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REPORT OF

ANALYTICAL EVALUATION PROGRAM

STANDARD REFERENCE WATER SAMPLES NOS. 72, 73, and NUTRIENT NO. 3

June 1980

PARTICIPATING LABORATORIES

U.S. Geological Survey

CALIFORNIA, Menlo Park: Barnes
CALIFORNIA, Menlo Park: Kennedy
COLORADO, Denver: Taylor 001
COLORADO, Denver: McAvoy 050
COLORADO, Denver: Miller 075
FLORIDA, Ocala: Kirkland
GEORGIA, Doraville: Beiser 038
GEORGIA, Doraville: Erdmann 039

Other

ALABAMA, Montgomery: Alabama Environmental Health
ALABAMA, University: Geological Survey of Alabama, Lloyd
ALABAMA, University: Geological Survey of Alabama, Malatino
ARKANSAS, Little Rock: Arkansas Department of Pollution Control & Ecology
CALIFORNIA, Bryte: California Department of Water Resources
CALIFORNIA, Oakland: East Bay Municipal Utility District
CALIFORNIA, Los Gatos: Santa Clara Valley Water District Laboratory
CALIFORNIA, Los Angeles: Water Quality Laboratory
CALIFORNIA, Davis: University of California
CALIFORNIA, Sacramento: Water & Power Resource Service
CALIFORNIA, San Diego: Western Naval Facilities Engineering Command
CALIFORNIA, La Mesa: San Diego Water Laboratory
CALIFORNIA, La Verne: Metropolitan Water Dist. of So. California
COLORADO, Denver: Denver Water Department
FLORIDA, Tallahassee: City Water Quality Laboratory
FLORIDA, Tampa: Hillsborough County Env. Prot. Commission
FLORIDA, West Palm Beach: So. Fla. Water Management District
FLORIDA, Orlando: Orlando Utilities Commission
GEORGIA, Atlanta: Natural Resources Env. Prot. Division
GEORGIA, Atlanta: Department of Natural Resources
GEORGIA, Athens: Soil Testing & Plant Tissue Analysis Lab
ILLINOIS, Marion: IL-EPA, Laboratory Services
ILLINOIS, Champaign: IL-EPA, Division of Labs
ILLINOIS, Chicago: IL-EPA, Division of Labs
ILLINOIS, Champaign: Illinois State Water Survey

Other--continued

IOWA, Des Moines: University Hygienic Laboratory
KANSAS, Lawrence: Kansas Geological Survey
KANSAS, Forbes: Department Health & Environment
KANSAS, Kansas City: EPA, Region 7 Laboratory
MAINE, Augusta: Maine Department of Env. Protection
MARYLAND, Annapolis: Water Resources Laboratory
MISSOURI, Columbia: Environmental Trace Substances Research Center
MONTANA, Butte: Bureau of Mines & Geology
NEVADA, Reno: Nevada State Health Labs
NEVADA, Reno: Desert Research Institute
NEW HAMPSHIRE, Concord: Water Pollution Control Laboratory
NEW JERSEY, Trenton: NJ Department of Health
NEW MEXICO, Gallup: Bureau of Indian Affairs
NEW MEXICO, Albuquerque: Water Resources Laboratory
NEW YORK, Hempstead: Nassau County Department of Health
NEW YORK, Rochester: Monroe County Health Lab
NEW YORK, Oakdale: Suffolk County Water Authority
NEW YORK, Hauppauge: Suffolk County Health Serv. Department
NORTH CARCLINA, Charlotte: Mecklenburg Co. Environmental Health
NORTH DAKOTA, Bismarck: North Dakota State Labs
OHIO, Dayton: The Miami Conservancy District
OKLAHOMA, Norman: Oklahoma Geological Survey
OREGON, Sandy: City of Portland Water Quality Laboratory
PENNSYLVANIA, Pittsburgh: Department of Environmental Resources
SOUTH CAROLINA, Columbia: Department of Health & Env. Control
SOUTH CAROLINA, Columbia: Water Resources Commission
SOUTH DAKOTA, Vermillion: South Dakota Geological Survey
SOUTH DAKOTA, Brookings: Water Quality Laboratory
TENNESSEE, Chattanooga: TVA Laboratory Branch
TENNESSEE, Knoxville: Department of Civil Engineering
VIRGINIA, Occoquan: Fairfax County Water Authority
VIRGINIA, Manassas: Occoquan Watershed Laboratory
VIRGINIA, Richmond: Division of Consolidated Laboratories
WASHINGTON, Seattle: Metro Water Quality Lab
WASHINGTON, Olympia: Washington Department of Ecology
WISCONSIN, Madison: State Hygiene Laboratory
WYOMING, Laramie: Wyoming Department of Agriculture

PURPOSE AND PLAN

As a means of providing an independent and objective evaluation of the water-quality data published by the U.S. Geological Survey and other cooperating laboratories, standard reference water samples are prepared and distributed at regular intervals. This report summarizes the analytical results submitted by 70 laboratories for Standard Reference Water Samples Nos. 72, 73, and Nutrient No. 3 distributed on April 25, 1980.

"Instructions for Analysis and Reporting Results," that accompanied standard reference water samples at the time of their distribution, did not specify any particular order for performing the determinations. Furthermore, each participating laboratory was asked to perform only those determinations that it routinely makes in the course of its normal operations and no restrictions were placed on the choice of methods to be used. This program serves primarily as a quality-control tool to alert participating laboratories to deficiencies in their analytical operations. Laboratories are identified in this report only by a preassigned code number.

PREPARATION OF SAMPLES

Approximately 300 gallons of Sample No. 72 and 73 were collected. Sample No. 73 was acidified to a pH of about 1.5 with nitric acid and then the minor elements were added. Thymol was added to both samples and each sample was then filtered through a 0.45-µm membrane filter into a large polyethylene drum. Each sample was mixed overnight with a motor-driven stirrer, pumped through an ultraviolet (2537A) sterilizer and packaged in sterile teflon bottles under ultraviolet radiation.

Approximately 55 gallons of Sample No. 3 (Nutrients) were collected on January 10, 1980. The sample was filtered through a 0.45-µm membrane filter on January 11, 1980, and potassium nitrite added. Mercuric chloride (50 mg/L) and sodium chloride (225 mg/L) were then added. The sample was mixed overnight with a motor-driven stirrer, packaged without sterilization and stored at 4°C. The samples were packed in ice prior to distribution.

DETERMINATIONS - NO. 72 (results in mg/L[1])

Silica (SiO_2)	Nitrite (NO_2-N)
Calcium (Ca)	Nitrate (NO_3-N)
Magnesium (Mg)	Phosphorus, total (P)
Sodium (Na)	Dissolved Solids (residue)
Potassium (K)	Specific Conductance
Alkalinity (as $CaCO_3$)	pH
Sulfate (SO_4)	Boron (B)
Chloride (Cl)	Strontium (Sr)
Fluoride (F)	Vanadium (V)

[1] Except specific conductance (micromhos at 25°C), pH, and boron and strontium (ug/L).

DETERMINATIONS - No. 73 (results in µg/L)

Aluminum (Al)	Cadmium (Cd)	Molybdenum (Mo)
Iron (Fe)	Chromium, total (Cr)	Nickel (Ni)
Manganese (Mn)	Cobalt (Co)	Selenium (Se)
Antimony (Sb)	Copper (Cu)	Silver (Ag)
Arsenic (As)	Lead (Pb)	Strontium (Sr)
Barium (Ba)	Lithium (Li)	Zinc (Zn)
Beryllium (Be)	Mercury (Hg)	

DETERMINATIONS - No. 3 (NUTRIENTS)--results in mg/L

Organic nitrogen (N)	Nitrate (NO_3-N)
Nitrite (NO_2-N)	Orthophosphate (PO_4-P)
Ammonia (NH_3-N)	Phosphorus, total (P)

STATISTICAL EVALUATION

A statistical evaluation of the data has established the most reliable estimate of the true value for each of the various constituents determined. Reported values of "less than" were considered as "not determined" and hence do not enter into the computation of the means, standard deviations, etc. Mathematical computations are the same as those used previously for similar Standard Reference Water Samples of this type.

The mean, average deviation, percent deviation from the mean, standard deviation, and total range were calculated for each determination. Confidence limits about the mean were also calculated in order to define the concentration range within which the true value may be expected to fall with a confidence level of 95 percent. Outlying values were rejected on the basis of statistical tests as outlined in ASTM Recommended Practice for Dealing with Outlying Observations (1969 Book of ASTM Standards, Part 30, p. 429-445).

REPORTED VALUES

The following section shows the reported value for each determination by each participating laboratory, and a graphical presentation of each reported value and the frequency of its occurrence. Each reported value has been rounded off, when necessary, to conform to official USGS policy on reporting analytical data; however, the mean, average deviation, standard deviation, total range, and confidence limits about the mean are computer generated to four decimals. These values should be used to only one significant figure beyond the individual reported values. Because the histograms are computer generated and cover a narrow range with the midpoint approximating the mean, many values, including rejected values are not shown. Statistical information for any method used by three or more laboratories for each determination is also included.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR SIO2
6-80	1	8.3	3.8		EMISSION-PLASMA
5-80	2	7.8	2.5		MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-80	3				NOT DETERMINED
5-80	5	8.0	0.0		OTHER
6-80	6				NOT DETERMINED
6-80	7	6.3	21.2		EMISSION-PLASMA
5-80	8	7.0	12.5		MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	9	2.9	63.7	REJECT	ATOMIC ABS-DIRECT
5-80	10	7.4	7.5		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
6-80	11				NOT DETERMINED
6-80	12	0.4	95.0	REJECT	MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	14				NOT DETERMINED
6-80	16				NOT DETERMINED
6-80	17				NOT DETERMINED
6-80	18	8.0	0.0		ATOMIC ABS-DIRECT, I-1702, USGS TWRI BK5 CH A1
5-80	19	8.7	8.8		MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	20	7.8	2.5		TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-80	21				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	7.7	3.7		TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
6-80	25				NOT DETERMINED
5-80	26	7.6	5.0		MOLYBDOSILICATE, APHA STD METH, 14ED
6-80	27	7.8	2.5		TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-80	28	7.6	5.0		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
6-80	29	7.0	12.5		ATOMIC ABS-DIRECT, I-1702, USGS TWRI BK5 CH A1
5-80	30	3.0	62.5	REJECT	ATOMIC ABS-DIRECT, I-1702, USGS TWRI BK5 CH A1
5-80	31				NOT DETERMINED
6-80	32	7.7	3.7		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-80	33	7.9	1.2		EMISSION-PLASMA
5-80	34				NOT DETERMINED
6-80	35	9.2	15.0		HETEROPOLY BLUE, APHA STD METH, 14ED
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
6-80	38	7.3	8.7		EMISSION-PLASMA
6-80	39	9.2	15.0		TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-80	40				NOT DETERMINED
5-80	41	7.4	7.5		ATOMIC ABS-DIRECT
6-80	42	7.9	1.2		TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-80	43				NOT DETERMINED
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SIO2
5-80	45	8.9	11.3	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-80	46	8.9	11.3	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
6-80	47	8.5	6.3	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	7.7	3.7	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-80	51	9.0	12.5	MOLYBDOSILICATE, APHA STD METH, 14ED
6-80	52			NOT DETERMINED
5-80	55	7.3	8.7	MOLYBDOSILICATE, APHA STD METH, 14ED
6-80	56	8.1	1.3	HETEROPOLY BLUE, APHA STD METH, 14ED
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59	8.8	10.0	MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	60	8.1	1.3	EMISSION-PLASMA
5-80	61	7.7	3.7	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-80	62	7.0	12.5	MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	63			NOT DETERMINED
6-80	65	8.0	0.0	MOLYBDOSILICATE, APHA STD METH, 14ED
6-80	66			NOT DETERMINED
5-80	67	10	25.0	ATOMIC ABS-DIRECT
5-80	68			NOT DETERMINED
6-80	69	8.6	7.5	MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	72	7.9	1.2	MOLYBDOSILICATE, APHA STD METH, 14ED
5-80	74			NOT DETERMINED
5-80	75	7.8	2.5	EMISSION-PLASMA
5-80	76	7.9	1.2	HETEROPOLY BLUE, APHA STD METH, 14ED
5-80	77	8.2	2.5	HETEROPOLY BLUE, APHA STD METH, 14ED

TOTAL RANGE	0.4000 - 10.0000					SAMPLE 72
MEAN	8.0000	AVERAGE DEVIATION	0.5385			
STANDARD DEVIATION	0.7229	95 PCT.CONF.INTVL OF MEAN	8.0000	+OR-	0.2340	SIO2

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CA
6-80	1	65	5.3		EMISSION-PLASMA ICP
5-80	2	62	0.4		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	3	64	3.6		EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	5	64	3.6		ATOMIC ABS-DIRECT
6-80	6	62	0.4		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-80	7	61	1.2		EMISSION-PLASMA ICP
5-80	8	102	65.2	REJECT	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	9	65	5.3		ATOMIC ABS-DIRECT
5-80	10	62	0.4		ATOMIC ABS-DIRECT
6-80	11	64	3.6		ATOMIC ABS-DIRECT
6-80	12	67	8.5		EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	14	70	13.4		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-80	16			NOT DETERMINED	
6-80	17	62	0.4		EMISSION-PLASMA ICP
6-80	18	60	2.8		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	19	67	8.5		ATOMIC ABS-DIRECT
5-80	20	62	0.4		ATOMIC ABS-DIRECT
5-80	21			NOT DETERMINED	
6-80	23	80	29.5	REJECT	ATOMIC ABS-DIRECT
6-80	24	68	10.1		EMISSION-PLASMA ICP
6-80	25	61	1.2		OTHER
5-80	26	60	2.8		ATOMIC ABS-DIRECT
6-80	27	72	16.6		ATOMIC ABS-DIRECT
5-80	28	58	6.1		EDTA TITRIMETRIC, APHA STD METH, 14ED
6-80	29	62	0.4		EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	30			NOT DETERMINED	
5-80	31	60	2.8		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-80	32	59	4.5		EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	33	64	3.6		EMISSION-PLASMA ICP
5-80	34	62	0.4		ATOMIC ABS-DIRECT
6-80	35	59	4.5		ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED	
5-80	37	53	14.2		ATOMIC ABS-DIRECT
6-80	38	58	6.1		EMISSION-PLASMA ICP
6-80	39	61	1.2		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	40	63	2.0		EMISSION-PLASMA ICP
5-80	41	61	1.2		EDTA TITRIMETRIC, APHA STD METH, 14EB
6-80	42	80	29.5	REJECT	ATOMIC ABS-DIRECT
5-80	43	60	2.8		ATOMIC ABS-DIRECT
6-80	44	63	2.0		ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CA
5-80	45	61	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	46	61	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-80	47	65	5.3	EMISSION-FLAME
5-80	48	59	4.5	ATOMIC ABS-DIRECT
5-80	49	56	9.3	ATOMIC ABS-DIRECT
5-80	50	62	0.4	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	51	68	10.1	EDTA TITRIMETRIC, APHA STD METH, 14ED
6-80	52			NOT DETERMINED
5-80	55	62	0.4	EDTA TITRIMETRIC, APHA STD METH, 14ED
6-80	56	58	6.1	ATOMIC ABS-DIRECT
5-80	57			NOT DETERMINED
6-80	58	64	3.6	ATOMIC ABS-DIRECT
5-80	59	62	0.4	ATOMIC ABS-DIRECT
5-80	60	63	2.0	EMISSION-PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62	56	9.3	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	63	63	2.0	EMISSION-PLASMA ICP
6-80	65	60	2.8	EDTA TITRIMETRIC, APHA STD METH, 14ED
6-80	66	60	2.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-80	67	62	0.4	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	68	54	12.6	ATOMIC ABS-DIRECT
6-80	69	62	0.4	ATOMIC ABS-DIRECT
5-80	72	62	0.4	ATOMIC ABS-DIRECT
5-80	74	62	0.4	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	75	61	1.2	EMISSION-PLASMA ICP
5-80	76	56	9.3	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-80	77	60	2.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1

TOTAL RANGE	53.0000 - 102.0000					SAMPLE 72
MEAN	61.7544	AVERAGE DEVIATION	2.4863			
STANDARD DEVIATION	3.5268	95 PCT.CONF.INTVL OF MEAN	61.7544 +OR-	0.9361		CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR MG
6-80	1	14	3.3		EMISSION-PLASMA ICP
5-80	2	12	11.5		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	3	11	18.9		CALCULATION FROM CA PLUS MG
5-80	5	14	3.3		ATOMIC ABS-DIRECT
6-80	6	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
6-80	7	13	4.1		EMISSION-PLASMA ICP
5-80	8	15	10.7		ATOMIC ABS-DIRECT
5-80	9	15	10.7		ATOMIC ABS-DIRECT
5-80	10	13	4.1		ATOMIC ABS-DIRECT
6-80	11	13	4.1		ATOMIC ABS-DIRECT
6-80	12	9.9	27.0	REJECT	CALCULATION FROM CA PLUS MG
5-80	14	15	10.7		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
6-80	16			NOT DETERMINED	
6-80	17	14	3.3		EMISSION-PLASMA ICP
6-80	18	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	19	13	4.1		ATOMIC ABS-DIRECT
5-80	20	14	3.3		ATOMIC ABS-DIRECT
5-80	21			NOT DETERMINED	
6-80	23	1.7	87.5	REJECT	ATOMIC ABS-DIRECT
6-80	24	14	3.3		EMISSION-PLASMA ICP
6-80	25	12	11.5		OTHER
5-80	26	14	3.3		ATOMIC ABS-DIRECT
6-80	27	14	3.3		ATOMIC ABS-DIRECT
5-80	28	17	25.4	REJECT	TITRIMETRIC-EDTA, ASTM METHOD B, D1126
6-80	29	12	11.5		CALCULATION FROM CA PLUS MG
5-80	30			NOT DETERMINED	
5-80	31	13	4.1		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
6-80	32	15	10.7		CALCULATION FRO CA PLUS MG
5-80	33	14	3.3		EMISSION-PLASMA ICP
5-80	34	14	3.3		ATOMIC ABS-DIRECT
6-80	35	13	4.1		ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED	
5-80	37	13	4.1		ATOMIC ABS-DIRECT
6-80	38	13	4.1		EMISSION-PLASMA ICP
6-80	39	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	40	14	3.3		EMISSION-PLASMA ICP
5-80	41	12	11.5		ATOMIC ABS-DIRECT
6-80	42	19	40.2	REJECT	ATOMIC ABS-DIRECT
5-80	43	14	3.3		ATOMIC ABS-DIRECT
6-80	44	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR MG
5-80	45	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	46	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
6-80	47	14	3.3		ATOMIC ABS-DIRECT
5-80	48	14	3.3		ATOMIC ABS-DIRECT
5-80	49	13	4.1		ATOMIC ABS-DIRECT
5-80	50	14	3.3		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	51	7.5	44.7	REJECT	TITRIMETRIC-EDTA. ASTM METHOD B, D1126
6-80	52			NOT DETERMINED	
5-80	55	15	10.7		TITRIMETRIC-EDTA. ASTM METHOD B, D1126
6-80	56	14	3.3		ATOMIC ABS-DIRECT
5-80	57			NOT DETERMINED	
6-80	58	13	4.1		ATOMIC ABS-DIRECT
5-80	59	13	4.1		ATOMIC ABS-DIRECT
5-80	60	13	4.1		EMISSION-PLASMA ICP
5-80	61			NOT DETERMINED	
5-80	62	16	18.0		CALCULATION FROM CA PLUS MG
5-80	63	14	3.3		EMISSION-PLASMA ICP
6-80	65	25	84.4	REJECT	ATOMIC ABS-DIRECT
6-80	66	12	11.5		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
5-80	67	12	11.5		TITRIMETRIC-EDTA. ASTM METHOD B, D1126
5-80	68	13	4.1		ATOMIC ABS-DIRECT
6-80	69	13	4.1		ATOMIC ABS-DIRECT
5-80	72	14	3.3		ATOMIC ABS-DIRECT
5-80	74	14	3.3		CALCULATION FROM CA PLUS MG
5-80	75	13	4.1		EMISSION-PLASMA ICP
5-80	76	14	3.3		CALCULATION FROM CA PLUS MG
5-80	77	13	4.1		ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1

TOTAL RANGE	1.7000 - 25.0000					SAMPLE 72
MEAN	13.5556	AVERAGE DEVIATION	0.7695			
STANDARD DEVIATION	0.9450	95 PCT.CONF.INTVL OF MEAN	13.5556	+OR-	0.2577	MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NA
6-80	1	63	12.0	EMISSION-PLASMA ICP
5-80	2	57	1.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-80	3	55	2.2	EMISSION-FLAME
5-80	5	58	3.1	ATOMIC ABS-DIRECT
6-80	6	55	2.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
6-80	7	60	6.7	EMISSION-PLASMA ICP
5-80	8	58	3.1	EMISSION-FLAME
5-80	9	55	2.2	ATOMIC ABS-DIRECT
5-80	10	55	2.2	ATOMIC ABS-DIRECT
6-80	11	58	3.1	EMISSION-FLAME
6-80	12	66	17.4	EMISSION-FLAME
5-80	14	49	12.9	EMISSION-FLAME
6-80	16			NOT DETERMINED
6-80	17	58	3.1	EMISSION-PLASMA ICP
6-80	18			NOT DETERMINED
5-80	19	54	4.0	ATOMIC ABS-DIRECT
5-80	20	59	4.9	ATOMIC ABS-DIRECT
5-80	21			NOT DETERMINED
6-80	23	53	5.8	EMISSION-FLAME
6-80	24	63	12.0	EMISSION-PLASMA ICP
6-80	25			NOT DETERMINED
5-80	26	56	0.4	EMISSION-FLAME
6-80	27	56	0.4	ATOMIC ABS-DIRECT
5-80	28	53	5.8	EMISSION-FLAME
6-80	29	56	0.4	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31	50	11.1	ATOMIC ABS-DIRECT
6-80	32	55	2.2	ATOMIC ABS-DIRECT
5-80	33	57	1.4	EMISSION-PLASMA ICP
5-80	34	58	3.1	ATOMIC ABS-DIRECT
6-80	35	55	2.2	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37	62	10.2	EMISSION-FLAME
6-80	38	55	2.2	EMISSION-PLASMA ICP
6-80	39	55	2.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-80	40	54	4.0	NEUTRON ACTIVATION
5-80	41	51	9.3	ATOMIC ABS-DIRECT
6-80	42	55	2.2	ATOMIC ABS-DIRECT
5-80	43	55	2.2	ATOMIC ABS-DIRECT
6-80	44	59	4.9	ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NA
5-80	45	62	10.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-80	46	62	10.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
6-80	47	58	3.1	ATOMIC ABS-DIRECT
5-80	48	56	0.4	ATOMIC ABS-DIRECT
5-80	49	59	4.9	ATOMIC ABS-DIRECT
5-80	50	54	4.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-80	51	54	4.0	EMISSION-FLAME
6-80	52			NOT DETERMINED
5-80	55	57	1.4	ATOMIC ABS-DIRECT
6-80	56	57	1.4	ATOMIC ABS-DIRECT
5-80	57	50	11.1	EMISSION-FLAME
6-80	58	52	7.5	ATOMIC ABS-DIRECT
5-80	59	51	9.3	EMISSION-FLAME
5-80	60	54	4.0	EMISSION-PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62	58	3.1	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-80	63	60	6.7	EMISSION-PLASMA ICP
6-80	65	58	3.1	EMISSION-FLAME
6-80	66	55	2.2	ATOMIC ABS-DIRECT
5-80	67	55	2.2	EMISSION-FLAME
5-80	68	50	11.1	ATOMIC ABS-DIRECT
6-80	69	60	6.7	ATOMIC ABS-DIRECT
5-80	72	56	0.4	ATOMIC ABS-DIRECT
5-80	74	56	0.4	EMISSION-FLAME
5-80	75	56	0.4	EMISSION-PLASMA ICP
5-80	76	55	2.2	ATOMIC ABS-DIRECT
5-80	77	55	2.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1

TOTAL RANGE	49.0000 - 66.0000					SAMPLE 72
MEAN	56.2373	AVERAGE DEVIATION	2.6205			
STANDARD DEVIATION	3.4458	95 PCT.CONF.INTVL OF MEAN	56.2373 +OR-	0.8990	NA	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR K
6-80	1			NOT DETERMINED
5-80	2	3.4	9.6	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-80	3	3.9	3.7	EMISSION-FLAME
5-80	5	3.6	4.2	ATOMIC ABS-DIRECT
6-80	6	3.5	6.9	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
6-80	7	4.1	9.1	EMISSION-PLASMA ICP
5-80	8	3.5	6.9	EMISSION-FLAME
5-80	9	3.7	1.6	ATOMIC ABS-DIRECT
5-80	10	3.6	4.2	ATOMIC ABS-DIRECT
6-80	11			NOT DETERMINED
6-80	12	45	*****	REJECT EMISSION-FLAME
5-80	14	3.4	9.6	EMISSION-FLAME
6-80	16			NOT DETERMINED
6-80	17	3.7	1.6	EMISSION-PLASMA ICP
6-80	18			NOT DETERMINED
5-80	19	3.6	4.2	ATOMIC ABS-DIRECT
5-80	20	3.6	4.2	ATOMIC ABS-DIRECT
5-80	21			NOT DETERMINED
6-80	23	3.6	4.2	EMISSION-FLAME
6-80	24	3.7	1.6	EMISSION-FLAME
6-80	25			NOT DETERMINED
5-80	26	3.8	1.1	EMISSION-FLAME
6-80	27	4.0	6.4	ATOMIC ABS-DIRECT
5-80	28	3.0	20.2	EMISSION-FLAME
6-80	29	3.8	1.1	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31	4.1	9.1	EMISSION-FLAME
6-80	32	2.5	33.5	ATOMIC ABS-DIRECT
5-80	33	3.6	4.2	EMISSION-PLASMA ICP
5-80	34	3.6	4.2	ATOMIC ABS-DIRECT
6-80	35	3.4	9.6	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37	5.0	33.0	EMISSION-FLAME
6-80	38			NOT DETERMINED
6-80	39	3.7	1.6	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-80	40			NOT DETERMINED
5-80	41	3.5	6.9	ATOMIC ABS-DIRECT
6-80	42	4.2	11.7	ATOMIC ABS-DIRECT
5-80	43	3.5	6.9	ATOMIC ABS-DIRECT
6-80	44	3.7	1.6	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR K
5-80	45	3.9	3.7		ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-80	46	3.9	3.7		ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
6-80	47	3.7	1.6		ATOMIC ABS-DIRECT
5-80	48	4.0	6.4		ATOMIC ABS-DIRECT
5-80	49	3.5	6.9		ATOMIC ABS-DIRECT
5-80	50	3.9	3.7		ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-80	51	3.5	6.9		EMISSION-FLAME
6-80	52				NOT DETERMINED
5-80	55	3.7	1.6		ATOMIC ABS-DIRECT
6-80	56	3.6	4.2		ATOMIC ABS-DIRECT
5-80	57	3.5	6.9		EMISSION-FLAME
6-80	58	3.5	6.9		ATOMIC ABS-DIRECT
5-80	59	3.9	3.7		ATOMIC ABS-DIRECT
5-80	60	4.4	17.0		EMISSION-PLASMA ICP
5-80	61				NOT DETERMINED
5-80	62	5.0	33.0		ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-80	63	4.8	27.7		EMISSION-FLAME
6-80	65	3.4	9.6		EMISSION-FLAME
6-80	66	3.8	1.1		ATOMIC ABS-DIRECT
5-80	67	6.5	72.9	REJECT	EMISSION-FLAME
5-80	68	5.0	33.0		ATOMIC ABS-DIRECT
6-80	69	3.4	9.6		ATOMIC ABS-DIRECT
5-80	72	3.6	4.2		ATOMIC ABS-DIRECT
5-80	74	4.3	14.4		EMISSION-FLAME
5-80	75				NOT DETERMINED
5-80	76	3.4	9.6		ATOMIC ABS-DIRECT
5-80	77	3.5	6.9		ATOMIC ABS-DIRECT

TOTAL RANGE	2.5000 - 45.0000				SAMPLE 72
MEAN	3.7596	AVERAGE DEVIATION	0.3218		
STANDARD DEVIATION	0.4611	95 PCT.CONF.INTVL OF MEAN	3.7596 +OR-	0.1282	K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR ALK.
6-80	1				NOT DETERMINED
5-80	2	119	15.2	REJECT	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-80	3	140	0.3		INDICATOR, APHA.STD METH, 14ED
5-80	5	136	3.1		OTHER
6-80	6	126	10.2		OTHER
6-80	7	170	21.1	REJECT	AUTOMATED ELECTROMETRIC TITRATION
5-80	8	0	100.0	REJECT	POTENTIOMETRIC, APHA STD METH, 14ED
5-80	9	135	3.8		INDICATOR, APHA.STD METH, 14ED
5-80	10	142	1.2		AUTOMATED ELECTROMETRIC TITRATION
6-80	11	150	6.9		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	12	160	14.0	REJECT	INDICATOR, APHA.STD METH, 14ED
5-80	14				NOT DETERMINED
6-80	16	138	1.7		INDICATOR, APHA.STD METH, 14ED
6-80	17	140	0.3		INDICATOR, APHA.STD METH, 14ED
6-80	18				NOT DETERMINED
5-80	19	140	0.3		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	20	147	4.7		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	21				NOT DETERMINED
6-80	23	134	4.5		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	24	138	1.7		TECHNICON AUTOANALYZER,METHYL ORANGE
6-80	25	150	6.9		OTHER
5-80	26	140	0.3		AUTOMATED ELECTROMETRIC TITRATION
6-80	27	138	1.7		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	28	148	5.4		ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-80	29	142	1.2		INDICATOR, APHA.STD METH, 14ED
5-80	30	135	3.8		ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-80	31	132	6.0		INDICATOR, APHA.STD METH, 14ED
6-80	32	183	30.4	REJECT	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-80	33	143	1.9		ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-80	34	148	5.4		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	35	141	0.4		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	36	142	1.2		OTHER
5-80	37	137	2.4		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	38				NOT DETERMINED
6-80	39	140	0.3		ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-80	40	136	3.1		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	41	92	34.5	REJECT	TECHNICON AUTOANALYZER,METHYL ORANGE
6-80	42	140	0.3		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	43	140	0.3		INDICATOR, APHA.STD METH, 14ED
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR ALK.
5-80	45	144	2.6		ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-80	46	145	3.3		ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-80	47	138	1.7		OTHER
5-80	48	140	0.3		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	49	140	0.3		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	50	130	7.4		ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-80	51	144	2.6		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	52				NOT DETERMINED
5-80	55	130	7.4		INDICATOR, APHA.STD METH, 14ED
6-80	56	151	7.6		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	57	420	199.2	REJECT	POTENTIOMETRIC, APHA STD METH, 14ED
6-80	58	147	4.7		INDICATOR, APHA.STD METH, 14ED
5-80	59	140	0.3		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	60				NOT DETERMINED
5-80	61				NOT DETERMINED
5-80	62	144	2.6		INDICATOR, APHA.STD METH, 14ED
5-80	63				NOT DETERMINED
6-80	65	116	17.4	REJECT	POTENTIOMETRIC, APHA STD METH, 14ED
6-80	66	142	1.2		POTENTIOMETRIC, APHA STD METH, 14ED
5-80	67	143	1.9		ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-80	68	138	1.7		POTENTIOMETRIC, APHA STD METH, 14ED
6-80	69	142	1.2		AUTOMATED ELECTROMETRIC TITRATION
5-80	72	138	1.7		INDICATOR, APHA.STD METH, 14ED
5-80	74				NOT DETERMINED
5-80	75				NOT DETERMINED
5-80	76	140	0.3		INDICATOR, APHA.STD METH, 14ED
5-80	77	144	2.6		INDICATOR, APHA.STD METH, 14ED

SAMPLE 72

TOTAL RANGE	0.0 - 420.0000				
MEAN	140.3830	AVERAGE DEVIATION	3.8868		
STANDARD DEVIATION	5.2732	95 PCT.CONF.INTVL OF MEAN	140.3830 +OR-	1.5445	ALK.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN
6-80	1		
5-80	2	120	6.2
5-80	3	120	6.2
5-80	5	110	2.6
6-80	6	100	11.5
6-80	7	110	2.6
5-80	8	120	6.2
5-80	9	94	16.8
5-80	10	110	2.6
6-80	11	99	12.3
6-80	12	110	2.6
5-80	14	100	11.5
6-80	16		
6-80	17	110	2.6
6-80	18	110	2.6
5-80	19	110	2.6
5-80	20	110	2.6
5-80	21		
6-80	23	150	32.8
6-80	24	110	2.6
6-80	25	140	24.9
5-80	26	93	17.7
6-80	27	120	6.2
5-80	28	110	2.6
6-80	29	110	2.6
5-80	30	120	6.2
5-80	31	120	6.2
6-80	32	110	2.6
5-80	33	110	2.6
5-80	34	120	6.2
6-80	35	110	2.6
6-80	36		
5-80	37	95	15.9
6-80	38		
6-80	39	110	2.6
5-80	40		
5-80	41	150	32.8
6-80	42	90	20.3
5-80	43	110	2.6
6-80	44		

METHODS FOR SO4

NOT DETERMINED
THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
GRAVIMETRIC, APHA STD METH, 14ED
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
TURBIDIMETRIC
TURBIDIMETRIC
TURBIDIMETRIC
GRAVIMETRIC, APHA STD METH, 14ED
GRAVIMETRIC, APHA STD METH, 14ED
TURBIDIMETRIC
TURBIDIMETRIC
NOT DETERMINED
TURBIDIMETRIC
GRAVIMETRIC, APHA STD METH, 14ED
TURBIDIMETRIC
TURBIDIMETRIC
NOT DETERMINED
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
OTHER
TURBIDIMETRIC
TURBIDIMETRIC
GRAVIMETRIC, APHA STD METH, 14ED
TURBIDIMETRIC
TURBIDIMETRIC
TURBIDIMETRIC
OTHER
OTHER
TURBIDIMETRIC
TURBIDIMETRIC
NOT DETERMINED
TURBIDIMETRIC
NOT DETERMINED
COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5 CH
NOT DETERMINED
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
TURBIDIMETRIC
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR SO4
5-80	45	120	6.2		TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-80	46	120	6.2		TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
6-80	47	130	15.1		TURBIDIMETRIC
5-80	48	54	52.2	REJECT	TURBIDIMETRIC
5-80	49	120	6.2		TURBIDIMETRIC
5-80	50	130	15.1		COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5 CH
5-80	51	110	2.6		TURBIDIMETRIC
6-80	52				NOT DETERMINED
5-80	55	110	2.6		TURBIDIMETRIC
6-80	56	120	6.2		TURBIDIMETRIC
5-80	57				NOT DETERMINED
6-80	58	100	11.5		TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-80	59	130	15.1		TURBIDIMETRIC
5-80	60				NOT DETERMINED
5-80	61				NOT DETERMINED
5-80	62	100	11.5		GRAVIMETRIC, APHA STD METH, 14ED
5-80	63				NOT DETERMINED
6-80	65	160	41.7	REJECT	GRAVIMETRIC, APHA STD METH, 14ED
6-80	66	92	18.5		TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-80	67	120	6.2		TURBIDIMETRIC
5-80	68	120	6.2		TURBIDIMETRIC
6-80	69	110	2.6		TURBIDIMETRIC
5-80	72	110	2.6		GRAVIMETRIC, APHA STD METH, 14ED
5-80	74	100	11.5		TURBIDIMETRIC
5-80	75				NOT DETERMINED
5-80	76	110	2.6		TURBIDIMETRIC
5-80	77	110	2.6		GRAVIMETRIC, APHA STD METH, 14ED

TOTAL RANGE	54.0000 - 160.0000				SAMPLE 72
MEAN	112.9423	AVERAGE DEVIATION	9.3883		
STANDARD DEVIATION	12.7301	95 PCT.CONF.INTVL OF MEAN	112.9423 +OR-	3.5377	SO4

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CL
6-80	1			NOT DETERMINED
5-80	2	44	3.2	MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1
5-80	3	48	5.6	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	5	46	1.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
6-80	6	47	3.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	7	48	5.6	SILVER NITRATE, ASTM METHOD B, D512
5-80	8	45	1.0	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	9	46	1.2	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	10	46	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	11	45	1.0	MERCURIC NITRATE, APHA STD METH, 14ED
6-80	12	47	3.4	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	14	46	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	16			NOT DETERMINED
6-80	17	46	1.2	ARGENTOMETRIC, APHA STD METH, 14ED
6-80	18	45	1.0	MOHR, I-1183, USGS TWRI BK5 CH A1
5-80	19	43	5.4	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	20	47	3.4	ARGENTOMETRIC, APHA STD METH, 14ED
5-80	21			NOT DETERMINED
6-80	23	46	1.2	MERCURIC NITRATE, APHA STD METH, 14ED
6-80	24	44	3.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	25	42	7.6	OTHER
5-80	26	44	3.2	MERCURIC NITRATE, APHA STD METH, 14ED
6-80	27	46	1.2	OTHER
5-80	28	48	5.6	MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1
6-80	29	48	5.6	MOHR, I-1183, USGS TWRI BK5 CH A1
5-80	30	48	5.6	MERCURIC NITRATE, APHA STD METH, 14ED
5-80	31	46	1.2	ARGENTOMETRIC, APHA STD METH, 14ED
6-80	32	45	1.0	SILVER NITRATE, ASTM METHOD B, D512
5-80	33	46	1.2	OTHER
5-80	34	43	5.4	MERCURIC NITRATE, APHA STD METH, 14EB
6-80	35	46	1.2	OTHER
6-80	36			NOT DETERMINED
5-80	37	51	12.2	ARGENTOMETRIC, APHA STD METH, 14ED
6-80	38			NOT DETERMINED
6-80	39	44	3.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
5-80	40			NOT DETERMINED
5-80	41	47	3.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	42	42	7.6	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-80	43	46	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	44			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CL
5-80	45	46	1.2		TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-80	46	46	1.2		TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-80	47	44	3.2		ARGENTOMETRIC, APHA STD METH, 14ED
5-80	48	44	3.2		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	49	45	1.0		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	50	47	3.4		FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
5-80	51	47	3.4		SILVER NITRATE, ASTM METHOD B, D512
6-80	52	38	16.4	REJECT	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-80	55	44	3.2		ARGENTOMETRIC, APHA STD METH, 14ED
6-80	56	44	3.2		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	57	43	5.4		MERCURIC NITRATE, APHA STD METH, 14ED
6-80	58	43	5.4		ARGENTOMETRIC, APHA STD METH, 14ED
5-80	59	44	3.2		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	60			NOT DETERMINED	
5-80	61	45	1.0		TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-80	62	48	5.6		MOHR, I-1183, USGS TWRI BK5 CH A1
5-80	63			NOT DETERMINED	
6-80	65	54	18.8	REJECT	MERCURIC NITRATE, APHA STD METH, 14ED
6-80	66	45	1.0		TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-80	67	45	1.0		ION-SELECTIVE ELECTRODE
5-80	68			NOT DETERMINED	
6-80	69	44	3.2		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	72	47	3.4		ARGENTOMETRIC, APHA STD METH, 14ED
5-80	74	43	5.4		ARGENTOMETRIC, APHA STD METH, 14ED
5-80	75			NOT DETERMINED	
5-80	76	45	1.0		MERCURIC NITRATE, APHA STD METH, 14ED
5-80	77	45	1.0		MOHR, I-1183, USGS TWRI BK5 CH A1

TOTAL RANGE	38.0000 - 54.0000				SAMPLE 72
MEAN	45.4630	AVERAGE DEVIATION	1.4259		
STANDARD DEVIATION	1.7773	95 PCT.CONF.INTVL OF MEAN	45.4630 +OR-	0.4847	CL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR F
6-80	1				NOT DETERMINED
5-80	2	0.9	1.7		ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
5-80	3	1.0	13.0		MANUAL ION-SELECTIVE ELECTRODE
5-80	5	1.0	13.0		OTHER
6-80	6	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
6-80	7	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	8	0.8	9.6		MANUAL ION-SELECTIVE ELECTRODE
5-80	9	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	10	0.9	1.7		ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
6-80	11				NOT DETERMINED
6-80	12	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	14	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
6-80	16				NOT DETERMINED
6-80	17	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
6-80	18				NOT DETERMINED
5-80	19	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	20	1.0	13.0		MANUAL ION-SELECTIVE ELECTRODE
5-80	21				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	0.9	1.7		TECHNICON AUTOANALYZER, ALIZIRIN
6-80	25	0.8	9.6		OTHER
5-80	26	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
6-80	27	0.1	88.7	REJECT	MANUAL ION-SELECTIVE ELECTRODE
5-80	28	0.9	1.7		SPADNS, APHA STD METH, 14ED
6-80	29				NOT DETERMINED
5-80	30	0.7	20.9		MANUAL ION-SELECTIVE ELECTRODE
5-80	31	0.8	9.6		ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
6-80	32	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	33	0.9	1.7		OTHER
5-80	34	0.9	1.7		OTHER
6-80	35	0.8	9.6		MANUAL ION-SELECTIVE ELECTRODE
6-80	36				NOT DETERMINED
5-80	37	0.9	1.7		TECHNICON AUTOANALYZER, ALIZIRIN
6-80	38				NOT DETERMINED
6-80	39	0.9	1.7		ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-80	40				NOT DETERMINED
5-80	41	0.9	1.7		TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
6-80	42	0.9	1.7		MANUAL ION-SELECTIVE ELECTRODE
5-80	43	1.0	13.0		TECHNICON AUTOANALYZER, ALIZIRIN
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR F
5-80	45	0.9	1.7	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-80	46	0.9	1.7	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
6-80	47	1.0	13.0	MANUAL ION-SELECTIVE ELECTRODE
5-80	48	0.9	1.7	TECHNICON AUTOANALYZER, ALIZIRIN
5-80	49	0.7	20.9	MANUAL ION-SELECTIVE ELECTRODE
5-80	50	0.9	1.7	ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BK5 CH A1
5-80	51	0.8	9.6	MANUAL ION-SELECTIVE ELECTRODE
6-80	52			NOT DETERMINED
5-80	55	1.0	13.0	SPADNS, APHA STD METH, 14ED
6-80	56	0.9	1.7	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-80	57			NOT DETERMINED
6-80	58	0.9	1.7	MANUAL ION-SELECTIVE ELECTRODE
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62	0.8	9.6	OTHER
5-80	63			NOT DETERMINED
6-80	65	0.9	1.7	SPADNS, APHA STD METH, 14ED
6-80	66	0.8	9.6	MANUAL ION-SELECTIVE ELECTRODE
5-80	67	0.9	1.7	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-80	68			NOT DETERMINED
6-80	69	0.9	1.7	MANUAL ION-SELECTIVE ELECTRODE
5-80	72	0.8	9.6	TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
5-80	74	0.8	9.6	MANUAL ION-SELECTIVE ELECTRODE
5-80	75			NOT DETERMINED
5-80	76	1.0	13.0	SPADNS, APHA STD METH, 14ED
5-80	77	0.8	9.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1

TOTAL RANGE	0.1000 - 1.0000				SAMPLE 72
MEAN	0.8851	AVERAGE DEVIATION	0.0520		
STANDARD DEVIATION	0.0722	95 PCT.CONF.INTVL OF MEAN	0.8851 +OR-	0.0211	F

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
6-80	1			NOT DETERMINED
5-80	2	0.06	19.3	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	7			NOT DETERMINED
5-80	8	0.05	0.6	DIAZOTIZATION, APHA STD METH, 14ED
5-80	9			NOT DETERMINED
5-80	10	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	11	0.05	0.6	DIAZOTIZATION, APHA STD METH, 14ED
6-80	12			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17	0.05	0.6	DIAZOTIZATION, EPA
6-80	18			NOT DETERMINED
5-80	19	0.05	0.6	DIAZOTIZATION, APHA STD METH, 14ED
5-80	20	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	21			NOT DETERMINED
6-80	23	0.11	118.6	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	24			NOT DETERMINED
6-80	25			NOT DETERMINED
5-80	26	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	27	0.07	39.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	28	0.05	0.6	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31	0.04	20.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34	0.05	0.6	OTHER
6-80	35	0.05	0.6	DIAZOTIZATION, EPA
6-80	36			NOT DETERMINED
5-80	37	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	38			NOT DETERMINED
6-80	39	0.05	0.6	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	40	0.07	39.1	DIAZOTIZATION, EPA
5-80	41	0.03	40.4	DIAZOTIZATION, EPA
6-80	42	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
5-80	45	0.04	20.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	46	0.04	20.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	47			NOT DETERMINED
5-80	48			NOT DETERMINED
5-80	49	0.05	0.6	DIAZOTIZATION, APHA STD METH, 14ED
5-80	50	0.06	19.3	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	51	0.06	19.3	DIAZOTIZATION, APHA STD METH, 14ED
6-80	52			NOT DETERMINED
5-80	55	0.05	0.6	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	56	0.05	0.6	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	57			NOT DETERMINED
6-80	58	0.04	20.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66	0.04	20.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69	0.06	19.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	72	0.05	0.6	DIAZOTIZATION, APHA STD METH, 14ED
5-80	74	0.06	19.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77	0.04	20.5	DIAZOTIZATION, APHA STD METH, 14ED

SAMPLE 72

TOTAL RANGE	0.0300 -	0.1100				
MEAN	0.0503	AVERAGE DEVIATION	0.0055			
STANDARD DEVIATION	0.0086	95 PCT.CONF.INTVL OF MEAN	0.0503	+OR-	0.0031	NO2-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO3-N
6-80	1				NOT DETERMINED
5-80	2	3.0	2.1		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	3	1.4	54.3	REJECT	OTHER
5-80	5	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	6	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	7	3.9	27.3		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	8	3.2	4.4		MANUAL, CADMIUM REDUCTION
5-80	9	3.7	20.7		BRUCINE, APHA STD METH, 14ED
5-80	10	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	11	2.9	5.4		MANUAL, CADMIUM REDUCTION
6-80	12	3.2	4.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	14	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	16	2.8	8.6		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	17	2.9	5.4		OTHER
6-80	18				NOT DETERMINED
5-80	19	3.1	1.2		BRUCINE, APHA STD METH, 14ED
5-80	20	2.9	5.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	21				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	25				NOT DETERMINED
5-80	26	2.8	8.6		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	27	2.8	8.6		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	28	3.7	20.7		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
6-80	29	2.9	5.4		OTHER
5-80	30				NOT DETERMINED
5-80	31	3.4	10.9		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	32	2.6	15.2		OTHER
5-80	33	2.9	5.4		OTHER
5-80	34	3.0	2.1		MANUAL, CADMIUM REDUCTION
6-80	35	3.5	14.2		BRUCINE, APHA STD METH, 14ED
6-80	36				NOT DETERMINED
5-80	37	3.2	4.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	38				NOT DETERMINED
6-80	39	3.4	10.9		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	40	2.9	5.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	41	3.2	4.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	42	3.2	4.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	43	3.0	2.1		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO3-N
5-80	45	3.0	2.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	46	3.0	2.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	47	2.9	5.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	48			NOT DETERMINED
5-80	49	2.5	18.4	BRUCINE, APHA STD METH, 14ED
5-80	50	3.5	14.2	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	51	3.0	2.1	BRUCINE, APHA STD METH, 14ED
6-80	52			NOT DETERMINED
5-80	55	2.4	21.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	56	3.2	4.4	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	57			NOT DETERMINED
6-80	58	2.7	11.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	2.1	31.5	OTHER
6-80	65	3.1	1.2	BRUCINE, APHA STD METH, 14ED
6-80	66	3.0	2.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	67	3.8	24.0	BRUCINE, APHA STD METH, 14ED
5-80	68			NOT DETERMINED
6-80	69	3.0	2.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	72	3.7	20.7	BRUCINE, APHA STD METH, 14ED
5-80	74	3.3	7.7	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-80	75			NOT DETERMINED
5-80	76	2.6	15.2	BRUCINE, APHA STD METH, 14ED
5-80	77	3.2	4.4	OTHER

SAMPLE 72

TOTAL RANGE	1.4000 - 3.9000				
MEAN	3.0646	AVERAGE DEVIATION	0.2614		
STANDARD DEVIATION	0.3558	95 PCT.CONF.INTVL OF MEAN	3.0646 +OR-	0.1031	NO3-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
6-80	1			NOT DETERMINED
5-80	2	0.61	3.4	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	3	1.3	120.3	REJECT EMISSION-PLASMA DC
5-80	5			NOT DETERMINED
6-80	6	0.61	3.4	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	7			NOT DETERMINED
5-80	8	0.50	15.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	9			NOT DETERMINED
5-80	10			NOT DETERMINED
6-80	11	0.59	0.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	12			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17	0.66	11.9	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	18			NOT DETERMINED
5-80	19	0.61	3.4	OTHER
5-80	20			NOT DETERMINED
5-80	21	0.68	15.3	PHOSPHOMOLYBDATE, EPA
6-80	23			NOT DETERMINED
6-80	24	0.60	1.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	25			NOT DETERMINED
5-80	26			NOT DETERMINED
6-80	27	0.60	1.7	OTHER
5-80	28			NOT DETERMINED
6-80	29	0.63	6.8	OTHER
5-80	30	0.60	1.7	PHOSPHOMOLYBDATE, EPA
5-80	31	0.58	1.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	32			NOT DETERMINED
5-80	33	0.58	1.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-80	34	0.70	18.6	OTHER
6-80	35	0.62	5.1	PHOSPHOMOLYBDATE, EPA
6-80	36			NOT DETERMINED
5-80	37	0.51	13.6	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	38			NOT DETERMINED
6-80	39	0.62	5.1	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	40			NOT DETERMINED
5-80	41	0.52	11.9	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	42			NOT DETERMINED
5-80	43	0.62	5.1	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	44			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
5-80	45	0.58	1.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-80	46	0.56	5.1	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
6-80	47	0.60	1.7	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	0.56	5.1	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	51	0.66	11.9	ASCORBIC ACID REDUCTION, ASTM METHOD A, D515
6-80	52			NOT DETERMINED
5-80	55	0.55	6.8	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	56			NOT DETERMINED
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65	0.59	0.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	66	0.48	18.6	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69	0.60	1.7	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	72	0.62	5.1	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	74	0.55	6.8	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	75			NOT DETERMINED
5-80	76	0.48	18.6	OTHER
5-80	77	0.61	3.4	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED

TOTAL RANGE 0.4800 - 1.3000 SAMPLE 72

MEAN	0.5900	AVERAGE DEVIATION	0.0394
STANDARD DEVIATION	0.0527	95 PCT.CONF.INTVL OF MEAN	0.5900 +OR- 0.0189 P,TOTAL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR DSRD180
6-80	1				NOT DETERMINED
5-80	2	415	1.3		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	3	410	2.5		RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	5	440	4.7		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	6				NOT DETERMINED
6-80	7				NOT DETERMINED
5-80	8	647	53.9	REJECT	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	9				NOT DETERMINED
5-80	10	435	3.5		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	11				NOT DETERMINED
6-80	12				NOT DETERMINED
5-80	14	432	2.8		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-80	16				NOT DETERMINED
6-80	17	406	3.4		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	18	394	6.3		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	19	418	0.6		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	20				NOT DETERMINED
5-80	21				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	403	4.1		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	25				NOT DETERMINED
5-80	26	397	5.5		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	27	450	7.1		RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	28				NOT DETERMINED
6-80	29	405	3.6		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	30	432	2.8		RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	31	414	1.5		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	32	456	8.5		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	33	443	5.4		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	34	424	0.9		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	35	412	2.0		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
6-80	38				NOT DETERMINED
6-80	39	409	2.7		RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	40				NOT DETERMINED
5-80	41	338	19.6		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	42				NOT DETERMINED
5-80	43	438	4.2		RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR DSRD180
5-80	45	461	9.7	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	46	459	9.2	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-80	47			NOT DETERMINED
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	412	2.0	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	51	480	14.2	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	52			NOT DETERMINED
5-80	55	422	0.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	56			NOT DETERMINED
5-80	57			NOT DETERMINED
6-80	58	411	2.2	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	59	404	3.9	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62	410	2.5	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-80	63	372	11.5	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-80	65	425	1.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-80	66			NOT DETERMINED
5-80	67	406	3.4	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888
5-80	68	503	19.7	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-80	69	405	3.6	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	72	407	3.2	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	74	399	5.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-80	75			NOT DETERMINED
5-80	76	416	1.0	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888
5-80	77	409	2.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED

TOTAL RANGE 338.0000 - 647.0000 SAMPLE 72

MEAN	420.3157	AVERAGE DEVIATION	20.8033		
STANDARD DEVIATION	28.7845	95 PCT.CONF.INTVL OF MEAN	420.3157 +OR-	9.4370	DSRD180

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR SP.COND
6-80	1				NOT DETERMINED
5-80	2	650	0.0		DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-80	3	660	1.6		WHEATSTONE BRIDGE
5-80	5	657	1.1		WHEATSTONE BRIDGE
6-80	6	700	7.7		DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-80	7	650	0.0		DIRECT READING INSTRUMENT
5-80	8	630	3.0		WHEATSTONE BRIDGE
5-80	9	9240	*****	REJECT	WHEATSTONE BRIDGE
5-80	10	664	2.2		WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
6-80	11	660	1.6		DIRECT READING INSTRUMENT
6-80	12				NOT DETERMINED
5-80	14	680	4.6		WHEATSTONE BRIDGE
6-80	16	600	7.7		DIRECT READING INSTRUMENT
6-80	17	642	1.2		DIRECT READING INSTRUMENT
6-80	18				NOT DETERMINED
5-80	19	655	0.8		WHEATSTONE BRIDGE
5-80	20				NOT DETERMINED
5-80	21	560	13.8		DIRECT READING INSTRUMENT
6-80	23				NOT DETERMINED
6-80	24	660	1.6		DIRECT READING INSTRUMENT
6-80	25	530	18.4		OTHER
5-80	26	653	0.5		DIRECT READING INSTRUMENT
6-80	27	680	4.6		DIRECT READING INSTRUMENT
5-80	28				NOT DETERMINED
6-80	29	670	3.1		WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
5-80	30	620	4.6		DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-80	31	483	25.7	REJECT	DIRECT READING INSTRUMENT
6-80	32	665	2.3		WHEATSTONE BRIDGE
5-80	33	626	3.7		WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
5-80	34	147	77.4	REJECT	DIRECT READING INSTRUMENT
6-80	35	656	1.0		WHEATSTONE BRIDGE
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
6-80	38				NOT DETERMINED
6-80	39	648	0.3		OTHER
5-80	40				NOT DETERMINED
5-80	41	695	7.0		DIRECT READING INSTRUMENT
6-80	42				NOT DETERMINED
5-80	43	655	0.8		WHEATSTONE BRIDGE
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SP.COND
5-80	45	710	9.3	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-80	46	710	9.3	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-80	47	630	3.0	WHEATSTONE BRIDGE
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	702	8.0	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-80	51	686	5.6	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-80	52			NOT DETERMINED
5-80	55			NOT DETERMINED
6-80	56			NOT DETERMINED
5-80	57	680	4.6	WHEATSTONE BRIDGE
6-80	58	620	4.6	DIRECT READING INSTRUMENT
5-80	59	690	6.2	DIRECT READING INSTRUMENT
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	545	16.1	DIRECT READING INSTRUMENT
6-80	65	650	0.0	DIRECT READING INSTRUMENT
6-80	66	611	6.0	WHEATSTONE BRIDGE
5-80	67	610	6.1	WHEATSTONE BRIDGE
5-80	68			NOT DETERMINED
6-80	69	694	6.8	DIRECT READING INSTRUMENT
5-80	72	648	0.3	DIRECT READING INSTRUMENT
5-80	74	677	4.2	WHEATSTONE BRIDGE
5-80	75			NOT DETERMINED
5-80	76	609	6.3	DIRECT READING INSTRUMENT
5-80	77	654	0.6	DIRECT READING INSTRUMENT

TOTAL RANGE 147.0000 - 9240.0000 SAMPLE 72

MEAN	649.8093	AVERAGE DEVIATION	29.4354		
STANDARD DEVIATION	40.7384	95 PCT.CONF.INTVL OF MEAN	649.8093 +OR-	12.6601	SP.COND

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR PH
6-80	1				NOT DETERMINED
5-80	2	8.0	0.1		ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	3	8.4	5.1		ELECTROMETRIC
5-80	5	7.9	1.2		ELECTROMETRIC
6-80	6	7.5	6.2		ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-80	7	7.9	1.2		ELECTROMETRIC
5-80	8	1.9	76.2	REJECT	ELECTROMETRIC
5-80	9				NOT DETERMINED
5-80	10	8.1	1.3		ELECTROMETRIC
6-80	11	7.8	2.4		ELECTROMETRIC
6-80	12				NOT DETERMINED
5-80	14	7.9	1.2		ELECTROMETRIC
6-80	16	8.2	2.6		ELECTROMETRIC
6-80	17	8.3	3.8		ELECTROMETRIC
6-80	18	8.3	3.8		ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	19	8.2	2.6		ELECTROMETRIC
5-80	20				NOT DETERMINED
5-80	21	7.2	10.0	REJECT	ELECTROMETRIC
6-80	23				NOT DETERMINED
6-80	24	7.5	6.2		ELECTROMETRIC
6-80	25	7.8	2.4		OTHER
5-80	26	8.1	1.3		ELECTROMETRIC
6-80	27	8.0	0.1		ELECTROMETRIC
5-80	28				NOT DETERMINED
6-80	29	8.0	0.1		ELECTROMETRIC
5-80	30	8.0	0.1		ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	31	7.6	5.0		ELECTROMETRIC
6-80	32	8.0	0.1		ELECTROMETRIC
5-80	33	8.3	3.8		ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	34	7.7	3.7		ELECTROMETRIC
6-80	35	7.9	1.2		ELECTROMETRIC
6-80	36	8.0	0.1		ELECTROMETRIC
5-80	37	8.0	0.1		ELECTROMETRIC
6-80	38				NOT DETERMINED
6-80	39	8.2	2.6		OTHER
5-80	40				NOT DETERMINED
5-80	41	8.0	0.1		ELECTROMETRIC
6-80	42				NOT DETERMINED
5-80	43	8.2	2.6		ELECTROMETRIC
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PH
5-80	45	8.0	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	46	8.0	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-80	47	8.0	0.1	OTHER
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	8.2	2.6	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	51	7.8	2.4	ELECTROMETRIC
6-80	52			NOT DETERMINED
5-80	55	7.9	1.2	ELECTROMETRIC
6-80	56			NOT DETERMINED
5-80	57	7.9	1.2	ELECTROMETRIC
6-80	58	8.0	0.1	ELECTROMETRIC
5-80	59	8.1	1.3	ELECTROMETRIC
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62	8.0	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-80	63	8.2	2.6	ELECTROMETRIC
6-80	65	8.4	5.1	ELECTROMETRIC
6-80	66	7.6	5.0	ELECTROMETRIC
5-80	67	8.2	2.6	ELECTROMETRIC
5-80	68	8.0	0.1	ELECTROMETRIC
6-80	69	8.1	1.3	ELECTROMETRIC
5-80	72	8.0	0.1	ELECTROMETRIC
5-80	74	8.0	0.1	ELECTROMETRIC
5-80	75			NOT DETERMINED
5-80	76	7.7	3.7	ELECTROMETRIC
5-80	77	7.9	1.2	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1

TOTAL RANGE	1.9000 - 8.4000					SAMPLE 72
MEAN	7.9958	AVERAGE DEVIATION	0.1514			
STANDARD DEVIATION	0.2113	95 PCT.CONF.INTVL OF MEAN	7.9958	+OR-	0.0613	PH

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR B
6-80	1				NOT DETERMINED
5-80	2				NOT DETERMINED
5-80	3	900	49.8	REJECT	CARMINE, APHA STD METH, 14ED
5-80	5	580	3.4		TECHNICON AUTOANALYZER, CARMINIC ACID
6-80	6				NOT DETERMINED
6-80	7	540	10.1		EMISSION-PLASMA ICP
5-80	8				NOT DETERMINED
5-80	9				NOT DETERMINED
5-80	10				NOT DETERMINED
6-80	11				NOT DETERMINED
6-80	12				NOT DETERMINED
5-80	14	570	5.1		OTHER
6-80	16				NOT DETERMINED
6-80	17				NOT DETERMINED
6-80	18				NOT DETERMINED
5-80	19				NOT DETERMINED
5-80	20				NOT DETERMINED
5-80	21				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	560	6.8		EMISSION-PLASMA ICP
6-80	25				NOT DETERMINED
5-80	26				NOT DETERMINED
6-80	27	520	13.4		CURCUMIN, APHA STD METH, 14ED
5-80	28				NOT DETERMINED
6-80	29	700	16.5		CURCUMIN, APHA STD METH, 14ED
5-80	30				NOT DETERMINED
5-80	31				NOT DETERMINED
6-80	32				NOT DETERMINED
5-80	33	550	8.4		EMISSION-PLASMA ICP
5-80	34				NOT DETERMINED
6-80	35	670	11.5		CURCUMIN, APHA STD METH, 14ED
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
6-80	38				NOT DETERMINED
6-80	39	560	6.8		DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1
5-80	40				NOT DETERMINED
5-80	41				NOT DETERMINED
6-80	42				NOT DETERMINED
5-80	43	640	6.5		TECHNICON AUTOANALYZER, CARMINIC ACID
6-80	44				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR B
5-80	45			NOT DETERMINED
5-80	46			NOT DETERMINED
6-80	47			NOT DETERMINED
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	590	1.8	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1
5-80	51	620	3.2	CURCUMIN, I-1112, USGS TWRI BK5 CH A1
6-80	52			NOT DETERMINED
5-80	55			NOT DETERMINED
6-80	56			NOT DETERMINED
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59	2200	266.3	REJECT CURCUMIN, APHA STD METH, 14ED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	560	6.8	EMISSION-PLASMA ICP
6-80	65	690	14.9	CURCUMIN, APHA STD METH, 14ED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72			NOT DETERMINED
5-80	74			NOT DETERMINED
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77	660	9.9	CURCUMIN, APHA STD METH, 14ED

TOTAL RANGE	520.0000 - 2200.0000					SAMPLE 72
MEAN	600.6665	AVERAGE DEVIATION	50.1333			
STANDARD DEVIATION	58.1214	95 PCT.CONF.INTVL OF MEAN	600.6665 +OR-	32.1897	B	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
6-80	1	430	3.9	EMISSION PLASMA ICP
5-80	2	480	7.3	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7	450	0.6	EMISSION PLASMA ICP
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
5-80	10			NOT DETERMINED
6-80	11			NOT DETERMINED
6-80	12			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18			NOT DETERMINED
5-80	19			NOT DETERMINED
5-80	20			NOT DETERMINED
5-80	21			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24	460	2.8	EMISSION PLASMA ICP
6-80	25			NOT DETERMINED
5-80	26	420	6.1	ATOMIC ABS-DIRECT
6-80	27			NOT DETERMINED
5-80	28			NOT DETERMINED
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33	450	0.6	EMISSION PLASMA ICP
5-80	34			NOT DETERMINED
6-80	35	450	0.6	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37			NOT DETERMINED
6-80	38	470	5.0	EMISSION PLASMA ICP
6-80	39	420	6.1	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	40			NOT DETERMINED
5-80	41			NOT DETERMINED
6-80	42			NOT DETERMINED
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
5-80	45	500	11.7	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	46	490	9.5	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
6-80	47			NOT DETERMINED
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	400	10.6	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	51	400	10.6	ATOMIC ABS-DIRECT
6-80	52			NOT DETERMINED
5-80	55			NOT DETERMINED
6-80	56			NOT DETERMINED
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60	480	7.3	EMISSION PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72			NOT DETERMINED
5-80	74			NOT DETERMINED
5-80	75	440	1.7	EMISSION PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	420	6.1	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1

TOTAL RANGE	400.0000 - 500.0000				SAMPLE 72
MEAN	447.5000	AVERAGE DEVIATION	25.3125		
STANDARD DEVIATION	31.0913	95 PCT.CONF.INTVL OF MEAN	447.5000 +OR-	16.5639	SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR V
6-80	1			NOT DETERMINED
5-80	2			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7			NOT DETERMINED
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
5-80	10			NOT DETERMINED
6-80	11			NOT DETERMINED
6-80	12			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18	27	102.5	ATOMIC ASB-FLAMELESS
5-80	19			NOT DETERMINED
5-80	20			NOT DETERMINED
5-80	21			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24	7	47.5	EMISSION-PLASMA ICP
6-80	25			NOT DETERMINED
5-80	26			NOT DETERMINED
6-80	27			NOT DETERMINED
5-80	28			NOT DETERMINED
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33	7	47.5	EMISSION-PLASMA ICP
5-80	34			NOT DETERMINED
6-80	35			NOT DETERMINED
6-80	36			NOT DETERMINED
5-80	37			NOT DETERMINED
6-80	38			NOT DETERMINED
6-80	39	6	55.0	EMISSION-PLASMA ICP
5-80	40			NOT DETERMINED
5-80	41			NOT DETERMINED
6-80	42			NOT DETERMINED
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR V
5-80	45			NOT DETERMINED
5-80	46			NOT DETERMINED
6-80	47			NOT DETERMINED
5-80	48			NOT DETERMINED
5-80	49			NOT DETERMINED
5-80	50	5	62.5	GALLIC ACID, APHA STD METH, 14ED
5-80	51	28	110.0	ATOMIC ASB-FLAMELESS
6-80	52			NOT DETERMINED
5-80	55			NOT DETERMINED
6-80	56			NOT DETERMINED
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72			NOT DETERMINED
5-80	74			NOT DETERMINED
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	5.0000 - 28.0000				SAMPLE 72
MEAN	13.3333	AVERAGE DEVIATION	9.4444		
STANDARD DEVIATION	11.0030	95 PCT.CONF.INTVL OF MEAN	13.3333 +OR-	11.5488	V

DETERMINATION	NO.LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN 95 PCT. CI	X +OR- STD	X +OR- 2STD
SIO2	42	7	36	72	95
CA	60	5	37	75	93
MG	60	10	0	76	96
NA	59	0	19	73	97
K	54	4	19	85	90
ALK.	55	15	26	70	96
SO4	54	4	42	67	94
CL	56	4	19	74	98
F	48	2	60	60	96
NO2-N	33	3	56	56	91
NO3-N	49	2	31	73	94
P,TOTAL	33	3	31	72	91
DSRD180	39	3	26	79	92
SP.COND	45	7	36	74	93
PH	50	4	33	77	96
B	17	12	27	60	100
SR	16	0	31	63	100
V	6	0	67	67	100

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AL
6-80	1			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7	920	196.8	ATOMIC ABS-FLAMELESS
5-80	8			NOT DETERMINED
5-80	9	160	48.4	ATOMIC ABS-FLAMELESS
6-80	11			NOT DETERMINED
5-80	13			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17	140	54.8	ATOMIC ABS-FLAMELESS
6-80	18	360	16.1	ATOMIC ABS-FLAMELESS
5-80	19	650	109.7	ATOMIC ABS-FLAMELESS
6-80	23			NOT DETERMINED
6-80	24			NOT DETERMINED
6-80	25	750	141.9	ATOMIC ABS-DIRECT
5-80	26	120	61.3	ATOMIC ABS-CHELATION/EXTRACTION, APHA STD METH, 14ED
6-80	27	90	71.0	EMISSION PLASMA ICP
6-80	29	100	67.7	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34			NOT DETERMINED
6-80	35	130	58.1	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37	170	45.2	ATOMIC ABS-DIRECT
5-80	38			NOT DETERMINED
6-80	39	120	61.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1052, USGS PROVISIONAL
5-80	41	110	64.5	ATOMIC ABS-DIRECT
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	220	29.0	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1
5-80	46	190	38.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1
6-80	47	170	45.2	ATOMIC ABS-FLAMELESS
5-80	50	130	58.1	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1
5-80	51	90	71.0	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AL
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60	200	35.5	EMISSION PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	1100	254.8	EMISSION PLASMA ICP
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68	1000	222.6	ATOMIC ABS-FLAMELESS
6-80	69			NOT DETERMINED
5-80	72	350	12.9	ATOMIC ABS-DIRECT
5-80	74	70	77.4	OTHER
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77	100	67.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1

TOTAL RANGE	70.0000 - 1100.0000					SAMPLE 73
MEAN	310.0000	AVERAGE DEVIATION	246.6667			
STANDARD DEVIATION	318.3108	95 PCT.CONF.INTVL OF MEAN	310.0000	+OR-	134.4331	AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR FE
6-80	1	120	11.6	EMISSION-PLASMA ICP
5-80	3	230	69.4	ATOMIC ABS-DIRECT
5-80	5	130	4.3	ATOMIC ABS-DIRECT, EPA
6-80	6	20	85.3	PHENANTHROLINE, APHA STD METH, 14ED
6-80	7			NOT DETERMINED
5-80	8	200	47.3	ATOMIC ABS-DIRECT, EPA
5-80	9	120	11.6	ATOMIC ABS-DIRECT, EPA
6-80	11			NOT DETERMINED
5-80	13	160	17.8	ATOMIC ABS-DIRECT
5-80	14	110	19.0	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-80	16			NOT DETERMINED
6-80	17	110	19.0	EMISSION-PLASMA ICP
6-80	18			NOT DETERMINED
5-80	19	150	10.5	ATOMIC ABS-FLAMELESS
6-80	23	170	25.2	ATOMIC ABS-DIRECT
6-80	24	130	4.3	EMISSION-PLASMA ICP
6-80	25	160	17.8	ATOMIC ABS-DIRECT
5-80	26	150	10.5	ATOMIC ABS-DIRECT, EPA
6-80	27	120	11.6	ATOMIC ABS-DIRECT
6-80	29	150	10.5	ATOMIC ABS-DIRECT
5-80	30	140	3.1	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-80	31	150	10.5	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-80	32	130	4.3	ATOMIC ABS-DIRECT
5-80	33	110	19.0	EMISSION-PLASMA ICP
5-80	34	80	41.1	ATOMIC ABS-FLAMELESS
6-80	35	130	4.3	ATOMIC ABS-DIRECT, EPA
6-80	36	120	11.6	ATOMIC ABS-DIRECT
5-80	37	170	25.2	ATOMIC ABS-DIRECT, EPA
5-80	38	140	3.1	EMISSION-PLASMA ICP
6-80	39	140	3.1	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-80	41	130	4.3	ATOMIC ABS-DIRECT
5-80	43	130	4.3	ATOMIC ABS-DIRECT
6-80	44	130	4.3	ATOMIC ABS-DIRECT
5-80	45	140	3.1	BIPYRIDINE,AUTO, I-2379, USGS TWRI BK5 CH A1
5-80	46	140	3.1	BIPYRIDINE,AUTO, I-2379, USGS TWRI BK5 CH A1
6-80	47	100	26.4	ATOMIC ABS-DIRECT, EPA
5-80	50	130	4.3	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-80	51	210	54.6	ATOMIC ABS-FLAMELESS
6-80	54	120	11.6	ATOMIC ABS-DIRECT
5-80	55	90	33.7	ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR FE
5-80	57	100	26.4	ATOMIC ABS-DIRECT
6-80	58	140	3.1	ATOMIC ABS-DIRECT
5-80	59	90	33.7	ATOMIC ABS-DIRECT, EPA
5-80	60	130	4.3	EMISSION-PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62	50	63.2	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-80	63	170	25.2	EMISSION-PLASMA ICP
6-80	65	170	25.2	ATOMIC ABS-DIRECT
6-80	66	150	10.5	ATOMIC ABS-DIRECT
5-80	67	120	11.6	PHENANTHROLINE, APHA STD METH, 14ED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	140	3.1	ATOMIC ABS-DIRECT
5-80	74	210	54.6	ATOMIC ABS-DIRECT, EPA
5-80	75	130	4.3	EMISSION-PLASMA ICP
5-80	76	210	54.6	PHENANTHROLINE, APHA STD METH, 14ED
5-80	77	120	11.6	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1

TOTAL RANGE	20.0000 - 230.0000				SAMPLE 73
MEAN	135.8000	AVERAGE DEVIATION	26.6639		
STANDARD DEVIATION	38.1238	95 PCT.CONF.INTVL OF MEAN	135.8000 +OR-	10.8262	FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR MN
6-80	1	350	2.1		EMISSION-PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5	350	2.1		ATOMIC ABS-DIRECT, EPA
6-80	6	50	85.4	REJECT	ATOMIC ABS-FLAMELESS
6-80	7	530	54.7	REJECT	ATOMIC ABS-FLAMELESS
5-80	8	350	2.1		ATOMIC ABS-DIRECT
5-80	9	350	2.1		ATOMIC ABS-DIRECT
6-80	11				NOT DETERMINED
5-80	13	330	3.7		ATOMIC ABS-DIRECT, EPA
5-80	14	330	3.7		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-80	16				NOT DETERMINED
6-80	17	370	8.0		EMISSION-PLASMA ICP
6-80	18	350	2.1		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	19	360	5.1		ATOMIC ABS-DIRECT
6-80	23	360	5.1		ATOMIC ABS-DIRECT
6-80	24	340	0.8		EMISSION-PLASMA ICP
6-80	25	310	9.5		ATOMIC ABS-DIRECT
5-80	26	360	5.1		ATOMIC ABS-DIRECT, EPA
6-80	27	320	6.6		ATOMIC ABS-DIRECT
6-80	29	340	0.8		ATOMIC ABS-DIRECT
5-80	30	340	0.8		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	31	320	6.6		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-80	32	360	5.1		ATOMIC ABS-DIRECT
5-80	33	340	0.8		EMISSION-PLASMA ICP
5-80	34	420	22.6		ATOMIC ABS-FLAMELESS
6-80	35	320	6.6		ATOMIC ABS-DIRECT, EPA
6-80	36	340	0.8		ATOMIC ABS-DIRECT
5-80	37	340	0.8		ATOMIC ABS-DIRECT, EPA
5-80	38	350	2.1		EMISSION-PLASMA ICP
6-80	39	310	9.5		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	41	300	12.4		ATOMIC ABS-DIRECT, EPA
5-80	43	350	2.1		ATOMIC ABS-DIRECT
6-80	44	360	5.1		ATOMIC ABS-DIRECT
5-80	45	400	16.7		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	46	390	13.8		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-80	47	360	5.1		ATOMIC ABS-DIRECT, EPA
5-80	50	340	0.8		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	51	340	0.8		ATOMIC ABS-DIRECT
6-80	54	310	9.5		ATOMIC ABS-FLAMELESS
5-80	55	330	3.7		ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR MN
5-80	57	390	13.8		ATOMIC ABS-DIRECT
6-80	58	340	0.8		ATOMIC ABS-DIRECT
5-80	59	310	9.5		ATOMIC ABS-DIRECT, EPA
5-80	60	330	3.7		ATOMIC ABS-DIRECT
5-80	61			NOT DETERMINED	
5-80	62	300	12.4		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-80	63	360	5.1		EMISSION-PLASMA ICP
6-80	65	280	18.3		ATOMIC ABS-DIRECT
6-80	66	370	8.0		ATOMIC ABS-DIRECT
5-80	67	350	2.1		ATOMIC ABS-DIRECT
5-80	68	370	8.0		ATOMIC ABS-DIRECT
6-80	69	200	41.6	REJECT	ATOMIC ABS-DIRECT, EPA
5-80	72	360	5.1		ATOMIC ABS-DIRECT
5-80	74	300	12.4		ATOMIC ABS-DIRECT, EPA
5-80	75	330	3.7		EMISSION-PLASMA ICP
5-80	76	500	45.9	REJECT	ATOMIC ABS-DIRECT
5-80	77	310	9.5		ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1

TOTAL RANGE	50.0000 - 530.0000				SAMPLE 73
MEAN	342.6528	AVERAGE DEVIATION	20.7747		
STANDARD DEVIATION	27.3690	95 PCT.CONF.INTVL OF MEAN	342.6528 +OR-	7.8510	MN

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SB
6-80	1			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7			NOT DETERMINED
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
6-80	11			NOT DETERMINED
5-80	13			NOT DETERMINED
5-80	14	1	40.0	ATOMIC ABS-FLAMELESS
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18			NOT DETERMINED
5-80	19			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24			NOT DETERMINED
6-80	25			NOT DETERMINED
5-80	26	3	80.0	ATOMIC ABS-FLAMELESS
6-80	27	3	80.0	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34			NOT DETERMINED
6-80	35			NOT DETERMINED
6-80	36			NOT DETERMINED
5-80	37	91	*****	REJECT OTHER
5-80	38			NOT DETERMINED
6-80	39	1	40.0	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BK5 CH A1
5-80	41			NOT DETERMINED
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45			NOT DETERMINED
5-80	46			NOT DETERMINED
6-80	47			NOT DETERMINED
5-80	50	2	20.0	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BK5 CH A1
5-80	51	0	100.0	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SB
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72			NOT DETERMINED
5-80	74			NOT DETERMINED
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	0.0	-	91.0000				SAMPLE 73
MEAN	1.6667		AVERAGE DEVIATION	1.0000			
STANDARD DEVIATION	1.2111		95 PCT.CONF.INTVL OF MEAN	1.6667	+OR-	1.2711	SB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AS
6-80	1			NOT DETERMINED
5-80	3	42	13.6	ATOMIC ABS-FLAMELESS
5-80	5			NOT DETERMINED
6-80	6	20	45.9	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	7			NOT DETERMINED
5-80	8	34	8.0	ATOMIC ABS-FLAMELESS
5-80	9	49	32.6	ATOMIC ABS-FLAMELESS
6-80	11	42	13.6	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED
5-80	13	24	35.1	ATOMIC ABS-FLAMELESS
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17	49	32.6	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	18			NOT DETERMINED
5-80	19	14	62.1	ATOMIC ABS-FLAMELESS
6-80	23	20	45.9	ATOMIC ABS-FLAMELESS
6-80	24	45	21.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	25			NOT DETERMINED
5-80	26	38	2.8	ATOMIC ABS-FLAMELESS
6-80	27	39	5.5	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
6-80	29	38	2.8	ATOMIC ABS-FLAMELESS
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34	59	59.6	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	35	32	13.4	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED
6-80	36	40	8.2	ATOMIC ABS-FLAMELESS
5-80	37	32	13.4	ATOMIC ABS-FLAMELESS
5-80	38			NOT DETERMINED
6-80	39	46	24.4	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
5-80	41	31	16.1	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	34	8.0	ATOMIC ABS-HYDRIDE, I-1062, USGS TWRI BK5 CH A1
5-80	46	34	8.0	ATOMIC ABS-HYDRIDE, I-1062, USGS TWRI BK5 CH A1
6-80	47	28	24.3	ATOMIC ABS-FLAMELESS
5-80	50	34	8.0	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
5-80	51	43	16.3	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55	15	59.4	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AS
5-80	57			NOT DETERMINED
6-80	58	30	18.8	ATOMIC ABS-FLAMELESS
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	58	56.9	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67	42	13.6	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
5-80	68			NOT DETERMINED
6-80	69	45	21.7	ATOMIC ABS-FLAMELESS
5-80	72			NOT DETERMINED
5-80	74	52	40.7	OTHER
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	14.0000 - 59.0000					SAMPLE 73
MEAN	36.9667	AVERAGE DEVIATION	9.0355			
STANDARD DEVIATION	11.4244	95 PCT.CONF.INTVL OF MEAN	36.9667 +OR-	4.2654		AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BA
6-80	1	160	20.1	EMISSION PLASMA ICP
5-80	3	170	15.1	ATOMIC ABS-DIRECT
5-80	5	190	5.2	ATOMIC ABS-DIRECT
6-80	6			NOT DETERMINED
6-80	7			NOT DETERMINED
5-80	8	340	69.7	ATOMIC ABS-DIRECT
5-80	9	10	95.0	ATOMIC ABS-FLAMELESS
6-80	11			NOT DETERMINED
5-80	13	80	60.1	ATOMIC ABS-DIRECT
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17	160	20.1	EMISSION PLASMA ICP
6-80	18			NOT DETERMINED
5-80	19	200	0.2	ATOMIC ABS-FLAMELESS
6-80	23			NOT DETERMINED
6-80	24	170	15.1	EMISSION PLASMA ICP
6-80	25	240	19.8	ATOMIC ABS-DIRECT
5-80	26	260	29.8	ATOMIC ABS-DIRECT
6-80	27	160	20.1	EMISSION PLASMA ICP
6-80	29	300	49.8	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34	160	20.1	ATOMIC ABS-FLAMELESS
6-80	35	230	14.8	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37	200	0.2	ATOMIC ABS-DIRECT
5-80	38	170	15.1	EMISSION PLASMA ICP
6-80	39	200	0.2	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
5-80	41	140	30.1	EMISSION-FLAME
5-80	43	150	25.1	ATOMIC ABS-DIRECT
6-80	44			NOT DETERMINED
5-80	45	430	114.7	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
5-80	46	430	114.7	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
6-80	47			NOT DETERMINED
5-80	50	200	0.2	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
5-80	51	250	24.8	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55	250	24.8	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BA
5-80	57			NOT DETERMINED
6-80	58	160	20.1	ATOMIC ABS-DIRECT
5-80	59			NOT DETERMINED
5-80	60	170	15.1	EMISSION PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	180	10.1	ATOMIC ABS-FLAMELESS
5-80	74	150	25.1	ATOMIC ABS-DIRECT
5-80	75	150	25.1	EMISSION PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	150	25.1	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1

TOTAL RANGE	10.0000 - 430.0000					SAMPLE 73
MEAN	200.3226	AVERAGE DEVIATION	59.8126			
STANDARD DEVIATION	86.1580	95 PCT.CONF.INTVL OF MEAN	200.3226	+OR-	31.5988	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR BE
6-80	1	17	17.1		EMISSION-PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5				NOT DETERMINED
6-80	6				NOT DETERMINED
6-80	7				NOT DETERMINED
5-80	8				NOT DETERMINED
5-80	9				NOT DETERMINED
6-80	11				NOT DETERMINED
5-80	13				NOT DETERMINED
5-80	14				NOT DETERMINED
6-80	16				NOT DETERMINED
6-80	17	37	80.5	REJECT	ATOMIC ABS-FLAMELESS
6-80	18				NOT DETERMINED
5-80	19				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	21	2.4		EMISSION-PLASMA ICP
6-80	25				NOT DETERMINED
5-80	26	27	31.7		ATOMIC ABS-FLAMELESS
6-80	27	18	12.2		ATOMIC ABS-DIRECT
6-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31				NOT DETERMINED
6-80	32				NOT DETERMINED
5-80	33				NOT DETERMINED
5-80	34				NOT DETERMINED
6-80	35	19	7.3		ATOMIC ABS-DIRECT
6-80	36				NOT DETERMINED
5-80	37	17	17.1		ATOMIC ABS-DIRECT
5-80	38	20	2.4		EMISSION-PLASMA ICP
6-80	39	20	2.4		ATOMIC ABS-DIRECT, I-1095, TWRI 8K5 CH A1
5-80	41	20	2.4		ATOMIC ABS-DIRECT
5-80	43				NOT DETERMINED
6-80	44				NOT DETERMINED
5-80	45				NOT DETERMINED
5-80	46				NOT DETERMINED
6-80	47				NOT DETERMINED
5-80	50	20	2.4		ATOMIC ABS-DIRECT, I-1095, TWRI 8K5 CH A1
5-80	51	22	7.3		ATOMIC ABS-FLAMELESS
6-80	54				NOT DETERMINED
5-80	55				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BE
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60	25	22.0	EMISSION-PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	22	7.3	ATOMIC ABS-FLAMELESS
5-80	74			NOT DETERMINED
5-80	75	19	7.3	EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	17.0000 - 37.0000					SAMPLE 73
MEAN	20.5000	AVERAGE DEVIATION	2.0714			
STANDARD DEVIATION	2.8216	95 PCT.CONF.INTVL OF MEAN	20.5000	+OR-	1.6289	BE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CD
6-80	1	18	16.2		EMISSION-PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5	14	9.6		ATOMIC ABS-DIRECT
6-80	6	16	3.3		ATOMIC ABS-FLAMELESS
6-80	7	36	132.4	REJECT	ATOMIC ABS-FLAMELESS
5-80	8	28	80.8	REJECT	ATOMIC ABS-FLAMELESS
5-80	9	8	48.4		ATOMIC ABS-FLAMELESS
6-80	11	22	42.0		ATOMIC ABS-FLAMELESS
5-80	13	18	16.2		ATOMIC ABS-DIRECT, EPA
5-80	14	13	16.1		ATOMIC ABS-FLAMELESS
6-80	16	15	3.2		ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1
6-80	17	19	22.7		ATOMIC ABS-FLAMELESS
6-80	18	20	29.1		ATOMIC ABS-FLAMELESS
5-80	19	17	9.8		ATOMIC ABS-FLAMELESS
6-80	23	18	16.2		ATOMIC ABS-DIRECT
6-80	24	16	3.3		EMISSION-PLASMA ICP
6-80	25	20	29.1		ATOMIC ABS-DIRECT
5-80	26	20	29.1		ATOMIC ABS-DIRECT
6-80	27	17	9.8		OTHER
6-80	29	16	3.3		ATOMIC ABS-FLAMELESS
5-80	30				NOT DETERMINED
5-80	31	17	9.8		ATOMIC ABS-DIRECT
6-80	32				NOT DETERMINED
5-80	33	7	54.8		EMISSION-PLASMA ICP
5-80	34	10	35.4		ATOMIC ABS-FLAMELESS
6-80	35	18	16.2		ATOMIC ABS-DIRECT, EPA
6-80	36	15	3.2		ATOMIC ABS-FLAMELESS
5-80	37	19	22.7		ATOMIC ABS-DIRECT, EPA
5-80	38	20	29.1		EMISSION-PLASMA ICP
6-80	39	16	3.3		ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1
5-80	41	14	9.6		ATOMIC ABS-DIRECT, EPA
5-80	43	12	22.5		ATOMIC ABS-DIRECT
6-80	44				NOT DETERMINED
5-80	45	14	9.6		ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1
5-80	46	13	16.1		ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1
6-80	47	13	16.1		ATOMIC ABS-FLAMELESS
5-80	50	16	3.3		ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1
5-80	51	14	9.6		ATOMIC ABS-FLAMELESS
6-80	54				NOT DETERMINED
5-80	55	20	29.1		ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CD
5-80	57	10	35.4	ATOMIC ABS-DIRECT
6-80	58	9	41.9	ATOMIC ABS-FLAMELESS
5-80	59	10	35.4	ATOMIC ABS-DIRECT, EPA
5-80	60	19	22.7	ATOMIC ABS-FLAMELESS
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	14	9.6	EMISSION-PLASMA ICP
6-80	65			NOT DETERMINED
6-80	66	18	16.2	ATOMIC ABS-DIRECT
5-80	67	18	16.2	ATOMIC ABS-DIRECT
5-80	68			NOT DETERMINED
6-80	69	10	35.4	ATOMIC ABS-DIRECT, EPA
5-80	72	16	3.3	ATOMIC ABS-FLAMELESS
5-80	74	15	3.2	ATOMIC ABS-CHELATION/EXTRACTION, EPA
5-80	75	16	3.3	EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	17	9.8	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1

TOTAL RANGE	7.0000 -	30.0000				SAMPLE 73
MEAN	15.4889	AVERAGE DEVIATION	2.8573			
STANDARD DEVIATION	3.5778	95 PCT.CONF.INTVL OF MEAN	15.4889	+OR-	1.0742	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CR TOT
6-80	1				NOT DETERMINED
5-80	3				NOT DETERMINED
5-80	5	6	19.3		ATOMIC ABS-DIRECT, EPA
6-80	6	10	34.5		ATOMIC ABS-FLAMELESS
6-80	7	8	7.6		ATOMIC ABS-FLAMELESS
5-80	8	31	316.8	REJECT	ATOMIC ABS-FLAMELESS
5-80	9				NOT DETERMINED
6-80	11	7	5.9		ATOMIC ABS-FLAMELESS
5-80	13	9	21.0		ATOMIC ABS-DIRECT, EPA
5-80	14	7	5.9		ATOMIC ABS-FLAMELESS
6-80	16				NOT DETERMINED
6-80	17	9	21.0		ATOMIC ABS-FLAMELESS
6-80	18				NOT DETERMINED
5-80	19	10	34.5		ATOMIC ABS-FLAMELESS
6-80	23	6	19.3		ATOMIC ABS-FLAMELESS
6-80	24	5	32.8		EMISSION-PLASMA ICP
6-80	25	10	34.5		ATOMIC ABS-DIRECT
5-80	26	14	88.2		ATOMIC ABS-DIRECT
6-80	27				NOT DETERMINED
6-80	29	10	34.5		ATOMIC ABS-DIRECT
5-80	30				NOT DETERMINED
5-80	31	11	47.9		ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
6-80	32				NOT DETERMINED
5-80	33	7	5.9		EMISSION-PLASMA ICP
5-80	34	3	59.7		ATOMIC ABS-FLAMELESS
6-80	35				NOT DETERMINED
6-80	36	3	59.7		ATOMIC ABS-DIRECT
5-80	37	0	100.0		ATOMIC ABS-DIRECT, EPA
5-80	38				NOT DETERMINED
6-80	39	7	5.9		ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
5-80	41	7	5.9		ATOMIC ABS-DIRECT, EPA
5-80	43	7	5.9		ATOMIC ABS-DIRECT
6-80	44				NOT DETERMINED
5-80	45	8	7.6		ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
5-80	46	8	7.6		ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
6-80	47				NOT DETERMINED
5-80	50	0	100.0		ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
5-80	51	6	19.3		ATOMIC ABS-FLAMELESS
6-80	54				NOT DETERMINED
5-80	55	7	5.9		ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CR TOT
5-80	57				NOT DETERMINED
6-80	58	7	5.9		ATOMIC ABS-FLAMELESS
5-80	59	59	693.3	REJECT	ATOMIC ABS-FLAMELESS
5-80	60				NOT DETERMINED
5-80	61				NOT DETERMINED
5-80	62				NOT DETERMINED
5-80	63				NOT DETERMINED
6-80	65	21	182.4	REJECT	ATOMIC ABS-DIRECT, EPA
6-80	66	10	34.5		ATOMIC ABS-DIRECT
5-80	67	20	168.9	REJECT	ATOMIC ABS-DIRECT
5-80	68				NOT DETERMINED
6-80	69	10	34.5		ATOMIC ABS-DIRECT, EPA
5-80	72	6	19.3		ATOMIC ABS-FLAMELESS
5-80	74	10	34.5		ATOMIC ABS-DIRECT
5-80	75				NOT DETERMINED
5-80	76				NOT DETERMINED
5-80	77	10	34.5		ATOMIC ABS-DIRECT

TOTAL RANGE 0.0 - 59.0000 SAMPLE 73

MEAN	7.4375	AVERAGE DEVIATION	2.2148		
STANDARD DEVIATION	3.0047	95 PCT.CONF.INTVL OF MEAN	7.4375 +OR-	1.0783	CR TOT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CO
6-80	1	11	32.1	EMISSION-PLASMA ICP
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6	21	29.5	ATOMIC ABS-FLAMELESS
6-80	7	13	19.8	ATOMIC ABS-FLAMELESS
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
6-80	11			NOT DETERMINED
5-80	13			NOT DETERMINED
5-80	14	16	1.3	ATOMIC ABS-FLAMELESS
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18			NOT DETERMINED
5-80	19			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24	13	19.8	EMISSION-PLASMA ICP
6-80	25			NOT DETERMINED
5-80	26	16	1.3	ATOMIC ABS-FLAMELESS
6-80	27	20	23.4	OTHER
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34			NOT DETERMINED
6-80	35	17	4.9	ATOMIC ABS-DIRECT, EPA
6-80	36			NOT DETERMINED
5-80	37	21	29.5	ATOMIC ABS-DIRECT, EPA
5-80	38	16	1.3	EMISSION-PLASMA ICP
6-80	39	14	13.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI 8K5 CH A1
5-80	41	20	23.4	ATOMIC ABS-DIRECT, EPA
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	14	13.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI 8K5 CH A1
5-80	46	13	19.8	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI 8K5 CH A1
6-80	47			NOT DETERMINED
5-80	50	15	7.5	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI 8K5 CH A1
5-80	51	15	7.5	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CO
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65	30	85.1	REJECT ATOMIC ABS-CHELATION/EXTRACTION, EPA
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68	18	11.0	ATOMIC ABS-FLAMELESS
6-80	69			NOT DETERMINED
5-80	72	18	11.0	ATOMIC ABS-FLAMELESS
5-80	74			NOT DETERMINED
5-80	75	17	4.9	EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	11.0000 - 30.0000					SAMPLE 73
MEAN	16.2105	AVERAGE DEVIATION	2.3490			
STANDARD DEVIATION	2.9170	95 PCT.CONF.INTVL OF MEAN	16.2105 +OR-	1.4060		CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CU
6-80	1	58	7.6		EMISSION-PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5	70	11.6		ATOMIC ABS-DIRECT
6-80	6	87	38.7		ATOMIC ABS-FLAMELESS
6-80	7	62	1.2		ATOMIC ABS-FLAMELESS
5-80	8	120	91.3	REJECT	ATOMIC ABS-DIRECT
5-80	9	60	4.4		ATOMIC ABS-DIRECT
6-80	11				NOT DETERMINED
5-80	13	75	19.5		ATOMIC ABS-DIRECT, EPA
5-80	14	56	10.7		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-80	16	60	4.4		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-80	17	80	27.5		EMISSION-PLASMA ICP
6-80	18				NOT DETERMINED
5-80	19	65	3.6		ATOMIC ABS-FLAMELESS
6-80	23	62	1.2		ATOMIC ABS-DIRECT
6-80	24	53	15.5		EMISSION-PLASMA ICP
6-80	25	70	11.6		ATOMIC ABS-DIRECT
5-80	26	52	17.1		ATOMIC ABS-DIRECT
6-80	27	48	23.5		ATOMIC ABS-DIRECT
6-80	29	70	11.6		ATOMIC ABS-DIRECT
5-80	30				NOT DETERMINED
5-80	31	60	4.4		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-80	32				NOT DETERMINED
5-80	33	60	4.4		EMISSION-PLASMA ICP
5-80	34	64	2.0		ATOMIC ABS-FLAMELESS
6-80	35	63	0.4		ATOMIC ABS-DIRECT, EPA
6-80	36	58	7.6		ATOMIC ABS-FLAMELESS
5-80	37	62	1.2		ATOMIC ABS-DIRECT, EPA
5-80	38	71	13.2		EMISSION-PLASMA ICP
6-80	39	60	4.4		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-80	41	59	6.0		ATOMIC ABS-DIRECT, EPA
5-80	43	60	4.4		ATOMIC ABS-DIRECT
6-80	44				NOT DETERMINED
5-80	45	70	11.6		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-80	46	70	11.6		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-80	47	58	7.6		ATOMIC ABS-FLAMELESS
5-80	50	50	20.3		ATOMIC ABS-CHELATION/EXTRACTION, I-1271, USGS TWRI BK5 CH A1
5-80	51	60	4.4		ATOMIC ABS-FLAMELESS
6-80	54	60	4.4		ATOMIC ABS-DIRECT
5-80	55	18	71.3	REJECT	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CU
5-80	57	50	20.3	ATOMIC ABS-DIRECT
6-80	58	70	11.6	ATOMIC ABS-DIRECT
5-80	59	60	4.4	ATOMIC ABS-DIRECT, EPA
5-80	60	67	6.8	ATOMIC ABS-DIRECT
5-80	61			NOT DETERMINED
5-80	62	50	20.3	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-80	63	65	3.6	EMISSION-PLASMA ICP
6-80	65	74	17.9	ATOMIC ABS-DIRECT
6-80	66	70	11.6	ATOMIC ABS-DIRECT
5-80	67	72	14.8	ATOMIC ABS-DIRECT
5-80	68	63	0.4	ATOMIC ABS-FLAMELESS
6-80	69	40	36.2	ATOMIC ABS-DIRECT, EPA
5-80	72	65	3.6	ATOMIC ABS-DIRECT
5-80	74	68	8.4	ATOMIC ABS-DIRECT
5-80	75	61	2.8	EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	61	2.8	ATOMIC ABS-DIRECT

TOTAL RANGE	18.0000 - 120.0000					SAMPLE 73
MEAN	62.7447	AVERAGE DEVIATION	6.4409			
STANDARD DEVIATION	8.5757	95 PCT.CONF.INTVL OF MEAN	62.7447	+OR-	2.5118	CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PB
6-80	1			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5	44	196.5	ATOMIC ABS-DIRECT
6-80	6	18	21.3	ATOMIC ABS-FLAMELESS
6-80	7	12	19.1	ATOMIC ABS-FLAMELESS
5-80	8	48	223.5	ATOMIC ABS-FLAMELESS
5-80	9	13	12.4	ATOMIC ABS-FLAMELESS
6-80	11	7	52.8	ATOMIC ABS-FLAMELESS
5-80	13	30	102.2	ATOMIC ABS-DIRECT
5-80	14	6	59.6	ATOMIC ABS-FLAMELESS
6-80	16	0	100.0	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1
6-80	17	7	52.8	ATOMIC ABS-FLAMELESS
6-80	18			NOT DETERMINED
5-80	19	4	73.0	ATOMIC ABS-FLAMELESS
6-80	23	25	68.5	ATOMIC ABS-FLAMELESS
6-80	24	4	73.0	ATOMIC ABS-DIRECT, EPA
6-80	25	21	41.5	ATOMIC ABS-DIRECT
5-80	26	2	86.5	ATOMIC ABS-FLAMELESS
6-80	27			NOT DETERMINED
6-80	29	54	263.9	ATOMIC ABS-FLAMELESS
5-80	30			NOT DETERMINED
5-80	31	39	162.8	ATOMIC ABS-DIRECT
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34	3	79.8	ATOMIC ABS-FLAMELESS
6-80	35			NOT DETERMINED
6-80	36	7	52.8	ATOMIC ABS-FLAMELESS
5-80	37			NOT DETERMINED
5-80	38	20	34.8	EMISSION-PLASMA ICP
6-80	39	3	79.8	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1
5-80	41	6	59.6	ATOMIC ABS-DIRECT, EPA
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	7	52.8	ATOMIC ABS-CHELATION/EXTRACTION, APHA STD METH, 14ED
5-80	46	7	52.8	ATOMIC ABS-CHELATION/EXTRACTION, APHA STD METH, 14ED
6-80	47			NOT DETERMINED
5-80	50	9	39.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1
5-80	51	5	66.3	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55	9	39.3	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR PB
5-80	57				NOT DETERMINED
6-80	58	6	59.6		ATOMIC ABS-FLAMELESS
5-80	59	0	100.0		ATOMIC ABS-FLAMELESS
5-80	60	6	59.6		ATOMIC ABS-FLAMELESS
5-80	61				NOT DETERMINED
5-80	62				NOT DETERMINED
5-80	63				NOT DETERMINED
6-80	65	70	371.8	REJECT	ATOMIC ABS-CHELATION/EXTRACTION, EPA
6-80	66				NOT DETERMINED
5-80	67	30	102.2		ATOMIC ABS-DIRECT
5-80	68	3	79.8		ATOMIC ABS-FLAMELESS
6-80	69	4	73.0		ANODIC STRIPPING VOLTAMMETRY
5-80	72	5	66.3		ATOMIC ABS-FLAMELESS
5-80	74	5	66.3		ATOMIC ABS-CHELATION/EXTRACTION, EPA
5-80	75	50	237.0		EMISSION-PLASMA ICP
5-80	76				NOT DETERMINED
5-80	77	30	102.2		ATOMIC ABS-DIRECT

TOTAL RANGE	0.0	- 70.0000				SAMPLE 73
MEAN	14.8378	AVERAGE DEVIATION	12.4835			
STANDARD DEVIATION	15.4011	95 PCT.CONF.INTVL OF MEAN	14.8378	+OR-	5.1170	PB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR LI
6-80	1	250	1.0		EMISSION PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5				NOT DETERMINED
6-80	6				NOT DETERMINED
6-80	7	430	73.7	REJECT	ATOMIC ABS-FLAMELESS
5-80	8				NOT DETERMINED
5-80	9				NOT DETERMINED
6-80	11				NOT DETERMINED
5-80	13				NOT DETERMINED
5-80	14	250	1.0		EMISSION-FLAME
6-80	16				NOT DETERMINED
6-80	17	310	25.2		EMISSION-FLAME
6-80	18	250	1.0		ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-80	19				NOT DETERMINED
6-80	23				NOT DETERMINED
6-80	24	150	39.4	REJECT	EMISSION PLASMA ICP
6-80	25	210	15.2		ATOMIC ABS-DIRECT
5-80	26				NOT DETERMINED
6-80	27	240	3.1		ATOMIC ABS-DIRECT
6-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31				NOT DETERMINED
6-80	32				NOT DETERMINED
5-80	33	240	3.1		EMISSION PLASMA ICP
5-80	34				NOT DETERMINED
6-80	35	250	1.0		ATOMIC ABS-DIRECT
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
5-80	38	270	9.0		EMISSION PLASMA ICP
6-80	39	290	17.1		ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-80	41	240	3.1		ATOMIC ABS-DIRECT
5-80	43				NOT DETERMINED
6-80	44				NOT DETERMINED
5-80	45	240	3.1		ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-80	46	240	3.1		ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
6-80	47				NOT DETERMINED
5-80	50	250	1.0		ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-80	51				NOT DETERMINED
6-80	54				NOT DETERMINED
5-80	55				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR LI
5-80	57			NOT DETERMINED
6-80	58	250	1.0	ATOMIC ABS-DIRECT
5-80	59			NOT DETERMINED
5-80	60	260	5.0	EMISSION PLASMA ICP
5-80	61	220	11.2	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68	250	1.0	ATOMIC ABS-DIRECT
6-80	69			NOT DETERMINED
5-80	72	240	3.1	ATOMIC ABS-DIRECT
5-80	74			NOT DETERMINED
5-80	75	250	1.0	EMISSION PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	200	19.2	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1

TOTAL RANGE 150.0000 - 430.0000 SAMPLE 73

MEAN	247.6190	AVERAGE DEVIATION	15.1020		
STANDARD DEVIATION	23.6441	95 PCT.CONF.INTVL OF MEAN	247.6190	+OR- 10.7629	LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR HG
6-80	1				NOT DETERMINED
5-80	3				NOT DETERMINED
5-80	5				NOT DETERMINED
6-80	6	16.0	354.5	REJECT	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
6-80	7				NOT DETERMINED
5-80	8	3.8	8.0		ATOMIC ABS-FLAMELESS, EPA
5-80	9	3.9	10.8		ATOMIC ABS-FLAMELESS, EPA
6-80	11				NOT DETERMINED
5-80	13	7.9	124.4	REJECT	TECHNICON AUTOANALYZER,ATOMIC ABS-FLAMLESS, EPA
5-80	14				NOT DETERMINED
6-80	16				NOT DETERMINED
6-80	17	3.5	0.6		ATOMIC ABS-FLAMELESS, EPA
6-80	18	3.2	9.1		ATOMIC ABS-FLAMELES, I-1462, USGS TWRI BK5 CH A1
5-80	19	38.0	979.5	REJECT	ATOMIC ABS-FLAMELESS, EPA
6-80	23				NOT DETERMINED
6-80	24	3.3	6.2		OTHER
6-80	25				NOT DETERMINED
5-80	26	2.8	20.5		ATOMIC ABS-FLAMELESS, EPA
6-80	27	3.6	2.3		ATOMIC ABS-FLAMELESS, EPA
6-80	29	3.4	3.4		ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
5-80	30				NOT DETERMINED
5-80	31	0.4	88.6	REJECT	ATOMIC ABS-FLAMELESS, EPA
6-80	32				NOT DETERMINED
5-80	33				NOT DETERMINED
5-80	34	3.6	2.3		ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
6-80	35	3.5	0.6		ATOMIC ABS-FLAMELESS, EPA
6-80	36	28.0	695.5	REJECT	ATOMIC ABS-FLAMELESS, EPA
5-80	37	3.9	10.8		ATOMIC ABS-FLAMELESS, EPA
5-80	38				NOT DETERMINED
6-80	39	3.5	0.6		ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
5-80	41	3.5	0.6		ATOMIC ABS-FLAMELESS, EPA
5-80	43				NOT DETERMINED
6-80	44				NOT DETERMINED
5-80	45	3.7	5.1		ATOMIC ABS-FLAMELES, I-1462, USGS TWRI BK5 CH A1
5-80	46	3.7	5.1		ATOMIC ABS-FLAMELES, I-1462, USGS TWRI BK5 CH A1
6-80	47	3.7	5.1		ATOMIC ABS-FLAMELESS, EPA
5-80	50	2.9	17.6		ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
5-80	51	6.0	70.5	REJECT	ATOMIC ABS-FLAMELESS, EPA
6-80	54				NOT DETERMINED
5-80	55				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR HG
5-80	57				NOT DETERMINED
6-80	58	3.4	3.4		ATOMIC ABS-FLAMELESS, EPA
5-80	59	220.0	*****	REJECT	OTHER
5-80	60				NOT DETERMINED
5-80	61				NOT DETERMINED
5-80	62				NOT DETERMINED
5-80	63				NOT DETERMINED
6-80	65				NOT DETERMINED
6-80	66				NOT DETERMINED
5-80	67	40.0	*****	REJECT	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
5-80	68	4.3	22.2		ATOMIC ABS-FLAMELESS, EPA
6-80	69	2.0	43.2	REJECT	TECHNICON AUTOANALYZER,ATOMIC ABS-FLAMLESS, EPA
5-80	72				NOT DETERMINED
5-80	74	3.2	9.1		ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
5-80	75				NOT DETERMINED
5-80	76				NOT DETERMINED
5-80	77				NOT DETERMINED

TOTAL RANGE	0.4000 - 220.0000					SAMPLE 73
MEAN	3.5200	AVERAGE DEVIATION	0.2520			
STANDARD DEVIATION	0.3458	95 PCT.CONF.INTVL OF MEAN	3.5200	+OR-	0.1618	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MO
6-80	1	18	26.9	EMISSION-PLASMA ICP
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7			NOT DETERMINED
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
6-80	11			NOT DETERMINED
5-80	13			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18			NOT DETERMINED
5-80	19			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24			NOT DETERMINED
6-80	25			NOT DETERMINED
5-80	26	36	46.1	ATOMIC ABS-FLAMELESS
6-80	27			NOT DETERMINED
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33	7	71.6	EMISSION-PLASMA ICP
5-80	34			NOT DETERMINED
6-80	35	50	103.0	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37			NOT DETERMINED
5-80	38	20	18.8	EMISSION-PLASMA ICP
6-80	39	11	55.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1
5-80	41	28	13.7	ATOMIC ABS-DIRECT
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45			NOT DETERMINED
5-80	46			NOT DETERMINED
6-80	47			NOT DETERMINED
5-80	50	23	6.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1
5-80	51			NOT DETERMINED
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MO
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63	14	43.2	EMISSION-PLASMA ICP
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	40	62.4	ATOMIC ABS-FLAMELESS
5-80	74			NOT DETERMINED
5-80	75	24	2.6	EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	7.0000 - 50.0000					SAMPLE 73
MEAN	24.6364	AVERAGE DEVIATION	10.0826			
STANDARD DEVIATION	13.0328	95 PCT.CONF.INTVL OF MEAN	24.6364	+OR-	8.7550	MO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NI
6-80	1			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5	60	230.3	ATOMIC ABS-DIRECT
6-80	6			NOT DETERMINED
6-80	7	11	39.4	ATOMIC ABS-FLAMELESS
5-80	8	6	67.0	ATOMIC ABS-FLAMELESS
5-80	9			NOT DETERMINED
6-80	11	16	11.9	ATOMIC ABS-FLAMELESS
5-80	13	25	37.6	ATOMIC ABS-DIRECT, EPA
5-80	14	10	45.0	ATOMIC ABS-FLAMELESS
6-80	16			NOT DETERMINED
6-80	17	6	67.0	ATOMIC ABS-FLAMELESS
6-80	18			NOT DETERMINED
5-80	19	10	45.0	ATOMIC ABS-FLAMELESS
6-80	23			NOT DETERMINED
6-80	24	6	67.0	EMISSION-PLASMA ICP
6-80	25	12	33.9	ATOMIC ABS-DIRECT
5-80	26	20	10.1	ATOMIC ABS-DIRECT
6-80	27			NOT DETERMINED
6-80	29	0	100.0	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31	19	4.6	ATOMIC ABS-DIRECT
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34			NOT DETERMINED
6-80	35	16	11.9	ATOMIC ABS-DIRECT, EPA
6-80	36			NOT DETERMINED
5-80	37	23	26.6	ATOMIC ABS-DIRECT, EPA
5-80	38			NOT DETERMINED
6-80	39	9	50.5	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
5-80	41	15	17.4	ATOMIC ABS-DIRECT, EPA
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	13	28.4	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
5-80	46	10	45.0	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
6-80	47			NOT DETERMINED
5-80	50	12	33.9	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
5-80	51	9	50.5	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NI
5-80	57			NOT DETERMINED
6-80	58	50	175.2	ATOMIC ABS-DIRECT
5-80	59	3	83.5	ATOMIC ABS-FLAMELESS
5-80	60	11	39.4	ATOMIC ABS-FLAMELESS
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65	54	197.2	ATOMIC ABS-DIRECT
6-80	66	22	21.1	ATOMIC ABS-DIRECT
5-80	67	30	65.1	ATOMIC ABS-DIRECT
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	11	39.4	ATOMIC ABS-FLAMELESS
5-80	74	36	98.2	ATOMIC ABS-DIRECT, EPA
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77	20	10.1	ATOMIC ABS-DIRECT

TOTAL RANGE	0.0 - 60.0000					SAMPLE 73
MEAN	18.1667	AVERAGE DEVIATION	10.6111			
STANDARD DEVIATION	14.6760	95 PCT.CONF.INTVL OF MEAN	18.1667 +OR-	5.4795	NI	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR SE
6-80	1				NOT DETERMINED
5-80	3	4	27.8		ATOMIC ABS-FLAMELESS
5-80	5				NOT DETERMINED
6-80	6				NOT DETERMINED
6-80	7				NOT DETERMINED
5-80	8	2	63.9		ATOMIC ABS-FLAMELESS
5-80	9	21	278.9	REJECT	ATOMIC ABS-FLAMELESS
6-80	11				NOT DETERMINED
5-80	13	9	62.4		ATOMIC ABS-FLAMELESS
5-80	14	3	45.9		ATOMIC ABS-FLAMELESS
6-80	16				NOT DETERMINED
6-80	17	8	44.4		ATOMIC ABS-FLAMELESS
6-80	18				NOT DETERMINED
5-80	19	3	45.9		ATOMIC ABS-FLAMELESS
6-80	23				NOT DETERMINED
6-80	24	6	8.3		ATOMIC ABS-HYDRIDE(NABH4)
6-80	25				NOT DETERMINED
5-80	26	6	8.3		ATOMIC ABS-FLAMELESS
6-80	27	6	8.3		OTHER
6-80	29	6	8.3		ATOMIC ABS-FLAMELESS
5-80	30				NOT DETERMINED
5-80	31				NOT DETERMINED
6-80	32				NOT DETERMINED
5-80	33	5	9.8		ATOMIC ABS-HYDRIDE(NABH4)
5-80	34	4	27.8		ATOMIC ABS-HYDRIDE(NABH4)
6-80	35	2	63.9		OTHER
6-80	36				NOT DETERMINED
5-80	37				NOT DETERMINED
5-80	38				NOT DETERMINED
6-80	39	6	8.3		ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS
5-80	41	6	8.3		ATOMIC ABS-FLAMELESS
5-80	43				NOT DETERMINED
6-80	44				NOT DETERMINED
5-80	45	5	9.8		ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1
5-80	46	5	9.8		ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1
6-80	47				NOT DETERMINED
5-80	50	6	8.3		ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS
5-80	51	9	62.4		ATOMIC ABS-FLAMELESS
6-80	54				NOT DETERMINED
5-80	55	1	82.0		ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SE
5-80	57			NOT DETERMINED
6-80	58	10	80.5	ATOMIC ABS-FLAMELESS
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67	9	62.4	ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1
5-80	68			NOT DETERMINED
6-80	69	2	63.9	ATOMIC ABS-FLAMELESS
5-80	72			NOT DETERMINED
5-80	74	10	80.5	OTHER
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77			NOT DETERMINED

TOTAL RANGE	1.0000 - 21.0000					SAMPLE 73
MEAN	5.5417	AVERAGE DEVIATION	2.0799			
STANDARD DEVIATION	2.6372	95 PCT.CONF.INTVL OF MEAN	5.5417	+OR-	1.1138	SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AG
6-80	1			NOT DETERMINED
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7	1	64.6	ATOMIC ABS-FLAMELESS
5-80	8	3	6.1	ATOMIC ABS-FLAMELESS
5-80	9	4	41.5	ATOMIC ABS-FLAMELESS
6-80	11	2	29.3	ATOMIC ABS-FLAMELESS
5-80	13	3	6.1	ATOMIC ABS-DIRECT, EPA
5-80	14	5	76.8	ATOMIC ABS-DIRECT
6-80	16			NOT DETERMINED
6-80	17	3	6.1	ATOMIC ABS-FLAMELESS
6-80	18			NOT DETERMINED
5-80	19	2	29.3	ATOMIC ABS-FLAMELESS
6-80	23			NOT DETERMINED
6-80	24			NOT DETERMINED
6-80	25	2	29.3	ATOMIC ABS-DIRECT
5-80	26	7	147.6	ATOMIC ABS-DIRECT
6-80	27			NOT DETERMINED
6-80	29	0	100.0	ATOMIC ABS-DIRECT
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33			NOT DETERMINED
5-80	34	1	64.6	ATOMIC ABS-FLAMELESS
6-80	35			NOT DETERMINED
6-80	36	2	29.3	ATOMIC ABS-FLAMELESS
5-80	37	6	112.2	ATOMIC ABS-DIRECT, EPA
5-80	38			NOT DETERMINED
6-80	39	1	64.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
5-80	41	2	29.3	ATOMIC ABS-FLAMELESS
5-80	43	4	41.5	ATOMIC ABS-DIRECT
6-80	44			NOT DETERMINED
5-80	45	2	29.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
5-80	46	2	29.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
6-80	47	2	29.3	ATOMIC ABS-FLAMELESS
5-80	50	1	64.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
5-80	51	2	29.3	ATOMIC ABS-FLAMELESS
6-80	54			NOT DETERMINED
5-80	55	5	76.8	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AG
5-80	57			NOT DETERMINED
6-80	58	1	64.6	ATOMIC ABS-FLAMELESS
5-80	59			NOT DETERMINED
5-80	60			NOT DETERMINED
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66	8	182.9	ATOMIC ABS-DIRECT
5-80	67	2	29.3	ATOMIC ABS-DIRECT
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	5	76.8	ATOMIC ABS-DIRECT
5-80	74	0	100.0	ATOMIC ABS-DIRECT
5-80	75			NOT DETERMINED
5-80	76			NOT DETERMINED
5-80	77	4	41.5	ATOMIC ABS-DIRECT

TOTAL RANGE	0.0 - 8.0000					SAMPLE 73
MEAN	2.8276	AVERAGE DEVIATION	1.5910			
STANDARD DEVIATION	2.0012	95 PCT.CONF.INTVL OF MEAN	2.8276 +OR-	0.7611		AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
6-80	1	430	27.0	EMISSION PLASMA ICP
5-80	3			NOT DETERMINED
5-80	5			NOT DETERMINED
6-80	6			NOT DETERMINED
6-80	7	600	1.8	EMISSION PLASMA ICP
5-80	8			NOT DETERMINED
5-80	9			NOT DETERMINED
6-80	11			NOT DETERMINED
5-80	13			NOT DETERMINED
5-80	14			NOT DETERMINED
6-80	16			NOT DETERMINED
6-80	17			NOT DETERMINED
6-80	18			NOT DETERMINED
5-80	19			NOT DETERMINED
6-80	23			NOT DETERMINED
6-80	24	610	3.5	EMISSION PLASMA ICP
6-80	25			NOT DETERMINED
5-80	26	560	5.0	ATOMIC ABS-DIRECT
6-80	27			NOT DETERMINED
6-80	29			NOT DETERMINED
5-80	30			NOT DETERMINED
5-80	31			NOT DETERMINED
6-80	32			NOT DETERMINED
5-80	33	590	0.1	EMISSION PLASMA ICP
5-80	34			NOT DETERMINED
6-80	35	600	1.8	ATOMIC ABS-DIRECT
6-80	36			NOT DETERMINED
5-80	37	410	30.4	ATOMIC ABS-DIRECT
5-80	38	640	8.6	EMISSION PLASMA ICP
6-80	39	590	0.1	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	41			NOT DETERMINED
5-80	43			NOT DETERMINED
6-80	44			NOT DETERMINED
5-80	45	710	20.5	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	46	700	18.8	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
6-80	47			NOT DETERMINED
5-80	50	570	3.3	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-80	51	560	5.0	ATOMIC ABS-DIRECT
6-80	54			NOT DETERMINED
5-80	55			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
5-80	57			NOT DETERMINED
6-80	58			NOT DETERMINED
5-80	59			NOT DETERMINED
5-80	60	640	8.6	EMISSION PLASMA ICP
5-80	61			NOT DETERMINED
5-80	62			NOT DETERMINED
5-80	63			NOT DETERMINED
6-80	65			NOT DETERMINED
6-80	66			NOT DETERMINED
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
6-80	69			NOT DETERMINED
5-80	72	640	8.6	ATOMIC ABS-DIRECT
5-80	74			NOT DETERMINED
5-80	75	590	0.1	EMISSION PLASMA ICP
5-80	76			NOT DETERMINED
5-80	77	580	1.6	ATOMIC ABS-DIRECT, I-1800, USGS TWRI 8K5 CH A1

TOTAL RANGE	410.0000 - 710.0000					SAMPLE 73
MEAN	589.4116	AVERAGE DEVIATION	50.1730			
STANDARD DEVIATION	77.0121	95 PCT.CONF.INTVL OF MEAN	589.4116	+OR-	39.5977	SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR ZN
6-80	1	250	1.5		EMISSION-PLASMA ICP
5-80	3				NOT DETERMINED
5-80	5	270	6.3		ATOMIC ABS-DIRECT
6-80	6	240	5.5		ATOMIC ABS-DIRECT
6-80	7				NOT DETERMINED
5-80	8	250	1.5		ATOMIC ABS-DIRECT
5-80	9	240	5.5		ATOMIC ABS-DIRECT
6-80	11	240	5.5		ATOMIC ABS-DIRECT
5-80	13	280	10.3		ATOMIC ABS-DIRECT, EPA
5-80	14	260	2.4		ATOMIC ABS-DIRECT
6-80	16	240	5.5		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
6-80	17	270	6.3		EMISSION-PLASMA ICP
6-80	18				NOT DETERMINED
5-80	19	250	1.5		ATOMIC ABS-DIRECT
6-80	23	230	9.4		ATOMIC ABS-DIRECT
6-80	24	250	1.5		EMISSION-PLASMA ICP
6-80	25	300	18.2		ATOMIC ABS-DIRECT
5-80	26	240	5.5		ATOMIC ABS-DIRECT
6-80	27	220	13.4		ATOMIC ABS-DIRECT
6-80	29	250	1.5		ATOMIC ABS-DIRECT
5-80	30				NOT DETERMINED
5-80	31	240	5.5		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
6-80	32				NOT DETERMINED
5-80	33	230	9.4		EMISSION-PLASMA ICP
5-80	34	270	6.3		ATOMIC ABS-DIRECT, EPA
6-80	35	230	9.4		ATOMIC ABS-DIRECT, EPA
6-80	36	230	9.4		ATOMIC ABS-DIRECT, EPA
5-80	37	300	18.2		ATOMIC ABS-DIRECT, EPA
5-80	38	230	9.4		EMISSION-PLASMA ICP
6-80	39	240	5.5		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
5-80	41	220	13.4		ATOMIC ABS-DIRECT, EPA
5-80	43	250	1.5		ATOMIC ABS-DIRECT
6-80	44				NOT DETERMINED
5-80	45	260	2.4		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
5-80	46	260	2.4		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
6-80	47	270	6.3		ATOMIC ABS-DIRECT
5-80	50	250	1.5		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
5-80	51	170	33.0	REJECT	ATOMIC ABS-DIRECT
6-80	54	240	5.5		ATOMIC ABS-DIRECT
5-80	55	260	2.4		ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR ZN
5-80	57	260	2.4		ATOMIC ABS-DIRECT
6-80	58	270	6.3		ATOMIC ABS-DIRECT
5-80	59	240	5.5		ATOMIC ABS-DIRECT, EPA
5-80	60	270	6.3		ATOMIC ABS-DIRECT
5-80	61			NOT DETERMINED	
5-80	62	100	60.6	REJECT	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1
5-80	63	300	18.2		EMISSION-PLASMA ICP
6-80	65	240	5.5		ATOMIC ABS-DIRECT
6-80	66	280	10.3		ATOMIC ABS-DIRECT
5-80	67	300	18.2		ATOMIC ABS-DIRECT
5-80	68	220	13.4		ATOMIC ABS-DIRECT
6-80	69	150	40.9	REJECT	ATOMIC ABS-DIRECT, EPA
5-80	72	270	6.3		ATOMIC ABS-DIRECT
5-80	74	250	1.5		ATOMIC ABS-DIRECT
5-80	75	250	1.5		EMISSION-PLASMA ICP
5-80	76			NOT DETERMINED	
5-80	77	270	6.3		ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1

TOTAL RANGE	100.0000 - 300.0000				SAMPLE 73
MEAN	253.9130	AVERAGE DEVIATION	17.2022		
STANDARD DEVIATION	21.3414	95 PCT.CONF.INTVL OF MEAN	253.9130 +OR-	6.3373	ZN

DETERMINATION	NO.LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN 95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	24	0	21	79	92
FE	50	0	34	80	94
MN	53	8	35	73	94
SB	7	14	50	50	100
AS	30	0	27	67	97
BA	31	0	35	81	90
BE	15	7	64	71	93
CD	47	4	22	71	96
CR TOT	36	11	34	81	91
CO	20	5	37	58	100
CU	49	4	23	74	94
PB	38	3	8	86	92
LI	23	9	67	76	90
HG	29	31	40	75	90
MO	11	0	45	64	100
NI	30	0	30	80	90
SE	25	4	42	63	100
AG	29	0	10	72	93
SR	17	0	59	76	88
ZN	49	6	30	70	91

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR ORG-N
5-80	2	0.43	16.4		SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	3				NOT DETERMINED
6-80	4	0.15	70.9		TOTAL KJELDAHL, ORG N BY DIFF, EPA
6-80	6	0.68	32.1		SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	8	0.96	86.5		NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
5-80	9				NOT DETERMINED
5-80	10	0.40	22.3		PHENATE, AUTO, EPA
6-80	11				NOT DETERMINED
6-80	12				NOT DETERMINED
5-80	13				NOT DETERMINED
6-80	16	0.50	2.8		OTHER
6-80	17	0.43	16.4		TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-80	19	0.32	37.8		NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-80	20	1.30	152.6		SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
6-80	21	0.59	14.6		OTHER
5-80	26				NOT DETERMINED
6-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31				NOT DETERMINED
5-80	33				NOT DETERMINED
5-80	34	4.00	677.3	REJECT	NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
6-80	35	0.50	2.8		TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-80	37	0.55	6.9		PHENATE, AUTO, EPA
5-80	39	0.50	2.8		SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	40	1.30	152.6		SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	41	0.58	12.7		PHENATE, AUTO, EPA
6-80	42	3.10	502.4	REJECT	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-80	45	0.28	45.6		NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	46	0.29	43.6		NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	48	0.23	55.3		INDOPHENOL,AUTO, I-2551, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	49				NOT DETERMINED
5-80	50	6.70	*****	REJECT	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-80	51	0.66	28.3		NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
6-80	52				NOT DETERMINED
5-80	55	0.15	70.9		OTHER
6-80	56	0.11	78.6		NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
5-80	57				NOT DETERMINED
6-80	58				NOT DETERMINED
5-80	59	0.10	80.6		OTHER
5-80	63				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ORG-N
6-80	65			NOT DETERMINED
6-80	66	0.47	8.7	OTHER
5-80	67	0.41	20.3	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-80	68			NOT DETERMINED
5-80	72			NOT DETERMINED
5-80	74	0.83	61.3	OTHER
5-80	76			NOT DETERMINED
5-80	77	0.66	28.3	NESSLERIZATION OR TITRIMETRIC, APHA STD METH. 14ED

SAMPLE 3

TOTAL RANGE	0.1000 -	0.7000				
MEAN	0.5146	AVERAGE DEVIATION	0.2280			
STANDARD DEVIATION	0.3149	95 PCT.CONF.INTVL OF MEAN	0.5146 +OR-	0.1272	ORG-N	

DATE M.-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO2-N
5-80	2	2.4	8.9		DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	3				NOT DETERMINED
6-80	4	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	6	2.3	4.4		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	8	2.0	9.2		DIAZOTIZATION, APHA STD METH, 14ED
5-80	9				NOT DETERMINED
5-80	10	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	11	2.3	4.4		DIAZOTIZATION, ASTM D1254
5-80	12				NOT DETERMINED
5-80	13				NOT DETERMINED
6-80	16				NOT DETERMINED
6-80	17	2.2	0.2		DIAZOTIZATION, EPA
5-80	19	2.3	4.4		DIAZOTIZATION, APHA STD METH, 14ED
5-80	20	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	21				NOT DETERMINED
5-80	26	2.0	9.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	33				NOT DETERMINED
5-80	34	2.1	4.7		DIAZOTIZATION, APHA STD METH, 14ED
6-80	35	1.9	13.8		DIAZOTIZATION, EPA
5-80	37	2.5	13.5		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	39	2.4	8.9		DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	40	2.4	8.9		DIAZOTIZATION, EPA
5-80	41	2.6	18.0		DIAZOTIZATION, EPA
6-80	42	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	45	1.8	18.3		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	46	1.8	18.3		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	48				NOT DETERMINED
5-80	49	23.0	943.8	REJECT	DIAZOTIZATION, APHA STD METH, 14ED
5-80	50	2.3	4.4		DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	51	1.7	22.8		DIAZOTIZATION, APHA STD METH, 14ED
6-80	52	2.1	4.7		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	55	2.4	8.9		TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	56	0.2	90.0	REJECT	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-80	57	2.5	13.5		TECHNICON AUTOANALYZER, DIAZOTIZATION
6-80	58	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	59				NOT DETERMINED
5-80	63				NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO2-N
6-80	65				NOT DETERMINED
6-80	66	2.2	0.2		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	67				NOT DETERMINED
5-80	69				NOT DETERMINED
5-80	72	0.2	90.0	REJECT	DIAZOTIZATION, APHA STD METH, 14ED
5-80	74	2.3	4.4		TECHNICON AUTOANALYZER, DIAZOTIZATION
5-80	76				NOT DETERMINED
5-80	77	2.2	0.2		DIAZOTIZATION, APHA STD METH, 14ED

TOTAL RANGE	0.2200 - 23.0000				SAMPLE 3
MEAN	2.2034	AVERAGE DEVIATION	0.1558		
STANDARD DEVIATION	0.2163	95 PCT.CONF.INTVL OF MEAN	2.2034 +OR-	0.0822	NO2-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NH3-N
5-80	2	3.4	6.9		INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-80	3				NOT DETERMINED
6-80	4	3.4	6.9		OTHER
6-80	6	3.0	5.7		PHENATE, AUTO, EPA
5-80	8	2.8	12.0		DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
5-80	9				NOT DETERMINED
5-80	10	3.4	6.9		PHENATE, AUTO, EPA
6-80	11	2.3	27.7		PHENATE, AUTO, EPA
6-80	12				NOT DETERMINED
5-80	13	3.0	5.7		PHENATE, AUTO, EPA
6-80	16	3.7	16.3		PHENATE, AUTO, EPA
6-80	17	0.3	89.9	REJECT	ION-SELECTIVE ELECTRODE, EPA
5-80	19	3.2	0.6		ION-SELECTIVE ELECTRODE, EPA
5-80	20	3.1	2.6		PHENATE, AUTO, EPA
5-80	21	2.8	12.0		OTHER
5-80	26	3.2	0.6		PHENATE, AUTO, EPA
6-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31	4.0	25.7		PHENATE, AUTO, EPA
5-80	33				NOT DETERMINED
5-80	34	0.1	96.9	REJECT	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
6-80	35	3.0	5.7		DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
5-80	37	2.8	12.0		PHENATE, AUTO, EPA
5-80	39	2.6	18.3		OTHER
5-80	40	3.2	0.6		PHENATE, AUTO, EPA
5-80	41	3.0	5.7		PHENATE, AUTO, EPA
6-80	42	2.8	12.0		ION-SELECTIVE ELECTRODE, EPA
5-80	45	3.3	3.7		INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-80	46	3.4	6.9		INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-80	48	3.3	3.7		PHENATE, AUTO, EPA
5-80	49	4.6	44.6		ION-SELECTIVE ELECTRODE, EPA
5-80	50	4.3	35.2		INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-80	51	3.4	6.9		ION-SELECTIVE ELECTRODE, EPA
6-80	52	3.2	0.6		PHENATE, AUTO, EPA
5-80	55	3.2	0.6		PHENATE, AUTO, EPA
6-80	56	3.2	0.6		INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-80	57	3.2	0.6		PHENATE, AUTO, EPA
6-80	58	3.0	5.7		PHENATE, AUTO, EPA
5-80	59	3.6	13.2		PHENATE, AUTO, EPA
5-80	63	3.2	0.6		DISTILLATION-NESSLERIZATION OR TITRIMETRIC, ASTM METH A OR B

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NH3-N
6-80	65				NOT DETERMINED
6-80	66	2.9	8.9		PHENATE, AUTO, EPA
5-80	67	0.4	87.4	REJECT	DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
5-80	68	3.3	3.7		ION-SELECTIVE ELECTRODE, EPA
5-80	72	3.6	13.2		ION-SELECTIVE ELECTRODE, EPA
5-80	74	2.7	15.1		OTHER
5-80	76	1.9	40.3		DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
5-80	77	2.9	8.9		DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1

TOTAL RANGE 0.1000 - 4.6000 SAMPLE 3

MEAN	3.1816	AVERAGE DEVIATION	0.3319		
STANDARD DEVIATION	0.4859	95 PCT.CONF.INTVL OF MEAN	3.1816 +OR-	0.1593	NH3-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO3-N
5-80	2	2.0	28.3		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	3	1.3	53.4		OTHER
6-80	4	1.4	49.8		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	6	1.9	31.9		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	8	2.4	14.0		MANUAL, CADMIUM REDUCTION
5-80	9	2.5	10.4		BRUCINE, APHA STD METH, 14ED
5-80	10	2.2	21.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	11	42.0	*****	REJECT	MANUAL, CADMIUM REDUCTION
5-80	12	4.8	72.0		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	13	6.2	122.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	16	5.7	104.3		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	17	2.1	24.7		OTHER
5-80	19	2.3	17.6		BRUCINE, APHA STD METH, 14ED
5-80	20	2.3	17.6		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	21				NOT DETERMINED
5-80	26	2.3	17.6		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	29				NOT DETERMINED
5-80	30				NOT DETERMINED
5-80	31	2.2	21.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	33	2.2	21.2		OTHER
5-80	34	2.2	21.2		MANUAL, CADMIUM REDUCTION
6-80	35	2.3	17.6		BRUCINE, APHA STD METH, 14ED
5-80	37	5.0	79.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	39	1.9	31.9		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	40	1.6	42.7		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	41	2.0	28.3		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	42	3.3	18.3		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	45	4.2	50.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	46	4.2	50.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	48				NOT DETERMINED
5-80	49	2.2	21.2		BRUCINE, APHA STD METH, 14ED
5-80	50	2.2	21.2		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	51	2.1	24.7		MANUAL, CADMIUM REDUCTION
6-80	52	2.3	17.6		TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-80	55	4.4	57.7		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	56	3.9	39.8		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-80	57	1.4	49.8		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-80	58	2.6	6.8		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	59				NOT DETERMINED
5-80	63	3.5	25.4		OTHER

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO3-N
6-80	65	2.9	3.9		BRUCINE, APHA STD METH, 14ED
6-80	66	2.2	21.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-80	67	3.2	14.7		BRUCINE, APHA STD METH, 14ED
5-80	68	39.0	*****	REJECT	OTHER
5-80	72	2.0	28.3		BRUCINE, APHA STD METH, 14ED
5-80	74	4.4	57.7		TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-80	76	2.4	14.0		BRUCINE, APHA STD METH, 14ED
5-80	77	2.2	21.2		OTHER

TOTAL RANGE 1.3000 - 42.0000 SAMPLE 3

MEAN	2.7902	AVERAGE DEVIATION	0.9476	
STANDARD DEVIATION	1.1903	95 PCT.CONF.INTVL OF MEAN	2.7902 +OR- 0.3757	NO3-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR PO4-P
5-80	2	1.6	23.6		PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
5-80	3	1.1	19.9		OTHER
6-80	4			NOT DETERMINED	
6-80	6	1.4	8.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	8	2.2	70.0	REJECT	ASCORBIC ACID, APHA STD METH, 14ED
5-80	9	1.6	23.6		OTHER
5-80	10	1.4	8.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	11	1.4	8.2		ASCORBIC ACID, APHA STD METH, 14ED
6-80	12			NOT DETERMINED	
5-80	13	1.0	22.7		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	16	1.4	8.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	17	1.3	0.4		ASCORBIC ACID, APHA STD METH, 14ED
5-80	19	1.3	0.4		OTHER
5-80	20	1.3	0.4		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	21	1.6	23.6		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	26	1.3	0.4		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	29	1.4	8.2		OTHER
5-80	30	0.6	53.6	REJECT	PHOSPHONOLYBDATE, EPA
5-80	31	1.1	15.0		ASCORBIC ACID, APHA STD METH, 14ED
5-80	33	1.3	0.4		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-80	34	0.3	76.8	REJECT	OTHER
6-80	35	1.3	0.4		PHOSPHONOLYBDATE, EPA
5-80	37			NOT DETERMINED	
5-80	39	1.0	22.7		PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
5-80	40	0.7	45.9	REJECT	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	41			NOT DETERMINED	
6-80	42	1.3	0.4		PHOSPHONOLYBDATE, EPA
5-80	45	1.2	7.3		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-80	46	1.2	7.3		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-80	48	1.3	0.4		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	49			NOT DETERMINED	
5-80	50	1.4	8.2		PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
5-80	51	1.3	0.4		ASCORBIC ACID, APHA STD METH, 14ED
6-80	52	0.9	34.3		ASCORBIC ACID, APHA STD METH, 14ED
5-80	55	1.2	7.3		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	56	1.4	8.2		ASCORBIC ACID, APHA STD METH, 14ED
5-80	57	1.1	15.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	58	1.3	0.4		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	59	1.3	0.4		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	63	1.2	7.3		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PO4-P
6-80	65	1.4	8.2	ASCORBIC ACID, APHA STD METH, 14ED
6-80	66	1.3	0.4	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
5-80	72	1.2	7.3	ASCORBIC ACID, APHA STD METH, 14ED
5-80	74	1.5	15.9	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	76			NOT DETERMINED
5-80	77	1.4	8.2	ASCORBIC ACID, APHA STD METH, 14ED

SAMPLE 3

TOTAL RANGE	0.3000 - 2.2000				
MEAN	1.2944	AVERAGE DEVIATION	0.1188		
STANDARD DEVIATION	0.1668	95 PCT.CONF.INTVL OF MEAN	1.2944 +OR-	0.0564	PO4-P

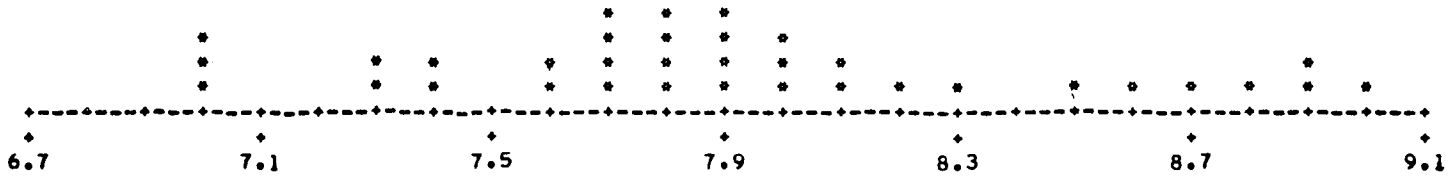
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR P,TOTAL
5-80	2	1.6	15.4		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	3				NOT DETERMINED
6-80	4	1.4	1.0		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	6	1.4	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	8	1.2	13.4		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	9				NOT DETERMINED
5-80	10	1.4	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	11				NOT DETERMINED
6-80	12				NOT DETERMINED
5-80	13	1.1	20.6		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	16	1.4	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	17	1.4	1.0		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	19	1.4	1.0		OTHER
5-80	20	1.4	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	21	1.3	6.2		PHOSPHOMOLYBDATE, EPA
5-80	26				NOT DETERMINED
6-80	29	1.5	8.2		OTHER
5-80	30	0.7	48.8	REJECT	PHOSPHOMOLYBDATE, EPA
5-80	31	1.3	6.2		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	33	1.3	6.2		PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-80	34	0.9	35.1	REJECT	OTHER
6-80	35	1.4	1.0		PHOSPHOMOLYBDATE, EPA
5-80	37	1.4	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	39	1.5	8.2		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	40	1.4	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	41	1.5	8.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	42	3.3	138.1	REJECT	PHOSPHOMOLYBDATE, EPA
5-80	45	1.2	13.4		PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-80	46	1.2	13.4		PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-80	48	1.4	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	49				NOT DETERMINED
5-80	50	1.7	22.6		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-80	51	1.5	8.2		ASCORBIC ACID REDUCTION, ASTM METHOD A, D515
6-80	52	1.4	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	55	1.3	6.2		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-80	56	1.5	8.2		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	57	1.4	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-80	58				NOT DETERMINED
5-80	59	1.3	6.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	63	1.4	1.0		OTHER

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
6-80	65	1.5	8.2	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-80	66	1.3	6.2	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-80	67			NOT DETERMINED
5-80	68			NOT DETERMINED
5-80	72	1.4	1.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-80	74	1.5	8.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-80	76	1.2	13.4	OTHER
5-80	77	1.4	1.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED

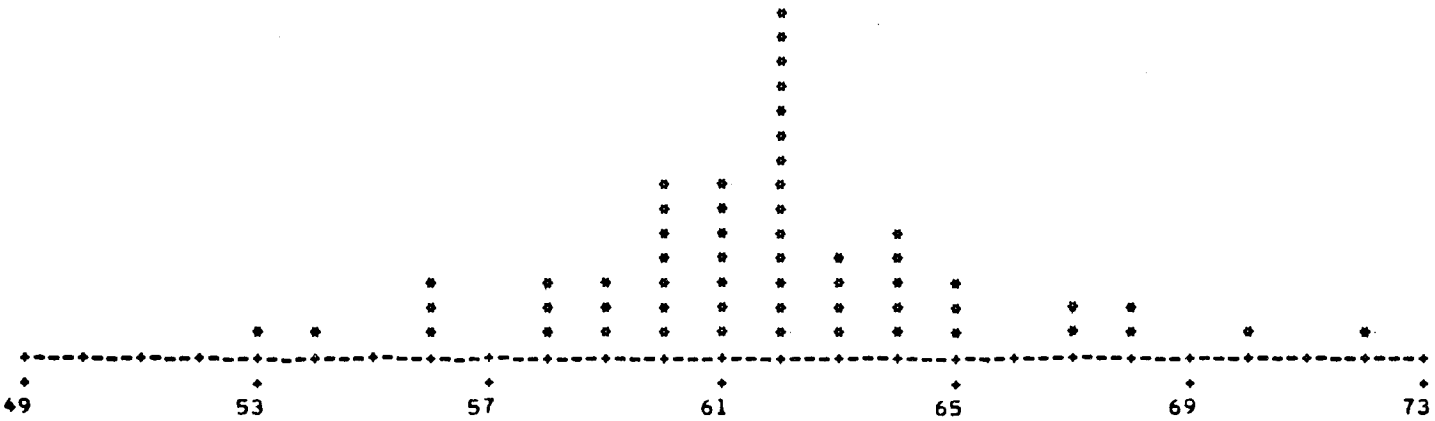
TOTAL RANGE 0.7100 - 3.3000 SAMPLE 3

MEAN	1.3861	AVERAGE DEVIATION	0.0860		
STANDARD DEVIATION	0.1199	95 PCT.CONF.INTVL OF MEAN	1.3861 +OR-	0.0406	P,TOTAL

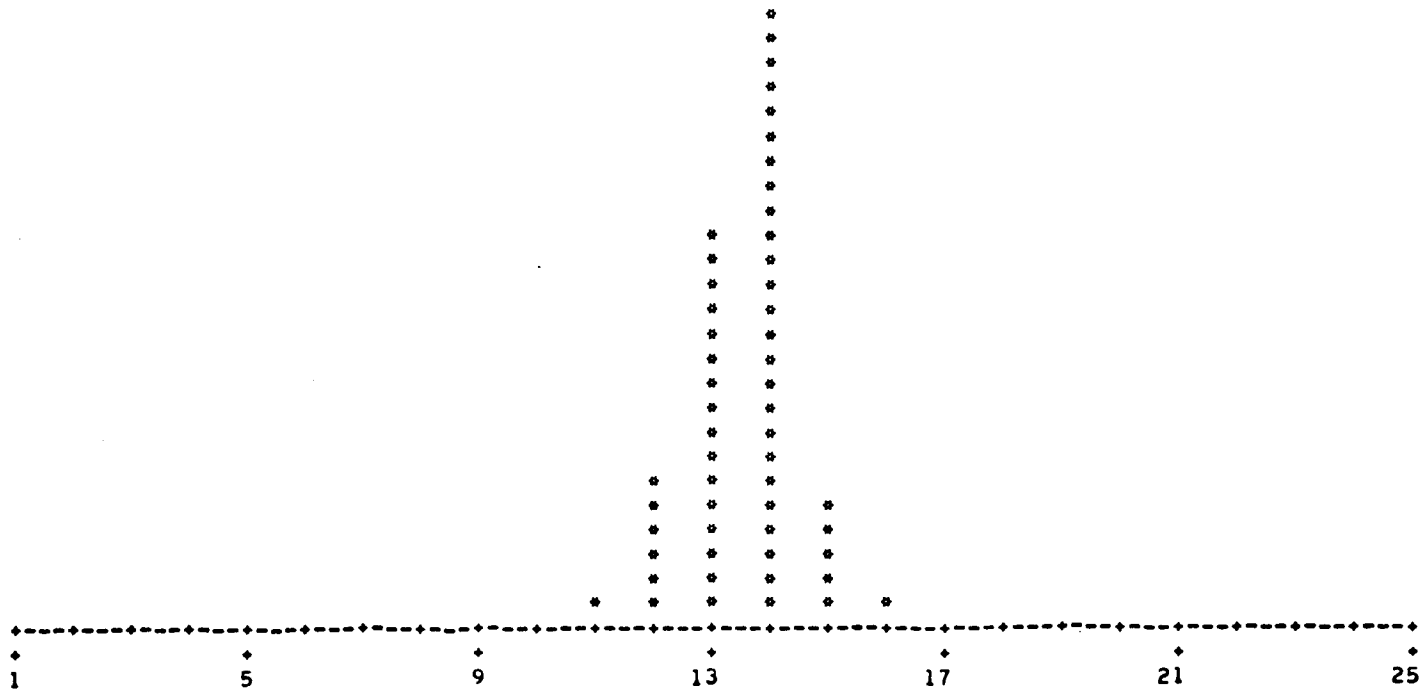
DETERMINATION	NO.LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN 95 PCT. CI	X +OR- STD	X +OR- 2STD
ORG-N	29	10	42	69	92
NO2-N	32	9	31	76	97
NH3-N	41	7	32	82	92
NO3-N	43	5	7	73	95
PO4-P	40	10	33	72	97
P,TOTAL	39	8	44	81	94



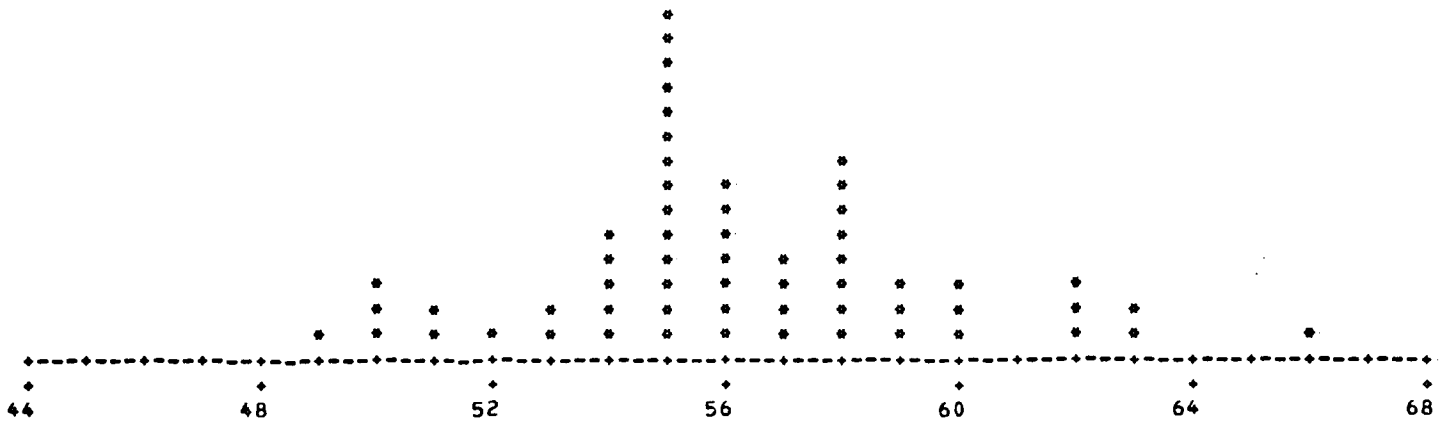
SAMPLE NO. 72 SIO2 EACH * EQUALS 1.00 LABS



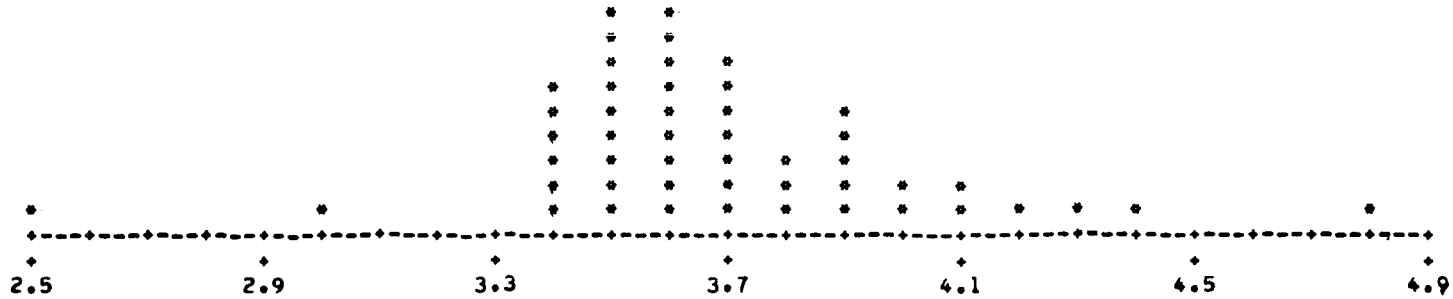
SAMPLE NO. 72 CA EACH * EQUALS 1.00 LABS



SAMPLE NO. 72 MG EACH * EQUALS 1.00 LABS



SAMPLE NO. 72 NA EACH * EQUALS 1.00 LABS



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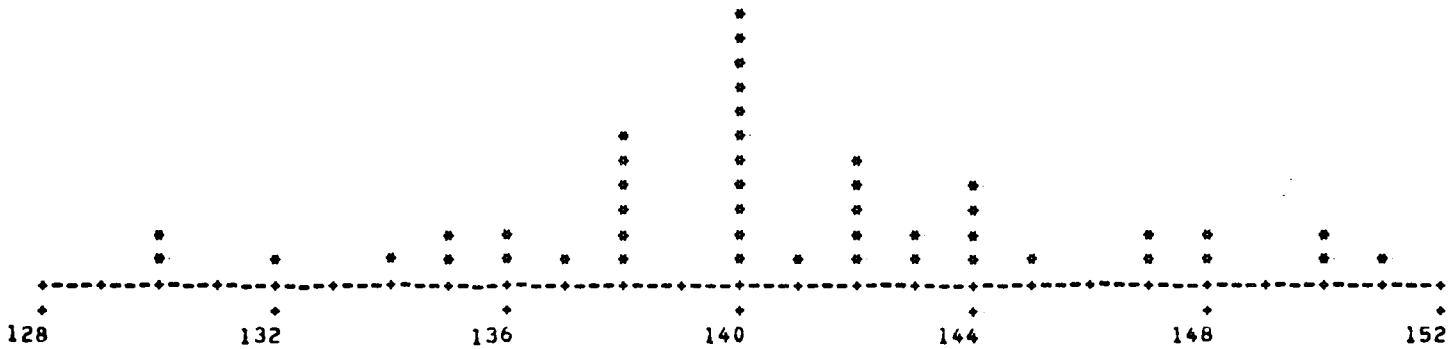
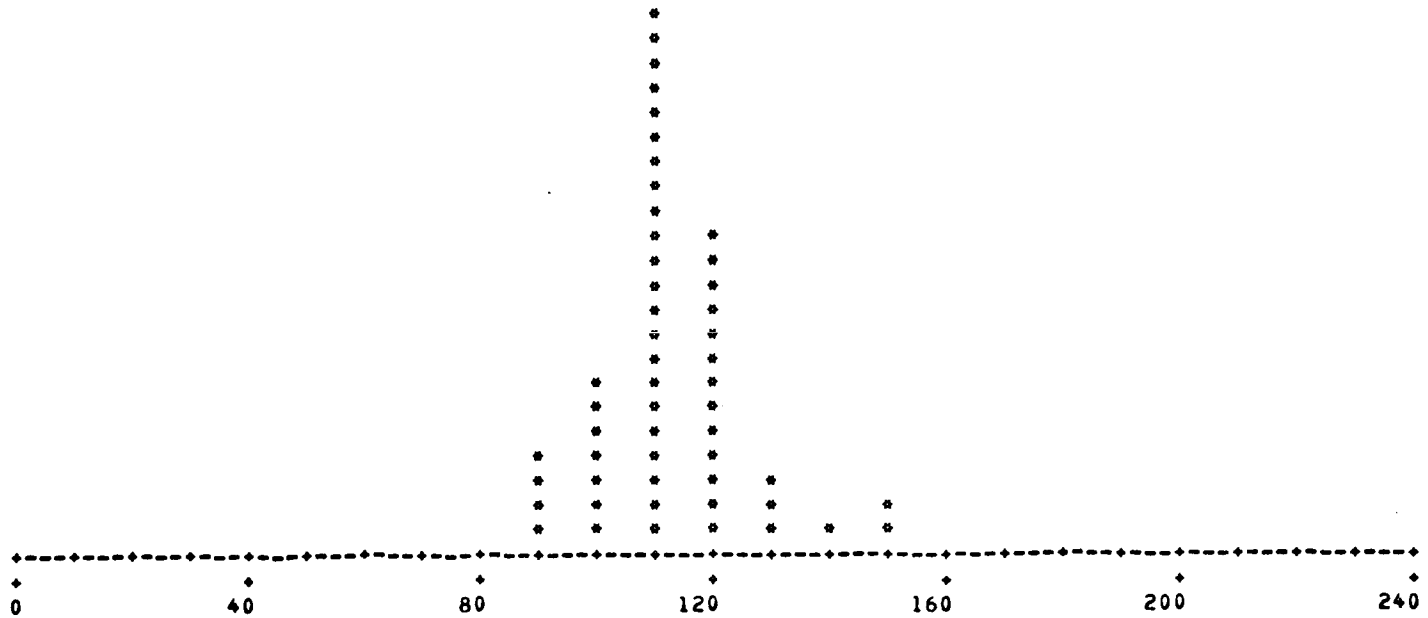
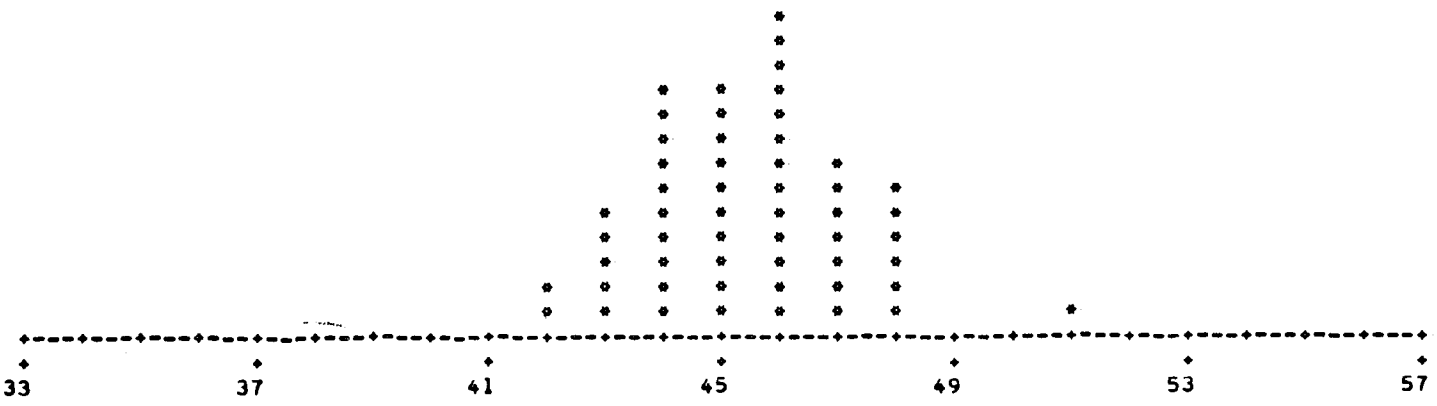


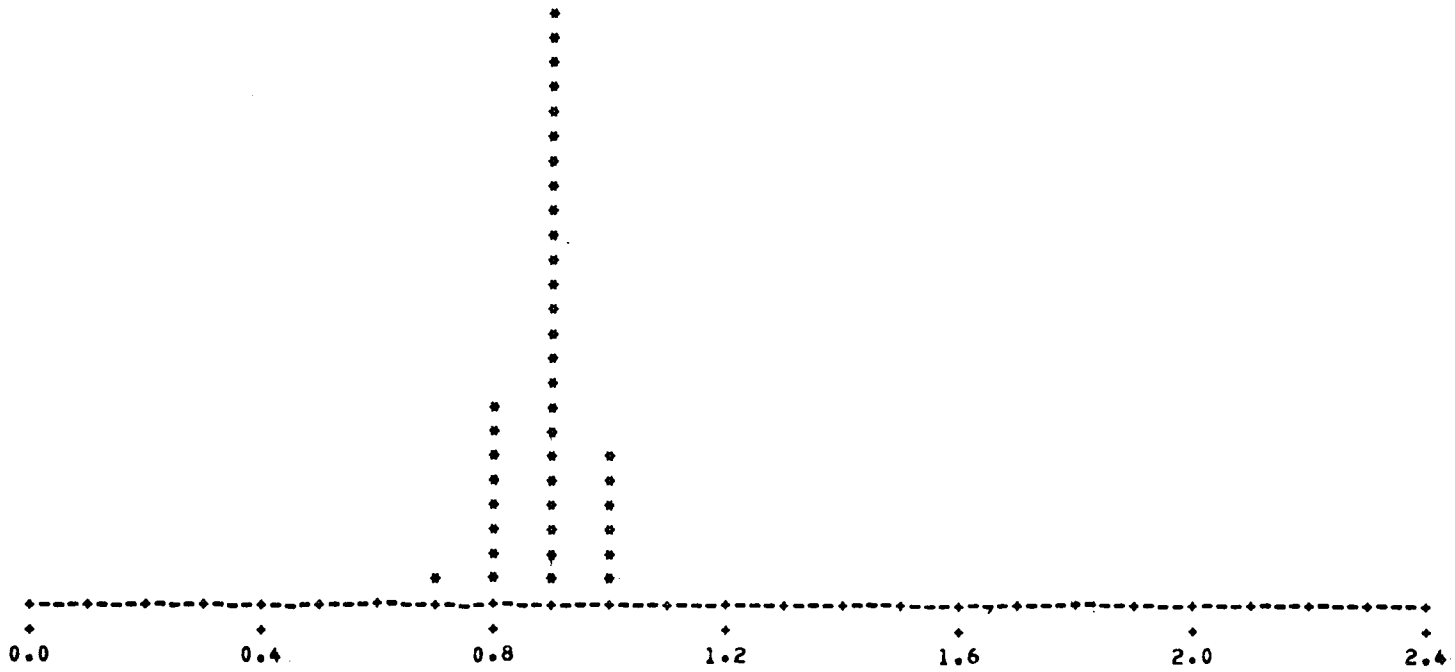
SAMPLE NO. 72 ALK. EACH * EQUALS 1.00 LABS



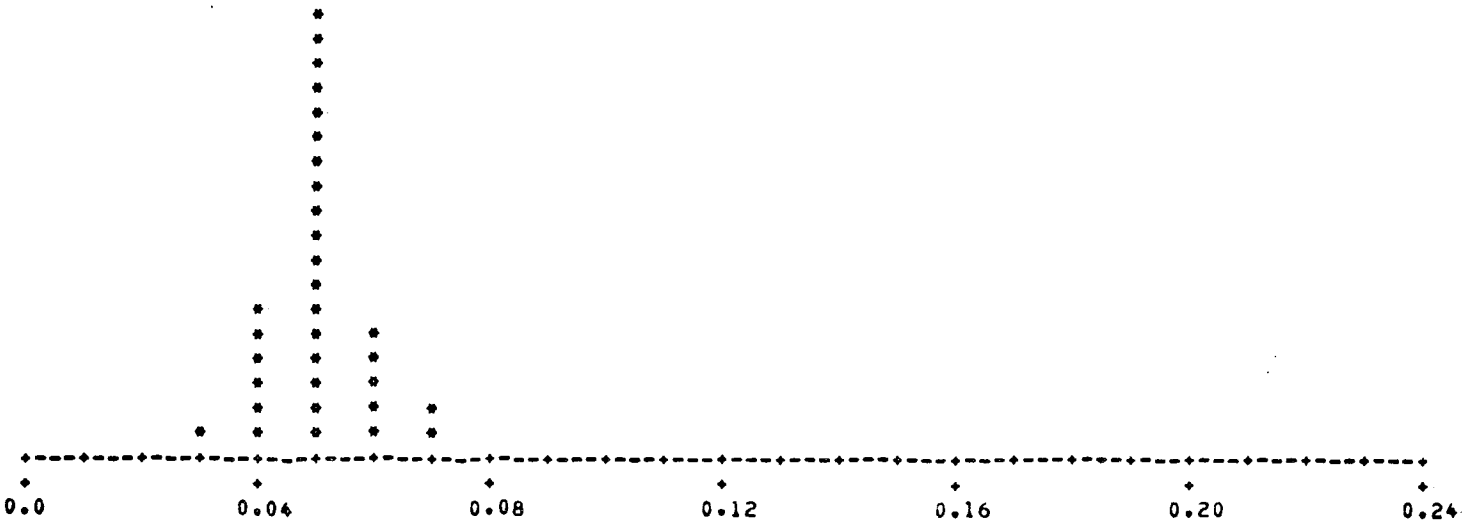
SAMPLE NO. 72 SO4 EACH * EQUALS 1.00 LABS



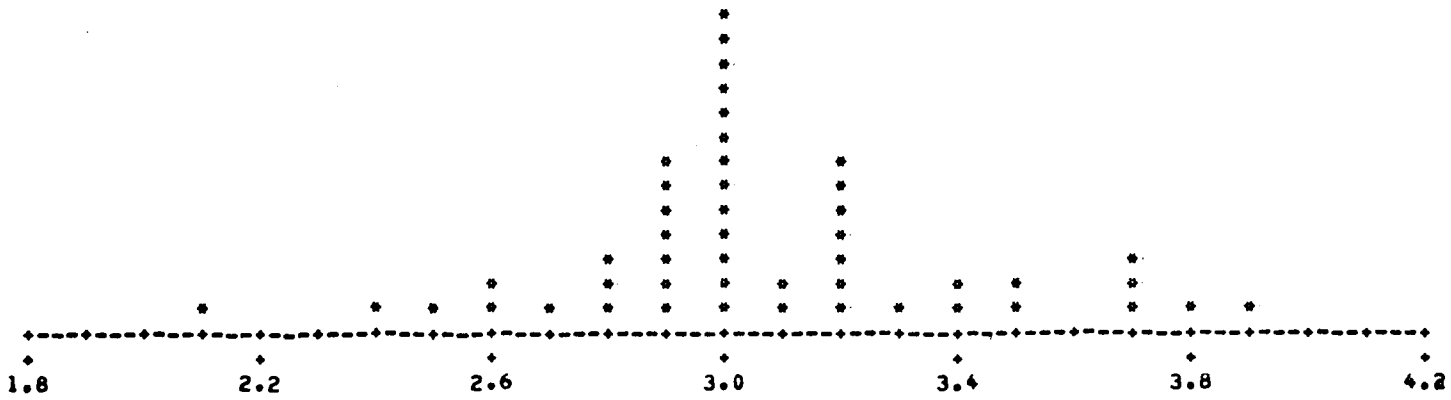
SAMPLE NO. 72 CL EACH * EQUALS 1.00 LABS



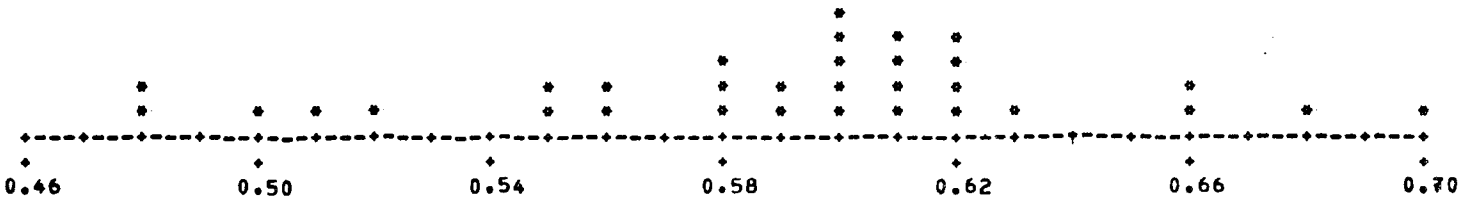
SAMPLE NO. 72 F EACH * EQUALS 1.12 LABS



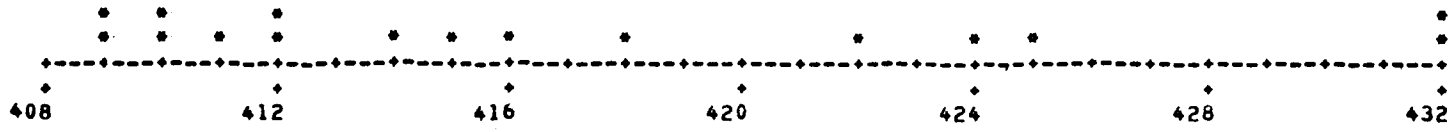
SAMPLE NO. 72 NO2-N EACH * EQUALS 1.00 LABS



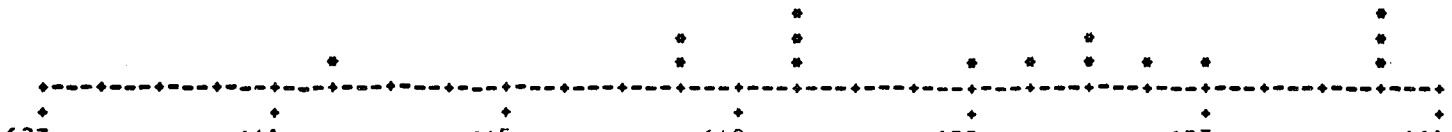
SAMPLE NO. 72 NO3-N EACH * EQUALS 1.00 LABS



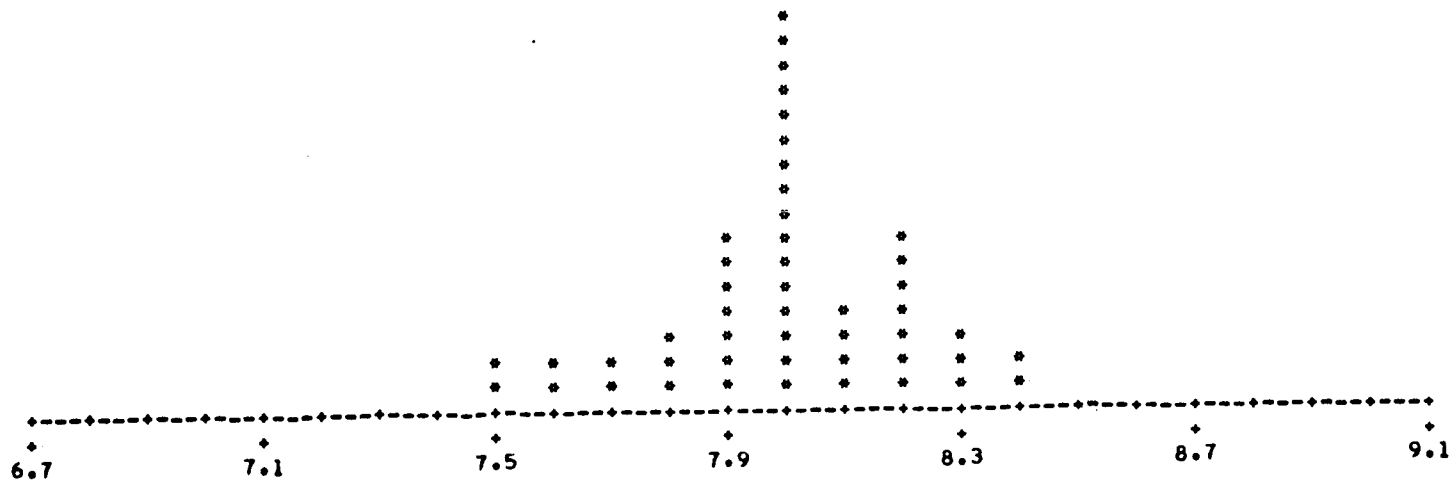
SAMPLE NO. 72 P,TOTAL EACH * EQUALS 1.00 LABS



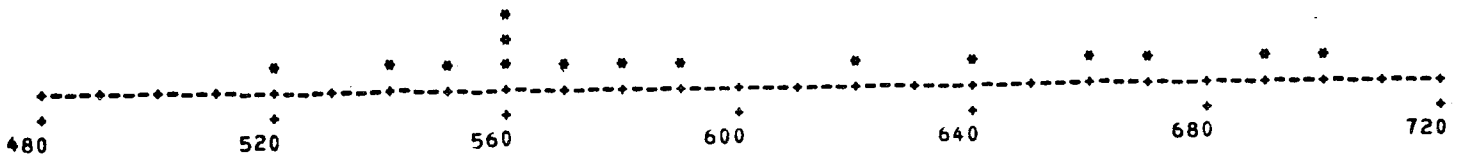
SAMPLE NO. 72 DSRD180 EACH * EQUALS 1.00 LABS



SAMPLE NO. 72 SP.COND EACH * EQUALS 1.00 LABS

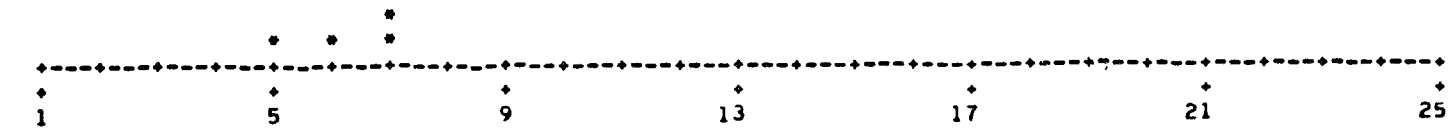


SAMPLE NO. 72 PH EACH * EQUALS 1.00 LABS

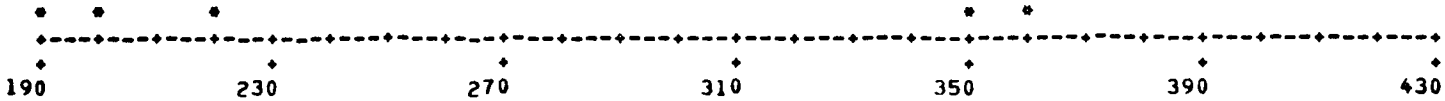


SAMPLE NO. 72 B EACH * EQUALS 1.00 LABS

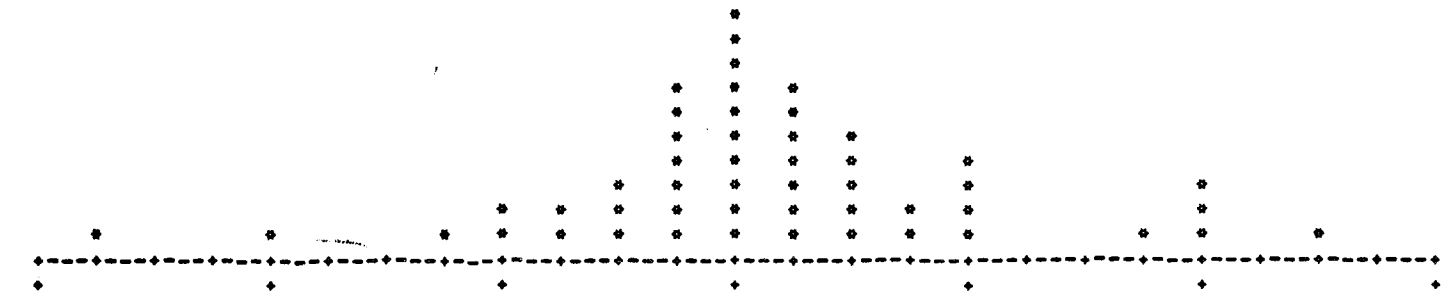
SAMPLE NO. 72 SR EACH * EQUALS 1.00 LABS



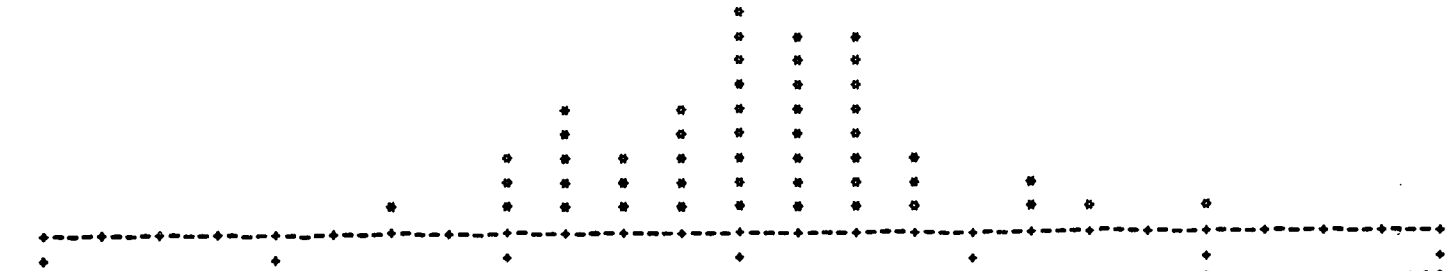
SAMPLE NO. 72 V EACH * EQUALS 1.00 LABS



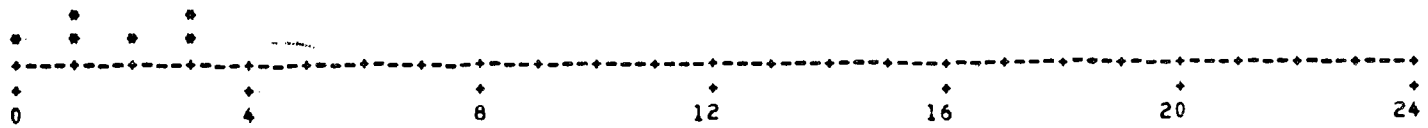
SAMPLE NO. 73 AL EACH * EQUALS 1.00 LABS



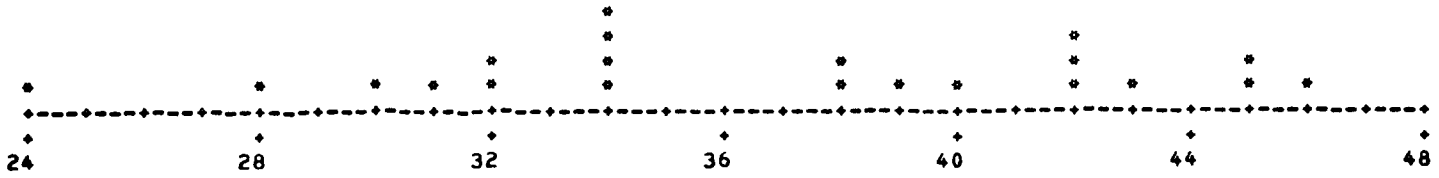
SAMPLE NO. 73 FE EACH * EQUALS 1.00 LABS



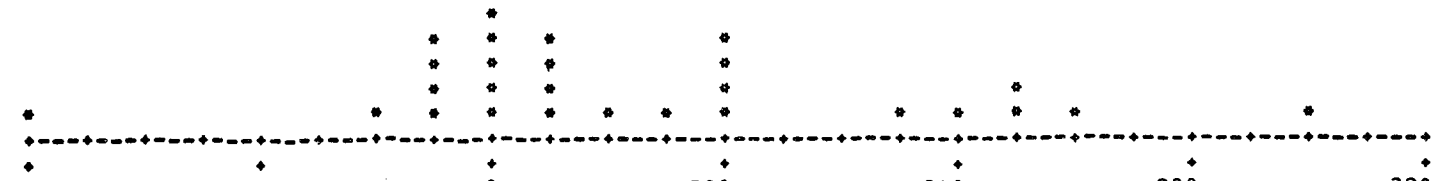
SAMPLE NO. 73 MN EACH * EQUALS 1.00 LABS



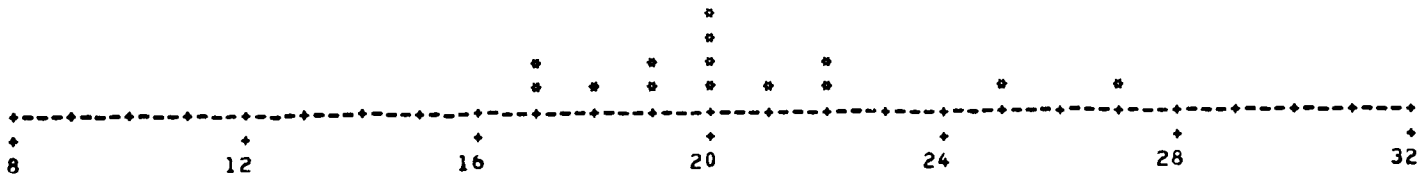
SAMPLE NO. 73 SB EACH * EQUALS 1.00 LABS



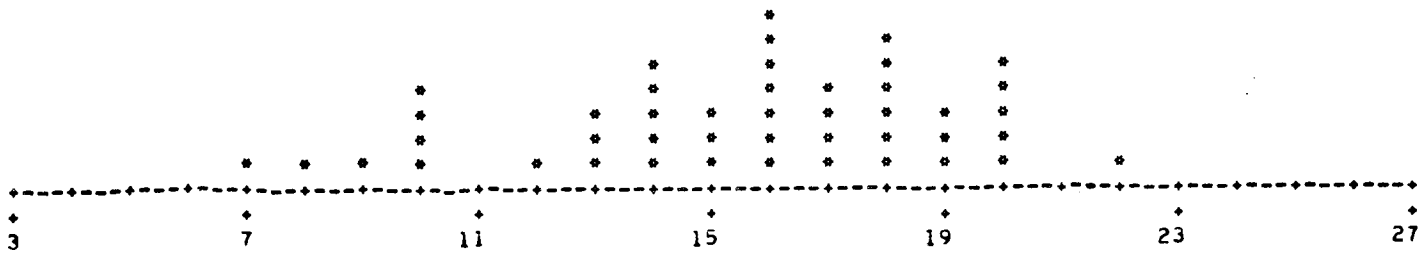
SAMPLE NO. 73 AS EACH * EQUALS 1.00 LABS



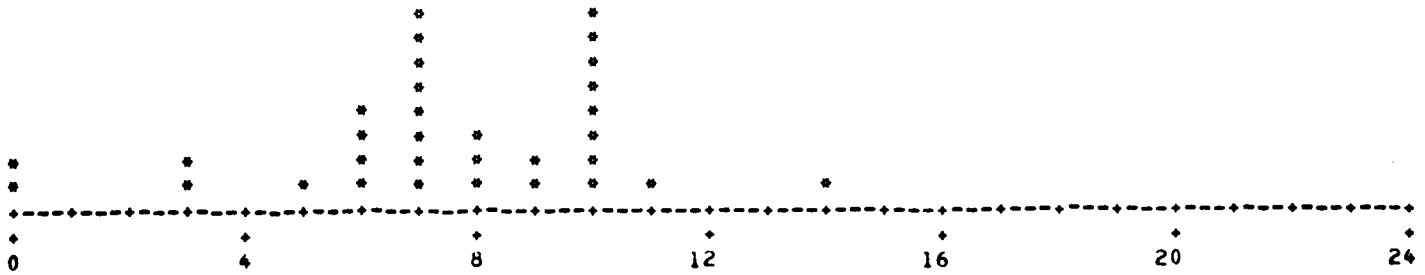
SAMPLE NO. 73 BA EACH * EQUALS 1.00 LABS



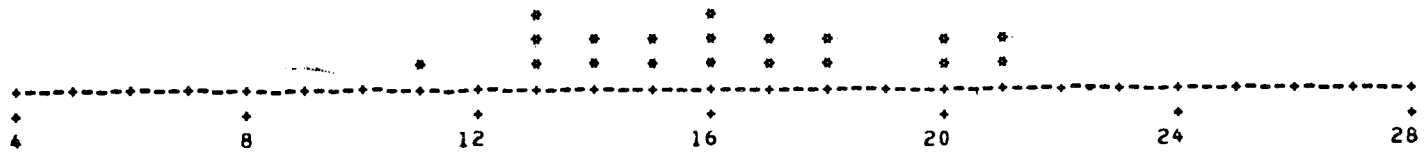
SAMPLE NO. 73 BE EACH * EQUALS 1.00 LABS



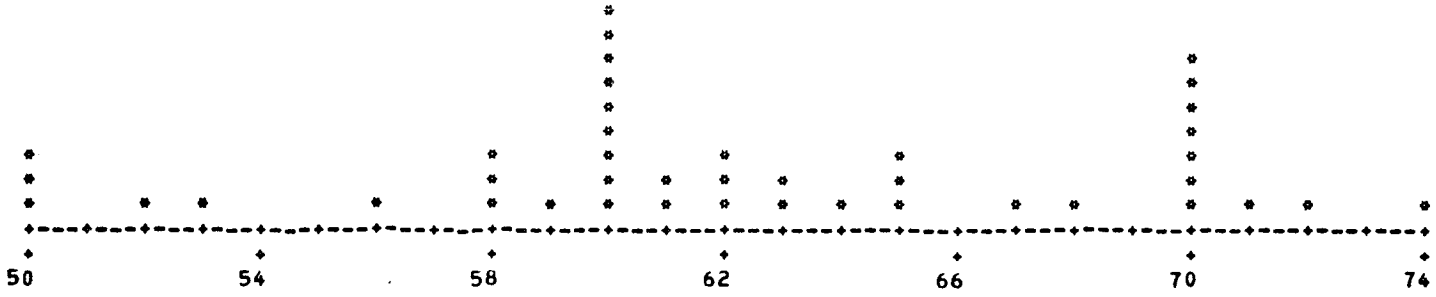
SAMPLE NO. 73 CD EACH * EQUALS 1.00 LABS



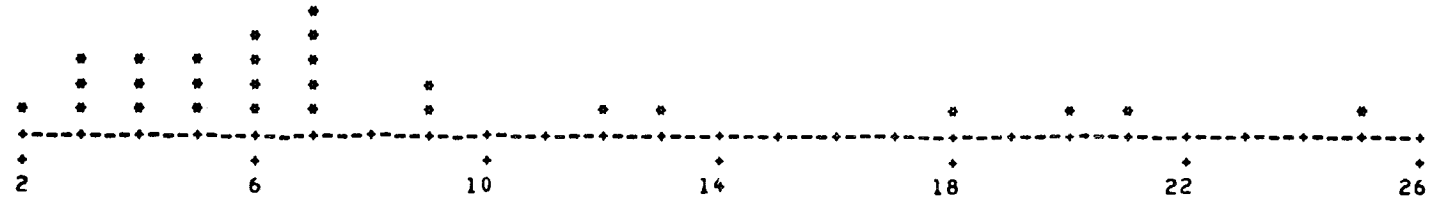
SAMPLE NO. 73 CR TOT EACH * EQUALS 1.00 LABS



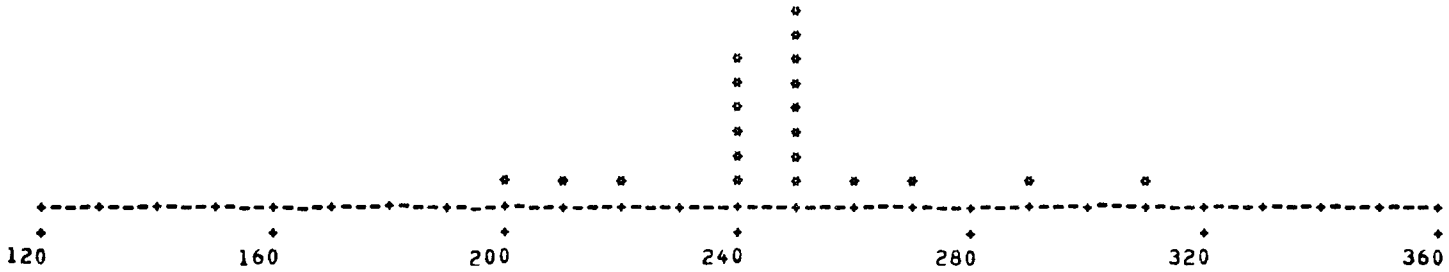
SAMPLE NO. 73 CO EACH * EQUALS 1.00 LABS



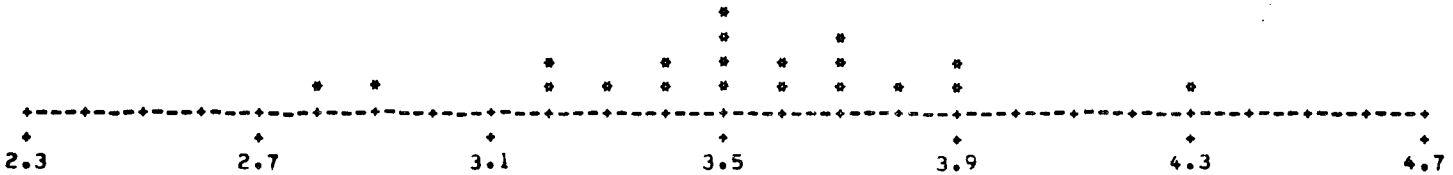
SAMPLE NO. 73 CU EACH * EQUALS 1.00 LABS



SAMPLE NO. 73 PB EACH * EQUALS 1.00 LABS

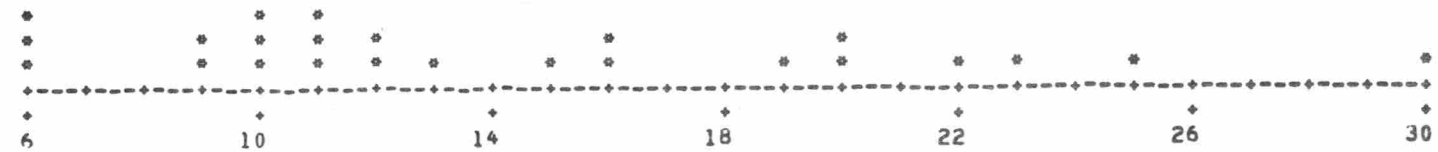


SAMPLE NO. 73 LI EACH * EQUALS 1.00 LABS

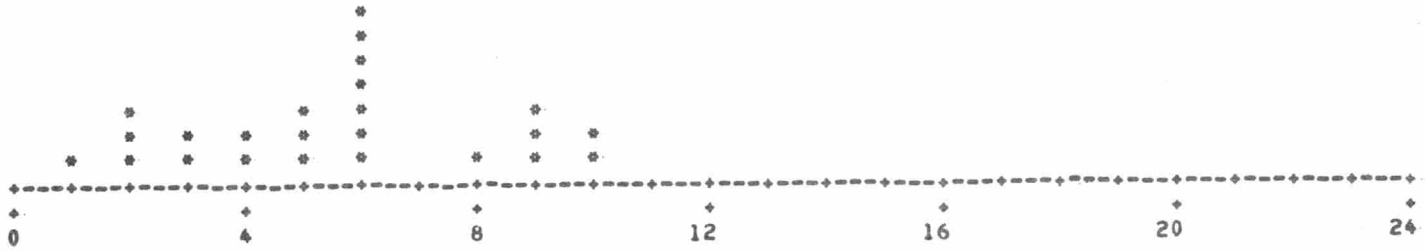


SAMPLE NO. 73 HG EACH * EQUALS 1.00 LABS

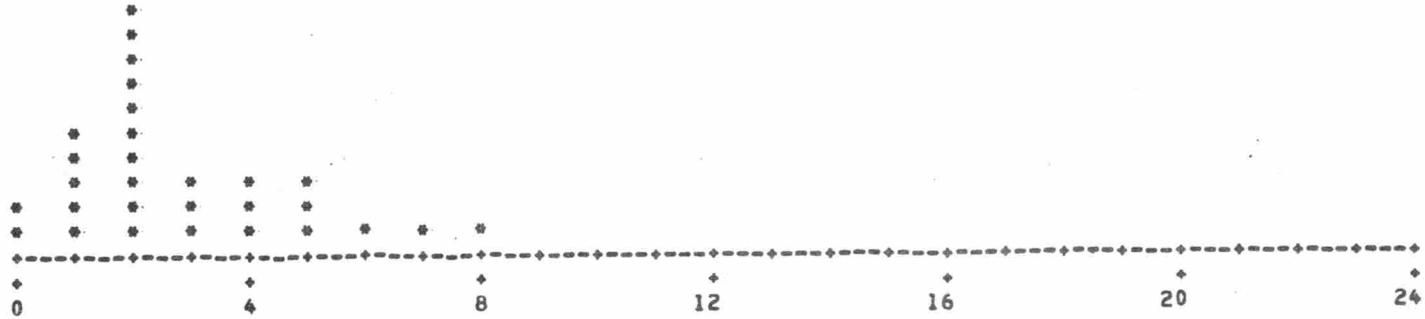
SAMPLE NO. 73 MO EACH * EQUALS 1.00 LABS



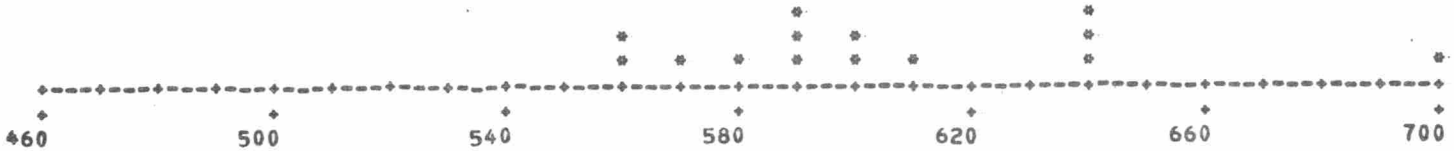
SAMPLE NO. 73 NI EACH * EQUALS 1.00 LABS



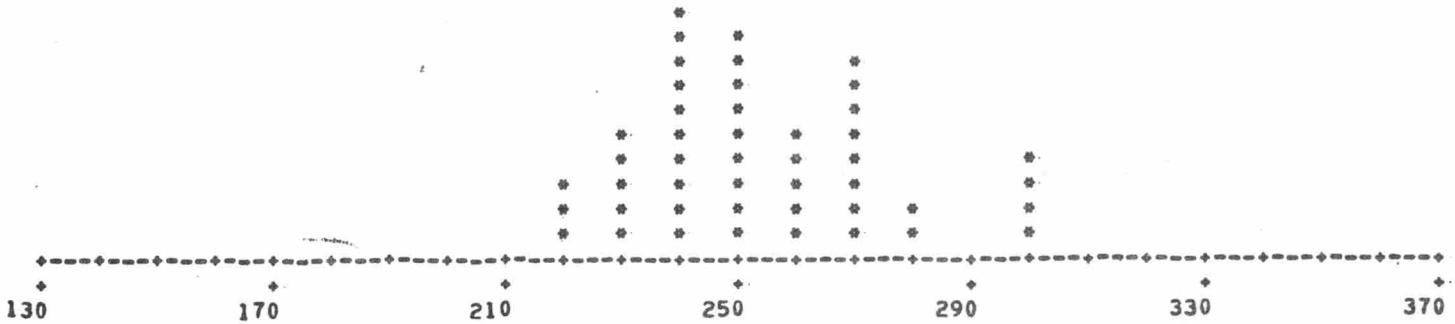
SAMPLE NO. 73 SE EACH * EQUALS 1.00 LABS



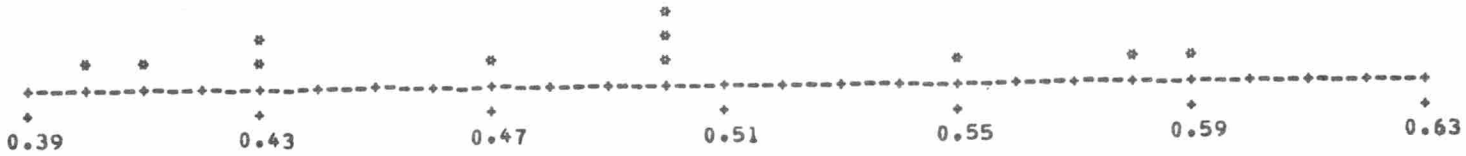
SAMPLE NO. 73 AG EACH * EQUALS 1.00 LABS



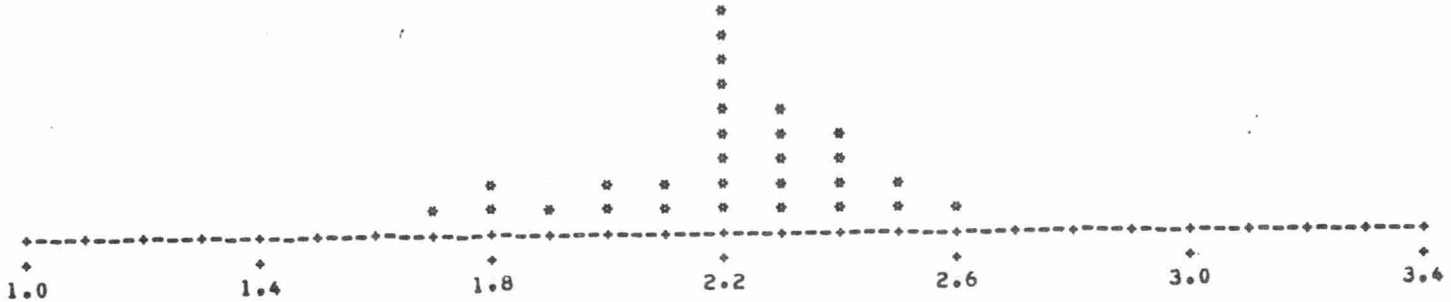
SAMPLE NO. 73 SR EACH * EQUALS 1.00 LABS



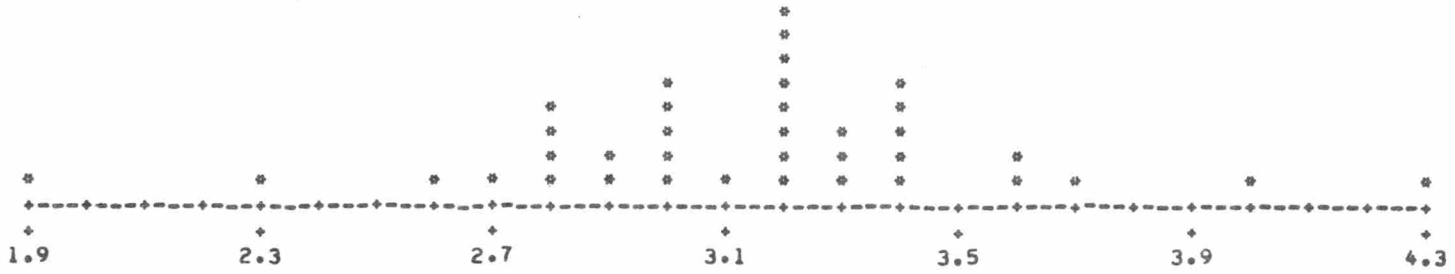
SAMPLE NO. 73 ZN EACH * EQUALS 1.00 LABS



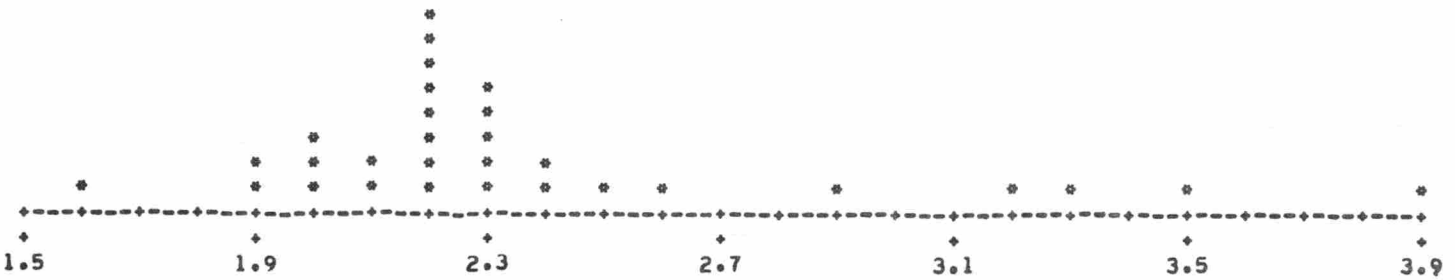
SAMPLE NO. 3 ORG-N EACH * EQUALS 1.00 LABS



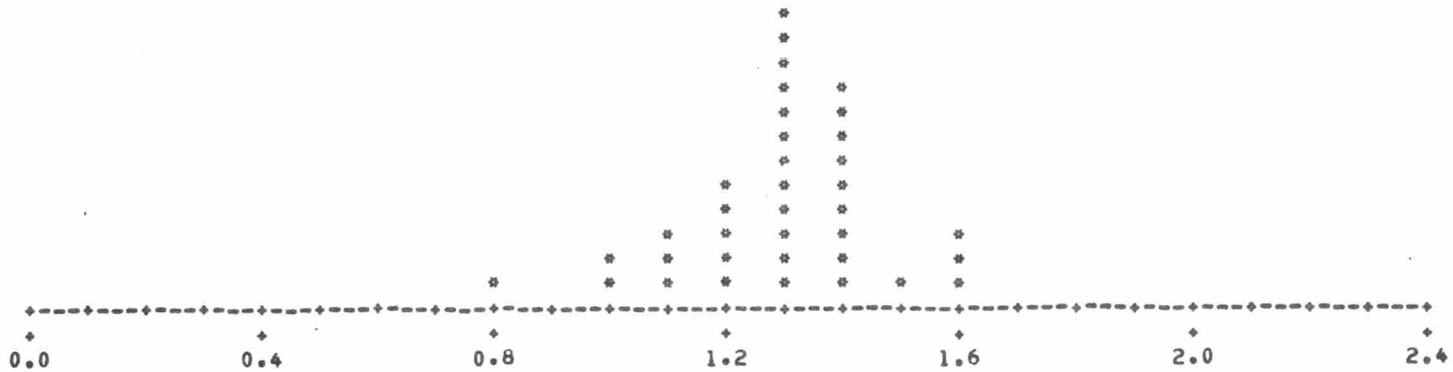
SAMPLE NO. 3 NO2-N EACH * EQUALS 1.00 LABS



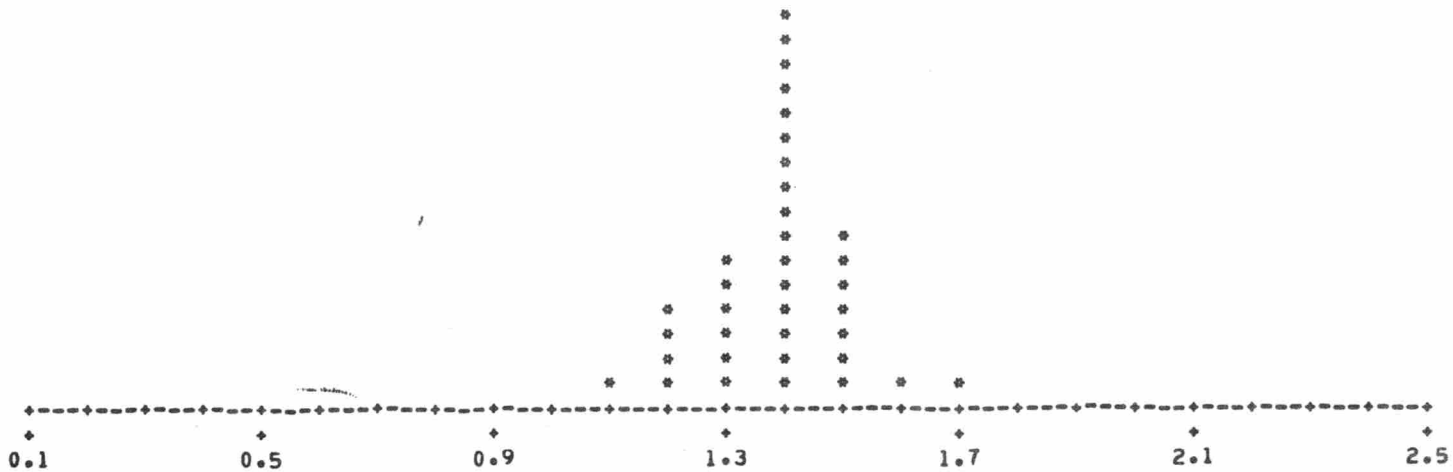
SAMPLE NO. 3 NH3-N EACH * EQUALS 1.00 LABS



SAMPLE NO. 3 NO3-N EACH * EQUALS 1.00 LABS



SAMPLE NO. 3 PO4-P EACH * EQUALS 1.00 LABS



SAMPLE NO. 3 P,TOTAL EACH * EQUALS 1.00 LABS

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, SIO2

METHOD	MEAN	ST.DEV	N
OVER-ALL	8.0000	0.7229	39
MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1	7.5667	0.1528	3
MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1	8.3600	0.5813	5
HETEROPOLY BLUE, APHA STD METH, 14ED	8.3500	0.5804	4
MOLYBDOSILICATE, APHA STD METH, 14ED	7.9900	0.7564	10
TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE	8.0167	0.5846	6
EMISSION-PLASMA	7.6167	0.7279	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, CA

METHOD	MEAN	ST.DEV	N
OVER-ALL	61.7544	3.5268	57
ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	61.8333	2.7579	12
EDTA TITRIMETRIC, APHA STD METH, 14ED	61.3077	3.6603	13
ATOMIC ABS-DIRECT	61.3500	4.3563	20
EMISSION-PLASMA ICP	62.8000	2.6564	10

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, MG

METHOD	MEAN	ST.DEV	N
OVER-ALL	13.5556	0.9450	54
ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	13.5833	0.9003	12
ATOMIC ABS-DIRECT	13.5652	0.7278	23
EMISSION-PLASMA ICP	13.6000	0.5164	10
CALCULATION FROM CA PLUS MG	13.6667	1.8619	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, NA

METHOD	MEAN	ST.DEV	N
OVER-ALL	56.2373	3.4458	59
ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	57.2500	3.1960	8
ATOMIC ABS-DIRECT	55.6154	2.6697	26
EMISSION-FLAME	55.6000	4.4690	15
EMISSION-PLASMA ICP	58.4444	3.2830	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, K

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.7596	0.4611	62
ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	3.8750	0.4921	8
ATOMIC ABS-DIRECT	3.6615	0.4060	26
EMISSION-FLAME	3.8214	0.5591	14
EMISSION-PLASMA ICP	3.9500	0.3697	4

STATISTICAL INFORMATION BY METHOD -- SAMRLE 72, ALK.

METHOD	MEAN	ST.DEV	N
OVER-ALL	140.3830	5.2732	47
ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1	143.0000	4.8477	5
ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1	137.6667	6.8069	3
POTENTIOMETRIC, APHA STD METH, 14ED	141.5294	4.9006	17
INDICATOR, APHA.STD METH, 14ED	139.2308	4.7811	13
AUTOMATED ELECTROMETRIC TITRATION	141.3333	1.1550	3
OTHER	138.4000	8.7643	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, SO4

METHOD	MEAN	ST.DEV	N
OVER-ALL	112.9423	12.7301	52
GRAVIMETRIC, APHA STD METH, 14ED	108.6250	6.6103	8
TURBIDIMETRIC	111.5000	10.5532	28
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE	116.2000	19.8316	10
OTHER	120.0000	17.3205	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, CL

METHOD	MEAN	ST.DEV	N
OVER-ALL	45.4630	1.7773	54
MOHR, I-1183, USGS TWRI BK5 CH A1	46.5000	1.7321	4
FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1	45.6667	1.5277	3
ARGENTOMETRIC, APHA STD METH, 14ED	45.7143	2.2678	14
MERCURIC NITRATE, APHA STD METH, 14ED	44.5833	1.3790	12
TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE	45.4545	1.4398	11
SILVER NITRATE, ASTM METHOD B, D512	46.6667	1.5277	3
OTHER	45.0000	2.0000	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, F

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.8851	0.0722	47
ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1	0.8750	0.0463	8
MANUAL ION-SELECTIVE ELECTRODE	0.8727	0.0827	22
SPADNS, APHA STD METH, 14ED	0.9500	0.0577	4
TECHNICON AUTOANALYZER, ALIZIRIN	0.9250	0.0500	4
OTHER	0.8800	0.0837	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, NO2-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.0503	0.0086	32
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1	0.0540	0.0055	5
DIAZOTIZATION, APHA STD METH, 14ED	0.0500	0.0058	7
TECHNICON AUTOANALYZER, DIAZOTIZATION	0.0493	0.0088	15
DIAZOTIZATION, EPA	0.0500	0.0163	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, NO3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.0646	0.3558	48
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5	3.4500	0.3272	6
BRUCINE, APHA STD METH, 14ED	3.2222	0.4816	9
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	2.9739	0.2028	23
MANUAL, CADMIUM REDUCTION	3.0333	0.1528	3
OTHER	2.7667	0.3777	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.5900	0.0527	32
PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1	0.5733	0.0116	3
PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1	0.5967	0.0322	3
PHOSPHOMOLYBDATE, EPA	0.6333	0.0416	3
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	0.5660	0.0439	5
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	0.5929	0.0489	7
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	0.5620	0.0585	5
OTHER	0.6040	0.0796	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, DSRD180

METHOD	MEAN	ST.DEV	N
OVER-ALL	420.3157	28.7845	38
RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1	426.6665	32.7261	15
RESIDUE-FILTERABLE, APHA STD METH, 14ED	416.6665	26.9768	21

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, SP.COND

METHOD	MEAN	ST.DEV	N
OVER-ALL	649.8093	40.7384	42
WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1	653.3333	23.8642	3
DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1	682.5713	34.5808	7
WHEATSTONE BRIDGE	651.2307	23.9635	13
DIRECT READING INSTRUMENT	641.7646	43.1625	17

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, PH

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.9958	0.2113	48
ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1	8.0200	0.2301	10
ELECTROMETRIC	7.9886	0.2128	35
OTHER	8.0000	0.2003	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, B

METHOD	MEAN	ST.DEV	N
OVER-ALL	600.6665	58.1214	15
CURCUMIN, APHA STD METH, 14ED	648.0000	73.2803	5
EMISSION-PLASMA ICP	552.5000	9.5743	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	447.5000	31.0913	16
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	451.6665	43.0906	6
ATOMIC ABS-DIRECT	423.3333	25.1663	3
EMISSION PLASMA ICP	454.2856	17.1853	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 72, V

METHOD	MEAN	ST.DEV	N
OVER-ALL	13.3333	11.0030	6
EMISSION-PLASMA ICP	6.6667	0.5774	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, AL

METHOD	MEAN	ST.DEV	N
OVER-ALL	310.0000	318.3108	24
ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1	160.0000	54.7723	4
ATOMIC ABS-DIRECT	268.3333	253.3311	6
ATOMIC ABS-FLAMELESS	436.2500	369.9783	8
EMISSION PLASMA ICP	463.3333	554.1060	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, FE

METHOD	MEAN	ST.DEV	N
OVER-ALL	135.8000	38.1238	50
ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1	120.0000	33.6650	7
PHENANTHROLINE, APHA STD METH, 14ED	116.6667	95.0438	3
ATOMIC ABS-DIRECT, EPA	144.4444	41.8662	9
ATOMIC ABS-DIRECT	141.1111	31.2276	18
ATOMIC ABS-FLAMELESS	146.6667	65.0641	3
EMISSION-PLASMA ICP	130.0000	19.2725	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, MN

METHOD	MEAN	ST.DEV	N
OVER-ALL	342.6528	27.3690	49
ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	339.0000	33.4830	10
ATOMIC ABS-DIRECT, EPA	330.0000	23.9792	9
ATOMIC ABS-DIRECT	345.7141	23.5744	21
EMISSION-PLASMA ICP	348.5713	13.4521	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, SB

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.6667	1.2111	6
ATOMIC ABS-FLAMELESS	1.3333	1.5275	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, AS

METHOD	MEAN	ST.DEV	N
OVER-ALL	36.9667	11.4244	30
ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)	43.6667	15.4359	6
ATOMIC ABS-FLAMELESS	32.8000	10.8575	15

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, BA

METHOD	MEAN	ST.DEV	N
OVER-ALL	200.3226	86.1580	31
ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	282.0000	136.6382	5
ATOMIC ABS-DIRECT	205.8333	72.1688	12
ATOMIC ABS-FLAMELESS	175.0000	88.7130	6
EMISSION PLASMA ICP	162.8571	7.5595	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, BE

METHOD	MEAN	ST.DEV	N
OVER-ALL	20.5000	2.8216	14
ATOMIC ABS-DIRECT	18.5000	1.2910	4
EMISSION-PLASMA ICP	20.4000	2.9665	5
ATOMIC ABS-FLAMELESS	23.6667	2.8868	3

STATISTICAL INFORMATION BY METHOD -- SAMRLE 73, CD

METHOD	MEAN	ST.DEV	N
OVER-ALL	15.4889	3.5778	45
ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	15.1667	1.4720	6
ATOMIC ABS-DIRECT	16.3333	3.5355	9
ATOMIC ABS-FLAMELESS	15.4375	4.1145	16
EMISSION-PLASMA ICP	15.1667	4.4907	6
ATOMIC ABS-DIRECT, EPA	14.8333	4.1191	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, CR TOT

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.4375	3.0047	32
ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1	7.6667	0.5774	3
ATOMIC ABS-DIRECT	9.2500	3.1510	8
ATOMIC ABS-FLAMELESS	7.1667	1.9462	12
ATOMIC ABS-DIRECT, EPA	6.4000	3.9115	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, CO

METHOD	MEAN	ST.DEV	N
OVER-ALL	16.2105	2.9170	19
ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BK5 CH A1	14.0000	0.8165	4
ATOMIC ABS-FLAMELESS	16.7143	2.5635	7
EMISSION-PLASMA ICP	14.2500	2.7538	4
ATOMIC ABS-DIRECT, EPA	19.3333	2.0817	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, CU

METHOD	MEAN	ST.DEV	N
OVER-ALL	62.7447	8.5757	47
ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1	60.8571	7.1979	7
ATOMIC ABS-DIRECT	63.8333	7.7706	18
ATOMIC ABS-FLAMELESS	64.6250	9.4103	8
EMISSION-PLASMA ICP	64.0000	9.0185	7
ATOMIC ABS-DIRECT, EPA	59.8333	11.3034	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, PB

METHOD	MEAN	ST.DEV	N
OVER-ALL	14.8378	15.4011	37
ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	4.0000	4.5826	3
ATOMIC ABS-FLAMELESS	12.0000	14.5566	20
ATOMIC ABS-DIRECT	32.3333	8.0664	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, LI

METHOD	MEAN	ST.DEV	N
OVER-ALL	247.6190	23.6441	21
ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	241.4286	27.9456	7
ATOMIC ABS-DIRECT	240.0000	14.1421	7
EMISSION PLASMA ICP	254.0000	11.4018	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, HG

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.5200	0.3458	20
ATOMIC ABS-FLAMELES, I-1462, USGS TWRI BK5 CH A1	3.5333	0.2887	3
ATOMIC ABS-FLAMELESS, EPA	3.6273	0.3771	11
ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	3.4000	0.2000	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, MO

METHOD	MEAN	ST.DEV	N
OVER-ALL	24.6364	13.0328	11
EMISSION-PLASMA ICP	16.6000	6.4653	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, NI

METHOD	MEAN	ST.DEV	N
OVER-ALL	18.1667	14.6760	30
ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1	11.0000	1.8257	4
ATOMIC ABS-DIRECT	28.7000	19.6302	10
ATOMIC ABS-FLAMELESS	9.3000	3.5917	10
ATOMIC ABS-DIRECT, EPA	23.0000	8.4558	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, SE

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.5417	2.6372	24
ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1	6.3333	2.3094	3
ATOMIC ABS-HYDRIDE(NABH4)	5.0000	1.0000	3
ATOMIC ABS-FLAMELESS	5.3077	3.0382	13
OTHER	6.0000	4.0000	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, AG

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.8276	2.0012	29
ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1	1.5000	0.5774	4
ATOMIC ABS-DIRECT	3.7000	2.7101	10
ATOMIC ABS-FLAMELESS	2.3077	1.1821	13

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	589.4116	77.0121	17
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	630.0000	68.9202	5
ATOMIC ABS-DIRECT	554.0000	87.0632	5
EMISSION PLASMA ICP	585.7141	71.8471	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 73, ZN

METHOD	MEAN	ST.DEV	N
OVER-ALL	253.9130	21.3414	46
ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	251.4286	12.1501	7
ATOMIC ABS-DIRECT	254.8000	20.8417	25
EMISSION-PLASMA ICP	254.2857	24.3975	7
ATOMIC ABS-DIRECT, EPA	252.8571	30.3943	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, ORG-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.5146	0.3149	26
SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1	0.8420	0.4279	5
NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED	0.5975	0.3544	4
PHENATE, AUTO, EPA	0.5100	0.0964	3
TOTAL KJELDAHL, ORG N BY DIFF, EPA	0.3600	0.1852	3
OTHER	0.4400	0.2752	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, NO2-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.2034	0.2163	29
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1	2.3667	0.0578	3
DIAZOTIZATION, APHA STD METH, 14ED	2.0600	0.2302	5
TECHNICON AUTOANALYZER, DIAZOTIZATION	2.1937	0.2016	16
DIAZOTIZATION, EPA	2.2750	0.2986	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, NH3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.1816	0.4859	38
INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1	3.5200	0.4439	5
ION-SELECTIVE ELECTRODE, EPA	3.4833	0.6080	6
PHENATE, AUTO, EPA	3.1722	0.3691	18
DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1	2.5333	0.5508	3
OTHER	2.8750	0.3594	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, NO3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.7902	1.1903	41
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5	2.5000	0.9416	4
BRUCINE, APHA STD METH, 14ED	2.4750	0.3919	8
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	3.1526	1.5204	19
MANUAL, CADMIUM REDUCTION	2.2333	0.1528	3
OTHER	2.2600	0.7893	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, PO4-P

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.2944	0.1668	36
PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1	1.2333	0.0577	3
PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1	1.3333	0.3055	3
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	1.3000	0.2450	4
ASCORBIC ACID, APHA STD METH, 14ED	1.2611	0.1867	9
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	1.3091	0.1136	11
OTHER	1.3375	0.2287	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 3, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.3861	0.1199	36
PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1	1.2333	0.0577	3
PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1	1.6000	0.1000	3
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	1.3571	0.1272	7
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	1.3875	0.0991	8
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	1.3875	0.0641	8
OTHER	1.3750	0.1258	4