4.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
020	3.70	6.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
022	3.31	16.5		COLORIMETRIC, BRUCINE	1,2,3,4
023	4.09	3.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
025	3.95	0.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
026	4.03	1.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
027	3.98	0.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
029	4.00	1.0		ION CHROMATOGRAPHY	2,6
030	2.50	36.9	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
032	2.92	26.3	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
034	2.53	36.1	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
035	4.00	1.0		COLORIMETRIC, BRUCINE	1,2,3,4
036	4.00	1.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
039	4.10	3.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
040	4.04	2.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
042	3.74	5.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
044	3.54	10.7		SPECTROPHOTOMETRIC	
046	4.16	5.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
047	3.93	0.8		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
048	4.15	4.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
049	5.90	48.9	REJECT	COLORIMETRIC, BRUCINE	1,2,3,4
050	4.00	1.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
051	4.20	6.0		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
055	4.01	1.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
056	3.90	1.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
057	3.95	0.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
058	4.10	3.5		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
060	3.91	1.3		COLORIMETRIC, BRUCINE	1,2,3,4
063	3.80	4.1		COLORIMETRIC, BRUCINE	1,2,3,4
067	4.60	16.1		COLORIMETRIC, BRUCINE	1,2,3,4
068	3.50	11.7		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
070	3.95	0.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
071	1.83	53.8	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
075	55.00	288.2	REJECT	OTHER	1,2,3,4
076	3.29	17.0		OTHER	
077	4.60	16.1		COLORIMETRIC, BRUCINE	1,2,3,4
080	3.68	7.1		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
081	3.51	11.4		COLORIMETRIC, BRUCINE	1,2,3,4
082	3.30	16.7		COLORIMETRIC, BRUCINE	1,2,3,4

TABLE 13 -- STANDARD REFERENCE SAMPLE N11 REPORT FOR N03-N

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
084	15.20	283.6	REJECT	ION CHROMATOGRAPHY	2,6
088	4.10	3.5		COLORIMETRIC, BRUCINE	1,2,3,4
089	4.28	8.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
090	4.00	1.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
091	4.12	4.0		ION CHROMATOGRAPHY	2,6
095	4.20	6.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
096	3.70	6.6		COLORIMETRIC, BRUCINE	1,2,3,4
097	4.17	5.3		COLORIMETRIC, BRUCINE	1,2,3,4
098	3.87	2.3		COLORIMETRIC, BRUCINE	1,2,3,4
099	4.10	3.5		COLORIMETRIC, BRUCINE	1,2,3,4
100	3.85	2.8		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
101	3.78	4.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
107	4.00	1.0		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4

TOTAL RANGE 0.10 TO 55.00 MEAN: 3.962
 STANDARD DEVIATION 0.279 95 % CONFIDENCE INTVL OF MEAN 3.962 + OR - 0.079

TABLE 13--

STANDARD REFERENCE SAMPLE N11 REPORT FOR ORG-N

CODE	REPORTED VALUE	Pct. DEV. FROM MEAN	METHODS	REFERENCES
004	0.69	11.8	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
007	0.73	6.7	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
009	0.40	48.9	COLORIMETRIC	
011	0.48	38.6	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
013	0.76	2.8	OTHER	
017	0.28	64.2	DIGESTION, DISTILLATION, TITRATION	2,3,4
018	0.18	77.0	COLORIMETRIC	
020	0.41	47.6	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
023	0.40	48.9	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
027	1.70	117.3	DIGESTION, DISTILLATION, TITRATION	2,3,4
029	1.00	27.8	DIGESTION, DISTILLATION, TITRATION	2,3,4
032	0.63	19.5	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
034	1.20	53.4	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
035	1.00	27.8	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
039	0.54	31.0	COLORIMETRIC	
040	5.43	594.2	COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	4
047	0.63	19.5	COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	4
049	1.92	145.5	DIGESTION, DISTILLATION, ION SELECTIVE ELECTRODE	1,2,3
051	0.60	23.3	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
056	1.10	40.6	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
067	0.80	2.3	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	3,4
068	0.75	4.1	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
070	0.00	100.0	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
071	1.64	109.7	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
077	2.00	155.7	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
080	0.25	68.0	COLORIMETRIC, DIGESTION, DISTILLATION, NESSLERIZATION	2,3,4
082	0.66	15.6	DIGESTION, DISTILLATION, TITRATION	2,3,4
089	0.50	36.1	COLORIMETRIC, DIGESTION, DISTILLATION, INDOPHENOL	4
090	1.02	30.4	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4
091	1.50	91.8	OTHER	
097	0.35	55.3	DIGESTION, DISTILLATION, TITRATION	2,3,4
100	0.26	66.8	COLORIMETRIC, DIGESTION, DISTILLATION, PHENATE	3
101	0.65	16.9	COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	3,4

TOTAL RANGE 0.00 TO 5.43
STANDARD DEVIATION 0.510

MEAN: 0.782
95 % CONFIDENCE INTVL OF MEAN 0.782 + OR - 0.183

TABLE 13-- STANDARD REFERENCE SAMPLE N11 REPORT FOR P, TOTAL

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
004	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
007	0.54	5.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
008	0.67	30.6		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
009	0.45	12.3		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
011	0.46	10.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
013	0.36	29.8		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
014	0.46	10.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
017	0.60	17.0		OTHER	
018	0.54	5.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
020	0.47	8.4		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
022	0.44	14.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
023	0.47	8.4		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
026	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
027	0.63	22.6		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
029	0.55	7.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
032	0.60	17.0		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
034	0.49	4.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
035	0.44	14.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
036	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
039	0.46	6.4		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
040	0.46	10.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
042	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
046	0.48	6.4		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
047	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
049	6.40	147.7	REJECT	OTHER	
050	0.43	16.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
051	0.47	8.4		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
053	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
055	0.49	4.5		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
056	0.51	0.6		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
063	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
067	0.59	15.0		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
068	0.53	3.3		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
070	0.45	12.3		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4
071	0.44	14.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
075	0.57	11.1		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
076	0.57	11.1		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
077	0.25	51.3	REJECT	EMISSION, IC PLASMA	
080	1.64	219.7	REJECT	COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
081	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
082	0.59	15.0		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
084	0.50	2.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
088	0.56	9.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
089	0.56	9.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
090	0.56	9.2		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
091	0.53	3.3		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
095	0.49	4.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
096	0.49	4.5		COLORIMETRIC, H2S04/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
097	0.56	9.2		COLORIMETRIC, BLK DIG, H2S04, K4HG 304, PHOSPHOMOLYBDATE	4

TABLE 13--

STANDARD REFERENCE SAMPLE N11 REPORT FOR P, TOTAL				
CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
098	0.51	0.6	COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
099	0.56	9.2	OTHER	
100	0.47	8.4	COLORIMETRIC, H2SO4/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
101	0.48	6.4	COLORIMETRIC, BLK DIG, H2SO4, KSHG 504, PHOSPHOMOLYBDATE	4
107	0.66	28.7	COLORIMETRIC, H2SO4/PERSULF DIG, ASCORBIC ACID PHOSPHOMOLYBD	1,2,3,4
TOTAL RANGE	0.25	TO	MEAN: 0.513	
STANDARD DEVIATION	0.061	6.40	95 % CONFIDENCE INTRVL OF MEAN	0.513 + OR - 0.017

TABLE 13-- STANDARD REFERENCE SAMPLE N11 REPORT FOR P04-P

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
001	0.83	70.4	REJECT	OTHER	
004	0.50	2.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
006	0.44	9.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
007	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
008	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
009	0.45	7.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
011	0.45	7.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
013	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
017	0.60	23.2		OTHER	
018	0.49	0.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
022	0.40	17.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
025	0.54	10.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
026	0.50	2.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
027	0.52	6.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
029	0.49	0.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
032	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
034	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
035	0.43	11.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
038	0.51	4.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
039	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
040	0.46	5.5		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
042	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
044	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	3,4
046	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	1,2,3,4
047	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
048	0.53	8.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
049	1.70	249.1	REJECT	OTHER	
050	0.40	17.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
051	0.51	4.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
053	0.49	0.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
056	0.47	3.5		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
058	0.58	19.1		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
060	0.52	6.8		OTHER	
063	0.50	2.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
067	0.50	2.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
068	0.05	69.7	REJECT	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
070	0.14	71.3	REJECT	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
071	0.42	13.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
075	0.54	10.9		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
076	0.49	0.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
077	0.41	15.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
080	0.45	7.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
081	0.49	0.6		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
082	0.48	1.4		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
084	0.47	3.5		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
088	0.56	15.0		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
089	0.41	15.8		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
090	0.47	3.5		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
091	0.51	4.7		COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4

TABLE 13 -- STANDARD REFERENCE SAMPLE N11 REPORT FOR P04-P

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
095	0.46	5.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
096	0.48	1.4	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
097	0.58	19.1	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
098	0.51	4.7	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	1,2,3,4
099	0.56	15.0	OTHER	
100	0.45	7.6	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
101	0.47	3.5	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
107	0.52	6.8	COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	3,4
TOTAL RANGE 0.05 10 1.70 MEAN 0.467				
STANDARD DEVIATION 0.044 95 % CONFIDENCE INTVL OF MEAN 0.467 + OR - 0.012				

TABLE 14. --

STATISTICS BY METHOD FOR SAMPLE: N11

DETERMINATION: NH3-N			
METHOD			
COLORIMETRIC, DISTILLATION, Nesslerization	MEAN	STD DEV	N
COLORIMETRIC, INDOPHENOL, AUTOMATED	0.209	0.103	7
COLORIMETRIC, PHENATE, AUTOMATED	0.120	0.022	4
ION SELECTIVE ELECTRODE	0.164	0.062	17
OTHER	0.142	0.061	11
***** OVER ALL *****	0.132	0.075	5
	0.160	0.072	46
DETERMINATION: NO2-N			
METHOD			
COLORIMETRIC, DIAZOTIZATION	MEAN	STD DEV	N
***** OVER ALL *****	0.014	0.005	41
	0.014	0.005	45
DETERMINATION: NO3-N			
METHOD			
COLORIMETRIC, BRUCINE	MEAN	STD DEV	N
COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	3.965	0.386	14
COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	4.024	0.151	29
***** OVER ALL *****	3.737	0.401	3
	3.962	0.279	51
DETERMINATION: ORG-N			
METHOD			
COLORIMETRIC, BLOCK DIGESTION, SALICYLATE HYPOCHLORITE	MEAN	STD DEV	N
COLORIMETRIC, DIGESTION, DISTILLATION, Nesslerization	0.695	0.425	11
DIGESTION, DISTILLATION, TITRATION	1.146	0.529	5
COLORIMETRIC	0.798	0.579	5
***** OVER ALL *****	0.373	0.161	3
	0.782	0.510	32
DETERMINATION: P, TOTAL			
METHOD			
COLORIMETRIC, ALK DIG, H2SO4, K&HG SO4, PHOSPHOMOLYBDATE	MEAN	STD DEV	N
COLORIMETRIC, H2SO4/PERSULF DIG. ASCORBIC ACID PHOSPHOMOLYBD	0.489	0.038	8
***** OVER ALL *****	0.513	0.063	40
	0.513	0.061	51
DETERMINATION: PU4-P			
METHOD			
COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, AUTOMATED	MEAN	STD DEV	N
COLORIMETRIC, ASCORBIC ACID PHOSPHOMOLYBDATE, MANUAL	0.479	0.039	23
OTHER	0.487	0.042	26
***** OVER ALL *****	0.560	0.040	3
	0.487	0.044	53

TABLE 15. — STANDARD REFERENCE SAMPLE P5 REPORT FOR CA

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.26	10.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	0.27	6.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0.24	17.1	EMISSION, IC PLASMA	5
008	0.40	38.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
009	0.30	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
010	< 10.00	***	TITRATION, EDTA	1,3
011	0.30	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	0.00	100.0	TITRATION, EDTA	1,3
018	0.40	38.1	TITRATION, EDTA	1,3
019	0.35	20.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	0.40	38.1	TITRATION, EDTA	1,3
023	0.50	72.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	0.27	6.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	0.37	27.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
030	< 1.00	***	IGNORED	1,2,3,4
032	0.23	20.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	0.21	27.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
035	0.16	44.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	0.23	20.6	EMISSION, IC PLASMA	5
038	0.20	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	0.29	0.2	EMISSION, IC PLASMA	5
044	0.40	38.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
046	0.30	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	0.30	3.6	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	0.40	38.1	TITRATION, EDTA	1,3
051	0.17	41.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	0.24	17.1	EMISSION, IC PLASMA	5
055	0.35	20.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	0.33	14.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
060	3.00	936.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	< 1.00	***	REJECT	1,2,3,4
065	0.20	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	0.25	13.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	0.29	0.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	0.20	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	0.20	30.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	0.18	37.6	EMISSION, IC PLASMA	5
077	0.35	20.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
078	0.37	20.9	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	1.00	245.4	EMISSION, IC PLASMA	5
084	0.25	3.3	EMISSION, IC PLASMA	5
087	0.37	13.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	0.37	27.8	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	0.26	10.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
091	0.21	27.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
096	0.26	10.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	0.40	38.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	0.24	17.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	0.28	3.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
107	0.25	13.7	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	14.00	735.2	OTHER	1,2,3,4
107	0.40	38.1	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0.00 TO 14.00 MEAN: 0.290
 STANDARD DEVIATION 0.079 95 % CONFIDENCE INTVL OF MEAN 0.290 + OR - 0.024

TABLE 15.--

STANDARD REFERENCE SAMPLE P5 REPORT FOR CL

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
002	0.16	50.6		TITRATION, SILVER NITRATE	1,2,4
006	0.99	205.7		ION SELECTIVE ELECTRODE	2
007	0.00	100.0		TITRATION, SILVER NITRATE	1,2,4
008	0.00	100.0		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
009	0.10	69.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
011	0.50	54.4		TITRATION, MERCURIC NITRATE	1,2,3,4
017	1.50	363.1		TITRATION, SILVER NITRATE	1,2,4
020	0.70	116.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
022	0.75	131.6		TITRATION, MERCURIC NITRATE	1,2,3,4
023	1.00	***		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
027	1.00	***		TITRATION, SILVER NITRATE	1,2,4
029	0.40	23.5		TITRATION, MERCURIC NITRATE	1,2,3,4
032	0.28	13.5		TITRATION, SILVER NITRATE	1,2,4
034	2.19	576.2		TITRATION, MERCURIC NITRATE	1,2,3,4
035	0.00	100.0		TITRATION, MERCURIC NITRATE	1,2,3,4
036	0.10	69.1		ION CHROMATOGRAPHY	2,6
038	1.00	208.8		TITRATION, MERCURIC NITRATE	1,2,3,4
040	2.79	761.5		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
044	0.00	100.0		TITRATION, SILVER NITRATE	1,3,4
046	0.40	***		OTHER	1,2,4
048	0.53	63.6		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
051	0.17	47.5		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
052	0.13	59.9		ION CHROMATOGRAPHY	2,6
053	0.48	48.2		TITRATION, SILVER NITRATE	1,2,4
055	0.50	54.4		TITRATION, SILVER NITRATE	1,2,4
056	0.10	69.1		ION CHROMATOGRAPHY	2,6
059	0.01	***		TITRATION, SILVER NITRATE	1,2,4
064	0.10	69.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
065	0.10	69.1		ION CHROMATOGRAPHY	2,6
067	1.01	211.9		TITRATION, MERCURIC NITRATE	1,2,3,4
068	1.00	***		TITRATION, MERCURIC NITRATE	1,2,3,4
075	45.00	794.5		REJECT	1,2,4
076	0.46	42.0		ION SELECTIVE ELECTRODE	2
077	0.00	100.0		TITRATION, SILVER NITRATE	1,2,4
078	2.00	***		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
084	0.11	66.0		ION CHROMATOGRAPHY	2,6
087	0.70	116.1		TITRATION, MERCURIC NITRATE	1,2,3,4
089	4.00	135.1		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
090	0.11	66.0		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
091	0.06	81.5		ION CHROMATOGRAPHY	2,6
096	0.00	100.0		TITRATION, SILVER NITRATE	1,2,4
097	6.52	913.2		TITRATION, MERCURIC NITRATE	1,2,3,4
098	2.00	***		REJECT	1,2,4
099	1.00	***		TITRATION, SILVER NITRATE	1,2,4
102	0.20	***		IGNORED	1,3,4
105	0.10	***		COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	1,3,4
107	0.50	54.4		TITRATION, MERCURIC NITRATE	1,2,3,4

TOTAL RANGE 0.00 TO 45.00 MEAN: 0.324
 STANDARD DEVIATION 0.324 95 % CONFIDENCE INTERVAL OF MEAN 0.324 + OR - 0.119

TABLE 15.--

STANDARD REFERENCE SAMPLE P5 REPORT FOR K

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
002	0.04	24.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0.31	486.5	REJECT	PLASMA, INDUCTIVELY COUPLED	1,2,3,4
008	0.00	100.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
009	0.00	100.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
011	0.00	100.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	0.10	89.2		FLAME, EMISSION, PHOTOMETRIC	1,2
019	0.07	32.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	0.08	51.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
023	0.20	278.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	0.02	***	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	0.01	81.1		FLAME, EMISSION, PHOTOMETRIC	1,2
035	0.01	81.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
038	0.05	5.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	5.00	***	IGNORED	FLAME, EMISSION, PHOTOMETRIC	1,2
044	1.17	113.5	REJECT	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
046	0.06	13.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	0.01	81.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	0.20	278.4		FLAME, EMISSION, PHOTOMETRIC	1,2
051	0.04	24.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
053	0.04	24.3		FLAME, EMISSION, PHOTOMETRIC	1,2
055	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	0.02	62.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	1.00	***	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
065	0.00	100.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	0.11	108.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	0.02	62.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
077	0.08	51.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
078	0.50	***	IGNORED	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	1.10	981.1	REJECT	OTHER	
084	0.16	202.7		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
087	0.04	24.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2
089	5.00	***	IGNORED	FLAME, EMISSION, PHOTOMETRIC	1,2,3,4
090	0.07	32.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2
091	0.03	43.2		FLAME, EMISSION, PHOTOMETRIC	1,2
096	0.10	89.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	0.04	24.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	0.05	5.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	0.03	43.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	1.50	737.8	REJECT	OTHER	
107	0.04	24.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0.00 TO 1.50 MEAN: 0.053
 STANDARD DEVIATION 0.051 95 % CONFIDENCE INTERVAL OF MEAN 0.053 + OR - 0.017

STANDARD REFERENCE SAMPLE P5 REPORT FOR MG

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0.13	300.8	EMISSION, IC PLASMA	5
008	0.00	100.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
009	0.00	100.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
010	1.00	***	TITRATION, EDTA	2
011	0.00	100.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
018	0.50	***	TITRATION, EDTA	2
019	0.04	23.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	0.05	54.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
023	0.10	208.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	0.02	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
029	0.05	54.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
030	1.00	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	0.01	69.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	0.01	69.2	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
035	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	0.02	38.3	EMISSION, IC PLASMA	5
040	0.03	7.5	EMISSION, IC PLASMA	5
044	0.12	270.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
046	0.10	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	0.10	208.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	0.00	100.0	TITRATION, EDTA	2
051	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	0.01	***	EMISSION, IC PLASMA	5
055	0.03	7.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	0.03	7.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	1.00	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
065	0.00	100.0	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	0.01	69.2	EMISSION, IC PLASMA	5
077	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
078	0.10	208.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	0.02	38.3	EMISSION, IC PLASMA	5
084	0.16	393.3	EMISSION, IC PLASMA	5
087	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
089	0.01	***	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
090	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
091	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
096	0.04	23.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	0.02	38.3	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	2.00	66.7	OTHER	1,2,3,4
107	0.03	7.5	ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0.00 TO 2.00 MEAN: 0.032
 STANDARD DEVIATION 0.034 95 % CONFIDENCE INTVL OF MEAN 0.032 + OR - 0.011

TABLE 15.--

STANDARD REFERENCE SAMPLE P5 REPORT FOR F

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.01	63.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
006	0.09	228.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
007	0.02	27.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
008	0.00	100.0	ION SELECTIVE ELECTRODE, AUTOMATED	4
009	0.00	100.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
010	0.10	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
011	0.04	46.0	COLORIMETRIC, ZIRCONIUM ERIOCHROME	4
017	0.10	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
021	0.02	27.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
022	0.07	155.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
027	0.04	46.0	ION SELECTIVE ELECTRODE, AUTOMATED	4
029	0.07	155.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
030	0.20	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
035	0.04	46.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
036	0.01	***	ION CHROMATOGRAPHY	2,6
038	0.02	27.0	COLORIMETRIC, SPADNS	1,2,3
040	0.05	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
044	0.10	100.0	ION SELECTIVE ELECTRODE, AUTOMATED	1,2,3,4
046	0.10	***	ION SELECTIVE ELECTRODE, MANUAL	4
048	0.02	27.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
049	0.05	82.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
051	0.01	***	ION SELECTIVE ELECTRODE, AUTOMATED	4
052	0.01	***	ION CHROMATOGRAPHY	2,6
053	0.05	82.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
059	0.10	***	ION SELECTIVE ELECTRODE, AUTOMATED	4
060	0.02	27.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
064	0.10	***	ION SELECTIVE ELECTRODE, AUTOMATED	4
065	0.00	100.0	ION CHROMATOGRAPHY	2,6
067	0.10	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
075	0.13	374.6	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
077	0.00	100.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
084	0.01	63.5	ION CHROMATOGRAPHY	2,6
089	0.02	27.0	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
090	0.06	***	ION SELECTIVE ELECTRODE, AUTOMATED	4
091	0.01	63.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
096	0.03	9.5	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
098	0.02	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3
099	0.02	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4
105	0.10	***	ION SELECTIVE ELECTRODE, MANUAL	1,2,3,4

TOTAL RANGE 0.00 10 0.13 MEAN: 0.027
 STANDARD DEVIATION 0.025 95 % CONFIDENCE INTVL OF MEAN 0.027 + OR - 0.011

TABLE 15.1--

STANDARD REFERENCE SAMPLE P5 REPORT FOR NA

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VAL.	UE			
002	0.12	17.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
006	0.14	3.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
007	0.14	3.5		PLASMA, INDUCTIVELY COUPLED	5
008	0.20	37.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
009	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
010	5.00	***		FLAME EMISSION, PHOTOMETRIC	1,2
011	0.00	100.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
017	0.20	37.8		FLAME EMISSION, PHOTOMETRIC	1,2
019	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
022	0.17	17.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
023	1.00	589.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
027	0.14	3.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
030	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
032	0.12	17.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
034	0.28	92.9		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
035	0.17	17.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
036	0.14	3.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
038	0.12	17.3		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
040	5.00	***		FLAME EMISSION, PHOTOMETRIC	1,2
044	0.23	58.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
046	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
048	0.01	93.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
049	0.20	37.8		FLAME EMISSION, PHOTOMETRIC	1,2
051	0.13	10.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
052	0.20	***		PLASMA, INDUCTIVELY COUPLED	5
053	0.25	72.3		FLAME EMISSION, PHOTOMETRIC	1,2
055	0.11	24.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
056	0.11	24.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
060	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
064	1.00	***		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
065	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
067	0.21	44.7		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
068	0.16	10.5		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
073	0.15	3.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
075	0.95	554.6		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
076	0.05	65.5		PLASMA, INDUCTIVELY COUPLED	5
077	0.26	79.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
078	1.00	***		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
079	0.14	3.5		PLASMA, INDUCTIVELY COUPLED	5
084	0.11	24.2		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
087	0.18	24.0		ATOMIC ABSORPTION, DIRECT, AIR	1,2
089	5.00	***		FLAME EMISSION, PHOTOMETRIC	1,2,3,4
090	0.15	10.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2
091	0.15	3.4		FLAME EMISSION, PHOTOMETRIC	1,2
096	0.20	37.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
098	0.20	37.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
099	0.20	37.8		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
102	0.13	10.4		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4
105	4.80	207.6		OTHER	1,2,3,4
107	0.10	31.1		ATOMIC ABSORPTION, DIRECT, AIR	1,2,3,4

TOTAL RANGE 0.00 10 4.60
STANDARD DEVIATION 0.060MEAN: 0.145
95 % CONFIDENCE INTERVAL OF MEAN 0.145 ± 0.019

STANDARD REFERENCE SAMPLE P5 REPORT FOR NH3-N

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.00	100.0	ION SELECTIVE ELECTRODE	1,2,3,4
006	0.01	54.1	ION SELECTIVE ELECTRODE	1,2,3,4
007	0.00	100.0	ION SELECTIVE ELECTRODE	1,2,3,4
009	0.00	100.0	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
010	0.02	8.2	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
011	0.01	54.1	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
017	0.05	129.5	OTHER	
018	0.00	100.0	COLORIMETRIC, PHENATE, MANUAL	1
019	0.02	8.2	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
020	0.02	8.2	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
022	0.00	100.0	ION SELECTIVE ELECTRODE	1,2,3,4
023	0.05	***	IGNORED	1,2,3
027	0.14	542.6	COLORIMETRIC, PHENATE, AUTOMATED	1,4
034	0.06	175.4	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
035	0.02	8.2	COLORIMETRIC, INDOPHENOL, AUTOMATED	4
038	0.02	***	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
040	0.01	54.1	COLORIMETRIC, INDOPHENOL, AUTOMATED	1,4
044	0.02	8.2	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
046	0.01	***	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
048	0.01	54.1	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
049	0.03	37.7	ION SELECTIVE ELECTRODE	1,2,3,4
050	0.00	100.0	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
051	0.01	***	IGNORED	4
053	0.03	37.7	ION SELECTIVE ELECTRODE	1,2,3,4
060	0.08	267.2	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
064	0.02	***	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
067	0.07	221.3	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
068	0.07	221.3	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
075	0.02	8.2	ION SELECTIVE ELECTRODE	1,2,3,4
077	0.03	37.7	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
089	0.05	***	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
090	0.00	***	OTHER	
091	0.00	100.0	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3
096	0.10	***	ION SELECTIVE ELECTRODE	1,2,3,4
097	0.01	54.1	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
098	0.10	***	COLORIMETRIC, DISTILLATION, NESSLERIZATION	1,4
099	0.10	***	IGNORED	1,2,3,4
102	0.01	54.1	ION SELECTIVE ELECTRODE	1
105	0.10	***	COLORIMETRIC, PHENATE, MANUAL	1,2,3
107	0.01	54.1	COLORIMETRIC, PHENATE, AUTOMATED	1,2,3

TOTAL RANGE 0.00 TO 0.14 MEAN 0.022
 STANDARD DEVIATION 0.023 95 % CONFIDENCE INTVL OF MEAN 0.022 + OR - 0.009

TABLE 15.7--

STANDARD REFERENCE SAMPLE P5 REPORT FOR NO3-N

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE				
002	0.08	4.3		COLORIMETRIC, BRUCINE	1,2,3,4
006	0.05	40.2		ION SPECIFIC ELECTRODE	
007	0.09	7.7		COLORIMETRIC, CADMIUM	1,2,3,4
008	0.06	28.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
009	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
010	0.02	76.1	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
011	0.10	19.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
017	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
018	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
019	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
020	0.06	28.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
021	0.13	55.6		COLORIMETRIC, BRUCINE	1,2,3,4
022	0.06	28.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
023	0.12	43.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
027	0.06	28.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
030	0.24	187.2	REJECT	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
032	0.09	7.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
034	0.09	7.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
035	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
036	0.08	4.3		ION CHROMATOGRAPHY	2,6
038	0.09	7.7		COLORIMETRIC, BRUCINE	1,2,3,4
040	0.09	7.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
044	0.07	16.2		SPECTROPHOTOMETRIC	
046	0.10	19.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
048	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
049	0.53	534.2	REJECT	COLORIMETRIC, BRUCINE	1,2,3,4
050	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
051	0.05	40.2		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
052	0.08	4.3		ION CHROMATOGRAPHY	2,6
055	0.10	19.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
056	0.08	4.3		ION CHROMATOGRAPHY	2,6
059	0.04	4.3	IGNORED	COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
060	0.08	4.3		COLORIMETRIC, BRUCINE	1,2,3,4
067	0.09	7.7		COLORIMETRIC, BRUCINE	1,2,3,4
068	0.10	19.7		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
073	0.07	16.2		COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION	3
075	0.10	19.7		ION SPECIFIC ELECTRODE	
077	0.08	4.3		COLORIMETRIC, BRUCINE	1,2,3,4
084	0.07	16.2		ION CHROMATOGRAPHY	2,6
089	0.12	43.6		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
090	0.07	16.2		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
091	0.10	19.7		ION CHROMATOGRAPHY	2,6
098	0.08	4.3		COLORIMETRIC, BRUCINE	1,2,3,4
099	0.10	4.3	IGNORED	COLORIMETRIC, BRUCINE	1,2,3,4
102	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
105	0.08	4.3		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4
107	0.10	19.7		COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION	1,2,3,4

TOTAL RANGE 0.02 TO 0.53 MEAN: 0.084
 STANDARD DEVIATION 0.017 95 % CONFIDENCE INTVL OF MEAN 0.084 + OR - 0.005

TABLE 15. -- STANDARD REFERENCE SAMPLE P5 REPORT FOR PH

CODE	REPORTED		PCT. DEV. FROM MEAN	METHODS	REFERENCES
	VALUE	VALUE			
002	5.91		1.4	ELECTROMETRIC	1,2,3,4
006	7.69		31.9	ELECTROMETRIC	1,2,3,4
007	6.21		6.5	ELECTROMETRIC	1,2,3,4
008	5.50		5.6	ELECTROMETRIC	1,2,3,4
009	5.10		12.5	ELECTROMETRIC	1,2,3,4
010	6.00		2.9	ELECTROMETRIC	1,2,3,4
011	6.20		6.4	ELECTROMETRIC	1,2,3,4
017	6.00		2.9	ELECTROMETRIC	1,2,3,4
018	5.63		3.4	ELECTROMETRIC	1,2,3,4
019	5.60		3.9	ELECTROMETRIC	1,2,3,4
020	6.40		9.8	ELECTROMETRIC	1,2,3,4
021	5.06		13.2	ELECTROMETRIC	1,2,3,4
022	5.97		2.4	ELECTROMETRIC	1,2,3,4
023	5.60		3.9	ELECTROMETRIC	1,2,3,4
027	5.77		1.0	ELECTROMETRIC	1,2,3,4
029	6.00		2.9	ELECTROMETRIC	1,2,3,4
030	6.60		13.2	ELECTROMETRIC	1,2,3,4
032	4.23		27.4	ELECTROMETRIC	1,2,3,4
034	5.76		1.2	ELECTROMETRIC	1,2,3,4
035	6.00		2.9	ELECTROMETRIC	1,2,3,4
036	5.82		0.1	ELECTROMETRIC	1,2,3,4
038	5.30		9.1	ELECTROMETRIC	1,2,3,4
040	6.05		3.8	ELECTROMETRIC	1,2,3,4
044	6.23		6.9	ELECTROMETRIC	1,2,3,4
046	5.75		1.3	ELECTROMETRIC	1,2,3,4
048	8.09		38.8	ELECTROMETRIC	1,2,3,4
049	6.42		10.1	ELECTROMETRIC	1,2,3,4
050	5.95		2.1	ELECTROMETRIC	1,2,3,4
051	6.10		4.7	ELECTROMETRIC	1,2,3,4
053	6.10		4.7	ELECTROMETRIC	1,2,3,4
055	5.30		9.1	ELECTROMETRIC	1,2,3,4
056	5.45		6.5	ELECTROMETRIC	1,2,3,4
060	6.38		9.5	ELECTROMETRIC	1,2,3,4
065	6.00		2.9	ELECTROMETRIC	1,2,3,4
067	5.30		9.1	ELECTROMETRIC	1,2,3,4
068	6.47		11.0	ELECTROMETRIC	1,2,3,4
073	5.37		7.9	ELECTROMETRIC	1,2,3,4
075	2.10		64.0	ELECTROMETRIC	1,2,3,4
076	7.10		21.8	ELECTROMETRIC	1,2,3,4
077	4.85		16.8	ELECTROMETRIC	1,2,3,4
078	5.30		9.1	ELECTROMETRIC	1,2,3,4
084	5.77		1.0	ELECTROMETRIC	1,2,3,4
087	6.90		18.4	ELECTROMETRIC	1,2,3,4
089	5.20		10.8	ELECTROMETRIC	1,2,3,4
090	6.50		11.5	ELECTROMETRIC	1,2,3,4
091	6.47		11.0	ELECTROMETRIC	1,2,3,4
096	4.49		23.0	ELECTROMETRIC	1,2,3,4
098	5.20		10.8	ELECTROMETRIC	1,2,3,4
099	5.25		9.9	ELECTROMETRIC	1,2,3,4
102	5.71		2.0	ELECTROMETRIC	1,2,3,4
105	5.77		1.0	ELECTROMETRIC	1,2,3,4
107	5.70		2.2	ELECTROMETRIC	1,2,3,4

REJECT

REJECT

TOTAL RANGE 2.10
STANDARD DEVIATION 0.627

10

8.09

MEAN: 5.829
95 % CONFIDENCE INTERVAL OF MEAN

5.829 + OR -

0.178

TABLE 15. --

STANDARD REFERENCE SAMPLE P5 REPORT FOR 504

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	0.39	29.8	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
006	< 0.10	***	GRAVIMETRIC, BARIUM SULFATE	1,2,3
007	0.00	100.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
008	0.00	100.0	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
009	0.70	25.9	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
010	< 5.00	***	GRAVIMETRIC, BARIUM SULFATE	1,2,3
011	0.80	43.9	THORIN TITRATION	2,4
017	0.00	100.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
022	3.11	459.4	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
023	< 1.00	***	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
027	1.00	79.9	GRAVIMETRIC, BARIUM SULFATE	1,2,3
030	11.40	950.6	GRAVIMETRIC, BARIUM SULFATE	1,2,3
032	< 0.05	***	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
034	0.10	62.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
035	0.00	100.0	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
036	0.50	10.1	ION CHROMATOGRAPHY	2,6
038	1.00	79.9	TURBIDIMETRIC	
040	0.76	36.7	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
044	0.96	72.7	THORIN TITRATION	2,4
048	< 2.00	***	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
049	5.18	831.8	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
050	13.00	238.4	REJECT	1,2,3
051	0.36	35.2	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
052	0.41	26.2	ION CHROMATOGRAPHY	2,6
056	0.36	35.2	ION CHROMATOGRAPHY	2,6
059	0.75	34.9	OTHER	
064	< 1.00	***	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
065	0.10	82.0	ION CHROMATOGRAPHY	2,6
067	< 1.00	***	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
068	1.25	124.9	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
075	1.03	85.3	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
076	0.40	28.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
077	9.90	680.8	REJECT	1,2,3
078	1.50	169.8	GRAVIMETRIC, BARIUM SULFATE	1,2,3
084	0.37	33.4	TURBIDIMETRIC, BARIUM SULFATE	2,6
089	< 1.00	***	ION CHROMATOGRAPHY	2,6
090	0.40	28.0	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
091	1.07	92.5	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
096	0.00	100.0	ION CHROMATOGRAPHY	2,6
098	< 2.00	***	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
099	< 1.00	***	GRAVIMETRIC, BARIUM SULFATE	1,2,3
102	< 0.50	***	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4
105	< 1.00	***	TURBIDIMETRIC, BARIUM SULFATE	1,2,3
107	0.80	43.9	COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED	1,3,4

TOTAL RANGE 0.00 TO 13.00 MEAN: 0.556
 STANDARD DEVIATION 0.430 95 % CONFIDENCE INTVL OF MEAN 0.556 + OR - 0.170

STANDARD REFERENCE SAMPLE P5 REPORT FOR SP. COND.

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN	METHODS	REFERENCES
002	3.00	29.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
007	3.60	15.8	DIRECT READING INSTRUMENT	4
008	4.00	6.5	DIRECT READING INSTRUMENT	4
009	4.00	6.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
010	3.30	22.9	DIRECT READING INSTRUMENT	4
011	5.00	16.9	OTHER	
017	7.00	63.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
018	4.20	1.8	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
019	4.90	14.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
020	6.00	40.3	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
021	4.00	6.5		
022	4.00	6.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
023	3.50	18.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
027	3.37	21.2	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
029	3.27	23.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
030	4.00	6.5	DIRECT READING INSTRUMENT	4
032	3.40	20.5	DIRECT READING INSTRUMENT	4
034	8.38	95.9	DIRECT READING INSTRUMENT	4
035	5.00	16.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
036	2.70	36.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
038	3.70	13.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
040	3.00	29.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
044	4.00	6.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
046	4.50	5.2	DIRECT READING INSTRUMENT	4
048	4.00	6.5		
049	48.00	22.1	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
050	5.60	30.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
051	4.00	6.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
053	3.00	29.9	DIRECT READING INSTRUMENT	4
055	5.00	16.9	DIRECT READING INSTRUMENT	4
056	3.70	13.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
060	29.00	578.0	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
064	1.00	***	REJECT	
065	6.40	49.6	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
067	4.30	0.5	DIRECT READING INSTRUMENT	4
068	1.00	***	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
075	8.00	87.0	DIRECT READING INSTRUMENT	4
076	4.10	4.2	OTHER	
077	0.00	100.0	DIRECT READING INSTRUMENT	4
078	3.70	13.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
084	4.30	0.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
087	5.00	16.9	DIRECT READING INSTRUMENT	4
089	23.00	437.7	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
090	4.00	6.5	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
091	3.00	29.9	DIRECT READING INSTRUMENT	4
096	4.49	5.0	DIRECT READING INSTRUMENT	4
098	5.00	16.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
099	5.60	30.9	WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER	1,2,3,4
102	3.48	18.6	DIRECT READING INSTRUMENT	4
105	4.00	6.5	OTHER	

TOTAL RANGE 0.00
STANDARD DEVIATION 1.402

TO 48.00

MEAN: 4.278
95 % CONFIDENCE INTVL OF MEAN

4.278 + OR - 0.421

TABLE 16--
STATISTICS BY METHOD FOR SAMPLE: PS

DETERMINATION: CA			
METHOD			
ATOMIC ABSORPTION, DIRECT, AIR	MEAN	STD DEV	N
EMISSION, IC PLASMA	0.269	0.079	34
TITRATION, EDTA	0.244	0.036	7
***** OVER ALL *****	0.400	0.000	3
	0.290	0.079	44
DETERMINATION: CL			
METHOD			
COLORIMETRIC, FERRIC THIOCYANATE, AUTOMATED	MEAN	STD DEV	N
ION CHROMATOGRAPHY	0.276	0.260	8
TITRATION, MERCURIC NITRATE	0.100	0.023	6
TITRATION, SILVER NITRATE	0.623	0.358	7
***** OVER ALL *****	0.177	0.218	8
	0.324	0.324	31
DETERMINATION: F			
METHOD			
ION SELECTIVE ELECTRODE, MANUAL	MEAN	STD DEV	N
***** OVER ALL *****	0.029	0.026	16
	0.027	0.025	23
DETERMINATION: K			
METHOD			
ATOMIC ABSORPTION, DIRECT, AIR	MEAN	STD DEV	N
FLAME, EMISSION, PHOTOMETRIC	0.045	0.042	29
***** OVER ALL *****	0.076	0.077	5
	0.053	0.051	35
DETERMINATION: MG			
METHOD			
ATOMIC ABSORPTION, DIRECT, AIR	MEAN	STD DEV	N
EMISSION, IC PLASMA	0.032	0.031	31
***** OVER ALL *****	0.042	0.050	5
	0.032	0.034	37

STATISTICS BY METHOD FOR SAMPLE: P5

DETERMINATION: NA

METHOD
 ATOMIC ABSORPTION, DIRECT, AIR
 PLASMA, INDUCTIVELY COUPLED
 FLAME EMISSION, PHOTOMETRIC
 ***** OVER ALL *****

MEAN	STD DEV	N
0.143	0.060	33
0.110	0.042	4
0.200	0.041	4
0.145	0.060	41

DETERMINATION: NH3-N

METHOD
 COLORIMETRIC, DISTILLATION, NESSLERIZATION
 COLORIMETRIC, INDOPHENOL, AUTOMATED
 COLORIMETRIC, PHENATE, AUTOMATED
 ION SELECTIVE ELECTRODE
 ***** OVER ALL *****

MEAN	STD DEV	N
0.045	0.029	6
0.013	0.006	3
0.017	0.022	9
0.013	0.014	7
0.022	0.023	26

DETERMINATION: NO3-N

METHOD
 COLORIMETRIC, BRUCINE
 COLORIMETRIC, CADMIUM REDUCTION, DIAZOTIZATION
 COLORIMETRIC, HYDRAZINE REDUCTION, DIAZOTIZATION
 ION CHROMATOGRAPHY
 ***** OVER ALL *****

MEAN	STD DEV	N
0.061	0.010	8
0.030	0.083	22
0.073	0.025	3
0.062	0.011	5
0.064	0.017	42

DETERMINATION: PH

METHOD
 ELECTROMETRIC
 ***** OVER ALL *****

MEAN	STD DEV	N
5.844	0.623	49
5.829	0.627	50

DETERMINATION: SO4

METHOD
 COLORIMETRIC, METHYL THYMOL BLUE, AUTOMATED
 ION CHROMATOGRAPHY
 TURBIDIMETRIC, BARIUM SULFATE
 ***** OVER ALL *****

MEAN	STD DEV	N
0.452	0.653	5
0.468	0.324	6
0.494	0.530	11
0.556	0.430	27

DETERMINATION: SP. COND.

METHOD
 DIRECT READING INSTRUMENT
 WHEATSTONE BRIDGE-TYPE CONDUCTIVITY METER
 OTHER
 ***** OVER ALL *****

MEAN	STD DEV	N
4.070	1.620	15
4.398	1.240	26
4.367	0.551	3
4.276	1.402	45

TABLE 17--

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 12HENZANTH

CODE	REPORTED VALUE
040	78.5
042	65.0
068	59.5
089	10.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 246CLPHNOL

CODE	REPORTED VALUE
027	< 10.0
035	0.3
039	9.8
068	< 5.3
089	< 25.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 24CLPHNOL

CODE	REPORTED VALUE
027	36.0
035	0.2
039	81.4
042	31.0
068	85.0
089	47.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 26N11TOLUN

CODE	REPORTED VALUE
042	0.2
068	118.4
089	< 10.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 2N11PHENOL

CODE	REPORTED VALUE
027	< 10.0
039	1.6
042	5.0
068	< 9.8
089	< 25.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR 4H1DIPHETH

CODE	REPORTED VALUE
042	10.0
068	21.1
089	< 25.0

TABLE 17 --

STANDARD REFERENCE SAMPLE POL1 REPORT FOR ANIPHENOL

CODE	REPORTED VALUE
027	< 10.0
039	36.7
068	16.9
089	< 10.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR ACENPHENOL

CODE	REPORTED VALUE	PCT. DEV. FROM MEAN
040	33.4	
042	34.0	
068	18.8	
089	< 25.0	

STANDARD REFERENCE SAMPLE POL1 REPORT FOR BISCLEREIN

CODE	REPORTED VALUE
042	58.0
068	46.9
089	15.0

TABLE 17.1

STANDARD REFERENCE SAMPLE POL1 REPORT FOR FLUORANTH

CODE	REPORTED VALUE
040	63.5
042	43.0
068	38.2
089	14.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR FLUORENE

CODE	REPORTED VALUE
040	28.0
042	29.0
068	36.8
089	19.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR HEXCLIRENZ

CODE	REPORTED VALUE
042	25.0
068	16.8
089	10.0

TABLE 17 --

STANDARD REFERENCE SAMPLE POL1 REPORT FOR NAPHTHALEN

CODE	REPORTED VALUE
040	46.3
042	0.5
068	0.4
089	< 10.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR NITROPHNAM

CODE	REPORTED VALUE
068	103.9
089	16.0

STANDARD REFERENCE SAMPLE POL1 REPORT FOR PYRENE

CODE	REPORTED VALUE
040	76.7
042	37.0
068	40.2
089	14.0

Table 18.--Summary of Analytical Results for Priority Pollutants in Standard Reference Water Sample POL-1
(Concentrations in micrograms per liter)

Compound	Concentration Added	Mean Found	Concentration Found - Range	Reported Analyses	"Recovery" Fraction Mean Found/Added
Acenaphthylene	50.1	35.4	18.8 - 54.0	4	0.71
Benz [a] anthracene	69.7	48.3	10.0 - 78.5	4	.69
Bis (2 chloroethyl) ether	67.0	40.0	15.0 - 58.0	3	.60
4-Bromodiphenyl ether	55.9	15.6	10.0 - 21.1	3	.28
2,4-Dichlorophenol	63.8	46.8	0.2 - 85.0	6	.73
2,6-Dinitrotoluene	55.8	59.8	0.2 - 118.4	3	1.07
Fluoranthene	55.0	39.7	14.0 - 63.5	4	.72
Fluorene	56.8	28.2	19.0 - 36.8	4	.50
Hexachlorobenzene	52.9	21.9	16.8 - 25.0	3	.41
Napthalene	57.5	23.4	0.5 - 46.3	4	.41
2-Nitrophenol	57.8	3.3	1.6 - 5.0	5	.06
4-Nitrophenol	71.6	26.8	16.9 - 36.7	4	.37
n-Nitrosodiphenylamine	57.9	60.0	16.0 - 103.9	2	1.04
Pyrene	63.7	42.0	14.0 - 76.7	4	.66
2,4,6-trichlorophenol	57.1	5.0	0.3 - 9.8	5	.09