EA Engineering, Science, and Technology

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N60087.AR.001161
NAS BRUNSWICK
5090.3a

4 March 2002

Mr. Lonnie J. Monaco
Code 1821 LM
Engineering Field Activity Northeast
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop 82
Lester, Pennsylvania 19113-2090

RE: Site 7 – Ground-Water Sampling Results, Naval Air Station, Brunswick, Maine
EA Project No. 29600.82

Dear Mr. Monaco:

This report provides a summary of ground-water sampling activities conducted at Site 7 on 28 and 29 November 2001. Ground-water sampling was conducted in accordance with the Revised Final Letter Work Plan for Ground-Water and Soil Investigation (EA 2001[1]) and the Technical Evaluation for Site 7 that outlines the site history (EA 2000[2]). The location of Site 7 is shown on Figure 1.

The objective of the ground-water sampling activities conducted at Site 7 was to monitor for cadmium-impacted ground water at the site. Figure 2 provides the layout of the seven monitoring wells. Monitoring wells MW-NASB-094 and MW-NASB-229 were removed on 17 July 2001 as part of the investigative excavation activities at the site. Monitoring well MW-NASB-099 was surveyed by Cornerstone Professional Land Surveying, Inc. (Bowdoinham, Maine) on 7 November 2001. Table 1 provides a summary of ground-water elevations for the site.

## SUMMARY OF SITE 7 GROUND-WATER SAMPLING ACTIVITIES

### Ground-Water Sampling Methodology

Ground-water samples were collected from monitoring wells MW-NASB-092, MW-NASB-095, MW-NASB-099, and MW-NASB-228 on 28 November 2001 and from monitoring wells MW-NASB-091, MW-NASB-093, and MW-NASB-096 on 29 November 2001. Ground-water samples were collected from each monitoring well via low-flow ground-water sampling techniques as per the approved Long-Term Monitoring Plans established for Naval Air Station, Brunswick, with the exception of monitoring well MW-NASB-091, in which ground-water samples were collected using a peristaltic pump. Each well was purged using either a Grundfos low-flow submersible pump

1. EA Engineering, Science, and Technology. 2001. Revised Final Letter Work Plan for Ground-Water and Soil Investigation at Site 7, Naval Air Station, Brunswick, Maine. June.
2. EA Engineering, Science, and Technology. 2000. Revised Technical Evaluation of Site 7, Naval Air Station, Brunswick, Maine. 28 August.

or a peristaltic pump prior to sample collection. Field parameters were measured, including pH, oxidation-reduction potential, temperature, turbidity, and conductivity. Copies of the Field Record of Well Gauging, Purging, and Sampling forms are provided as Attachment A.

**Ground-Water Sampling Results**

Ground-water samples were collected from each of the 7 monitoring wells and analyzed for cadmium by U.S. Environmental Protection Agency Method 6010B. The ground-water sampling results were compared to the Maximum Exposure Guideline and Maximum Contaminant Level for cadmium (0.005 mg/L) and are summarized in Table 2. The laboratory analytical data Form Is for the November 2001 ground-water sampling event are provided as Attachment B.

The ground-water analytical data results indicate that cadmium (0.022 mg/L) was detected above the Maximum Exposure Guideline and Maximum Contaminant Level (0.005 mg/L) in ground-water samples collected from monitoring well MW-NASB-099. Cadmium concentrations were either below the method reporting limit or below the Maximum Exposure Guideline and Maximum Contaminant Level for cadmium (0.005 mg/L) in ground-water samples collected from the six remaining monitoring wells.

**RECOMMENDATIONS**

The cadmium concentration detected in ground-water monitoring well MW-NASB-099 (0.022 mg/L) exceeded the State MEG of 0.005 mg/L during November 2001. This result is the same as the August 2001 ground-water sample cadmium concentration (0.0218 mg/L). EA recommends that well MW-NASB-099 be sampled during the Spring 2002 sampling event to determine if cadmium exhibits any decreasing trend in concentration over time.

If you have any questions or comments, please do not hesitate to contact me.

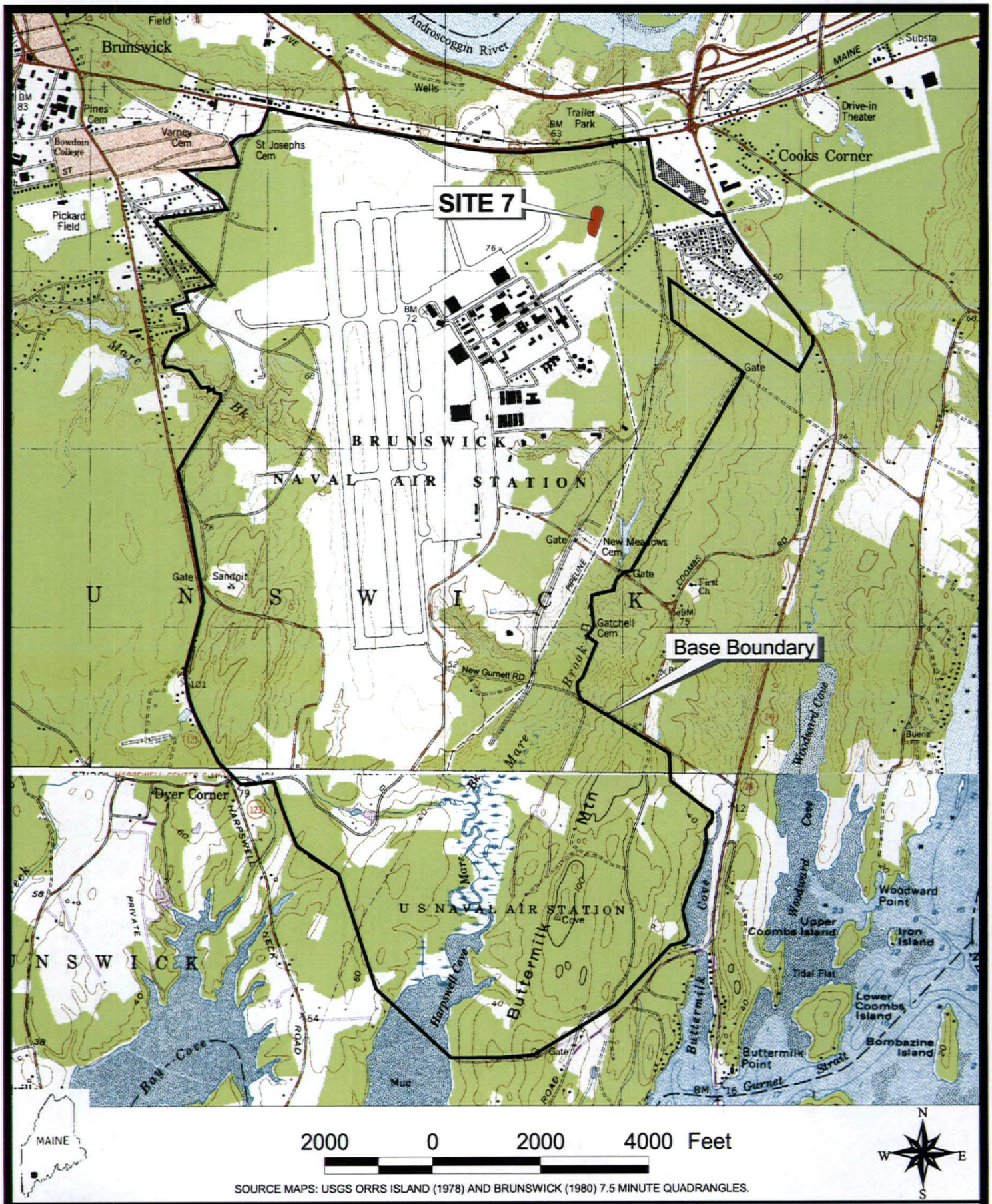
Sincerely,

Alexander Easterday

Alexander C. Easterday, P.G.
CTO Manager

ACE/caw
Attachments

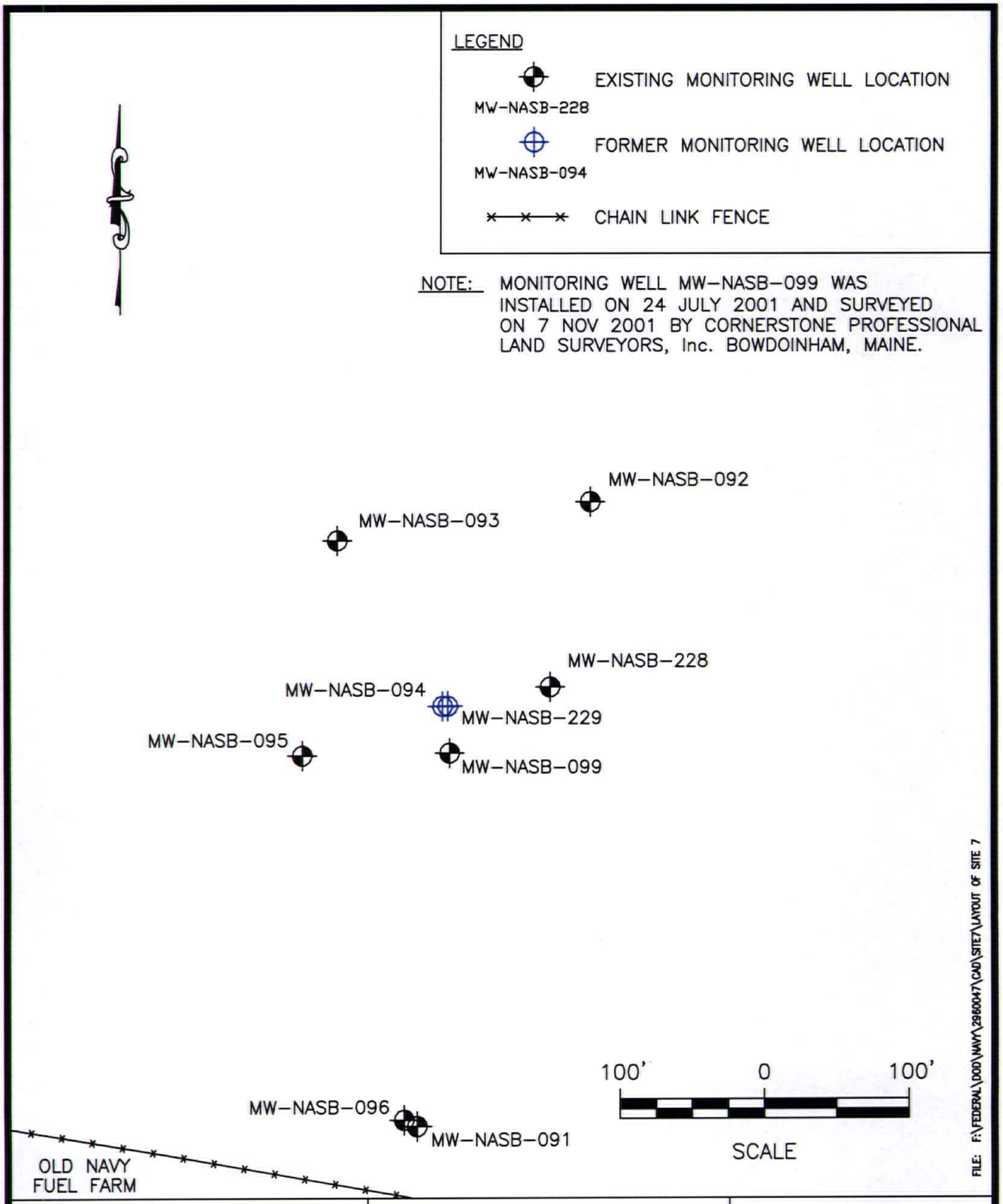
cc: M. Fohner, EFANE (1 copy)
C. Sait, MEDEP (2 copies)
M. Barry, EPA (1 copy)
T. Williams, NASB (1 copy)
C. Lepage, Lepage Environmental (1 copy)
Administrative Record (2 copies)




SOURCE MAPS: USGS ORRS ISLAND (1978) AND BRUNSWICK (1980) 7.5 MINUTE QUADRANGLES.

| EA ENGINEERING, SCIENCE, AND TECHNOLOGY | SITE 7<br>NAVAL AIR STATION, BRUNSWICK, MAINE | FIGURE I<br>SITE LOCATION MAP |
|---|---|---|

| PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT No | FILE No |
|---|---|---|---|---|---|---|---|
| ACE | BT | BT | ACE | AS SHOWN | 20 OCT. 2000 | 29600.47 | I:\NASB_GIS \NAVY.APR |

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SITE 7
NAVAL AIR STATION
BRUNSWICK, MAINE

FIGURE 2
SITE PLAN

| PROJECT MGR | DESIGNED BY | DRAWN BY | CHECKED BY | SCALE | DATE | PROJECT NO | FILE No. |
|---|---|---|---|---|---|---|---|
| ACE | PLN | SAP | PLN | AS SHOWN | 13 SEPT 2001 | 29600.47 | SITE7LAYOUT |

# TABLE 1 MONITORING WELL GAUGING SUMMARY

| Well Designation | Well Riser Elevation (ft MSL) | Depth to Well Bottom (ft below top of PVC well riser) | Gauging Data (28 and 29 November 2001) | |
|---|---|---|---|---|
| | | | Depth to Water (ft below top of PVC well riser) | Water Table Elevation (ft MSL) |
| MW-NASB-091 | 76.08 | 20.54 | 15.38 | 60.70 |
| MW-NASB-092 | 77.02 | 14.35 | 8.91 | 68.11 |
| MW-NASB-093 | 77.45 | 18.95 | 9.14 | 68.31 |
| MW-NASB-095 | 78.87 | 16.88 | 10.61 | 68.26 |
| MW-NASB-096 | 73.36 | 11.00 | 6.73 | 66.63 |
| MW-NASB-099 | 78.53 | 13.46 | 10.18 | 68.35 |
| MW-NASB-228 | 75.65 | 9.98 | 7.54 | 68.11 |

NOTE: MSL = Mean sea level.
PVC = Polyvinyl chloride.

# TABLE 2 SUMMARY OF ANALYTICAL RESULTS FROM GROUND-WATER SAMPLES COLLECTED ON 28 AND 29 NOVEMBER 2001

| Analyte | MW-NASB-092 | MW-NASB-095 | MW-NASB-099 | MW-NASB-228 | MW-NASB-091 | MW-NASB-093 | MW-NASB-096 | MEG[a] | MCL[b] |
|---|---|---|---|---|---|---|---|---|---|
| **CADMIUM BY U.S. ENVIRONMENTAL PROTECTION AGENCY METHOD 6010/200.7 (mg/L)** | | | | | | | | | |
| Cadmium | (<0.0005U) | (<0.0005U) | **0.022** | (<0.0005U) | 0.0007 | (<0.0005U) | (<0.0005U) | 0.005 | 0.005 |

(a) Maximum Exposure Guideline (MEG) obtained from State of Maine Department of Human Services, Revised Exposure Guidelines, memorandum dated 23 October 1992.
(b) Maximum Contamination Level (MCL) obtained from 40 CFR Parts 141 and 142 (U. S. EPA 1999).

NOTE: U = Not detected. Sample quantitation limits are shown as (<___U).
Results in bold indicate concentrations in excess of standards.
The locations of the ground-water wells listed above are shown on Figure 2.

# Attachment A

# Field Record of Well Gauging, Purging, and Sampling Forms

EA ENGINEERING, SCIENCE, AND TECHNOLOGY INC

# FIELD RECORD OF WELL GAUGING

| | | |
|---|---|---|
| Project Name: BNAS Site 07 | Project No: 29600.~~85~~82 | Date: 11/28 |
| Weather/Temperature: overcast, breezy, damp, low to mid 40's (°F) | | |
| EA Personnel: SW/JP | Equipment: water-level meter (Solinist) | |

| Well No. | Labeled/ Capped | Well Locked | VOCs Concentration (ppm) | | Casing/Seal Condition | Protective Casing Elevation (ft MSL) | PVC Casing Elevation (ft MSL) | Depth to Water (ft) | Measured Well Depth (ft) | Water Table Elevation (ft MSL) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Air Ambient | Well Mouth | | | | | | |
| MW-NASB-225 | Y/Y | Y | 0 | 0 | good | | 75.65 | 7.54 | 9.98 | ~~65.67~~ JAP 68.11 |
| MW-NASB-092 | N/Y | Y | 0 | 0 | good | | 77.02 | 8.91 | 14.35 | 68.11 |
| MW-NASB-093 | N/Y | Y | 0 | 0 | good | | 77.45 | 9.14 | 18.95 | JAP ~~68.60~~ 68.31 |
| MW-NASB-095 | Y/Y | Y | 0 | 0 | good | | 78.87 | 10.61 | 16.88 | 68.26 |
| MW-NASB-099 | N/Y | Y | 0 | 0 | good | | 78.53 | 10.18 | 13.46 | ~~66~~ 68.35 |
| MW-NASB-091 | N/Y | Y | 0 | 0 | good | | 76.08 | 15.38 | 20.54 | 60.70 |
| MW-NASB-096 | Y/Y | Y | 0 | 0 | good | | 73.36 | ~~[illegible]~~ 6.73 JAP 11/28 | 11.00 | ~~66.83~~ JAP 66.63 |

NOTE: MSL = Mean sea level; PVC = Polyvinyl chloride; VOC = Volatile organic compounds.

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Site 07
WELL I.D.: MW-NASB-091
WELL CONDITION: bend/shift @ 3' below TOC

PROJECT NUMBER: 29600.82
WELL LOCK STATUS: yes
WEATHER: snowy, low 30's

GAUGE DATE: 11/28/01
SOUNDING METHOD: waterlevel meter
STICK UP/DOWN (ft):

GAUGE TIME: 1000
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/29/01
PURGE METHOD: peristaltic
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1020
FIELD PERSONNEL: SW/JSP
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): 20.45
B. DEPTH TO WATER (ft): 16.44
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L): 1015
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 1020 | 1025 | 1030 | 1035 | 1040 | 1045 |
| Depth to Water (ft) | 18.70 | 19.85 | 19.10 | 19.15 | 19.15 | 19.15 |
| Purge Rate (L/min) | ~~3~~ 2 | ~~3~~ 2 | ~~3~~ 2 | 2 | 2 | 2 |
| Volume Purged (L) | 0 | ~~15~~ 10 | ~~30~~ 20 | 30 | 40 | 50 |
| pH | 5.91 | 6.02 | 5.99 | 6.00 | 5.99 | 6.00 |
| Temperature (°C) | 8.92 | 9.22 | 9.25 | 9.18 | 9.21 | 9.22 |
| Conductivity (μmhos/cm) | 78 | 70 | 64 | 66 | 64 | 63 |
| Dissolved Oxygen (mg/L) | 14.65 | 15.25 | 15.53 | 17.15 | 17.67 | 17.47 |
| Turbidity (NTU) | 52.8 | 267 | 213 | 681 | 100 (A) | 216 |
| Eh (mv) | 277 | 167 | 88 | 231 | 242 | 253 |

TOTAL QUANTITY OF WATER REMOVED (L): 50

SAMPLERS: JP SW
SAMPLING DATE: 11/29/01
SAMPLE TYPE: grab GW
SAMPLE BOTTLE IDs: BN-B57-MW091
SAMPLE PARAMETERS: Cd (Total)

SAMPLING TIME (START/END): 1050
DECONTAMINATION FLUIDS USED: Alconox, DI, IsO.
SAMPLE PRESERVATIVES: $HNO_3$

COMMENTS AND OBSERVATIONS: Sampling conducted w/ non-variable rate peristaltic due to curvature in well at approx. 8' below TOC. Normal low flow procedures will be followed. Intake ≈ 0.5' above bottom of well as rapid draw down is expected. (A) Final Turb readings taken at lowest point after cleaning. Abundance of airbubbles associated w/ high

rate peristaltic pumping assumed to be putting air bubbles on lens. Secondary static Turb reading indicates NTUs at 7. Sample @ 1050

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 07 NASB
WELL I.D.: MW-NASB 096
WELL CONDITION: good

PROJECT NUMBER: 29600.56582
WELL LOCK STATUS: locked
WEATHER: snow 23°F

GAUGE DATE: 11/28/01
SOUNDING METHOD: electrical
STICK UP/DOWN (ft): 2'

GAUGE TIME:
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/29/01
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 0910
FIELD PERSONNEL: SW/JP
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): 11.00
B. DEPTH TO WATER (ft): 6.73
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 0910 | 0915 | 0920 | 0925 | 0930 | 0935 |
| Depth to Water (ft) | 6.97 | 6.95 | 6.95 | 6.95 | 6.95 | 6.95 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | — | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 |
| pH | 5.40 | 5.39 | 5.36 | 5.33 | 5.29 | 5.30 |
| Temperature (°C) | 8.73 | 10.61 | 12.08 | 12.57 | 14.28 | 14.70 |
| Conductivity (μmhos/cm) | 65 | 60 | 60 | 60 | 61 | 62 |
| Dissolved Oxygen (mg/L) | 13.04 (A) | 13.07 | 12.76 | 12.56 | 12.50 | 12.46 |
| Turbidity (NTU) | 283 | 62 | 49 | 29 | 15 | 8 |
| Eh (mv) | 130 | 132 | 141 | 150 | 156 | 162 |

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SW/JP
SAMPLING TIME (START/END): 1035
SAMPLING DATE: 11/29/01
DECONTAMINATION FLUIDS USED: DI, Alconox, IsO
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: $HNO_3$
SAMPLE BOTTLE IDs: BN-57MW096
SAMPLE PARAMETERS: Cadmium
COMMENTS AND OBSERVATIONS: (A) DO above saturation.

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

| | | |
|---|---|---|
| Site Name: Site 07 NASB | Project No.: 2960285 | Date: 11/29/01 |
| Well ID: MW-NASB-09C | Field Personnel: SW/JP | |

| Parameter | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Time (min.) | 0940 | 0945 | (B) 0950 | 0955 | (B) 1000 | (B) 1005 |
| Depth to Water (ft) | 6.91 | 6.90 | 6.87 | 6.87 | 6.86 | 6.86 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | 3.0 | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 |
| pH | 5.33 | 5.34 | 5.29 | 5.29 | 5.28 | 5.29 |
| Temperature (°C) | 14.83 | 14.72 | 13.26 | 13.94 | 14.85 | 15.41 |
| Conductivity (μmhos/cm) | 62 | 63 | 60 | 62 | 63 | 64 |
| Dissolved Oxygen (mg/L) | 12.41 | 12.35 | 12.41 | 12.36 | 12.38 | 12.37 |
| Turbidity (NTU) | <1 | 1 | 33 | 14 | 47 | 27 |
| Eh (mv) | 164 | 166 | 167 | 169 | 169 | 170 |

| Parameter | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| Time (min) | 1010 | (B) 1015 | 1020 | (B) 1025 | 1028 | 1031 |
| Depth to Water (ft) | 6.86 | 6.87 | 6.86 | 6.86 | 6.85 | 6.86 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | 6.0 | 6.5 | 7.0 | 7.5 | 7.8 | 8.31 |
| pH | 5.30 | 5.27 | 5.29 | 5.27 | 5.27 | 5.27 |
| Temperature (°C) | 16.33 | 15.60 | 15.63 | 15.62 | 15.59 | 15.55 |
| Conductivity (μmhos/cm) | 65 | 64 | 65 | 65 | 65 | 66 |
| Dissolved Oxygen (mg/L) | 12.37 | 12.37 | 12.39 | 12.42 | 12.43 | 12.44 |
| Turbidity (NTU) | 24 | 19 | 16 | 5 | 4 | 4 |
| Eh (mv) | 171 | 171 | 172 | 174 | 175 | 175 |

COMMENTS AND OBSERVATIONS (B) Pump reset as flow had slowed

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Site 07
WELL I.D.: MW-NASB-093
WELL CONDITION: good
PROJECT NUMBER: 29600.82
WELL LOCK STATUS: locked
WEATHER: snowy, low 30's

GAUGE DATE: 11/28/01
SOUNDING METHOD: WL meter
STICK UP/DOWN (ft): 2'
GAUGE TIME: 1000
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/29/01
PURGE METHOD: Grundfos
AMBIENT AIR VOCs (ppm) Start: 0 End: 0
PURGE TIME: 1100
FIELD PERSONNEL: JP SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): 18.95
B. DEPTH TO WATER (ft): 9.14
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 1115 | 1120 | 1125 | 1130 | 1135 | 1140 |
| Depth to Water (ft) | 9.20 | 9.20 | 9.20 | 9.20 | 9.20 | 9.20 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | – | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 |
| pH | 4.27 | 5.34 | 5.43 | 5.46 | 5.47 | 5.48 |
| Temperature (°C) | 8.07 | 11.41 | 12.70 | 13.10 | 13.43 | 13.65 |
| Conductivity (μmhos/cm) | 51 | 44 | 43 | 44 | ~~29~~ 39 | 42 |
| Dissolved Oxygen (mg/L) | 5.09 | 2.70 | 2.69 | 2.48 | 2.48 | 2.57 |
| Turbidity (NTU) | 1343 | 524 | 114 | 44 | ~~83~~ 529 | 15 |
| Eh (mv) | 267 | 263 | 273 | 277 | 282 | 285 |

TOTAL QUANTITY OF WATER REMOVED (L): 4.1

SAMPLERS: SW JP
SAMPLING TIME (START/END): 1200
SAMPLING DATE: 11/29/01
DECONTAMINATION FLUIDS USED: Alconox, DI, Iso.
SAMPLE TYPE: low grab
SAMPLE PRESERVATIVES: $HNO_3$
SAMPLE BOTTLE IDs: BN-57-MW093
SAMPLE PARAMETERS: Cd (Total) 6010
COMMENTS AND OBSERVATIONS: Sample @ 1200

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

| | | |
|---|---|---|
| Site Name: Site 07 NASD | Project No.: 29600.82 | Date: 11/29/01 |
| Well ID: MW-NASD-093 | Field Personnel: SW/DP | |

| Parameter | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Time (min.) | 1145 | 1150 | 1153 | 1156 | | |
| Depth to Water (ft) | 9.20 | 9.20 | 9.20 | 9.20 | | |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Volume Purged (L) | 3.0 | 3.5 | 3.8 | 4.1 | | |
| pH | 5.48 | 5.48 | 5.49 | 5.48 | | |
| Temperature (°C) | 13.79 | 13.87 | 13.89 | 13.93 | | |
| Conductivity (μmhos/cm) | 33 | 32 | 33 | 34 | | |
| Dissolved Oxygen (mg/L) | 2.63 | 2.78 | 2.84 | 2.85 | | |
| Turbidity (NTU) | 10 | 8 | 7 | 5 | | |
| Eh (mv) | 286 | 286 | 290 | 291 | | |

| Parameter | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| Time (min) | | | | | | |
| Depth to Water (ft) | | | | | | |
| Purge Rate (L/min) | | | | | | |
| Volume Purged (L) | | | | | | |
| pH | | | | | | |
| Temperature (°C) | | | | | | |
| Conductivity (μmhos/cm) | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | |
| Turbidity (NTU) | | | | | | |
| Eh (mv) | | | | | | |

COMMENTS AND OBSERVATIONS _____

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 07 NASB
WELL I.D.: MW-NASB-228
WELL CONDITION: good

PROJECT NUMBER: 29600.85.82
WELL LOCK STATUS: locked
WEATHER: overcast ≈40°F

GAUGE DATE: 11/28/01
SOUNDING METHOD: elec. cond
STICK UP/DOWN (ft): 2.5'

GAUGE TIME: 1005
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/28/01
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1435
FIELD PERSONNEL: SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): ~~7.54~~ 9.98
B. DEPTH TO WATER (ft): 7.54
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 1435 | 1440 | 1445 | 1450 | 1455 | 1500 |
| Depth to Water (ft) | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 | 8.06 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | – | 0.5 | 1.0 | 1.5 | 2.0 | 2.5 |
| pH | 5.87 | 5.75 | 5.69 | 5.68 | 5.67 | 5.67 |
| Temperature (°C) | 9.46 | 10.33 | 11.80 | 12.49 | 12.85 | 12.67 |
| Conductivity (μmhos/cm) | 83 | 77 | 79 | 77 | 77 | 78 |
| Dissolved Oxygen (mg/L) | 7.30 | 3.83 | 3.77 | 4.47 | 4.01 | 4.01 |
| Turbidity (NTU) | 615 | 348 | 25 | 8 | 7 | 2 |
| Eh (mv) | 149 | 148 | 151 | 154 | 155 | 156 |

TOTAL QUANTITY OF WATER REMOVED (L): 2.5

SAMPLERS: SW
SAMPLING TIME (START/END): 1505
SAMPLING DATE: 11/28/01
DECONTAMINATION FLUIDS USED: DI, Iso, Alconox
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: $HNO_3$
SAMPLE BOTTLE IDs: BN-S7-MW228
SAMPLE PARAMETERS: Cadmium
COMMENTS AND OBSERVATIONS: Sample @ 1505.
collect BN-S7-MW DUP 1

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# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB Site 07
WELL I.D.: MW-NASB-092
WELL CONDITION: concrete apron broken

PROJECT NUMBER: 29600.82
WELL LOCK STATUS: locked
WEATHER: breezy, overcast, damp low 40's (°F)

GAUGE DATE: 11/28/01
SOUNDING METHOD: water level meter
STICK UP/DOWN (ft): 4.3

GAUGE TIME: 1000
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/28/01
PURGE METHOD: Grundfos
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1430
FIELD PERSONNEL: Jill Pamont
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): 14.35
B. DEPTH TO WATER (ft): 8.96
C. LIQUID DEPTH (ft) (A-B): 5.39
D. WELL VOLUME/FT (L): .16
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 1440 | 1445 | 1450 | 1455 | 1500 | 1505 |
| Depth to Water (ft) | 9.08 | 8.98 | 9.19 | 9.04 | 9.05 | 9.03 |
| Purge Rate (L/min) | 0.4 | 0.5 | 0.25 | 0.25 | 0.3 | 0.3 |
| Volume Purged (L) | | | 4L | | | |
| pH | 5.88 | 5.67 | 5.65 | 5.63 | 5.62 | 5.62 |
| Temperature (°C) | 9.52 | 10.61 | 11.30 | 12.38 | 12.82 | 12.97 |
| Conductivity (μmhos/cm) | 70 | 64 | 64 | 63 | 65 | 61 |
| Dissolved Oxygen (mg/L) | 4.66 | 3.86 | 2.83 | 2.69 | 2.62 | 2.61 |
| Turbidity (NTU) | 18.2 | 33.9 | 0.7 | -0.2 | -0.2 | 0.0 |
| Eh (mv) | 280.7 | 288.5 | 292.9 | 291.5 | 291.8 | 292.6 |

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: JP/SW
SAMPLING TIME (START/END): 1520
SAMPLING DATE: 11/28/01
DECONTAMINATION FLUIDS USED: Alconox, DI, Isopropyl
SAMPLE TYPE:
SAMPLE PRESERVATIVES: $HNO_3$
SAMPLE BOTTLE IDs: BN-S7-092; ~~DUP~~ MS/MSD
SAMPLE PARAMETERS: Cadmium (Total)
COMMENTS AND OBSERVATIONS: Turbidity is wrong! (obviously not <0) But clear to the eye...

EA Engineering, Science, and Technology



# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

| | | |
|---|---|---|
| Site Name: NASB Site 07 | Project No.: 29600.82 | Date: 11/28/01 |
| Well ID: MW-NASB-092 | Field Personnel: JP | |

| Parameter | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Time (min.) | 1510 | 1515 | 1520 | | | |
| Depth to Water (ft) | 9.04 | 9.04 | | | | |
| Purge Rate (L/min) | | 12L | | | | |
| Volume Purged (L) | | | | | | |
| pH | 5.61 | 5.62 | | | | |
| Temperature (°C) | 13.07 | 13.10 | | | | |
| Conductivity (μmhos/cm) | 62 | 62 | | | | |
| Dissolved Oxygen (mg/L) | 2.56 | 2.58 | | | | |
| Turbidity (NTU) | 0.0 | 0.0 | | | | |
| Eh (mv) | 294.8 | 296.2 | | | | |

| Parameter | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| Time (min) | | | | | | |
| Depth to Water (ft) | | | | | | |
| Purge Rate (L/min) | | | | | | |
| Volume Purged (L) | | | | | | |
| pH | | | | | | |
| Temperature (°C) | | | | | | |
| Conductivity (μmhos/cm) | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | |
| Turbidity (NTU) | | | | | | |
| Eh (mv) | | | | | | |

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: Site 07
WELL I.D.: MW-NASB-MW095
WELL CONDITION: good

PROJECT NUMBER: 29600.4582
WELL LOCK STATUS: locked
WEATHER: overcast ≈ 40°F

GAUGE DATE: 11/28/01
SOUNDING METHOD: elec. cond
STICK UP/DOWN (ft): ≈2.5'

GAUGE TIME: 1010
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/28/01
PURGE METHOD: low flow
AMBIENT AIR VOCs (ppm) Start: 10 End: 0

PURGE TIME: 1040
FIELD PERSONNEL: SW
WELL MOUTH VOCs (ppm): Start: 0 End: 0

## WELL VOLUME

A. WELL DEPTH (ft): 16.88
B. DEPTH TO WATER (ft): 10.61
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | 1040 | 1050 | 1055 | 1100 | 1105 | 1110 |
| Depth to Water (ft) | 10.64 | 10.65 | 10.65 | 10.65 | 10.65 | 10.65 |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Volume Purged (L) | - | 1.0 | 1.5 | 2.0 | 2.5 | 3.0 |
| pH | 6.98 | 6.36 | 6.13 | 5.79 | 5.56 | 5.32 |
| Temperature (°C) | 7.77 | 12.03 | 13.45 | 15.87 | 15.84 | 15.52 |
| Conductivity (μmhos/cm) | 34 (A) | 33 | 36 | 35 | 34 | 33 (B) |
| Dissolved Oxygen (mg/L) | 6.90 | 7.12 | 7.26 | 7.37 | 7.30 | 7.35 |
| Turbidity (NTU) | error (A) | error | error | error | error | 10 (B) |
| Eh (mv) | 141.4 | 149.3 | 158.6 | 166.0 | 169.4 | 178.7 |

TOTAL QUANTITY OF WATER REMOVED (L): 5.5

SAMPLERS: SW
SAMPLING DATE: 11/28/01
SAMPLE TYPE: grab
SAMPLE BOTTLE IDs: BN-S7-MW095
SAMPLE PARAMETERS: Cadmium

SAMPLING TIME (START/END): 1140
DECONTAMINATION FLUIDS USED: DI, Iso, Alconox
SAMPLE PRESERVATIVES: $HNO_3$

COMMENTS AND OBSERVATIONS: (A) YSI appears to be malfunctioning. Sonde is not being recognized during startup. Turb doesn't move from 3135 NTU. Cond may be reading low. Final Turb will be checked w/ alternate unit.
(B) Spot check w/ alternate unit yields turbidity value and validates low cond reading.

EA Engineering, Science, and Technology



1720

# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

| | | |
|---|---|---|
| Site Name: Site 07 | Project No.: 24600.8582 | Date: 11/28/01 |
| Well ID: MW-NASB-09S | Field Personnel: SW | |

| Parameter | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Time (min.) | 1115 | 1120 | 1125 | 1130 | 1135 | |
| Depth to Water (ft) | 10.65 | 10.65 | 10.65 | 10.65 | 10.65 | |
| Purge Rate (L/min) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Volume Purged (L) | 3.5 | 4.0 | 4.5 | 5.0 | 5.5 | |
| pH | 5.26 | 5.26 | 5.16 | 5.19 | 5.15 | |
| Temperature (°C) | 15.38 | 15.43 | 14.97 | 14.67 | 14.81 | |
| Conductivity (μmhos/cm) | 33 | 33 | 32 | 32 | 32 | |
| Dissolved Oxygen (mg/L) | 7.41 | 7.33 | 7.47 | 7.58 | 7.52 | |
| Turbidity (NTU) | error | error | error | error | 2 | |
| Eh (mv) | 179.4 | 182 | 185 | 180 | 185 | |

| Parameter | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| Time (min) | | | | | | |
| Depth to Water (ft) | | | | | | |
| Purge Rate (L/min) | | | | | | |
| Volume Purged (L) | | | | | | |
| pH | | | | | | |
| Temperature (°C) | | | | | | |
| Conductivity (μmhos/cm) | | | | | | |
| Dissolved Oxygen (mg/L) | | | | | | |
| Turbidity (NTU) | | | | | | |
| Eh (mv) | | | | | | |

COMMENTS AND OBSERVATIONS Sample @ 1140

EA Engineering, Science, and Technology

# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: MASB Site 07
WELL I.D.: MW-MASB-099
WELL CONDITION: good

PROJECT NUMBER: 29600.82
WELL LOCK STATUS: ✓
WEATHER: overcast/damp, low 40s

GAUGE DATE: 11/28/01
SOUNDING METHOD:
STICK UP/DOWN (ft):

GAUGE TIME: 1000
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2"

PURGE DATE: 11/28/01
PURGE METHOD: Grundfos
AMBIENT AIR VOCs (ppm) Start: ____ End: ____

PURGE TIME:
FIELD PERSONNEL: Jill Parrett
WELL MOUTH VOCs (ppm): Start: ____ End: ____

## WELL VOLUME

A. WELL DEPTH (ft): 13.46
B. DEPTH TO WATER (ft): 10.18
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

JAP 11/28

| Parameter | Beginning | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Time (min) | ~~1025~~ 1030 | 1035 | 1040 | 1050 | 1055 | 1100 |
| Depth to Water (ft) | 10.28 | 10.24 | 10.31 | 10.30 | 10.26 | 10.23 |
| Purge Rate (L/min) | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| Volume Purged (L) | | | | | | |
| pH | 4.20 | 5.28 | 5.54 | 5.68 | 5.66 | 5.66 |
| Temperature (°C) | ~~10.75~~ 11.53 | 11.48 | 11.68 | 15.27 | 14.40 | 14.24 |
| Conductivity (μmhos/cm) | ~~171~~ 176 | 178 | 180 | 203 | 188 | 184 |
| Dissolved Oxygen (mg/L) | 1.97 | 1.87 | 1.86 | 1.96 | 1.44 | 1.34 |
| Turbidity (NTU) | 137.1 | 65.4 | 111.3 | 47.9 | 39.5 | 40.5 |
| Eh (mv) | 256.9 | 251.2 | 245.8 | 243.8 | 241.3 | 235.7 |

TOTAL QUANTITY OF WATER REMOVED (L): 10 L ↑ clear flow well @ 1042

SAMPLERS: Jill Parrett, Sam Whitis
SAMPLING TIME (START/END): 1145

SAMPLING DATE: 11/28/01
DECONTAMINATION FLUIDS USED: Alconox, DI, Isopropyl

SAMPLE TYPE: GW for cd (Total)
SAMPLE PRESERVATIVES: $HNO_3$

SAMPLE BOTTLE IDs: BN-57-MW099

SAMPLE PARAMETERS: Cadmium

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology



# FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

| | | |
|---|---|---|
| Site Name: NASB Site 07 | Project No.: 29600.82 | Date: 11/28/01 |
| Well ID: MW-NASB-099 | Field Personnel: JP | |

| Parameter | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Time (min.) | 1105 | 1115 | 1120 | 1125 | 1130 | 1135 |
| Depth to Water (ft) | 10.22 | 10.22 | 10.21 | 10.22 | 10.23 | 10.25 |
| Purge Rate (L/min) | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Volume Purged (L) | | | | 4 L | | |
| pH | 5.67 | 5.70 | 5.69 | 5.66 | 5.67 | 5.65 |
| Temperature (°C) | 13.89 | 17.72 | 15.79 | 21.63 | 21.93 | 18.91 |
| Conductivity (μmhos/cm) | 183 | 202 | 194 | 221 | 222 | 207 |
| Dissolved Oxygen (mg/L) | 1.33 | 3.24 | 2.73 | 1.97 | 1.89 | 1.65 |
| Turbidity (NTU) | 29.5 | 36.6 | 16.1 | 13.5 | 9.0 | 4.8 |
| Eh (mv) | 234.8 | 241.2 | 244.8 | 248.6 | 253.1 | 260 |

↑cleared cell @ ~~1~~ 1106

| Parameter | 12 | 13 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|
| Time (min) | 1140 | 1145 | | | | |
| Depth to Water (ft) | 10.24 | 10.24 | | | | |
| Purge Rate (L/min) | 0.3 | 0.3 | | | | |
| Volume Purged (L) | | 10 L | | | | |
| pH | 5.67 | 5.66 | | | | |
| Temperature (°C) | 16.77 | 16.55 | | | | |
| Conductivity (μmhos/cm) | 198 | 196 | | | | |
| Dissolved Oxygen (mg/L) | 1.68 | 1.69 | | | | |
| Turbidity (NTU) | 4.8 | 4.2 | | | | |
| Eh (mv) | 261 | 262 | | | | |

COMMENTS AND OBSERVATIONS Sam uses this YSI to spot-check his data @1113 (may affect 1115 reading)

# Attachment B

# Laboratory Analytical Data

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

RECEIVED

FEB 22 2002

EA ENGINEERING SCIENCE & TECH

December 13, 2001

Al Easterday
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Dear Al Easterday:

We appreciate this opportunity to provide you with our analytical services. ESS Laboratory is committed to providing the highest quality service. Our dedication to each client includes responsiveness to emergencies, dependable, well-written reports, and client services, which include the availability of all analysts to answer your inquiries.

Enclosed is your data report. The invoice for this project is being forwarded to your Accounts Payable Department unless other arrangements have previously been made with the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department. We value our continued relationship and look forward to hearing from you in the future.

Sincerely,

ESS LABORATORY

Laurel Stoddard
Laboratory Director

Enclosure

MDP

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# REQUEST FOR SUMMARY ANALYTICAL DATA

With all analytical task orders for the Navy, please provide the following summary information:

Laboratory Name: Ess Laboratory

Project Number: 29600.82

ess lab id #: 01110414

| Matrices | Analytes | Method Numbers | Quantity | Unit Costs |
|---|---|---|---|---|
| Ground Water | Cadmium | 7131 | 10 | 30.00 |
| | | | | |
| | | | | |

Scheduled Turnaround Time: 5 DAY

Actual Turnaround Time: 5 DAY

This information should be submitted at the time of analytical data delivery and should be delivered to the CTO manager who will 'cc' the PMO QA/QC officer Mr. Joel Lazzeri.

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## PROJECT NARRATIVE

**CLIENT: EA Engineering**
**CLIENT PROJECT ID: NASB Site 07**
**ESS PROJECT ID: 01110414**

**Sample Receipt**
8 Ground Water samples were received on November 30, 2001 for the analysis specified on the enclosed Chain of Custody Record.

**Analytical Summary**
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan.

**Metals Analysis**
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch Matrix Spike/Matrix Spike Duplicate associated with samples 01110414-01 and 01110414-06 through 01110414-08 was outside of the recommended range for Cadmium due to matrix interferences.

No other observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.

Laurel Stoddard/Eric Baanante
Laboratory Director/Operations Manager

12/28/01
Date

MDP

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# Metals Analysis

# Section I
# Metals Sample Data

# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW092
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-01
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW095
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-02
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW099
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-03
Units: mg/L
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | **0.022** | 0.005 | 11/30/01 | ML | 6010 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 12/5/01

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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW228
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-04
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: MV

Date: 12/5/01

HJL



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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-DUP 1
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-05
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 12/5/01

HJL



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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW091
Date Sampled: 11/29/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-06
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | **0.0007** | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 12/5/01

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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW093
Date Sampled: 11/29/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-07
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: Mn

Date: 12/5/01

HJL



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# ESS Laboratory

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: BN-S7-MW096
Date Sampled: 11/29/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-08
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: Jm

Date: 12/5/01

HJL



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011

# Section II
# Metals Quality Control Data

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Method Blank
Date Sampled: N/A
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 011130pbw
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50
Mercury Information: 1/20/40

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 12/5/01

HJL



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013

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 011130lcsw
Units: mg/L
GFAA Information: 5/50/50
ICP2 Information: 1/50/50
Mercury Information: 1/20/40

| Test Name | % Rec. | Limits | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | **114** | 85-115 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: MLP

Date: 12/10/01

MLP



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# ESS Laboratory

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*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 011130lcsw
Units: mg/L
GFAA Information: 5/50/50
ICP2 Information: 1/50/50
Mercury Information: 1/20/40

| Test Name | % Rec. | Limits | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | **100** | 80-120 | 11/30/01 | ML | 6010 |

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: ip Date: 1/2/01

HJL



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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Duplicate
Date Sampled: 11/25/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110406-02 Dup
Units: mg/L
GFAA Information: 5/50/50
ICP2 Information: 1/50/50

| Test Name | Sample Result | Duplicate Result | RPD | Limits | Date Analyzed | Method |
|---|---|---|---|---|---|---|
| Cadmium | ND | ND | 0 | 20 | 12/03/01 | 7131 |

RPD = Relative Percent Deviation.

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



016

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Matrix Spike
Date Sampled: 11/25/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110406-02 MS
Units: mg/L
GFAA Information: 5/50/50
ICP2 Information: 1/50/50

| Test Name | Sample Result | Matrix Spike Result | Spike Added | Percent Recovered | Limits | Method |
|---|---|---|---|---|---|---|
| Cadmium | ND | **0.0116** | 0.01 | **116** | 80-120 | 7131 |

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Method Blank
Date Sampled: N/A
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 011130pbw2
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Result | MRL | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | ND | 0.0005 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 011130lcsw2
Units: mg/L
GFAA Information: 100/50/50
ICP2 Information: 1/50/50

| Test Name | % Rec. | Limits | Date Analyzed | Analyst | Method |
|---|---|---|---|---|---|
| Cadmium | **119** | 80-120 | 12/03/01 | SVD | 7131 |

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 12/6/01

HJL





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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Duplicate
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-01 Dup
Units: mg/L
GFAA Information: 1/50/50
ICP2 Information: 1/50/50

| Test Name | Sample Result | Duplicate Result | RPD | Limits | Date Analyzed | Method |
|---|---|---|---|---|---|---|
| Cadmium | ND | ND | 0 | 20 | 12/03/01 | 7131 |

RPD = Relative Percent Deviation.

ND = Not Detected above MRL.

Approved By: M

Date: 12/5/01

HJL



020

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

*CERTIFICATE OF ANALYSIS*

## Total Metals

Client Name: EA Engineering
Client Project ID: NASB Site 07
Client Sample ID: Matrix Spike
Date Sampled: 11/28/01
Percent Solid: N/A

ESS Project ID: 01110414
ESS Sample ID: 01110414-01 MS
Units: mg/L
GFAA Information: 100/50/50
ICP2 Information: 1/50/50

| Test Name | Sample Result | Matrix Spike Result | Spike Added | Percent Recovered | Limits | Method |
|---|---|---|---|---|---|---|
| Cadmium | ND | **0.31** | 0.25 | **124+** | 80-120 | 7131 |

+ = Outside QC Limits.

ND = Not Detected above MRL.

Approved By: M

Date: 12/6/01

HJL



021

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# Section III
# Metals Calibration Data

**Analytical Sequence**

**Method : everythingx**

| Seq. | Loc. | Sample ID |
|---|---|---|
| 1 | 1 | Calib Blank 1 |
| 2 | 2 | Calib Std 1 |
| 3 | 3 | Calib Std 2 |
| 4 | 4 | Calib Std 3 |
| 5 | 3 | STD2 |
| 6 | 106 | ICSA |
| 7 | 105 | ICSAB |
| 8 | 0 | wash |
| 9 | 0 | wash |
| 10 | 5 | ICV |
| 11 | 1 | ICCB |
| 12 | 6 | CRI1 |
| 13 | 7 | CRI2 |
| 14 | 8 | CRI3 |
| 15 | 9 | 011130pbw |
| 16 | 10 | 011130lcsw |
| 17 | 11 | 011130filtblk |
| 18 | 12 | 01110397-18 |
| 19 | 13 | 01110397-18dup |
| 20 | 14 | 01110397-18ms |
| 21 | 15 | 01110397-18sdx5 |
| 22 | 16 | 01110397-18pds |
| 23 | 17 | 01110400-01 |
| 24 | 18 | 01110400-02 |
| 25 | 3 | CCV |
| 26 | 1 | ICCB |
| 27 | 19 | 01110401-01 |
| 28 | 20 | 01110401-02 |
| 29 | 21 | 01110402-01 |
| 30 | 22 | 01110402-02 |
| 31 | 23 | 01110403-01 |
| 32 | 24 | 01110403-02 |
| 33 | 25 | 01110406-01 |
| 34 | 26 | 01110406-02 |
| 35 | 27 | 01110406-02dup |
| 36 | 28 | 01110406-02ms |
| 37 | 3 | CCV |
| 38 | 1 | ICCB |
| 39 | 29 | 01110406-02sdx5 |
| 40 | 30 | 01110406-02pds |
| 41 | 31 | 01110369-01 |
| 42 | 32 | 01110399-01 |
| 43 | 33 | 011130dispbw |
| 44 | 34 | 01110408-01dis |
| 45 | 35 | 01110408-02dis |
| 46 | 36 | 01110408-03dis |
| 47 | 37 | 01110414-02 |
| 48 | 38 | 01110414-03 |
| 49 | 3 | CCV |
| 50 | 1 | ICCB |
| 51 | 39 | 01110414-04 |
| 52 | 40 | 01110414-05 |
| 53 | 41 | 011130pbw2 |
| 54 | 42 | 011130lcsw2 |
| 55 | 43 | 01110414-01 |
| 56 | 44 | 01110414-01dup |

Ag: 0.005
As: 0.02
Ba: 0.01
Be: 0.001
Cd: 0.005
Cr: 0.01
Cu: 0.01
Ni: 0.01
Pb: 0.01
Sb: 0.01
Se: 0.1
Tl: 0.05
Zn: 0.01

Analytical Sequence

Method : everythingx

| Seq. | Loc. | | Sample ID |
|---|---|---|---|
| 57 | 45 | | 01110414-01ms |
| 58 | 46 | | 01110414-01sdx5 |
| 59 | 47 | | 01110414-01pds |
| 60 | 48 | | 01110414-06 |
| 61 | 3 | | CCV |
| 62 | 1 | | ICCB |
| 63 | 49 | | 01110414-07 |
| 64 | 50 | | 01110414-08 |
| 65 | 3 | | CCV |
| 66 | 1 | | ICCB |
| 67 | 51 | | 01110359-01x10 |
| 68 | 3 | | CCV |
| 69 | 1 | | ICCB |
| 70 | 0 | | wash |

Align View XY Axial for analyte Mn 257.610

| X-position | Y-position | Intensity |
|---|---|---|
| -2.0 | 15.0 | 275815.0 |
| -1.6 | 15.0 | 421764.1 |
| -1.2 | 15.0 | 583341.5 |
| -0.8 | 15.0 | 759176.6 |
| -0.4 | 15.0 | 847210.8 |
| 0.0 | 15.0 | 896240.1 |
| 0.4 | 15.0 | 838532.6 |
| 0.8 | 15.0 | 719767.6 |
| 1.2 | 15.0 | 561876.9 |
| 1.6 | 15.0 | 429941.3 |
| 2.0 | 15.0 | 301098.0 |
| 0.0 | 10.0 | 7207.7 |
| 0.0 | 10.5 | 28633.5 |
| 0.0 | 11.0 | 48377.9 |
| 0.0 | 11.5 | 77973.7 |
| 0.0 | 12.0 | 123175.8 |
| 0.0 | 12.5 | 274825.1 |
| 0.0 | 13.0 | 385293.3 |
| 0.0 | 13.5 | 516714.1 |
| 0.0 | 14.0 | 664239.0 |
| 0.0 | 14.5 | 850140.2 |
| 0.0 | 15.0 | 882322.3 |
| 0.0 | 15.5 | 828743.9 |
| 0.0 | 16.0 | 695681.6 |
| 0.0 | 16.5 | 421983.1 |
| 0.0 | 17.0 | 307280.4 |
| 0.0 | 17.5 | 207188.7 |
| 0.0 | 18.0 | 141864.3 |
| 0.0 | 18.5 | 92366.8 |
| 0.0 | 19.0 | 37680.0 |
| 0.0 | 19.5 | 18740.6 |
| 0.0 | 20.0 | 9644.6 |
| -0.8 | 15.0 | 735625.1 |
| -0.4 | 15.0 | 845519.9 |
| 0.0 | 15.0 | 888579.8 |
| 0.4 | 15.0 | 810524.3 |
| 0.8 | 15.0 | 710926.3 |
| 0.0 | 13.0 | 390325.3 |
| 0.0 | 13.5 | 508982.9 |
| 0.0 | 14.0 | 652177.7 |
| 0.0 | 14.5 | 863933.6 |
| 0.0 | 15.0 | 887350.7 |
| 0.0 | 15.5 | 821615.7 |
| 0.0 | 16.0 | 697471.0 |
| 0.0 | 16.5 | 426058.3 |
| 0.0 | 17.0 | 300662.8 |

11/30/01 5:43:35 PM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 887350.7 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 887350.7 for Axial viewing

**Analysis Begun**

**Start Time: 11/30/01 5:49:19 PM** **Plasma On Time: 11/30/01 3:03:19 PM**
**Logg d In Analyst: icp2** **Technique: ICP Continuous**
**Spectrometer Model: Optima 3100 XL** **Autosampler Model: AS-90**

**Sample Information File: C:\pe\administrator\Sample Information\113001xa.sif**
**Results Data Set: 113001xad**
**Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb**

Method Loaded
Method Name: everythingx Method Last Saved: 11/28/01 6:54:57 PM
IEC File: 090701.iec MSF File:
Method Description: Everthing

Analysis Begun

Start Time: 11/30/01 5:53:19 PM
Logged In Analyst: icp2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/30/01 3:03:19 PM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\administrator\Sample Information\113001xa.sif
Results Data Set: 113001xad
Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/30/01 5:53:19 PM

Sample Prep Volume:
Data Type: Original

Replicate Data: Calib Blank 1

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2830984.0 | 2830984.0 | | | 17:54:52 |
| 1 | Ag 328.068† | 2629.6 | 2564.8 | [0.00] | mg/L | 17:54:57 |
| 1 | Al 237.313† | -138.2 | -134.8 | [0.00] | mg/L | 17:55:17 |
| 1 | As 188.979† | -5.7 | -5.5 | [0.00] | mg/L | 17:55:17 |
| 1 | B 182.528† | -10.2 | -10.0 | [0.00] | mg/L | 17:55:17 |
| 1 | Ba 233.527† | -94.7 | -92.3 | [0.00] | mg/L | 17:55:17 |
| 1 | Be 313.107† | 6591.1 | 6428.6 | [0.00] | mg/L | 17:54:57 |
| 1 | Ca 315.886† | 2198.0 | 2143.8 | [0.00] | mg/L | 17:54:57 |
| 1 | Cd 228.802† | 32.4 | 31.6 | [0.00] | mg/L | 17:55:17 |
| 1 | Co 228.616† | -430.5 | -419.9 | [0.00] | mg/L | 17:55:17 |
| 1 | Cr 267.716† | 1921.8 | 1874.4 | [0.00] | mg/L | 17:54:57 |
| 1 | Cu 324.752† | 596.1 | 581.4 | [0.00] | mg/L | 17:54:57 |
| 1 | Fe 238.204† | 14.6 | 14.3 | [0.00] | mg/L | 17:55:17 |
| 1 | Mg 279.077† | 118.7 | 115.8 | [0.00] | mg/L | 17:54:57 |
| 1 | Mn 257.610† | 1795.0 | 1750.8 | [0.00] | mg/L | 17:54:57 |
| 1 | Mo 202.031† | -62.7 | -61.1 | [0.00] | mg/L | 17:55:17 |
| 1 | Na 330.237† | 3878.1 | 3782.5 | [0.00] | mg/L | 17:54:57 |
| 1 | Ni 231.604† | -326.2 | -318.2 | [0.00] | mg/L | 17:55:17 |
| 1 | Pb 220.353† | 72.7 | 70.9 | [0.00] | mg/L | 17:55:17 |
| 1 | Sb 206.836† | 102.3 | 99.8 | [0.00] | mg/L | 17:55:17 |
| 1 | Se 196.026† | -98.1 | -95.7 | [0.00] | mg/L | 17:55:17 |
| 1 | Sn 189.927† | -3.1 | -3.0 | [0.00] | mg/L | 17:55:17 |
| 1 | Ti 337.279† | 1559.8 | 1521.4 | [0.00] | mg/L | 17:54:57 |
| 1 | Tl 190.801† | -13.8 | -13.4 | [0.00] | mg/L | 17:55:17 |
| 1 | V 292.402† | 2542.3 | 2479.7 | [0.00] | mg/L | 17:54:57 |
| 1 | Zn 213.857† | -132.6 | -129.4 | [0.00] | mg/L | 17:55:17 |
| 2 | Y 360.073 | 2776211.7 | 2776211.7 | | | 17:55:23 |
| 2 | Ag 328.068† | 2655.1 | 2640.7 | [0.00] | mg/L | 17:55:29 |
| 2 | Al 237.313† | -124.5 | -123.9 | [0.00] | mg/L | 17:55:49 |
| 2 | As 188.979† | -7.9 | -7.8 | [0.00] | mg/L | 17:55:49 |
| 2 | B 182.528† | -3.6 | -3.6 | [0.00] | mg/L | 17:55:49 |
| 2 | Ba 233.527† | -98.7 | -98.1 | [0.00] | mg/L | 17:55:49 |
| 2 | Be 313.107† | 6558.0 | 6522.6 | [0.00] | mg/L | 17:55:29 |
| 2 | Ca 315.886† | 2094.6 | 2083.3 | [0.00] | mg/L | 17:55:29 |
| 2 | Cd 228.802† | 28.3 | 28.2 | [0.00] | mg/L | 17:55:49 |
| 2 | Co 228.616† | -413.7 | -411.4 | [0.00] | mg/L | 17:55:49 |
| 2 | Cr 267.716† | 1911.0 | 1900.7 | [0.00] | mg/L | 17:55:29 |
| 2 | Cu 324.752† | 615.0 | 611.7 | [0.00] | mg/L | 17:55:29 |
| 2 | Fe 238.204† | -28.1 | -28.0 | [0.00] | mg/L | 17:55:49 |
| 2 | Mg 279.077† | 90.2 | 89.7 | [0.00] | mg/L | 17:55:29 |
| 2 | Mn 257.610† | 1740.1 | 1730.7 | [0.00] | mg/L | 17:55:29 |
| 2 | Mo 202.031† | -51.5 | -51.2 | [0.00] | mg/L | 17:55:49 |
| 2 | Na 330.237† | 3781.3 | 3760.9 | [0.00] | mg/L | 17:55:29 |
| 2 | Ni 231.604† | -348.9 | -347.0 | [0.00] | mg/L | 17:55:49 |
| 2 | Pb 220.353† | 79.3 | 78.9 | [0.00] | mg/L | 17:55:49 |
| 2 | Sb 206.836† | 103.7 | 103.2 | [0.00] | mg/L | 17:55:49 |
| 2 | Se 196.026† | -96.8 | -96.3 | [0.00] | mg/L | 17:55:49 |
| 2 | Sn 189.927† | -3.2 | -3.2 | [0.00] | mg/L | 17:55:49 |

Analysis Begun

Start Time: 11/30/01 6:12:35 PM
Logged In Analyst: icp2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/30/01 3:03:19 PM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\administrator\Sample Information\113001xa.sif
Results Data Set: 113001xad
Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/30/01 6:12:35 PM
Sample Prep Volume:
Data Type: Original

Replicate Data: Calib Blank 1

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2808825.5 | 2808825.5 | | | 18:14:08 |
| 1 | Ag 328.068† | 2543.1 | 2499.9 | [0.00] | mg/L | 18:14:13 |
| 1 | Al 237.313† | -109.8 | -107.9 | [0.00] | mg/L | 18:14:34 |
| 1 | As 188.979† | -7.7 | -7.5 | [0.00] | mg/L | 18:14:34 |
| 1 | B 182.528† | -3.6 | -3.6 | [0.00] | mg/L | 18:14:34 |
| 1 | Ba 233.527† | -115.5 | -113.5 | [0.00] | mg/L | 18:14:34 |
| 1 | Be 313.107† | 6524.6 | 6414.0 | [0.00] | mg/L | 18:14:13 |
| 1 | Ca 315.886† | 2137.5 | 2101.3 | [0.00] | mg/L | 18:14:13 |
| 1 | Cd 228.802† | 31.4 | 30.9 | [0.00] | mg/L | 18:14:34 |
| 1 | Co 228.616† | -406.9 | -400.0 | [0.00] | mg/L | 18:14:34 |
| 1 | Cr 267.716† | 1844.4 | 1813.1 | [0.00] | mg/L | 18:14:13 |
| 1 | Cu 324.752† | 576.2 | 566.5 | [0.00] | mg/L | 18:14:13 |
| 1 | Fe 238.204† | 17.6 | 17.3 | [0.00] | mg/L | 18:14:34 |
| 1 | Mg 279.077† | 106.7 | 104.9 | [0.00] | mg/L | 18:14:13 |
| 1 | Mn 257.610† | 1832.9 | 1801.9 | [0.00] | mg/L | 18:14:13 |
| 1 | Mo 202.031† | -54.3 | -53.4 | [0.00] | mg/L | 18:14:34 |
| 1 | Na 330.237† | 3803.1 | 3738.6 | [0.00] | mg/L | 18:14:13 |
| 1 | Ni 231.604† | -312.6 | -307.3 | [0.00] | mg/L | 18:14:34 |
| 1 | Pb 220.353† | 86.7 | 85.3 | [0.00] | mg/L | 18:14:34 |
| 1 | Sb 206.836† | 110.3 | 108.5 | [0.00] | mg/L | 18:14:34 |
| 1 | Se 196.026† | -96.1 | -94.5 | [0.00] | mg/L | 18:14:34 |
| 1 | Sn 189.927† | 3.7 | 3.7 | [0.00] | mg/L | 18:14:34 |
| 1 | Ti 337.279† | 1562.3 | 1535.8 | [0.00] | mg/L | 18:14:13 |
| 1 | Tl 190.801† | -15.1 | -14.8 | [0.00] | mg/L | 18:14:34 |
| 1 | V 292.402† | 2624.3 | 2579.8 | [0.00] | mg/L | 18:14:13 |
| 1 | Zn 213.857† | -133.5 | -131.2 | [0.00] | mg/L | 18:14:34 |
| 2 | Y 360.073 | 2815523.2 | 2815523.2 | | | 18:14:39 |
| 2 | Ag 328.068† | 2583.5 | 2533.7 | [0.00] | mg/L | 18:14:45 |
| 2 | Al 237.313† | -110.5 | -108.3 | [0.00] | mg/L | 18:15:05 |
| 2 | As 188.979† | -9.3 | -9.1 | [0.00] | mg/L | 18:15:05 |
| 2 | B 182.528† | -4.4 | -4.3 | [0.00] | mg/L | 18:15:05 |
| 2 | Ba 233.527† | -89.1 | -87.4 | [0.00] | mg/L | 18:15:05 |
| 2 | Be 313.107† | 6600.8 | 6473.5 | [0.00] | mg/L | 18:14:45 |
| 2 | Ca 315.886† | 2064.9 | 2025.1 | [0.00] | mg/L | 18:14:45 |
| 2 | Cd 228.802† | 34.7 | 34.0 | [0.00] | mg/L | 18:15:05 |
| 2 | Co 228.616† | -410.6 | -402.7 | [0.00] | mg/L | 18:15:05 |
| 2 | Cr 267.716† | 1903.6 | 1866.9 | [0.00] | mg/L | 18:14:45 |
| 2 | Cu 324.752† | 598.2 | 586.7 | [0.00] | mg/L | 18:14:45 |
| 2 | Fe 238.204† | -0.4 | -0.4 | [0.00] | mg/L | 18:15:05 |
| 2 | Mg 279.077† | 121.1 | 118.8 | [0.00] | mg/L | 18:14:45 |
| 2 | Mn 257.610† | 1859.1 | 1823.3 | [0.00] | mg/L | 18:14:45 |
| 2 | Mo 202.031† | -60.5 | -59.3 | [0.00] | mg/L | 18:15:05 |
| 2 | Na 330.237† | 3792.1 | 3718.9 | [0.00] | mg/L | 18:14:45 |
| 2 | Ni 231.604† | -335.3 | -328.8 | [0.00] | mg/L | 18:15:05 |
| 2 | Pb 220.353† | 84.9 | 83.3 | [0.00] | mg/L | 18:15:05 |
| 2 | Sb 206.836† | 99.3 | 97.4 | [0.00] | mg/L | 18:15:05 |
| 2 | Se 196.026† | -92.1 | -90.3 | [0.00] | mg/L | 18:15:05 |
| 2 | Sn 189.927† | -2.5 | -2.5 | [0.00] | mg/L | 18:15:05 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Ti 337.279† | 1551.9 | 1522.0 | [0.00] | mg/L | 18:14:45 |
| 2 | Tl 190.801† | -16.5 | -16.2 | [0.00] | mg/L | 18:15:05 |
| 2 | V 292.402† | 2591.0 | 2541.0 | [0.00] | mg/L | 18:14:45 |
| 2 | Zn 213.857† | -128.0 | -125.5 | [0.00] | mg/L | 18:15:05 |

**Mean Data: Calib Blank 1**

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Y 360.073 | 2812174.4 | 4735.98 | 0.17% | | |
| Ag 328.068† | 2516.8 | 23.84 | 0.95% | [0.00] | mg/L |
| Al 237.313† | -108.1 | 0.28 | 0.26% | [0.00] | mg/L |
| As 188.979† | -8.3 | 1.10 | 13.23% | [0.00] | mg/L |
| B 182.528† | -4.0 | 0.54 | 13.71% | [0.00] | mg/L |
| Ba 233.527† | -100.5 | 18.50 | 18.41% | [0.00] | mg/L |
| Be 313.107† | 6443.7 | 42.05 | 0.65% | [0.00] | mg/L |
| Ca 315.886† | 2063.2 | 53.87 | 2.61% | [0.00] | mg/L |
| Cd 228.802† | 32.4 | 2.23 | 6.89% | [0.00] | mg/L |
| Co 228.616† | -401.3 | 1.88 | 0.47% | [0.00] | mg/L |
| Cr 267.716† | 1840.0 | 38.02 | 2.07% | [0.00] | mg/L |
| Cu 324.752† | 576.6 | 14.30 | 2.48% | [0.00] | mg/L |
| Fe 238.204† | 8.5 | 12.51 | 147.34% | [0.00] | mg/L |
| Mg 279.077† | 111.8 | 9.81 | 8.77% | [0.00] | mg/L |
| Mn 257.610† | 1812.6 | 15.15 | 0.84% | [0.00] | mg/L |
| Mo 202.031† | -56.4 | 4.21 | 7.47% | [0.00] | mg/L |
| Na 330.237† | 3728.8 | 13.93 | 0.37% | [0.00] | mg/L |
| Ni 231.604† | -318.1 | 15.19 | 4.78% | [0.00] | mg/L |
| Pb 220.353† | 84.3 | 1.41 | 1.68% | [0.00] | mg/L |
| Sb 206.836† | 102.9 | 7.83 | 7.60% | [0.00] | mg/L |
| Se 196.026† | -92.4 | 2.99 | 3.23% | [0.00] | mg/L |
| Sn 189.927† | 0.6 | 4.36 | 747.37% | [0.00] | mg/L |
| Ti 337.279† | 1528.9 | 9.81 | 0.64% | [0.00] | mg/L |
| Tl 190.801† | -15.5 | 1.01 | 6.51% | [0.00] | mg/L |
| V 292.402† | 2560.4 | 27.42 | 1.07% | [0.00] | mg/L |
| Zn 213.857† | -128.4 | 4.04 | 3.15% | [0.00] | mg/L |

**Sequence No.: 2**
**Sample ID: Calib Std 1**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 2**
**Date Collected: 11/30/01 6:16:43 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: Calib Std 1**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2838759.1 | 2838759.1 | | | 18:18:16 |
| 1 | Ag 328.068† | 13310.6 | 10430.2 | [0.0500] | mg/L | 18:18:22 |
| 1 | Al 237.313† | 3397.6 | 3412.9 | [0.5] | mg/L | 18:18:22 |
| 1 | As 188.979† | 39.9 | 47.1 | [0.1000] | mg/L | 18:18:42 |
| 1 | B 182.528† | 49.5 | 52.1 | [0.1000] | mg/L | 18:18:42 |
| 1 | Ba 233.527† | 14904.7 | 14598.0 | [0.1000] | mg/L | 18:18:22 |
| 1 | Be 313.107† | 59609.8 | 51537.8 | [0.0100] | mg/L | 18:18:22 |
| 1 | Ca 315.886† | 158597.3 | 152201.8 | [1.0000] | mg/L | 18:18:16 |
| 1 | Cd 228.802† | 2754.8 | 2647.1 | [0.0500] | mg/L | 18:18:22 |
| 1 | Co 228.616† | 6317.0 | 6545.7 | [0.1000] | mg/L | 18:18:22 |
| 1 | Cr 267.716† | 17508.1 | 15189.8 | [0.1000] | mg/L | 18:18:22 |
| 1 | Cu 324.752† | 21909.6 | 20734.5 | [0.1000] | mg/L | 18:18:22 |
| 1 | Fe 238.204† | 56085.0 | 54544.4 | [0.5] | mg/L | 18:18:22 |
| 1 | Mg 279.077† | 22740.0 | 22007.0 | [1.0000] | mg/L | 18:18:22 |
| 1 | Mn 257.610† | 90100.4 | 85826.7 | [0.1000] | mg/L | 18:18:22 |
| 1 | Mo 202.031† | 866.2 | 898.9 | [0.1000] | mg/L | 18:18:42 |
| 1 | Na 330.237† | 8826.9 | 4857.0 | [5.0000] | mg/L | 18:18:22 |
| 1 | Ni 231.604† | 4222.0 | 4424.7 | [0.1000] | mg/L | 18:18:22 |
| 1 | Pb 220.353† | 657.1 | 554.9 | [0.1000] | mg/L | 18:18:42 |
| 1 | Sb 206.836† | 326.8 | 215.0 | [0.1000] | mg/L | 18:18:42 |
| 1 | Se 196.026† | -31.8 | 61.5 | [0.2000] | mg/L | 18:18:42 |
| 1 | Sn 189.927† | 219.5 | 212.9 | [0.1000] | mg/L | 18:18:42 |
| 1 | Ti 337.279† | 63638.1 | 60370.8 | [0.1000] | mg/L | 18:18:22 |
| 1 | Tl 190.801† | 34.6 | 49.1 | [0.1000] | mg/L | 18:18:42 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | V 292.402† | 22692.7 | 19512.4 | [0.1000] | mg/L | 18:18:22 |
| 1 | Zn 213.857† | 4549.6 | 4553.7 | [0.1000] | mg/L | 18:18:22 |
| 2 | Y 360.073 | 2864267.2 | 2864267.2 | | | 18:18:48 |
| 2 | Ag 328.068† | 13453.1 | 10452.3 | [0.0500] | mg/L | 18:18:53 |
| 2 | Al 237.313† | 3451.2 | 3435.1 | [0.5] | mg/L | 18:18:53 |
| 2 | As 188.979† | 42.0 | 48.8 | [0.1000] | mg/L | 18:19:13 |
| 2 | B 182.528† | 53.4 | 55.5 | [0.1000] | mg/L | 18:19:13 |
| 2 | Ba 233.527† | 15059.1 | 14617.7 | [0.1000] | mg/L | 18:18:53 |
| 2 | Be 313.107† | 60163.5 | 51555.1 | [0.0100] | mg/L | 18:18:53 |
| 2 | Ca 315.886† | 160650.5 | 152807.3 | [1.0000] | mg/L | 18:18:48 |
| 2 | Cd 228.802† | 2771.0 | 2638.8 | [0.0500] | mg/L | 18:18:53 |
| 2 | Co 228.616† | 6425.6 | 6595.8 | [0.1000] | mg/L | 18:18:53 |
| 2 | Cr 267.716† | 17660.9 | 15185.5 | [0.1000] | mg/L | 18:18:53 |
| 2 | Cu 324.752† | 22157.3 | 20783.5 | [0.1000] | mg/L | 18:18:53 |
| 2 | Fe 238.204† | 56547.0 | 54504.0 | [0.5] | mg/L | 18:18:53 |
| 2 | Mg 279.077† | 23050.0 | 22108.9 | [1.0000] | mg/L | 18:18:53 |
| 2 | Mn 257.610† | 90832.4 | 85751.8 | [0.1000] | mg/L | 18:18:53 |
| 2 | Mo 202.031† | 873.3 | 898.3 | [0.1000] | mg/L | 18:19:13 |
| 2 | Na 330.237† | 8751.3 | 4707.6 | [5.0000] | mg/L | 18:18:53 |
| 2 | Ni 231.604† | 4274.8 | 4439.1 | [0.1000] | mg/L | 18:18:53 |
| 2 | Pb 220.353† | 654.0 | 546.2 | [0.1000] | mg/L | 18:19:13 |
| 2 | Sb 206.836† | 331.2 | 216.3 | [0.1000] | mg/L | 18:19:13 |
| 2 | Se 196.026† | -31.4 | 62.1 | [0.2000] | mg/L | 18:19:13 |
| 2 | Sn 189.927† | 225.3 | 216.6 | [0.1000] | mg/L | 18:19:13 |
| 2 | Ti 337.279† | 64017.0 | 60184.9 | [0.1000] | mg/L | 18:18:53 |
| 2 | Tl 190.801† | 34.1 | 48.3 | [0.1000] | mg/L | 18:19:13 |
| 2 | V 292.402† | 22808.1 | 19427.1 | [0.1000] | mg/L | 18:18:53 |
| 2 | Zn 213.857† | 4618.6 | 4580.8 | [0.1000] | mg/L | 18:18:53 |

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**Mean Data: Calib Std 1**

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Y 360.073 | 2851513.1 | 18036.98 | 0.63% | | |
| Ag 328.068† | 10441.2 | 15.59 | 0.15% | [0.0500] | mg/L |
| Al 237.313† | 3424.0 | 15.73 | 0.46% | [0.5] | mg/L |
| As 188.979† | 48.0 | 1.15 | 2.41% | [0.1000] | mg/L |
| B 182.528† | 53.8 | 2.39 | 4.44% | [0.1000] | mg/L |
| Ba 233.527† | 14607.9 | 13.95 | 0.10% | [0.1000] | mg/L |
| Be 313.107† | 51546.4 | 12.30 | 0.02% | [0.0100] | mg/L |
| Ca 315.886† | 152504.6 | 428.11 | 0.28% | [1.0000] | mg/L |
| Cd 228.802† | 2642.9 | 5.84 | 0.22% | [0.0500] | mg/L |
| Co 228.616† | 6570.8 | 35.36 | 0.54% | [0.1000] | mg/L |
| Cr 267.716† | 15187.7 | 3.05 | 0.02% | [0.1000] | mg/L |
| Cu 324.752† | 20759.0 | 34.63 | 0.17% | [0.1000] | mg/L |
| Fe 238.204† | 54524.2 | 28.60 | 0.05% | [0.5] | mg/L |
| Mg 279.077† | 22057.9 | 72.05 | 0.33% | [1.0000] | mg/L |
| Mn 257.610† | 85789.2 | 52.94 | 0.06% | [0.1000] | mg/L |
| Mo 202.031† | 898.6 | 0.48 | 0.05% | [0.1000] | mg/L |
| Na 330.237† | 4782.3 | 105.63 | 2.21% | [5.0000] | mg/L |
| Ni 231.604† | 4431.9 | 10.17 | 0.23% | [0.1000] | mg/L |
| Pb 220.353† | 550.5 | 6.12 | 1.11% | [0.1000] | mg/L |
| Sb 206.836† | 215.7 | 0.97 | 0.45% | [0.1000] | mg/L |
| Se 196.026† | 61.8 | 0.43 | 0.69% | [0.2000] | mg/L |
| Sn 189.927† | 214.8 | 2.64 | 1.23% | [0.1000] | mg/L |
| Ti 337.279† | 60277.8 | 131.50 | 0.22% | [0.1000] | mg/L |
| Tl 190.801† | 48.7 | 0.55 | 1.13% | [0.1000] | mg/L |
| V 292.402† | 19469.7 | 60.32 | 0.31% | [0.1000] | mg/L |
| Zn 213.857† | 4567.2 | 19.13 | 0.42% | [0.1000] | mg/L |

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**Sequence No.: 3** **Autosampler Location: 3**
**Sample ID: Calib Std 2** **Date Collected: 11/30/01 6:20:51 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: Calib Std 2**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2808821.7 | 2808821.7 | | | 18:22:27 |
| 1 | Ag 328.068† | 54783.6 | 51338.3 | [0.2500] | mg/L | 18:22:32 |
| 1 | Al 237.313† | 17230.8 | 17046.9 | [2.5] | mg/L | 18:22:32 |
| 1 | As 188.979† | 231.9 | 236.3 | [0.5000] | mg/L | 18:22:52 |
| 1 | B 182.528† | 254.7 | 254.3 | [0.5000] | mg/L | 18:22:52 |
| 1 | Ba 233.527† | 72814.1 | 71680.5 | [0.5000] | mg/L | 18:22:32 |
| 1 | Be 313.107† | 272177.9 | 261121.0 | [0.0500] | mg/L | 18:22:27 |
| 1 | Ca 315.886† | 765163.1 | 750131.1 | [5.0000] | mg/L | 18:22:27 |
| 1 | Cd 228.802† | 13342.8 | 13084.2 | [0.2500] | mg/L | 18:22:32 |
| 1 | Co 228.616† | 32138.6 | 31995.2 | [0.5000] | mg/L | 18:22:32 |
| 1 | Cr 267.716† | 77609.1 | 74453.8 | [0.5000] | mg/L | 18:22:32 |
| 1 | Cu 324.752† | 104259.3 | 101915.6 | [0.5000] | mg/L | 18:22:32 |
| 1 | Fe 238.204† | 271454.3 | 266844.9 | [2.5] | mg/L | 18:22:32 |
| 1 | Mg 279.077† | 109729.6 | 107758.0 | [5.0000] | mg/L | 18:22:32 |
| 1 | Mn 257.610† | 432591.4 | 423446.8 | [0.5000] | mg/L | 18:22:27 |
| 1 | Mo 202.031† | 4489.6 | 4469.9 | [0.5000] | mg/L | 18:22:52 |
| 1 | Na 330.237† | 29887.2 | 25651.9 | [25.0000] | mg/L | 18:22:32 |
| 1 | Ni 231.604† | 21842.3 | 21790.1 | [0.5000] | mg/L | 18:22:32 |
| 1 | Pb 220.353† | 2863.2 | 2730.4 | [0.5000] | mg/L | 18:22:52 |
| 1 | Sb 206.836† | 1240.8 | 1116.8 | [0.5000] | mg/L | 18:22:52 |
| 1 | Se 196.026† | 205.2 | 294.2 | [1.0000] | mg/L | 18:22:52 |
| 1 | Sn 189.927† | 1081.6 | 1062.7 | [0.5000] | mg/L | 18:22:52 |
| 1 | Ti 337.279† | 307299.0 | 300561.7 | [0.5000] | mg/L | 18:22:27 |
| 1 | Tl 190.801† | 240.1 | 251.6 | [0.5000] | mg/L | 18:22:52 |
| 1 | V 292.402† | 100616.6 | 96350.8 | [0.5000] | mg/L | 18:22:32 |
| 1 | Zn 213.857† | 22885.2 | 22625.7 | [0.5000] | mg/L | 18:22:32 |
| 2 | Y 360.073 | 2796586.4 | 2796586.4 | | | 18:22:59 |
| 2 | Ag 328.068† | 55167.4 | 51952.8 | [0.2500] | mg/L | 18:23:05 |
| 2 | Al 237.313† | 17501.2 | 17387.9 | [2.5] | mg/L | 18:23:05 |
| 2 | As 188.979† | 234.7 | 240.1 | [0.5000] | mg/L | 18:23:25 |
| 2 | B 182.528† | 254.0 | 254.8 | [0.5000] | mg/L | 18:23:25 |
| 2 | Ba 233.527† | 73530.9 | 72701.4 | [0.5000] | mg/L | 18:23:05 |
| 2 | Be 313.107† | 271237.0 | 261362.6 | [0.0500] | mg/L | 18:22:59 |
| 2 | Ca 315.886† | 761947.7 | 750247.2 | [5.0000] | mg/L | 18:22:59 |
| 2 | Cd 228.802† | 13465.7 | 13262.9 | [0.2500] | mg/L | 18:23:05 |
| 2 | Co 228.616† | 32419.5 | 32410.8 | [0.5000] | mg/L | 18:23:05 |
| 2 | Cr 267.716† | 78450.7 | 75618.5 | [0.5000] | mg/L | 18:23:05 |
| 2 | Cu 324.752† | 105776.8 | 103862.3 | [0.5000] | mg/L | 18:23:05 |
| 2 | Fe 238.204† | 274441.3 | 270961.7 | [2.5] | mg/L | 18:23:05 |
| 2 | Mg 279.077† | 110989.5 | 109473.9 | [5.0000] | mg/L | 18:23:05 |
| 2 | Mn 257.610† | 431072.9 | 423808.0 | [0.5000] | mg/L | 18:22:59 |
| 2 | Mo 202.031† | 4501.2 | 4500.7 | [0.5000] | mg/L | 18:23:25 |
| 2 | Na 330.237† | 30187.0 | 26076.4 | [25.0000] | mg/L | 18:23:05 |
| 2 | Ni 231.604† | 22085.8 | 22124.6 | [0.5000] | mg/L | 18:23:05 |
| 2 | Pb 220.353† | 2866.0 | 2745.5 | [0.5000] | mg/L | 18:23:25 |
| 2 | Sb 206.836† | 1250.2 | 1131.4 | [0.5000] | mg/L | 18:23:25 |
| 2 | Se 196.026† | 200.9 | 290.8 | [1.0000] | mg/L | 18:23:25 |
| 2 | Sn 189.927† | 1085.5 | 1071.2 | [0.5000] | mg/L | 18:23:25 |
| 2 | Ti 337.279† | 305295.0 | 299904.6 | [0.5000] | mg/L | 18:22:59 |
| 2 | Tl 190.801† | 240.7 | 253.2 | [0.5000] | mg/L | 18:23:25 |
| 2 | V 292.402† | 101721.0 | 97874.0 | [0.5000] | mg/L | 18:23:05 |
| 2 | Zn 213.857† | 23023.5 | 22860.6 | [0.5000] | mg/L | 18:23:05 |

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**Mean Data: Calib Std 2**

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Y 360.073 | 2802704.0 | 8651.65 | 0.31% | | |
| Ag 328.068† | 51645.5 | 434.53 | 0.84% | [0.2500] | mg/L |
| Al 237.313† | 17217.4 | 241.17 | 1.40% | [2.5] | mg/L |
| As 188.979† | 238.2 | 2.65 | 1.11% | [0.5000] | mg/L |
| B 182.528† | 254.5 | 0.32 | 0.12% | [0.5000] | mg/L |
| Ba 233.527† | 72190.9 | 721.88 | 1.00% | [0.5000] | mg/L |
| Be 313.107† | 261241.8 | 170.84 | 0.07% | [0.0500] | mg/L |
| Ca 315.886† | 750189.2 | 82.11 | 0.01% | [5.0000] | mg/L |
| Cd 228.802† | 13173.6 | 126.40 | 0.96% | [0.2500] | mg/L |
| Co 228.616† | 32203.0 | 293.91 | 0.91% | [0.5000] | mg/L |
| Cr 267.716† | 75036.1 | 823.58 | 1.10% | [0.5000] | mg/L |
| Cu 324.752† | 102889.0 | 1376.51 | 1.34% | [0.5000] | mg/L |
| Fe 238.204† | 268903.3 | 2911.00 | 1.08% | [2.5] | mg/L |
| Mg 279.077† | 108615.9 | 1213.31 | 1.12% | [5.0000] | mg/L |

| | | | | | |
|---|---|---|---|---|---|
| Mn 257.610† | 423627.4 | 255.45 | 0.06% | [0.5000] | mg/L |
| Mo 202.031† | 4485.3 | 21.73 | 0.48% | [0.5000] | mg/L |
| Na 330.237† | 25864.1 | 300.21 | 1.16% | [25.0000] | mg/L |
| Ni 231.604† | 21957.3 | 236.47 | 1.08% | [0.5000] | mg/L |
| Pb 220.353† | 2738.0 | 10.71 | 0.39% | [0.5000] | mg/L |
| Sb 206.836† | 1124.1 | 10.34 | 0.92% | [0.5000] | mg/L |
| Se 196.026† | 292.5 | 2.41 | 0.82% | [1.0000] | mg/L |
| Sn 189.927† | 1067.0 | 6.04 | 0.57% | [0.5000] | mg/L |
| Ti 337.279† | 300233.2 | 464.60 | 0.15% | [0.5000] | mg/L |
| Tl 190.801† | 252.4 | 1.15 | 0.45% | [0.5000] | mg/L |
| V 292.402† | 97112.4 | 1077.01 | 1.11% | [0.5000] | mg/L |
| Zn 213.857† | 22743.1 | 166.13 | 0.73% | [0.5000] | mg/L |

**Sequ nce No.: 4**
**Sample ID: Calib Std 3**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 4**
**Date Collected: 11/30/01 6:25:03 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: Calib Std 3**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Analysis Time |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2780199.6 | 2780199.6 | | | 18:26:42 |
| 1 | Ag 328.068† | 107051.3 | 103803.5 | [0.5000] | mg/L | 18:26:47 |
| 1 | Al 237.313† | 34803.8 | 34674.2 | [5] | mg/L | 18:26:47 |
| 1 | As 188.979† | 471.7 | 476.8 | [1.0000] | mg/L | 18:27:07 |
| 1 | B 182.528† | 509.8 | 510.3 | [1.0000] | mg/L | 18:27:07 |
| 1 | Ba 233.527† | 144628.0 | 143740.8 | [1.0000] | mg/L | 18:26:47 |
| 1 | Be 313.107† | 534791.3 | 524695.6 | [0.1000] | mg/L | 18:26:42 |
| 1 | Ca 315.886† | 1509315.1 | 1496945.3 | [10.0000] | mg/L | 18:26:42 |
| 1 | Cd 228.802† | 26526.7 | 26313.1 | [0.5000] | mg/L | 18:26:47 |
| 1 | Co 228.616† | 64246.5 | 64209.1 | [1.0000] | mg/L | 18:26:47 |
| 1 | Cr 267.716† | 153188.5 | 150302.5 | [1.0000] | mg/L | 18:26:47 |
| 1 | Cu 324.752† | 209886.8 | 207877.0 | [1.0000] | mg/L | 18:26:47 |
| 1 | Fe 238.204† | 541869.1 | 538160.4 | [5] | mg/L | 18:26:42 |
| 1 | Mg 279.077† | 218228.1 | 216626.1 | [10.0000] | mg/L | 18:26:47 |
| 1 | Mn 257.610† | 847963.6 | 840360.6 | [1.0000] | mg/L | 18:26:42 |
| 1 | Mo 202.031† | 9024.5 | 9019.2 | [1.0000] | mg/L | 18:27:07 |
| 1 | Na 330.237† | 58753.5 | 54623.5 | [50.0000] | mg/L | 18:26:47 |
| 1 | Ni 231.604† | 43850.9 | 43869.5 | [1.0000] | mg/L | 18:26:47 |
| 1 | Pb 220.353† | 5614.3 | 5491.7 | [1.0000] | mg/L | 18:27:07 |
| 1 | Sb 206.836† | 2371.1 | 2251.9 | [1.0000] | mg/L | 18:27:07 |
| 1 | Se 196.026† | 502.0 | 591.0 | [2.0000] | mg/L | 18:27:07 |
| 1 | Sn 189.927† | 2140.5 | 2125.3 | [1.0000] | mg/L | 18:27:07 |
| 1 | Ti 337.279† | 606487.3 | 600817.0 | [1.0000] | mg/L | 18:26:42 |
| 1 | Tl 190.801† | 491.7 | 503.8 | [1.0000] | mg/L | 18:27:07 |
| 1 | V 292.402† | 199666.5 | 195742.6 | [1.0000] | mg/L | 18:26:47 |
| 1 | Zn 213.857† | 45808.6 | 45624.1 | [1.0000] | mg/L | 18:26:47 |
| 2 | Y 360.073 | 2755485.7 | 2755485.7 | | | 18:27:15 |
| 2 | Ag 328.068† | 106996.7 | 104702.4 | [0.5000] | mg/L | 18:27:20 |
| 2 | Al 237.313† | 34810.0 | 34990.5 | [5] | mg/L | 18:27:20 |
| 2 | As 188.979† | 463.9 | 473.2 | [1.0000] | mg/L | 18:27:40 |
| 2 | B 182.528† | 509.7 | 514.7 | [1.0000] | mg/L | 18:27:40 |
| 2 | Ba 233.527† | 144537.1 | 144938.1 | [1.0000] | mg/L | 18:27:20 |
| 2 | Be 313.107† | 537835.0 | 532509.5 | [0.1000] | mg/L | 18:27:15 |
| 2 | Ca 315.886† | 1515406.3 | 1516493.9 | [10.0000] | mg/L | 18:27:15 |
| 2 | Cd 228.802† | 26560.3 | 26583.1 | [0.5000] | mg/L | 18:27:20 |
| 2 | Co 228.616† | 64189.6 | 64724.4 | [1.0000] | mg/L | 18:27:20 |
| 2 | Cr 267.716† | 153036.2 | 151514.4 | [1.0000] | mg/L | 18:27:20 |
| 2 | Cu 324.752† | 209555.1 | 209414.2 | [1.0000] | mg/L | 18:27:20 |
| 2 | Fe 238.204† | 544613.6 | 545737.4 | [5] | mg/L | 18:27:15 |
| 2 | Mg 279.077† | 218363.3 | 218705.4 | [10.0000] | mg/L | 18:27:20 |
| 2 | Mn 257.610† | 852148.0 | 852107.2 | [1.0000] | mg/L | 18:27:15 |
| 2 | Mo 202.031† | 8919.4 | 8994.3 | [1.0000] | mg/L | 18:27:40 |
| 2 | Na 330.237† | 58566.9 | 54959.9 | [50.0000] | mg/L | 18:27:20 |
| 2 | Ni 231.604† | 43793.4 | 44202.5 | [1.0000] | mg/L | 18:27:20 |
| 2 | Pb 220.353† | 5551.5 | 5478.8 | [1.0000] | mg/L | 18:27:40 |
| 2 | Sb 206.836† | 2341.8 | 2243.8 | [1.0000] | mg/L | 18:27:40 |
| 2 | Se 196.026† | 492.4 | 585.8 | [2.0000] | mg/L | 18:27:40 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Sn 189.927† | 2136.3 | 2140.2 | [1.0000] | mg/L | 18:27:40 |
| 2 | Ti 337.279† | 608566.1 | 608302.5 | [1.0000] | mg/L | 18:27:15 |
| 2 | Tl 190.801† | 497.4 | 513.9 | [1.0000] | mg/L | 18:27:40 |
| 2 | V 292.402† | 199627.4 | 197482.0 | [1.0000] | mg/L | 18:27:20 |
| 2 | Zn 213.857† | 45833.5 | 46057.2 | [1.0000] | mg/L | 18:27:20 |

**Mean Data: Calib Std 3**

| Analyte | Mean Corrected Intensity | Std.Dev. | RSD | Conc. | Calib Units |
|---|---|---|---|---|---|
| Y 360.073 | 2767842.6 | 17475.42 | 0.63% | | |
| Ag 328.068† | 104252.9 | 635.65 | 0.61% | [0.5000] | mg/L |
| Al 237.313† | 34832.4 | 223.63 | 0.64% | [5] | mg/L |
| As 188.979† | 475.0 | 2.53 | 0.53% | [1.0000] | mg/L |
| B 182.528† | 512.5 | 3.13 | 0.61% | [1.0000] | mg/L |
| Ba 233.527† | 144339.5 | 846.60 | 0.59% | [1.0000] | mg/L |
| Be 313.107† | 528602.6 | 5525.24 | 1.05% | [0.1000] | mg/L |
| Ca 315.886† | 1506719.6 | 13822.89 | 0.92% | [10.0000] | mg/L |
| Cd 228.802† | 26448.1 | 190.88 | 0.72% | [0.5000] | mg/L |
| Co 228.616† | 64466.8 | 364.39 | 0.57% | [1.0000] | mg/L |
| Cr 267.716† | 150908.4 | 856.96 | 0.57% | [1.0000] | mg/L |
| Cu 324.752† | 208645.6 | 1086.96 | 0.52% | [1.0000] | mg/L |
| Fe 238.204† | 541948.9 | 5357.80 | 0.99% | [5] | mg/L |
| Mg 279.077† | 217665.8 | 1470.34 | 0.68% | [10.0000] | mg/L |
| Mn 257.610† | 846233.9 | 8306.11 | 0.98% | [1.0000] | mg/L |
| Mo 202.031† | 9006.7 | 17.63 | 0.20% | [1.0000] | mg/L |
| Na 330.237† | 54791.7 | 237.88 | 0.43% | [50.0000] | mg/L |
| Ni 231.604† | 44036.0 | 235.48 | 0.53% | [1.0000] | mg/L |
| Pb 220.353† | 5485.3 | 9.15 | 0.17% | [1.0000] | mg/L |
| Sb 206.836† | 2247.9 | 5.77 | 0.26% | [1.0000] | mg/L |
| Se 196.026† | 588.4 | 3.66 | 0.62% | [2.0000] | mg/L |
| Sn 189.927† | 2132.7 | 10.49 | 0.49% | [1.0000] | mg/L |
| Ti 337.279† | 604559.7 | 5293.06 | 0.88% | [1.0000] | mg/L |
| Tl 190.801† | 508.9 | 7.14 | 1.40% | [1.0000] | mg/L |
| V 292.402† | 196612.3 | 1229.95 | 0.63% | [1.0000] | mg/L |
| Zn 213.857† | 45840.7 | 306.19 | 0.67% | [1.0000] | mg/L |

**Calibration Summary**

| Analyte | Stds. | Equation | Intercept | Slope | Curvature | Corr. Coef. | Reslope |
|---|---|---|---|---|---|---|---|
| Ag 328.068 | 3 | Lin, Calc Int | -82.1 | 208300 | 0.00000 | 0.999987 | |
| Al 237.313 | 3 | Lin, Calc Int | -63.1 | 6966 | 0.00000 | 0.999982 | |
| As 188.979 | 3 | Lin, Calc Int | 0.3 | 474.9 | 0.00000 | 0.999999 | |
| B 182.528 | 3 | Lin, Calc Int | 0.8 | 511.0 | 0.00000 | 0.999976 | |
| Ba 233.527 | 3 | Lin, Calc Int | 81.1 | 144300 | 0.00000 | 0.999999 | |
| Be 313.107 | 3 | Lin, Calc Int | -1150.2 | 5287000 | 0.00000 | 0.999982 | |
| Ca 315.886 | 3 | Lin, Calc Int | 224.8 | 150500 | 0.00000 | 0.999996 | |
| Cd 228.802 | 3 | Lin, Calc Int | -10.2 | 52880 | 0.00000 | 0.999998 | |
| Co 228.616 | 3 | Lin, Calc Int | 49.4 | 64400 | 0.00000 | 0.999998 | |
| Cr 267.716 | 3 | Lin, Calc Int | -34.6 | 150800 | 0.00000 | 0.999995 | |
| Cu 324.752 | 3 | Lin, Calc Int | -312.8 | 208500 | 0.00000 | 0.999973 | |
| Fe 238.204 | 3 | Lin, Calc Int | -238.1 | 108300 | 0.00000 | 0.999990 | |
| Mg 279.077 | 3 | Lin, Calc Int | 89.0 | 21750 | 0.00000 | 0.999998 | |
| Mn 257.610 | 3 | Lin, Calc Int | 611.8 | 845800 | 0.00000 | 0.999999 | |
| Mo 202.031 | 3 | Lin, Calc Int | -4.3 | 9005 | 0.00000 | 0.999998 | |
| Na 330.237 | 3 | Lin, Calc Int | -593.2 | 1098 | 0.00000 | 0.999576 | |
| Ni 231.604 | 3 | Lin, Calc Int | 1.3 | 44010 | 0.00000 | 0.999998 | |
| Pb 220.353 | 3 | Lin, Calc Int | 0.0 | 5484 | 0.00000 | 0.999999 | |
| Sb 206.836 | 3 | Lin, Calc Int | -4.0 | 2252 | 0.00000 | 0.999992 | |
| Se 196.026 | 3 | Lin, Calc Int | 1.0 | 293.3 | 0.00000 | 0.999977 | |
| Sn 189.927 | 3 | Lin, Calc Int | 0.8 | 2132 | 0.00000 | 1.000000 | |
| Ti 337.279 | 3 | Lin, Calc Int | -458.6 | 604300 | 0.00000 | 0.999993 | |
| Tl 190.801 | 3 | Lin, Calc Int | -1.3 | 509.6 | 0.00000 | 0.999987 | |
| V 292.402 | 3 | Lin, Calc Int | -306.4 | 196500 | 0.00000 | 0.999980 | |
| Zn 213.857 | 3 | Lin, Calc Int | -40.3 | 45820 | 0.00000 | 0.999992 | |

Sequence No.: 5 Autosampler Location: 3
Sample ID: STD2 Date Collected: 11/30/01 6:29:19 PM
Analyst:

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Replicate Data: STD2

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2849960.6 | 2849960.6 | | | | | 18:30:55 |
| 1 | Ag 328.068† | 55431.9 | 51188.9 | 0.2463 | mg/L | 0.2463 | mg/L | 18:31:00 |
| 1 | Al 237.313† | 17506.4 | 17069.3 | 2.443 | mg/L | 2.443 | mg/L | 18:31:00 |
| 1 | As 188.979† | 236.3 | 237.2 | 0.4983 | mg/L | 0.4983 | mg/L | 18:31:20 |
| 1 | B 182.528† | 252.4 | 248.5 | 0.4808 | mg/L | 0.4808 | mg/L | 18:31:20 |
| 1 | Ba 233.527† | 73807.5 | 71609.6 | 0.4955 | mg/L | 0.4955 | mg/L | 18:31:00 |
| 1 | Be 313.107† | 276561.5 | 261505.8 | 0.0497 | mg/L | 0.0497 | mg/L | 18:30:55 |
| 1 | Ca 315.886† | 776754.1 | 750503.3 | 4.983 | mg/L | 4.983 | mg/L | 18:30:55 |
| 1 | Cd 228.802† | 13501.1 | 13048.3 | 0.2457 | mg/L | 0.2457 | mg/L | 18:31:00 |
| 1 | Co 228.616† | 32606.1 | 31992.1 | 0.4955 | mg/L | 0.4955 | mg/L | 18:31:00 |
| 1 | Cr 267.716† | 78653.9 | 74364.6 | 0.4929 | mg/L | 0.4929 | mg/L | 18:31:00 |
| 1 | Cu 324.752† | 105738.0 | 101868.8 | 0.4902 | mg/L | 0.4902 | mg/L | 18:31:00 |
| 1 | Fe 238.204† | 275177.3 | 266599.9 | 2.460 | mg/L | 2.460 | mg/L | 18:31:00 |
| 1 | Mg 279.077† | 111304.0 | 107726.3 | 4.946 | mg/L | 4.946 | mg/L | 18:31:00 |
| 1 | Mn 257.610† | 439713.4 | 424208.4 | 0.5007 | mg/L | 0.5007 | mg/L | 18:30:55 |
| 1 | Mo 202.031† | 4488.6 | 4405.2 | 0.4897 | mg/L | 0.4897 | mg/L | 18:31:20 |
| 1 | Na 330.237† | 30355.3 | 25681.3 | 24.11 | mg/L | 24.11 | mg/L | 18:31:00 |
| 1 | Ni 231.604† | 22122.2 | 21751.3 | 0.4936 | mg/L | 0.4936 | mg/L | 18:31:00 |
| 1 | Pb 220.353† | 2870.3 | 2696.6 | 0.4926 | mg/L | 0.4926 | mg/L | 18:31:20 |
| 1 | Sb 206.836† | 1259.4 | 1117.3 | 0.4940 | mg/L | 0.4940 | mg/L | 18:31:20 |
| 1 | Se 196.026† | 203.1 | 289.2 | 0.9861 | mg/L | 0.9861 | mg/L | 18:31:20 |
| 1 | Sn 189.927† | 1081.2 | 1046.9 | 0.4909 | mg/L | 0.4909 | mg/L | 18:31:20 |
| 1 | Ti 337.279† | 311908.1 | 300666.5 | 0.4982 | mg/L | 0.4982 | mg/L | 18:30:55 |
| 1 | Tl 190.801† | 244.9 | 252.8 | 0.5087 | mg/L | 0.5087 | mg/L | 18:31:20 |
| 1 | V 292.402† | 101979.3 | 96243.3 | 0.4892 | mg/L | 0.4892 | mg/L | 18:31:00 |
| 1 | Zn 213.857† | 23200.9 | 22606.8 | 0.4910 | mg/L | 0.4910 | mg/L | 18:31:00 |
| 2 | Y 360.073 | 2824418.6 | 2824418.6 | | | | | 18:31:27 |
| 2 | Ag 328.068† | 55203.7 | 51451.6 | 0.2475 | mg/L | 0.2475 | mg/L | 18:31:33 |
| 2 | Al 237.313† | 17334.7 | 17054.9 | 2.441 | mg/L | 2.441 | mg/L | 18:31:33 |
| 2 | As 188.979† | 232.1 | 235.3 | 0.4941 | mg/L | 0.4941 | mg/L | 18:31:53 |
| 2 | B 182.528† | 260.1 | 258.2 | 0.4998 | mg/L | 0.4998 | mg/L | 18:31:53 |
| 2 | Ba 233.527† | 73495.7 | 71951.5 | 0.4979 | mg/L | 0.4979 | mg/L | 18:31:33 |
| 2 | Be 313.107† | 274260.6 | 261679.5 | 0.0497 | mg/L | 0.0497 | mg/L | 18:31:27 |
| 2 | Ca 315.886† | 770707.9 | 751398.0 | 4.989 | mg/L | 4.989 | mg/L | 18:31:27 |
| 2 | Cd 228.802† | 13417.2 | 13084.5 | 0.2464 | mg/L | 0.2464 | mg/L | 18:31:33 |
| 2 | Co 228.616† | 32395.4 | 32071.8 | 0.4967 | mg/L | 0.4967 | mg/L | 18:31:33 |
| 2 | Cr 267.716† | 78248.0 | 74657.0 | 0.4948 | mg/L | 0.4948 | mg/L | 18:31:33 |
| 2 | Cu 324.752† | 105111.7 | 102182.9 | 0.4917 | mg/L | 0.4917 | mg/L | 18:31:33 |
| 2 | Fe 238.204† | 273908.2 | 267770.3 | 2.471 | mg/L | 2.471 | mg/L | 18:31:33 |
| 2 | Mg 279.077† | 110810.5 | 108219.0 | 4.969 | mg/L | 4.969 | mg/L | 18:31:33 |
| 2 | Mn 257.610† | 435924.2 | 424356.7 | 0.5009 | mg/L | 0.5009 | mg/L | 18:31:27 |
| 2 | Mo 202.031† | 4516.8 | 4472.1 | 0.4971 | mg/L | 0.4971 | mg/L | 18:31:53 |
| 2 | Na 330.237† | 30218.6 | 25813.6 | 24.23 | mg/L | 24.23 | mg/L | 18:31:33 |
| 2 | Ni 231.604† | 21983.1 | 21809.2 | 0.4949 | mg/L | 0.4949 | mg/L | 18:31:33 |
| 2 | Pb 220.353† | 2866.6 | 2718.2 | 0.4965 | mg/L | 0.4965 | mg/L | 18:31:53 |
| 2 | Sb 206.836† | 1262.6 | 1131.4 | 0.5003 | mg/L | 0.5003 | mg/L | 18:31:53 |
| 2 | Se 196.026† | 211.6 | 299.3 | 1.021 | mg/L | 1.021 | mg/L | 18:31:53 |
| 2 | Sn 189.927† | 1096.4 | 1071.2 | 0.5023 | mg/L | 0.5023 | mg/L | 18:31:53 |
| 2 | Ti 337.279† | 309411.7 | 300958.9 | 0.4987 | mg/L | 0.4987 | mg/L | 18:31:27 |
| 2 | Tl 190.801† | 246.0 | 256.0 | 0.5149 | mg/L | 0.5149 | mg/L | 18:31:53 |
| 2 | V 292.402† | 101543.1 | 96710.4 | 0.4915 | mg/L | 0.4915 | mg/L | 18:31:33 |
| 2 | Zn 213.857† | 23062.8 | 22675.0 | 0.4925 | mg/L | 0.4925 | mg/L | 18:31:33 |

Mean Data: STD2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2837189.6 | | | | | | 18060.90 | 0.64% |
| Ag 328.068† | 51320.3 | 0.2469 | mg/L | 0.00089 | 0.2469 | mg/L | 0.00089 | 0.36% |
| QC value within limits for Ag 328.068 Recovery = 98.75% | | | | | | | | |
| Al 237.313† | 17062.1 | 2.442 | mg/L | 0.0015 | 2.442 | mg/L | 0.0015 | 0.06% |
| QC value within limits for Al 237.313 Recovery = 97.70% | | | | | | | | |
| As 188.979† | 236.3 | 0.4962 | mg/L | 0.00298 | 0.4962 | mg/L | 0.00298 | 0.60% |
| QC value within limits for As 188.979 Recovery = 99.23% | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| B 182.528† | 253.4 | 0.4903 mg/L | 0.01342 | 0.4903 mg/L | 0.01342 | 2.74% |
| QC value within limits for B 182.528 Recovery = 98.06% | | | | | | |
| Ba 233.527† | 71780.6 | 0.4967 mg/L | 0.00167 | 0.4967 mg/L | 0.00167 | 0.34% |
| QC value within limits for Ba 233.527 Recovery = 99.34% | | | | | | |
| Be 313.107† | 261592.7 | 0.0497 mg/L | 0.00002 | 0.0497 mg/L | 0.00002 | 0.05% |
| QC value within limits for Be 313.107 Recovery = 99.45% | | | | | | |
| Ca 315.886† | 750950.7 | 4.986 mg/L | 0.0042 | 4.986 mg/L | 0.0042 | 0.08% |
| QC value within limits for Ca 315.886 Recovery = 99.72% | | | | | | |
| Cd 228.802† | 13066.4 | 0.2461 mg/L | 0.00051 | 0.2461 mg/L | 0.00051 | 0.21% |
| QC value within limits for Cd 228.802 Recovery = 98.43% | | | | | | |
| Co 228.616† | 32032.0 | 0.4961 mg/L | 0.00087 | 0.4961 mg/L | 0.00087 | 0.18% |
| QC value within limits for Co 228.616 Recovery = 99.22% | | | | | | |
| Cr 267.716† | 74510.8 | 0.4938 mg/L | 0.00137 | 0.4938 mg/L | 0.00137 | 0.28% |
| QC value within limits for Cr 267.716 Recovery = 98.77% | | | | | | |
| Cu 324.752† | 102025.9 | 0.4909 mg/L | 0.00106 | 0.4909 mg/L | 0.00106 | 0.22% |
| QC value within limits for Cu 324.752 Recovery = 98.19% | | | | | | |
| Fe 238.204† | 267185.1 | 2.465 mg/L | 0.0076 | 2.465 mg/L | 0.0076 | 0.31% |
| QC value within limits for Fe 238.204 Recovery = 98.61% | | | | | | |
| Mg 279.077† | 107972.6 | 4.958 mg/L | 0.0160 | 4.958 mg/L | 0.0160 | 0.32% |
| QC value within limits for Mg 279.077 Recovery = 99.15% | | | | | | |
| Mn 257.610† | 424282.6 | 0.5008 mg/L | 0.00012 | 0.5008 mg/L | 0.00012 | 0.02% |
| QC value within limits for Mn 257.610 Recovery = 100.17% | | | | | | |
| Mo 202.031† | 4438.7 | 0.4934 mg/L | 0.00526 | 0.4934 mg/L | 0.00526 | 1.07% |
| QC value within limits for Mo 202.031 Recovery = 98.69% | | | | | | |
| Na 330.237† | 25747.5 | 24.17 mg/L | 0.086 | 24.17 mg/L | 0.086 | 0.36% |
| QC value within limits for Na 330.237 Recovery = 96.66% | | | | | | |
| Ni 231.604† | 21780.3 | 0.4943 mg/L | 0.00093 | 0.4943 mg/L | 0.00093 | 0.19% |
| QC value within limits for Ni 231.604 Recovery = 98.85% | | | | | | |
| Pb 220.353† | 2707.4 | 0.4946 mg/L | 0.00279 | 0.4946 mg/L | 0.00279 | 0.56% |
| QC value within limits for Pb 220.353 Recovery = 98.91% | | | | | | |
| Sb 206.836† | 1124.4 | 0.4971 mg/L | 0.00443 | 0.4971 mg/L | 0.00443 | 0.89% |
| QC value within limits for Sb 206.836 Recovery = 99.43% | | | | | | |
| Se 196.026† | 294.2 | 1.003 mg/L | 0.0244 | 1.003 mg/L | 0.0244 | 2.44% |
| QC value within limits for Se 196.026 Recovery = 100.34% | | | | | | |
| Sn 189.927† | 1059.1 | 0.4966 mg/L | 0.00806 | 0.4966 mg/L | 0.00806 | 1.62% |
| QC value within limits for Sn 189.927 Recovery = 99.32% | | | | | | |
| Ti 337.279† | 300812.7 | 0.4984 mg/L | 0.00034 | 0.4984 mg/L | 0.00034 | 0.07% |
| QC value within limits for Ti 337.279 Recovery = 99.68% | | | | | | |
| Tl 190.801† | 254.4 | 0.5118 mg/L | 0.00438 | 0.5118 mg/L | 0.00438 | 0.86% |
| QC value within limits for Tl 190.801 Recovery = 102.37% | | | | | | |
| V 292.402† | 96476.8 | 0.4903 mg/L | 0.00167 | 0.4903 mg/L | 0.00167 | 0.34% |
| QC value within limits for V 292.402 Recovery = 98.07% | | | | | | |
| Zn 213.857† | 22640.9 | 0.4917 mg/L | 0.00105 | 0.4917 mg/L | 0.00105 | 0.21% |
| QC value within limits for Zn 213.857 Recovery = 98.35% | | | | | | |

All analytes passed QC.

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**Sequence No.:** 6
**Sample ID:** ICSA
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 106
**Date Collected:** 11/30/01 6:33:31 PM
**Sample Prep Volume:**
**Data Type:** Original

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**Replicate Data: ICSA**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2633074.4 | 2633074.4 | | | | | 18:35:20 |
| 1 | Ag 328.068† | 2119.0 | -294.7 | -0.0010 | mg/L | -0.0010 | mg/L | 18:35:25 |
| 1 | Al 237.313† | 1687389.8 | 1769615.9 | 253.2 | mg/L | 253.2 | mg/L | 18:35:20 |
| 1 | As 188.979† | -10.7 | -2.9 | -0.0068 | mg/L | -0.0068 | mg/L | 18:35:46 |
| 1 | B 182.528† | 54.2 | 60.8 | -0.1122 | mg/L | -0.1122 | mg/L | 18:35:46 |
| 1 | Ba 233.527† | 487.8 | 612.0 | 0.0037 | mg/L | 0.0037 | mg/L | 18:35:46 |
| 1 | Be 313.107† | 3183.2 | -3105.6 | -0.0004 | mg/L | -0.0004 | mg/L | 18:35:25 |
| 1 | Ca 315.886† | 35208918.6 | 36920321.2 | 245.1 | mg/L | 245.1 | mg/L | 18:35:13 |
| 1 | Cd 228.802† | -45.7 | -80.3 | -0.0013 | mg/L | -0.0013 | mg/L | 18:35:46 |
| 1 | Co 228.616† | -421.2 | -40.4 | -0.0014 | mg/L | -0.0014 | mg/L | 18:35:46 |
| 1 | Cr 267.716† | 1221.6 | -558.9 | -0.0035 | mg/L | -0.0035 | mg/L | 18:35:46 |
| 1 | Cu 324.752† | -207.7 | -794.4 | -0.0023 | mg/L | -0.0023 | mg/L | 18:35:25 |
| 1 | Fe 238.204† | 9284641.5 | 9736476.3 | 89.69 | mg/L | 89.69 | mg/L | 18:35:13 |
| 1 | Mg 279.077† | 5105889.9 | 5354259.6 | 245.9 | mg/L | 245.9 | mg/L | 18:35:20 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Mn 257.610† | 6343.1 | 4839.2 | 0.0050 mg/L | 0.0050 mg/L | 18:35:25 |
| 1 | Mo 202.031† | -30.8 | 24.1 | 0.0031 mg/L | 0.0031 mg/L | 18:35:46 |
| 1 | Na 330.237† | 3869.4 | 329.0 | 0.8503 mg/L | 0.8503 mg/L | 18:35:25 |
| 1 | Ni 231.604† | -393.1 | -94.2 | -0.0022 mg/L | -0.0022 mg/L | 18:35:46 |
| 1 | Pb 220.353† | 78.0 | -2.4 | -0.0004 mg/L | -0.0004 mg/L | 18:35:46 |
| 1 | Sb 206.836† | 160.3 | 65.1 | 0.0307 mg/L | 0.0307 mg/L | 18:35:46 |
| 1 | Se 196.026† | -129.6 | -43.5 | 0.0290 mg/L | 0.0290 mg/L | 18:35:46 |
| 1 | Sn 189.927† | 9.1 | 8.9 | 0.0166 mg/L | 0.0166 mg/L | 18:35:46 |
| 1 | Ti 337.279† | 5030.7 | 3746.6 | 0.0070 mg/L | 0.0070 mg/L | 18:35:25 |
| 1 | Tl 190.801† | -12.4 | 2.5 | 0.0077 mg/L | 0.0077 mg/L | 18:35:46 |
| 1 | V 292.402† | 555.2 | -1978.2 | -0.0085 mg/L | -0.0085 mg/L | 18:35:46 |
| 1 | Zn 213.857† | 1305.4 | 1497.3 | 0.0336 mg/L | 0.0336 mg/L | 18:35:46 |
| 2 | Y 360.073 | 2687009.4 | 2687009.4 | | | 18:36:05 |
| 2 | Ag 328.068† | 2058.3 | -401.7 | -0.0015 mg/L | -0.0015 mg/L | 18:36:11 |
| 2 | Al 237.313† | 1699707.8 | 1746755.5 | 250.0 mg/L | 250.0 mg/L | 18:36:05 |
| 2 | As 188.979† | -8.3 | -0.2 | -0.0012 mg/L | -0.0012 mg/L | 18:36:31 |
| 2 | B 182.528† | 48.8 | 54.0 | -0.1219 mg/L | -0.1219 mg/L | 18:36:31 |
| 2 | Ba 233.527† | 496.6 | 610.8 | 0.0037 mg/L | 0.0037 mg/L | 18:36:31 |
| 2 | Be 313.107† | 3165.4 | -3191.0 | -0.0004 mg/L | -0.0004 mg/L | 18:36:11 |
| 2 | Ca 315.886† | 35102781.7 | 36070127.5 | 239.5 mg/L | 239.5 mg/L | 18:35:58 |
| 2 | Cd 228.802† | -43.8 | -77.4 | -0.0013 mg/L | -0.0013 mg/L | 18:36:31 |
| 2 | Co 228.616† | -425.3 | -35.8 | -0.0013 mg/L | -0.0013 mg/L | 18:36:31 |
| 2 | Cr 267.716† | 1305.9 | -498.0 | -0.0031 mg/L | -0.0031 mg/L | 18:36:31 |
| 2 | Cu 324.752† | -220.7 | -803.4 | -0.0024 mg/L | -0.0024 mg/L | 18:36:11 |
| 2 | Fe 238.204† | 9257543.7 | 9513194.4 | 87.63 mg/L | 87.63 mg/L | 18:35:58 |
| 2 | Mg 279.077† | 5132371.1 | 5273996.4 | 242.3 mg/L | 242.3 mg/L | 18:36:05 |
| 2 | Mn 257.610† | 6334.0 | 4696.3 | 0.0048 mg/L | 0.0048 mg/L | 18:36:11 |
| 2 | Mo 202.031† | -41.8 | 13.4 | 0.0020 mg/L | 0.0020 mg/L | 18:36:31 |
| 2 | Na 330.237† | 3825.2 | 202.1 | 0.7347 mg/L | 0.7347 mg/L | 18:36:11 |
| 2 | Ni 231.604† | -406.4 | -99.6 | -0.0023 mg/L | -0.0023 mg/L | 18:36:31 |
| 2 | Pb 220.353† | 70.9 | -11.4 | -0.0021 mg/L | -0.0021 mg/L | 18:36:31 |
| 2 | Sb 206.836† | 149.0 | 50.2 | 0.0241 mg/L | 0.0241 mg/L | 18:36:31 |
| 2 | Se 196.026† | -135.0 | -46.3 | 0.0164 mg/L | 0.0164 mg/L | 18:36:31 |
| 2 | Sn 189.927† | 13.3 | 13.0 | 0.0193 mg/L | 0.0193 mg/L | 18:36:31 |
| 2 | Ti 337.279† | 5233.8 | 3849.5 | 0.0071 mg/L | 0.0071 mg/L | 18:36:11 |
| 2 | Tl 190.801† | -18.7 | -3.8 | -0.0045 mg/L | -0.0045 mg/L | 18:36:31 |
| 2 | V 292.402† | 529.1 | -2016.7 | -0.0087 mg/L | -0.0087 mg/L | 18:36:31 |
| 2 | Zn 213.857† | 1335.6 | 1500.8 | 0.0336 mg/L | 0.0336 mg/L | 18:36:31 |

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**Mean Data: ICSA**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2660041.9 | | | | | | 38137.86 | 1.43% |
| Ag 328.068† | -348.2 | -0.0013 | mg/L | 0.00036 | -0.0013 | mg/L | 0.00036 | 28.41% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 1758185.7 | 251.6 | mg/L | 2.31 | 251.6 | mg/L | 2.31 | 0.92% |
| QC value within limits for Al 237.313 Recovery = 100.63% | | | | | | | | |
| As 188.979† | -1.6 | -0.0040 | mg/L | 0.00394 | -0.0040 | mg/L | 0.00394 | 98.09% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 57.4 | -0.1170 | mg/L | 0.00688 | -0.1170 | mg/L | 0.00688 | 5.87% |
| QC value less than the lower limit for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 611.4 | 0.0037 | mg/L | 0.00001 | 0.0037 | mg/L | 0.00001 | 0.15% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -3148.3 | -0.0004 | mg/L | 0.00001 | -0.0004 | mg/L | 0.00001 | 3.01% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.886† | 36495224.3 | 242.3 | mg/L | 3.99 | 242.3 | mg/L | 3.99 | 1.65% |
| QC value within limits for Ca 315.886 Recovery = 96.92% | | | | | | | | |
| Cd 228.802† | -78.9 | -0.0013 | mg/L | 0.00001 | -0.0013 | mg/L | 0.00001 | 1.07% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | -38.1 | -0.0014 | mg/L | 0.00005 | -0.0014 | mg/L | 0.00005 | 3.73% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -528.4 | -0.0033 | mg/L | 0.00029 | -0.0033 | mg/L | 0.00029 | 8.73% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 324.752† | -798.9 | -0.0023 | mg/L | 0.00003 | -0.0023 | mg/L | 0.00003 | 1.29% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | | | |
| Fe 238.204† | 9624835.3 | 88.66 | mg/L | 1.456 | 88.66 | mg/L | 1.456 | 1.64% |
| QC value within limits for Fe 238.204 Recovery = 88.66% | | | | | | | | |
| Mg 279.077† | 5314128.0 | 244.1 | mg/L | 2.61 | 244.1 | mg/L | 2.61 | 1.07% |
| QC value within limits for Mg 279.077 Recovery = 97.64% | | | | | | | | |
| Mn 257.610† | 4767.8 | 0.0049 | mg/L | 0.00012 | 0.0049 | mg/L | 0.00012 | 2.43% |

QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 18.7 0.0026 mg/L 0.00084 0.0026 mg/L 0.00084 32.93%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 330.237† 265.5 0.7925 mg/L 0.08177 0.7925 mg/L 0.08177 10.32%
QC value within limits for Na 330.237 Recovery = Not calculated
Ni 231.604† -96.9 -0.0022 mg/L 0.00009 -0.0022 mg/L 0.00009 3.93%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -6.9 -0.0013 mg/L 0.00115 -0.0013 mg/L 0.00115 91.59%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 57.7 0.0274 mg/L 0.00469 0.0274 mg/L 0.00469 17.12%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -44.9 0.0227 mg/L 0.00889 0.0227 mg/L 0.00889 39.11%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 11.0 0.0179 mg/L 0.00193 0.0179 mg/L 0.00193 10.73%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 3798.0 0.0070 mg/L 0.00012 0.0070 mg/L 0.00012 1.71%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 190.801† -0.6 0.0016 mg/L 0.00869 0.0016 mg/L 0.00869 544.41%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† -1997.4 -0.0086 mg/L 0.00014 -0.0086 mg/L 0.00014 1.62%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† 1499.0 0.0336 mg/L 0.00005 0.0336 mg/L 0.00005 0.16%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

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**Sequence No.: 7** **Autosampler Location: 105**
**Sample ID: ICSAB** **Date Collected: 11/30/01 6:38:10 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: ICSAB**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2679424.9 | 2679424.9 | | | | | 18:39:59 |
| 1 | Ag 328.068† | 111166.5 | 112043.1 | 0.5382 | mg/L | 0.5382 | mg/L | 18:40:05 |
| 1 | Al 237.313† | 1730169.7 | 1783091.5 | 255.2 | mg/L | 255.2 | mg/L | 18:39:59 |
| 1 | As 188.979† | -2.5 | 5.7 | 0.0112 | mg/L | 0.0112 | mg/L | 18:40:25 |
| 1 | B 182.528† | 51.8 | 57.4 | -0.1201 | mg/L | -0.1201 | mg/L | 18:40:25 |
| 1 | Ba 233.527† | 35994.9 | 37194.1 | 0.2571 | mg/L | 0.2571 | mg/L | 18:40:05 |
| 1 | Be 313.107† | 1311650.6 | 1345245.1 | 0.2547 | mg/L | 0.2547 | mg/L | 18:39:59 |
| 1 | Ca 315.886† | 36056840.5 | 37155417.4 | 246.7 | mg/L | 246.7 | mg/L | 18:39:52 |
| 1 | Cd 228.802† | 25727.8 | 26480.7 | 0.5019 | mg/L | 0.5019 | mg/L | 18:40:05 |
| 1 | Co 228.616† | 13823.7 | 14647.0 | 0.2264 | mg/L | 0.2264 | mg/L | 18:40:25 |
| 1 | Cr 267.716† | 37556.6 | 36863.0 | 0.2444 | mg/L | 0.2444 | mg/L | 18:40:05 |
| 1 | Cu 324.752† | 49914.4 | 50861.5 | 0.2456 | mg/L | 0.2456 | mg/L | 18:40:05 |
| 1 | Fe 238.204† | 9479401.9 | 9768753.5 | 89.98 | mg/L | 89.98 | mg/L | 18:39:52 |
| 1 | Mg 279.077† | 5228159.2 | 5387637.6 | 247.5 | mg/L | 247.5 | mg/L | 18:39:59 |
| 1 | Mn 257.610† | 211511.5 | 216155.3 | 0.2549 | mg/L | 0.2549 | mg/L | 18:40:05 |
| 1 | Mo 202.031† | -54.3 | 0.4 | 0.0005 | mg/L | 0.0005 | mg/L | 18:40:25 |
| 1 | Na 330.237† | 3132.9 | -500.3 | 0.2439 | mg/L | 0.2439 | mg/L | 18:40:05 |
| 1 | Ni 231.604† | 19069.6 | 19969.7 | 0.4534 | mg/L | 0.4534 | mg/L | 18:40:25 |
| 1 | Pb 220.353† | 2645.8 | 2642.3 | 0.4820 | mg/L | 0.4820 | mg/L | 18:40:25 |
| 1 | Sb 206.836† | 162.0 | 64.0 | 0.0283 | mg/L | 0.0283 | mg/L | 18:40:25 |
| 1 | Se 196.026† | -137.5 | -49.3 | 0.0105 | mg/L | 0.0105 | mg/L | 18:40:25 |
| 1 | Sn 189.927† | 0.1 | -0.5 | 0.0122 | mg/L | 0.0122 | mg/L | 18:40:25 |
| 1 | Ti 337.279† | 4969.0 | 3591.7 | 0.0066 | mg/L | 0.0066 | mg/L | 18:40:05 |
| 1 | Tl 190.801† | -16.7 | -1.7 | -0.0017 | mg/L | -0.0017 | mg/L | 18:40:25 |
| 1 | V 292.402† | 48251.4 | 47163.9 | 0.2404 | mg/L | 0.2404 | mg/L | 18:40:05 |
| 1 | Zn 213.857† | 23435.1 | 24278.8 | 0.5278 | mg/L | 0.5278 | mg/L | 18:40:05 |
| 2 | Y 360.073 | 2676967.3 | 2676967.3 | | | | | 18:40:45 |
| 2 | Ag 328.068† | 111889.7 | 112894.3 | 0.5423 | mg/L | 0.5423 | mg/L | 18:40:51 |
| 2 | Al 237.313† | 1731081.6 | 1785669.0 | 255.5 | mg/L | 255.5 | mg/L | 18:40:45 |
| 2 | As 188.979† | -7.5 | 0.6 | 0.0004 | mg/L | 0.0004 | mg/L | 18:41:11 |
| 2 | B 182.528† | 50.1 | 55.7 | -0.1236 | mg/L | -0.1236 | mg/L | 18:41:11 |
| 2 | Ba 233.527† | 36200.0 | 37439.7 | 0.2588 | mg/L | 0.2588 | mg/L | 18:40:51 |
| 2 | Be 313.107† | 1311715.8 | 1346553.3 | 0.2549 | mg/L | 0.2549 | mg/L | 18:40:45 |
| 2 | Ca 315.886† | 35933172.3 | 37061969.7 | 246.1 | mg/L | 246.1 | mg/L | 18:40:38 |
| 2 | Cd 228.802† | 25798.3 | 26577.8 | 0.5038 | mg/L | 0.5038 | mg/L | 18:40:51 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Co 228.616† | 13792.8 | 14628.2 | 0.2261 mg/L | 0.2261 mg/L | 18:41:11 |
| 2 | Cr 267.716† | 37555.1 | 36897.0 | 0.2447 mg/L | 0.2447 mg/L | 18:40:51 |
| 2 | Cu 324.752† | 50114.2 | 51114.8 | 0.2468 mg/L | 0.2468 mg/L | 18:40:51 |
| 2 | Fe 238.204† | 9452753.3 | 9750234.5 | 89.81 mg/L | 89.81 mg/L | 18:40:38 |
| 2 | Mg 279.077† | 5225872.2 | 5390224.9 | 247.6 mg/L | 247.6 mg/L | 18:40:45 |
| 2 | Mn 257.610† | 212036.2 | 216896.7 | 0.2558 mg/L | 0.2558 mg/L | 18:40:51 |
| 2 | Mo 202.031† | -41.6 | 13.4 | 0.0019 mg/L | 0.0019 mg/L | 18:41:11 |
| 2 | Na 330.237† | 3195.7 | -432.5 | 0.3067 mg/L | 0.3067 mg/L | 18:40:51 |
| 2 | Ni 231.604† | 19014.1 | 19930.5 | 0.4525 mg/L | 0.4525 mg/L | 18:41:11 |
| 2 | Pb 220.353† | 2647.8 | 2646.9 | 0.4828 mg/L | 0.4828 mg/L | 18:41:11 |
| 2 | Sb 206.836† | 157.6 | 59.7 | 0.0264 mg/L | 0.0264 mg/L | 18:41:11 |
| 2 | Se 196.026† | -126.3 | -37.9 | 0.0496 mg/L | 0.0496 mg/L | 18:41:11 |
| 2 | Sn 189.927† | 12.6 | 12.4 | 0.0187 mg/L | 0.0187 mg/L | 18:41:11 |
| 2 | Ti 337.279† | 5003.1 | 3631.7 | 0.0067 mg/L | 0.0067 mg/L | 18:40:51 |
| 2 | Tl 190.801† | -11.7 | 3.4 | 0.0084 mg/L | 0.0084 mg/L | 18:41:11 |
| 2 | V 292.402† | 48475.3 | 47440.5 | 0.2418 mg/L | 0.2418 mg/L | 18:40:51 |
| 2 | Zn 213.857† | 23565.1 | 24435.1 | 0.5312 mg/L | 0.5312 mg/L | 18:40:51 |

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**Mean Data: ICSAB**

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2678196.1 | | | | | | 1737.79 | 0.06% |
| Ag 328.068† | 112468.7 | 0.5403 | mg/L | 0.00289 | 0.5403 | mg/L | 0.00289 | 0.53% |
| QC value within limits for Ag 328.068 Recovery = 108.06% | | | | | | | | |
| Al 237.313† | 1784380.2 | 255.3 | mg/L | 0.26 | 255.3 | mg/L | 0.26 | 0.10% |
| QC value within limits for Al 237.313 Recovery = 102.14% | | | | | | | | |
| As 188.979† | 3.1 | 0.0058 | mg/L | 0.00766 | 0.0058 | mg/L | 0.00766 | 131.36% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 56.5 | -0.1218 | mg/L | 0.00246 | -0.1218 | mg/L | 0.00246 | 2.02% |
| QC value less than the lower limit for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 37316.9 | 0.2580 | mg/L | 0.00120 | 0.2580 | mg/L | 0.00120 | 0.47% |
| QC value within limits for Ba 233.527 Recovery = 103.19% | | | | | | | | |
| Be 313.107† | 1345899.2 | 0.2548 | mg/L | 0.00017 | 0.2548 | mg/L | 0.00017 | 0.07% |
| QC value within limits for Be 313.107 Recovery = 101.91% | | | | | | | | |
| Ca 315.886† | 37108693.6 | 246.4 | mg/L | 0.44 | 246.4 | mg/L | 0.44 | 0.18% |
| QC value within limits for Ca 315.886 Recovery = 98.55% | | | | | | | | |
| Cd 228.802† | 26529.2 | 0.5028 | mg/L | 0.00135 | 0.5028 | mg/L | 0.00135 | 0.27% |
| QC value within limits for Cd 228.802 Recovery = 100.56% | | | | | | | | |
| Co 228.616† | 14637.6 | 0.2262 | mg/L | 0.00021 | 0.2262 | mg/L | 0.00021 | 0.09% |
| QC value within limits for Co 228.616 Recovery = 90.49% | | | | | | | | |
| Cr 267.716† | 36880.0 | 0.2445 | mg/L | 0.00016 | 0.2445 | mg/L | 0.00016 | 0.06% |
| QC value within limits for Cr 267.716 Recovery = 97.82% | | | | | | | | |
| Cu 324.752† | 50988.2 | 0.2462 | mg/L | 0.00086 | 0.2462 | mg/L | 0.00086 | 0.35% |
| QC value within limits for Cu 324.752 Recovery = 98.49% | | | | | | | | |
| Fe 238.204† | 9759494.0 | 89.90 | mg/L | 0.121 | 89.90 | mg/L | 0.121 | 0.13% |
| QC value within limits for Fe 238.204 Recovery = 89.90% | | | | | | | | |
| Mg 279.077† | 5388931.3 | 247.5 | mg/L | 0.08 | 247.5 | mg/L | 0.08 | 0.03% |
| QC value within limits for Mg 279.077 Recovery = 99.01% | | | | | | | | |
| Mn 257.610† | 216526.0 | 0.2554 | mg/L | 0.00062 | 0.2554 | mg/L | 0.00062 | 0.24% |
| QC value within limits for Mn 257.610 Recovery = 102.14% | | | | | | | | |
| Mo 202.031† | 6.9 | 0.0012 | mg/L | 0.00103 | 0.0012 | mg/L | 0.00103 | 84.77% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | -466.4 | 0.2753 | mg/L | 0.04441 | 0.2753 | mg/L | 0.04441 | 16.13% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 19950.1 | 0.4530 | mg/L | 0.00063 | 0.4530 | mg/L | 0.00063 | 0.14% |
| QC value within limits for Ni 231.604 Recovery = 90.60% | | | | | | | | |
| Pb 220.353† | 2644.6 | 0.4824 | mg/L | 0.00059 | 0.4824 | mg/L | 0.00059 | 0.12% |
| QC value within limits for Pb 220.353 Recovery = 96.48% | | | | | | | | |
| Sb 206.836† | 61.8 | 0.0273 | mg/L | 0.00136 | 0.0273 | mg/L | 0.00136 | 4.98% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | -43.6 | 0.0301 | mg/L | 0.02764 | 0.0301 | mg/L | 0.02764 | 91.92% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | 6.0 | 0.0155 | mg/L | 0.00454 | 0.0155 | mg/L | 0.00454 | 29.40% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 337.279† | 3611.7 | 0.0066 | mg/L | 0.00005 | 0.0066 | mg/L | 0.00005 | 0.70% |
| QC value within limits for Ti 337.279 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 0.9 | 0.0034 | mg/L | 0.00709 | 0.0034 | mg/L | 0.00709 | 211.62% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 292.402† | 47302.2 | 0.2411 | mg/L | 0.00099 | 0.2411 | mg/L | 0.00099 | 0.41% |
| QC value within limits for V 292.402 Recovery = 96.43% | | | | | | | | |

Zn 213.857† 24357.0 0.5295 mg/L 0.00242 0.5295 mg/L 0.00242 0.46%
QC value within limits for Zn 213.857 Recovery = 105.91%
QC Failed. Continue with analysis.

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**Sequence No.:** 8
**Sample ID:** wash
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 0
**Date Collected:** 11/30/01 6:42:51 PM
**Sample Prep Volume:**
**Data Type:** Original

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**Replicate Data: wash**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2853745.8 | 2853745.8 | | | | | 18:44:19 |
| 1 | Ag 328.068† | 2661.5 | 58.4 | 0.0007 | mg/L | 0.0007 | mg/L | 18:44:24 |
| 1 | Al 237.313† | -15.7 | 93.0 | 0.0222 | mg/L | 0.0222 | mg/L | 18:44:44 |
| 1 | As 188.979† | -5.7 | 2.8 | 0.0051 | mg/L | 0.0051 | mg/L | 18:44:44 |
| 1 | B 182.528† | 1.3 | 5.2 | 0.0086 | mg/L | 0.0086 | mg/L | 18:44:44 |
| 1 | Ba 233.527† | -69.7 | 33.0 | -0.0003 | mg/L | -0.0003 | mg/L | 18:44:44 |
| 1 | Be 313.107† | 6821.1 | 156.2 | 0.0002 | mg/L | 0.0002 | mg/L | 18:44:24 |
| 1 | Ca 315.886† | 5419.0 | 3180.1 | 0.0196 | mg/L | 0.0196 | mg/L | 18:44:24 |
| 1 | Cd 228.802† | 33.9 | 0.3 | 0.0002 | mg/L | 0.0002 | mg/L | 18:44:44 |
| 1 | Co 228.616† | -405.6 | 8.8 | -0.0006 | mg/L | -0.0006 | mg/L | 18:44:44 |
| 1 | Cr 267.716† | 1969.4 | 65.6 | 0.0007 | mg/L | 0.0007 | mg/L | 18:44:24 |
| 1 | Cu 324.752† | 752.1 | 151.1 | 0.0022 | mg/L | 0.0022 | mg/L | 18:44:24 |
| 1 | Fe 238.204† | 2021.3 | 1947.3 | 0.0202 | mg/L | 0.0202 | mg/L | 18:44:24 |
| 1 | Mg 279.077† | 454.2 | 327.7 | 0.0109 | mg/L | 0.0109 | mg/L | 18:44:24 |
| 1 | Mn 257.610† | 3347.8 | 1426.7 | 0.0010 | mg/L | 0.0010 | mg/L | 18:44:24 |
| 1 | Mo 202.031† | -56.1 | 2.1 | 0.0007 | mg/L | 0.0007 | mg/L | 18:44:44 |
| 1 | Na 330.237† | 3886.3 | 31.5 | 0.5697 | mg/L | 0.5697 | mg/L | 18:44:24 |
| 1 | Ni 231.604† | -336.9 | -7.9 | -0.0002 | mg/L | -0.0002 | mg/L | 18:44:44 |
| 1 | Pb 220.353† | 76.7 | -10.0 | -0.0018 | mg/L | -0.0018 | mg/L | 18:44:44 |
| 1 | Sb 206.836† | 116.5 | 9.8 | 0.0061 | mg/L | 0.0061 | mg/L | 18:44:44 |
| 1 | Se 196.026† | -87.1 | 8.1 | 0.0242 | mg/L | 0.0242 | mg/L | 18:44:44 |
| 1 | Sn 189.927† | 2.0 | 1.3 | 0.0003 | mg/L | 0.0003 | mg/L | 18:44:44 |
| 1 | Ti 337.279† | 1692.8 | 109.0 | 0.0009 | mg/L | 0.0009 | mg/L | 18:44:24 |
| 1 | Tl 190.801† | -14.1 | 1.9 | 0.0063 | mg/L | 0.0063 | mg/L | 18:44:44 |
| 1 | V 292.402† | 2623.5 | -22.0 | 0.0014 | mg/L | 0.0014 | mg/L | 18:44:24 |
| 1 | Zn 213.857† | -82.4 | 48.6 | 0.0019 | mg/L | 0.0019 | mg/L | 18:44:44 |
| 2 | Y 360.073 | 2788295.0 | 2788295.0 | | | | | 18:44:50 |
| 2 | Ag 328.068† | 2689.9 | 147.0 | 0.0011 | mg/L | 0.0011 | mg/L | 18:44:56 |
| 2 | Al 237.313† | -7.7 | 100.5 | 0.0233 | mg/L | 0.0233 | mg/L | 18:45:16 |
| 2 | As 188.979† | -8.2 | 0.3 | -0.0002 | mg/L | -0.0002 | mg/L | 18:45:16 |
| 2 | B 182.528† | 0.1 | 4.0 | 0.0063 | mg/L | 0.0063 | mg/L | 18:45:16 |
| 2 | Ba 233.527† | -72.2 | 28.9 | -0.0004 | mg/L | -0.0004 | mg/L | 18:45:16 |
| 2 | Be 313.107† | 6684.1 | 175.5 | 0.0003 | mg/L | 0.0003 | mg/L | 18:44:56 |
| 2 | Ca 315.886† | 5172.7 | 3059.2 | 0.0188 | mg/L | 0.0188 | mg/L | 18:44:56 |
| 2 | Cd 228.802† | 32.7 | -0.0 | 0.0002 | mg/L | 0.0002 | mg/L | 18:45:16 |
| 2 | Co 228.616† | -425.1 | -19.7 | -0.0011 | mg/L | -0.0011 | mg/L | 18:45:16 |
| 2 | Cr 267.716† | 1964.2 | 105.2 | 0.0009 | mg/L | 0.0009 | mg/L | 18:44:56 |
| 2 | Cu 324.752† | 769.2 | 185.1 | 0.0024 | mg/L | 0.0024 | mg/L | 18:44:56 |
| 2 | Fe 238.204† | 1954.8 | 1927.3 | 0.0200 | mg/L | 0.0200 | mg/L | 18:44:56 |
| 2 | Mg 279.077† | 503.4 | 386.6 | 0.0137 | mg/L | 0.0137 | mg/L | 18:44:56 |
| 2 | Mn 257.610† | 3406.3 | 1560.6 | 0.0011 | mg/L | 0.0011 | mg/L | 18:44:56 |
| 2 | Mo 202.031† | -56.9 | 0.0 | 0.0005 | mg/L | 0.0005 | mg/L | 18:45:16 |
| 2 | Na 330.237† | 3916.4 | 149.6 | 0.6774 | mg/L | 0.6774 | mg/L | 18:44:56 |
| 2 | Ni 231.604† | -311.6 | 9.5 | 0.0002 | mg/L | 0.0002 | mg/L | 18:45:16 |
| 2 | Pb 220.353† | 87.7 | 2.6 | 0.0005 | mg/L | 0.0005 | mg/L | 18:45:16 |
| 2 | Sb 206.836† | 104.6 | 0.7 | 0.0021 | mg/L | 0.0021 | mg/L | 18:45:16 |
| 2 | Se 196.026† | -89.7 | 3.6 | 0.0089 | mg/L | 0.0089 | mg/L | 18:45:16 |
| 2 | Sn 189.927† | -3.0 | -3.6 | -0.0020 | mg/L | -0.0020 | mg/L | 18:45:16 |
| 2 | Ti 337.279† | 1692.7 | 147.4 | 0.0010 | mg/L | 0.0010 | mg/L | 18:44:56 |
| 2 | Tl 190.801† | -14.3 | 1.4 | 0.0053 | mg/L | 0.0053 | mg/L | 18:45:16 |
| 2 | V 292.402† | 2681.6 | 95.1 | 0.0020 | mg/L | 0.0020 | mg/L | 18:44:56 |
| 2 | Zn 213.857† | -73.2 | 55.9 | 0.0021 | mg/L | 0.0021 | mg/L | 18:45:16 |

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**Mean Data: wash**

| | Mean Corrected | Calib | Sample |
|---|---|---|---|

| Analyte | Intensity | Conc. | Units | Std.Dev. | Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2821020.4 | | | | | | 46280.72 | 1.64% |
| Ag 328.068† | 102.7 | 0.0009 | mg/L | 0.00030 | 0.0009 | mg/L | 0.00030 | 33.89% |
| Al 237.313† | 96.7 | 0.0228 | mg/L | 0.00077 | 0.0228 | mg/L | 0.00077 | 3.37% |
| As 188.979† | 1.5 | 0.0025 | mg/L | 0.00376 | 0.0025 | mg/L | 0.00376 | 151.86% |
| B 182.528† | 4.6 | 0.0075 | mg/L | 0.00167 | 0.0075 | mg/L | 0.00167 | 22.41% |
| Ba 233.527† | 31.0 | -0.0003 | mg/L | 0.00002 | -0.0003 | mg/L | 0.00002 | 5.86% |
| Be 313.107† | 165.8 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 1.04% |
| Ca 315.886† | 3119.7 | 0.0192 | mg/L | 0.00057 | 0.0192 | mg/L | 0.00057 | 2.95% |
| Cd 228.802† | 0.1 | 0.0002 | mg/L | 0.00002 | 0.0002 | mg/L | 0.00002 | 10.32% |
| Co 228.616† | -5.4 | -0.0009 | mg/L | 0.00031 | -0.0009 | mg/L | 0.00031 | 36.79% |
| Cr 267.716† | 85.4 | 0.0008 | mg/L | 0.00019 | 0.0008 | mg/L | 0.00019 | 23.37% |
| Cu 324.752† | 168.1 | 0.0023 | mg/L | 0.00012 | 0.0023 | mg/L | 0.00012 | 5.01% |
| Fe 238.204† | 1937.3 | 0.0201 | mg/L | 0.00013 | 0.0201 | mg/L | 0.00013 | 0.66% |
| Mg 279.077† | 357.2 | 0.0123 | mg/L | 0.00192 | 0.0123 | mg/L | 0.00192 | 15.59% |
| Mn 257.610† | 1493.6 | 0.0010 | mg/L | 0.00011 | 0.0010 | mg/L | 0.00011 | 10.76% |
| Mo 202.031† | 1.1 | 0.0006 | mg/L | 0.00016 | 0.0006 | mg/L | 0.00016 | 27.58% |
| Na 330.237† | 90.5 | 0.6235 | mg/L | 0.07614 | 0.6235 | mg/L | 0.07614 | 12.21% |
| Ni 231.604† | 0.8 | 0.0000 | mg/L | 0.00028 | 0.0000 | mg/L | 0.00028 | >999.9% |
| Pb 220.353† | -3.7 | -0.0007 | mg/L | 0.00163 | -0.0007 | mg/L | 0.00163 | 240.08% |
| Sb 206.836† | 5.2 | 0.0041 | mg/L | 0.00285 | 0.0041 | mg/L | 0.00285 | 69.60% |
| Se 196.026† | 5.9 | 0.0166 | mg/L | 0.01088 | 0.0166 | mg/L | 0.01088 | 65.73% |
| Sn 189.927† | -1.1 | -0.0009 | mg/L | 0.00163 | -0.0009 | mg/L | 0.00163 | 184.20% |
| Ti 337.279† | 128.2 | 0.0010 | mg/L | 0.00004 | 0.0010 | mg/L | 0.00004 | 4.60% |
| Tl 190.801† | 1.6 | 0.0058 | mg/L | 0.00069 | 0.0058 | mg/L | 0.00069 | 11.95% |
| V 292.402† | 36.6 | 0.0017 | mg/L | 0.00042 | 0.0017 | mg/L | 0.00042 | 24.17% |
| Zn 213.857† | 52.3 | 0.0020 | mg/L | 0.00011 | 0.0020 | mg/L | 0.00011 | 5.43% |

**Sequence No.: 9**
**Sample ID: wash**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 0**
**Date Collected: 11/30/01 6:46:47 PM**

**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: wash**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2831032.2 | 2831032.2 | | | | | 18:48:15 |
| 1 | Ag 328.068† | 2636.0 | 54.2 | 0.0007 | mg/L | 0.0007 | mg/L | 18:48:20 |
| 1 | Al 237.313† | 73.7 | 180.0 | 0.0347 | mg/L | 0.0347 | mg/L | 18:48:41 |
| 1 | As 188.979† | -8.5 | 0.0 | -0.0007 | mg/L | -0.0007 | mg/L | 18:48:41 |
| 1 | B 182.528† | -3.1 | 0.9 | 0.0002 | mg/L | 0.0002 | mg/L | 18:48:41 |
| 1 | Ba 233.527† | -55.7 | 46.1 | -0.0002 | mg/L | -0.0002 | mg/L | 18:48:41 |
| 1 | Be 313.107† | 6697.3 | 88.4 | 0.0002 | mg/L | 0.0002 | mg/L | 18:48:20 |
| 1 | Ca 315.886† | 6316.0 | 4097.0 | 0.0257 | mg/L | 0.0257 | mg/L | 18:48:20 |
| 1 | Cd 228.802† | 35.7 | 2.4 | 0.0002 | mg/L | 0.0002 | mg/L | 18:48:41 |
| 1 | Co 228.616† | -410.4 | 1.1 | -0.0008 | mg/L | -0.0008 | mg/L | 18:48:41 |
| 1 | Cr 267.716† | 1907.9 | 20.9 | 0.0004 | mg/L | 0.0004 | mg/L | 18:48:20 |
| 1 | Cu 324.752† | 685.2 | 91.7 | 0.0019 | mg/L | 0.0019 | mg/L | 18:48:20 |
| 1 | Fe 238.204† | 2072.3 | 2012.7 | 0.0208 | mg/L | 0.0208 | mg/L | 18:48:20 |
| 1 | Mg 279.077† | 612.1 | 485.2 | 0.0182 | mg/L | 0.0182 | mg/L | 18:48:20 |
| 1 | Mn 257.610† | 3283.9 | 1390.3 | 0.0009 | mg/L | 0.0009 | mg/L | 18:48:20 |
| 1 | Mo 202.031† | -63.0 | -5.1 | -0.0001 | mg/L | -0.0001 | mg/L | 18:48:41 |
| 1 | Na 330.237† | 4035.4 | 207.1 | 0.7297 | mg/L | 0.7297 | mg/L | 18:48:20 |
| 1 | Ni 231.604† | -339.1 | -12.7 | -0.0003 | mg/L | -0.0003 | mg/L | 18:48:41 |
| 1 | Pb 220.353† | 82.0 | -4.3 | -0.0008 | mg/L | -0.0008 | mg/L | 18:48:41 |
| 1 | Sb 206.836† | 105.3 | -0.3 | 0.0017 | mg/L | 0.0017 | mg/L | 18:48:41 |
| 1 | Se 196.026† | -90.4 | 4.2 | 0.0110 | mg/L | 0.0110 | mg/L | 18:48:41 |
| 1 | Sn 189.927† | -4.5 | -4.9 | -0.0027 | mg/L | -0.0027 | mg/L | 18:48:41 |
| 1 | Ti 337.279† | 1717.0 | 145.8 | 0.0010 | mg/L | 0.0010 | mg/L | 18:48:20 |
| 1 | Tl 190.801† | -12.8 | 3.0 | 0.0086 | mg/L | 0.0086 | mg/L | 18:48:41 |
| 1 | V 292.402† | 2620.4 | -4.7 | 0.0015 | mg/L | 0.0015 | mg/L | 18:48:20 |
| 1 | Zn 213.857† | -79.3 | 51.0 | 0.0020 | mg/L | 0.0020 | mg/L | 18:48:41 |
| 2 | Y 360.073 | 2837608.8 | 2837608.8 | | | | | 18:48:46 |
| 2 | Ag 328.068† | 2693.0 | 103.7 | 0.0009 | mg/L | 0.0009 | mg/L | 18:48:52 |
| 2 | Al 237.313† | 75.2 | 181.3 | 0.0349 | mg/L | 0.0349 | mg/L | 18:49:12 |
| 2 | As 188.979† | -10.8 | -2.2 | -0.0053 | mg/L | -0.0053 | mg/L | 18:49:12 |
| 2 | B 182.528† | -2.2 | 1.8 | 0.0019 | mg/L | 0.0019 | mg/L | 18:49:12 |
| 2 | Ba 233.527† | -69.7 | 32.7 | -0.0003 | mg/L | -0.0003 | mg/L | 18:49:12 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Be 313.107† | 6744.4 | 119.1 | 0.0002 mg/L | 0.0002 mg/L | 18:48:52 |
| 2 | Ca 315.886† | 6465.6 | 4228.3 | 0.0266 mg/L | 0.0266 mg/L | 18:48:52 |
| 2 | Cd 228.802† | 35.9 | 2.5 | 0.0003 mg/L | 0.0003 mg/L | 18:49:12 |
| 2 | Co 228.616† | -412.6 | -0.2 | -0.0008 mg/L | -0.0008 mg/L | 18:49:12 |
| 2 | Cr 267.716† | 1899.6 | 8.5 | 0.0003 mg/L | 0.0003 mg/L | 18:48:52 |
| 2 | Cu 324.752† | 666.7 | 72.1 | 0.0018 mg/L | 0.0018 mg/L | 18:48:52 |
| 2 | Fe 238.204† | 2123.1 | 2057.5 | 0.0212 mg/L | 0.0212 mg/L | 18:48:52 |
| 2 | Mg 279.077† | 675.0 | 545.0 | 0.0209 mg/L | 0.0209 mg/L | 18:48:52 |
| 2 | Mn 257.610† | 3340.1 | 1437.6 | 0.0010 mg/L | 0.0010 mg/L | 18:48:52 |
| 2 | Mo 202.031† | -60.0 | -2.1 | 0.0002 mg/L | 0.0002 mg/L | 18:49:12 |
| 2 | Na 330.237† | 3945.1 | 110.1 | 0.6414 mg/L | 0.6414 mg/L | 18:48:52 |
| 2 | Ni 231.604† | -329.6 | -2.7 | -0.0001 mg/L | -0.0001 mg/L | 18:49:12 |
| 2 | Pb 220.353† | 83.5 | -3.0 | -0.0005 mg/L | -0.0005 mg/L | 18:49:12 |
| 2 | Sb 206.836† | 115.0 | 9.0 | 0.0058 mg/L | 0.0058 mg/L | 18:49:12 |
| 2 | Se 196.026† | -92.5 | 2.4 | 0.0048 mg/L | 0.0048 mg/L | 18:49:12 |
| 2 | Sn 189.927† | -3.8 | -4.2 | -0.0023 mg/L | -0.0023 mg/L | 18:49:12 |
| 2 | Ti 337.279† | 1631.3 | 58.5 | 0.0009 mg/L | 0.0009 mg/L | 18:48:52 |
| 2 | Tl 190.801† | -15.2 | 0.7 | 0.0040 mg/L | 0.0040 mg/L | 18:49:12 |
| 2 | V 292.402† | 2627.4 | -3.7 | 0.0015 mg/L | 0.0015 mg/L | 18:48:52 |
| 2 | Zn 213.857† | -74.8 | 55.6 | 0.0021 mg/L | 0.0021 mg/L | 18:49:12 |

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**Mean Data: wash**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2834320.5 | | | | | | 4650.36 | 0.16% |
| Ag 328.068† | 78.9 | 0.0008 | mg/L | 0.00017 | 0.0008 | mg/L | 0.00017 | 21.71% |
| Al 237.313† | 180.7 | 0.0348 | mg/L | 0.00013 | 0.0348 | mg/L | 0.00013 | 0.38% |
| As 188.979† | -1.1 | -0.0030 | mg/L | 0.00324 | -0.0030 | mg/L | 0.00324 | 108.89% |
| B 182.528† | 1.3 | 0.0011 | mg/L | 0.00120 | 0.0011 | mg/L | 0.00120 | 113.22% |
| Ba 233.527† | 39.4 | -0.0003 | mg/L | 0.00007 | -0.0003 | mg/L | 0.00007 | 22.68% |
| Be 313.107† | 103.8 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 1.73% |
| Ca 315.886† | 4162.7 | 0.0261 | mg/L | 0.00062 | 0.0261 | mg/L | 0.00062 | 2.36% |
| Cd 228.802† | 2.4 | 0.0003 | mg/L | 0.00002 | 0.0003 | mg/L | 0.00002 | 8.78% |
| Co 228.616† | 0.5 | -0.0008 | mg/L | 0.00001 | -0.0008 | mg/L | 0.00001 | 1.77% |
| Cr 267.716† | 14.7 | 0.0003 | mg/L | 0.00006 | 0.0003 | mg/L | 0.00006 | 17.87% |
| Cu 324.752† | 81.9 | 0.0019 | mg/L | 0.00007 | 0.0019 | mg/L | 0.00007 | 3.51% |
| Fe 238.204† | 2035.1 | 0.0210 | mg/L | 0.00029 | 0.0210 | mg/L | 0.00029 | 1.39% |
| Mg 279.077† | 515.1 | 0.0196 | mg/L | 0.00194 | 0.0196 | mg/L | 0.00194 | 9.95% |
| Mn 257.610† | 1413.9 | 0.0009 | mg/L | 0.00004 | 0.0009 | mg/L | 0.00004 | 4.15% |
| Mo 202.031† | -3.6 | 0.0001 | mg/L | 0.00024 | 0.0001 | mg/L | 0.00024 | 300.03% |
| Na 330.237† | 158.6 | 0.6855 | mg/L | 0.06241 | 0.6855 | mg/L | 0.06241 | 9.10% |
| Ni 231.604† | -7.7 | -0.0002 | mg/L | 0.00016 | -0.0002 | mg/L | 0.00016 | 78.87% |
| Pb 220.353† | -3.6 | -0.0007 | mg/L | 0.00017 | -0.0007 | mg/L | 0.00017 | 24.90% |
| Sb 206.836† | 4.4 | 0.0037 | mg/L | 0.00291 | 0.0037 | mg/L | 0.00291 | 78.24% |
| Se 196.026† | 3.3 | 0.0079 | mg/L | 0.00440 | 0.0079 | mg/L | 0.00440 | 55.37% |
| Sn 189.927† | -4.6 | -0.0025 | mg/L | 0.00023 | -0.0025 | mg/L | 0.00023 | 9.24% |
| Ti 337.279† | 102.1 | 0.0009 | mg/L | 0.00010 | 0.0009 | mg/L | 0.00010 | 11.01% |
| Tl 190.801† | 1.9 | 0.0063 | mg/L | 0.00325 | 0.0063 | mg/L | 0.00325 | 51.57% |
| V 292.402† | -4.2 | 0.0015 | mg/L | 0.00000 | 0.0015 | mg/L | 0.00000 | 0.22% |
| Zn 213.857† | 53.3 | 0.0020 | mg/L | 0.00007 | 0.0020 | mg/L | 0.00007 | 3.39% |

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**S quenc No.: 10**
**Sample ID: ICV**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 5**
**Date Collected: 11/30/01 6:50:43 PM**
**Sample Prep Volume:**
**Data Type: Original**

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**Replicat Data: ICV**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2778394.6 | 2778394.6 | | | | | 18:52:19 |
| 1 | Ag 328.068† | 55563.2 | 52702.8 | 0.2535 | mg/L | 0.2535 | mg/L | 18:52:25 |
| 1 | Al 237.313† | 3351.9 | 3439.3 | 0.5050 | mg/L | 0.5050 | mg/L | 18:52:45 |
| 1 | As 188.979† | 235.6 | 242.5 | 0.5093 | mg/L | 0.5093 | mg/L | 18:52:45 |
| 1 | B 182.528† | 263.6 | 265.9 | 0.5146 | mg/L | 0.5146 | mg/L | 18:52:45 |
| 1 | Ba 233.527† | 73606.4 | 73251.8 | 0.5069 | mg/L | 0.5069 | mg/L | 18:52:25 |
| 1 | Be 313.107† | 274043.9 | 265905.6 | 0.0505 | mg/L | 0.0505 | mg/L | 18:52:19 |
| 1 | Ca 315.886† | 759252.8 | 752494.8 | 4.997 | mg/L | 4.997 | mg/L | 18:52:19 |

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|---|---|---|---|---|---|---|
| 1 | Cd 228.802† | 13595.5 | 13479.0 | 0.2539 mg/L | 0.2539 mg/L | 18:52:25 |
| 1 | Co 228.616† | 32700.4 | 32899.5 | 0.5096 mg/L | 0.5096 mg/L | 18:52:25 |
| 1 | Cr 267.716† | 79745.8 | 77412.8 | 0.5131 mg/L | 0.5131 mg/L | 18:52:25 |
| 1 | Cu 324.752† | 106674.4 | 105438.3 | 0.5073 mg/L | 0.5073 mg/L | 18:52:25 |
| 1 | Fe 238.204† | 57003.7 | 56642.7 | 0.5210 mg/L | 0.5210 mg/L | 18:52:25 |
| 1 | Mg 279.077† | 113200.4 | 112388.6 | 5.164 mg/L | 5.164 mg/L | 18:52:25 |
| 1 | Mn 257.610† | 434555.7 | 430056.1 | 0.5077 mg/L | 0.5077 mg/L | 18:52:19 |
| 1 | Mo 202.031† | 4550.3 | 4578.5 | 0.5090 mg/L | 0.5090 mg/L | 18:52:45 |
| 1 | Na 330.237† | 30368.5 | 26452.0 | 24.81 mg/L | 24.81 mg/L | 18:52:25 |
| 1 | Ni 231.604† | 22266.0 | 22446.4 | 0.5094 mg/L | 0.5094 mg/L | 18:52:25 |
| 1 | Pb 220.353† | 2909.9 | 2807.6 | 0.5129 mg/L | 0.5129 mg/L | 18:52:45 |
| 1 | Sb 206.836† | 1249.8 | 1139.1 | 0.5035 mg/L | 0.5035 mg/L | 18:52:45 |
| 1 | Se 196.026† | 210.3 | 301.4 | 1.026 mg/L | 1.026 mg/L | 18:52:45 |
| 1 | Sn 189.927† | 1091.5 | 1084.1 | 0.5085 mg/L | 0.5085 mg/L | 18:52:45 |
| 1 | Ti 337.279† | 307178.3 | 303750.0 | 0.5033 mg/L | 0.5033 mg/L | 18:52:19 |
| 1 | Tl 190.801† | 239.4 | 253.4 | 0.5100 mg/L | 0.5100 mg/L | 18:52:45 |
| 1 | V 292.402† | 103525.7 | 100325.1 | 0.5098 mg/L | 0.5098 mg/L | 18:52:25 |
| 1 | Zn 213.857† | 23529.2 | 23512.1 | 0.5106 mg/L | 0.5106 mg/L | 18:52:25 |
| 2 | Y 360.073 | 2835261.6 | 2835261.6 | | | 18:52:52 |
| 2 | Ag 328.068† | 55051.9 | 51097.3 | 0.2458 mg/L | 0.2458 mg/L | 18:52:57 |
| 2 | Al 237.313† | 3333.6 | 3354.6 | 0.4928 mg/L | 0.4928 mg/L | 18:53:17 |
| 2 | As 188.979† | 229.3 | 231.6 | 0.4864 mg/L | 0.4864 mg/L | 18:53:17 |
| 2 | B 182.528† | 261.8 | 258.9 | 0.5011 mg/L | 0.5011 mg/L | 18:53:17 |
| 2 | Ba 233.527† | 72563.5 | 70768.8 | 0.4897 mg/L | 0.4897 mg/L | 18:52:57 |
| 2 | Be 313.107† | 278126.6 | 264419.1 | 0.0503 mg/L | 0.0503 mg/L | 18:52:52 |
| 2 | Ca 315.886† | 771716.3 | 749498.7 | 4.977 mg/L | 4.977 mg/L | 18:52:52 |
| 2 | Cd 228.802† | 13451.5 | 13067.8 | 0.2462 mg/L | 0.2462 mg/L | 18:52:57 |
| 2 | Co 228.616† | 32270.2 | 31828.8 | 0.4930 mg/L | 0.4930 mg/L | 18:52:57 |
| 2 | Cr 267.716† | 78637.0 | 74743.3 | 0.4954 mg/L | 0.4954 mg/L | 18:52:57 |
| 2 | Cu 324.752† | 104851.2 | 101536.3 | 0.4886 mg/L | 0.4886 mg/L | 18:52:57 |
| 2 | Fe 238.204† | 56359.6 | 54879.2 | 0.5048 mg/L | 0.5048 mg/L | 18:52:57 |
| 2 | Mg 279.077† | 111867.7 | 108834.3 | 5.000 mg/L | 5.000 mg/L | 18:52:57 |
| 2 | Mn 257.610† | 441785.5 | 428435.1 | 0.5057 mg/L | 0.5057 mg/L | 18:52:52 |
| 2 | Mo 202.031† | 4529.9 | 4468.0 | 0.4967 mg/L | 0.4967 mg/L | 18:53:17 |
| 2 | Na 330.237† | 29970.1 | 25458.6 | 23.90 mg/L | 23.90 mg/L | 18:52:57 |
| 2 | Ni 231.604† | 21947.1 | 21692.0 | 0.4923 mg/L | 0.4923 mg/L | 18:52:57 |
| 2 | Pb 220.353† | 2905.3 | 2745.1 | 0.5014 mg/L | 0.5014 mg/L | 18:53:17 |
| 2 | Sb 206.836† | 1250.1 | 1114.5 | 0.4927 mg/L | 0.4927 mg/L | 18:53:17 |
| 2 | Se 196.026† | 206.6 | 293.6 | 0.9990 mg/L | 0.9990 mg/L | 18:53:17 |
| 2 | Sn 189.927† | 1098.0 | 1068.7 | 0.5012 mg/L | 0.5012 mg/L | 18:53:17 |
| 2 | Ti 337.279† | 312849.2 | 303149.8 | 0.5023 mg/L | 0.5023 mg/L | 18:52:52 |
| 2 | Tl 190.801† | 246.1 | 255.2 | 0.5135 mg/L | 0.5135 mg/L | 18:53:17 |
| 2 | V 292.402† | 102216.3 | 96986.4 | 0.4929 mg/L | 0.4929 mg/L | 18:52:57 |
| 2 | Zn 213.857† | 23244.5 | 22765.8 | 0.4945 mg/L | 0.4945 mg/L | 18:52:57 |

**Mean Data: ICV**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2806828.1 | | | | | | 40211.04 | 1.43% |
| Ag 328.068† | 51900.1 | 0.2497 | mg/L | 0.00545 | 0.2497 | mg/L | 0.00545 | 2.18% |
| QC value within limits for Ag 328.068 Recovery = 99.87% | | | | | | | | |
| Al 237.313† | 3397.0 | 0.4989 | mg/L | 0.00865 | 0.4989 | mg/L | 0.00865 | 1.73% |
| QC value within limits for Al 237.313 Recovery = 99.78% | | | | | | | | |
| As 188.979† | 237.1 | 0.4978 | mg/L | 0.01619 | 0.4978 | mg/L | 0.01619 | 3.25% |
| QC value within limits for As 188.979 Recovery = 99.57% | | | | | | | | |
| B 182.528† | 262.4 | 0.5078 | mg/L | 0.00955 | 0.5078 | mg/L | 0.00955 | 1.88% |
| QC value within limits for B 182.528 Recovery = 101.57% | | | | | | | | |
| Ba 233.527† | 72010.3 | 0.4983 | mg/L | 0.01216 | 0.4983 | mg/L | 0.01216 | 2.44% |
| QC value within limits for Ba 233.527 Recovery = 99.66% | | | | | | | | |
| Be 313.107† | 265162.4 | 0.0504 | mg/L | 0.00020 | 0.0504 | mg/L | 0.00020 | 0.40% |
| QC value within limits for Be 313.107 Recovery = 100.80% | | | | | | | | |
| Ca 315.886† | 750996.8 | 4.987 | mg/L | 0.0141 | 4.987 | mg/L | 0.0141 | 0.28% |
| QC value within limits for Ca 315.886 Recovery = 99.75% | | | | | | | | |
| Cd 228.802† | 13273.4 | 0.2500 | mg/L | 0.00544 | 0.2500 | mg/L | 0.00544 | 2.18% |
| QC value within limits for Cd 228.802 Recovery = 100.00% | | | | | | | | |
| Co 228.616† | 32364.1 | 0.5013 | mg/L | 0.01174 | 0.5013 | mg/L | 0.01174 | 2.34% |
| QC value within limits for Co 228.616 Recovery = 100.25% | | | | | | | | |
| Cr 267.716† | 76078.0 | 0.5042 | mg/L | 0.01250 | 0.5042 | mg/L | 0.01250 | 2.48% |
| QC value within limits for Cr 267.716 Recovery = 100.85% | | | | | | | | |
| Cu 324.752† | 103487.3 | 0.4979 | mg/L | 0.01324 | 0.4979 | mg/L | 0.01324 | 2.66% |

QC value within limits for Cu 324.752 Recovery = 99.59%

| | | | | | | |
|---|---|---|---|---|---|---|
| Fe 238.204† | 55761.0 | 0.5129 mg/L | 0.01142 | 0.5129 mg/L | 0.01142 | 2.23% |
| QC value within limits for Fe 238.204 Recovery = 102.58% | | | | | | |
| Mg 279.077† | 110611.4 | 5.082 mg/L | 0.1156 | 5.082 mg/L | 0.1156 | 2.27% |
| QC value within limits for Mg 279.077 Recovery = 101.64% | | | | | | |
| Mn 257.610† | 429245.6 | 0.5067 mg/L | 0.00135 | 0.5067 mg/L | 0.00135 | 0.27% |
| QC value within limits for Mn 257.610 Recovery = 101.34% | | | | | | |
| Mo 202.031† | 4523.2 | 0.5028 mg/L | 0.00868 | 0.5028 mg/L | 0.00868 | 1.73% |
| QC value within limits for Mo 202.031 Recovery = 100.57% | | | | | | |
| Na 330.237† | 25955.3 | 24.36 mg/L | 0.644 | 24.36 mg/L | 0.644 | 2.64% |
| QC value within limits for Na 330.237 Recovery = 97.44% | | | | | | |
| Ni 231.604† | 22069.2 | 0.5008 mg/L | 0.01211 | 0.5008 mg/L | 0.01211 | 2.42% |
| QC value within limits for Ni 231.604 Recovery = 100.16% | | | | | | |
| Pb 220.353† | 2776.4 | 0.5072 mg/L | 0.00807 | 0.5072 mg/L | 0.00807 | 1.59% |
| QC value within limits for Pb 220.353 Recovery = 101.43% | | | | | | |
| Sb 206.836† | 1126.8 | 0.4981 mg/L | 0.00762 | 0.4981 mg/L | 0.00762 | 1.53% |
| QC value within limits for Sb 206.836 Recovery = 99.63% | | | | | | |
| Se 196.026† | 297.5 | 1.012 mg/L | 0.0188 | 1.012 mg/L | 0.0188 | 1.86% |
| QC value within limits for Se 196.026 Recovery = 101.23% | | | | | | |
| Sn 189.927† | 1076.4 | 0.5048 mg/L | 0.00516 | 0.5048 mg/L | 0.00516 | 1.02% |
| QC value within limits for Sn 189.927 Recovery = 100.96% | | | | | | |
| Ti 337.279† | 303449.9 | 0.5028 mg/L | 0.00070 | 0.5028 mg/L | 0.00070 | 0.14% |
| QC value within limits for Ti 337.279 Recovery = 100.56% | | | | | | |
| Tl 190.801† | 254.3 | 0.5118 mg/L | 0.00246 | 0.5118 mg/L | 0.00246 | 0.48% |
| QC value within limits for Tl 190.801 Recovery = 102.35% | | | | | | |
| V 292.402† | 98655.8 | 0.5014 mg/L | 0.01196 | 0.5014 mg/L | 0.01196 | 2.39% |
| QC value within limits for V 292.402 Recovery = 100.28% | | | | | | |
| Zn 213.857† | 23138.9 | 0.5026 mg/L | 0.01144 | 0.5026 mg/L | 0.01144 | 2.28% |
| QC value within limits for Zn 213.857 Recovery = 100.51% | | | | | | |

All analytes passed QC.

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**Sequence No.: 11** **Autosampler Location: 1**
**Sample ID: ICCB** **Date Collected: 11/30/01 6:54:57 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: ICCB**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2822866.5 | 2822866.5 | | | | | 18:56:30 |
| 1 | Ag 328.068† | 2624.8 | 50.7 | 0.0006 | mg/L | 0.0006 | mg/L | 18:56:35 |
| 1 | Al 237.313† | -94.3 | 15.9 | 0.0113 | mg/L | 0.0113 | mg/L | 18:56:55 |
| 1 | As 188.979† | -7.7 | 0.7 | 0.0009 | mg/L | 0.0009 | mg/L | 18:56:55 |
| 1 | B 182.528† | 3.4 | 7.3 | 0.0127 | mg/L | 0.0127 | mg/L | 18:56:55 |
| 1 | Ba 233.527† | -107.6 | -4.8 | -0.0006 | mg/L | -0.0006 | mg/L | 18:56:55 |
| 1 | Be 313.107† | 6596.0 | 8.2 | 0.0002 | mg/L | 0.0002 | mg/L | 18:56:35 |
| 1 | Ca 315.886† | 2423.8 | 307.7 | 0.0005 | mg/L | 0.0005 | mg/L | 18:56:35 |
| 1 | Cd 228.802† | 30.3 | -2.8 | 0.0001 | mg/L | 0.0001 | mg/L | 18:56:55 |
| 1 | Co 228.616† | -412.7 | -2.3 | -0.0008 | mg/L | -0.0008 | mg/L | 18:56:55 |
| 1 | Cr 267.716† | 1900.2 | 18.7 | 0.0004 | mg/L | 0.0004 | mg/L | 18:56:35 |
| 1 | Cu 324.752† | 715.4 | 123.2 | 0.0021 | mg/L | 0.0021 | mg/L | 18:56:35 |
| 1 | Fe 238.204† | 280.3 | 265.7 | 0.0047 | mg/L | 0.0047 | mg/L | 18:56:35 |
| 1 | Mg 279.077† | 163.4 | 48.0 | -0.0019 | mg/L | -0.0019 | mg/L | 18:56:35 |
| 1 | Mn 257.610† | 2009.5 | 153.0 | -0.0005 | mg/L | -0.0005 | mg/L | 18:56:35 |
| 1 | Mo 202.031† | -46.3 | 11.1 | 0.0017 | mg/L | 0.0017 | mg/L | 18:56:55 |
| 1 | Na 330.237† | 3870.3 | 57.0 | 0.5927 | mg/L | 0.5927 | mg/L | 18:56:35 |
| 1 | Ni 231.604† | -331.1 | -5.9 | -0.0002 | mg/L | -0.0002 | mg/L | 18:56:55 |
| 1 | Pb 220.353† | 74.3 | -11.6 | -0.0021 | mg/L | -0.0021 | mg/L | 18:56:55 |
| 1 | Sb 206.836† | 109.0 | 3.7 | 0.0034 | mg/L | 0.0034 | mg/L | 18:56:55 |
| 1 | Se 196.026† | -87.2 | 7.1 | 0.0210 | mg/L | 0.0210 | mg/L | 18:56:55 |
| 1 | Sn 189.927† | -5.5 | -5.9 | -0.0032 | mg/L | -0.0032 | mg/L | 18:56:55 |
| 1 | Ti 337.279† | 1581.0 | 17.6 | 0.0008 | mg/L | 0.0008 | mg/L | 18:56:35 |
| 1 | Tl 190.801† | -11.2 | 4.6 | 0.0116 | mg/L | 0.0116 | mg/L | 18:56:55 |
| 1 | V 292.402† | 2589.4 | -27.6 | 0.0014 | mg/L | 0.0014 | mg/L | 18:56:35 |
| 1 | Zn 213.857† | -130.9 | 0.3 | 0.0009 | mg/L | 0.0009 | mg/L | 18:56:55 |
| 2 | Y 360.073 | 2808447.7 | 2808447.7 | | | | | 18:57:01 |
| 2 | Ag 328.068† | 2673.3 | 111.6 | 0.0009 | mg/L | 0.0009 | mg/L | 18:57:06 |
| 2 | Al 237.313† | -110.4 | -0.4 | 0.0089 | mg/L | 0.0089 | mg/L | 18:57:26 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | As 188.979† | -4.0 | 4.4 | 0.0085 mg/L | 0.0085 mg/L | 18:57:26 |
| 2 | B 182.528† | 2.8 | 6.7 | 0.0116 mg/L | 0.0116 mg/L | 18:57:26 |
| 2 | Ba 233.527† | -86.6 | 15.3 | -0.0005 mg/L | -0.0005 mg/L | 18:57:26 |
| 2 | Be 313.107† | 6613.5 | 58.5 | 0.0002 mg/L | 0.0002 mg/L | 18:57:06 |
| 2 | Ca 315.886† | 2447.0 | 342.6 | 0.0008 mg/L | 0.0008 mg/L | 18:57:06 |
| 2 | Cd 228.802† | 29.0 | -3.9 | 0.0001 mg/L | 0.0001 mg/L | 18:57:26 |
| 2 | Co 228.616† | -421.1 | -12.7 | -0.0010 mg/L | -0.0010 mg/L | 18:57:26 |
| 2 | Cr 267.716† | 1880.7 | 9.1 | 0.0003 mg/L | 0.0003 mg/L | 18:57:06 |
| 2 | Cu 324.752† | 687.9 | 99.8 | 0.0020 mg/L | 0.0020 mg/L | 18:57:06 |
| 2 | Fe 238.204† | 258.8 | 246.0 | 0.0045 mg/L | 0.0045 mg/L | 18:57:06 |
| 2 | Mg 279.077† | 147.3 | 33.0 | -0.0026 mg/L | -0.0026 mg/L | 18:57:06 |
| 2 | Mn 257.610† | 2089.7 | 242.0 | -0.0004 mg/L | -0.0004 mg/L | 18:57:06 |
| 2 | Mo 202.031† | -62.0 | -4.6 | 0.0000 mg/L | 0.0000 mg/L | 18:57:26 |
| 2 | Na 330.237† | 3827.7 | 34.5 | 0.5720 mg/L | 0.5720 mg/L | 18:57:06 |
| 2 | Ni 231.604† | -334.3 | -10.7 | -0.0003 mg/L | -0.0003 mg/L | 18:57:26 |
| 2 | Pb 220.353† | 81.9 | -3.8 | -0.0007 mg/L | -0.0007 mg/L | 18:57:26 |
| 2 | Sb 206.836† | 100.6 | -4.1 | 0.0000 mg/L | 0.0000 mg/L | 18:57:26 |
| 2 | Se 196.026† | -91.5 | 2.4 | 0.0048 mg/L | 0.0048 mg/L | 18:57:26 |
| 2 | Sn 189.927† | 4.4 | 3.8 | 0.0014 mg/L | 0.0014 mg/L | 18:57:26 |
| 2 | Ti 337.279† | 1599.4 | 43.6 | 0.0008 mg/L | 0.0008 mg/L | 18:57:06 |
| 2 | Tl 190.801† | -15.5 | 0.2 | 0.0031 mg/L | 0.0031 mg/L | 18:57:26 |
| 2 | V 292.402† | 2578.4 | -25.4 | 0.0014 mg/L | 0.0014 mg/L | 18:57:06 |
| 2 | Zn 213.857† | -142.6 | -11.9 | 0.0006 mg/L | 0.0006 mg/L | 18:57:26 |

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**Mean Data: ICCB**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2815657.1 | | | | | | 10195.68 | 0.36% |
| Ag 328.068† | 81.1 | 0.0008 | mg/L | 0.00021 | 0.0008 | mg/L | 0.00021 | 26.33% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 7.7 | 0.0101 | mg/L | 0.00166 | 0.0101 | mg/L | 0.00166 | 16.41% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 2.6 | 0.0047 | mg/L | 0.00543 | 0.0047 | mg/L | 0.00543 | 115.66% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 7.0 | 0.0121 | mg/L | 0.00082 | 0.0121 | mg/L | 0.00082 | 6.80% |
| QC value within limits for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 5.3 | -0.0005 | mg/L | 0.00010 | -0.0005 | mg/L | 0.00010 | 18.69% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | 33.4 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 3.01% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.886† | 325.2 | 0.0007 | mg/L | 0.00017 | 0.0007 | mg/L | 0.00017 | 24.81% |
| QC value within limits for Ca 315.886 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -3.3 | 0.0001 | mg/L | 0.00005 | 0.0001 | mg/L | 0.00005 | 52.77% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | -7.5 | -0.0009 | mg/L | 0.00011 | -0.0009 | mg/L | 0.00011 | 12.90% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 13.9 | 0.0003 | mg/L | 0.00005 | 0.0003 | mg/L | 0.00005 | 14.13% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 324.752† | 111.5 | 0.0020 | mg/L | 0.00008 | 0.0020 | mg/L | 0.00008 | 3.88% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | | | |
| Fe 238.204† | 255.8 | 0.0046 | mg/L | 0.00013 | 0.0046 | mg/L | 0.00013 | 2.81% |
| QC value within limits for Fe 238.204 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 40.5 | -0.0022 | mg/L | 0.00049 | -0.0022 | mg/L | 0.00049 | 21.71% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 197.5 | -0.0005 | mg/L | 0.00008 | -0.0005 | mg/L | 0.00008 | 15.32% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 3.2 | 0.0008 | mg/L | 0.00123 | 0.0008 | mg/L | 0.00123 | 147.72% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 45.7 | 0.5823 | mg/L | 0.01458 | 0.5823 | mg/L | 0.01458 | 2.50% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -8.3 | -0.0002 | mg/L | 0.00008 | -0.0002 | mg/L | 0.00008 | 35.65% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -7.7 | -0.0014 | mg/L | 0.00101 | -0.0014 | mg/L | 0.00101 | 72.04% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -0.2 | 0.0017 | mg/L | 0.00243 | 0.0017 | mg/L | 0.00243 | 143.62% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 4.8 | 0.0129 | mg/L | 0.01141 | 0.0129 | mg/L | 0.01141 | 88.54% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.1 | -0.0009 | mg/L | 0.00322 | -0.0009 | mg/L | 0.00322 | 368.01% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Ti 337.279† | 30.6 | 0.0008 mg/L | 0.00003 | 0.0008 mg/L | 0.00003 | 3.72% |
| QC value within limits for Ti 337.279 Recovery = Not calculated | | | | | | |
| Tl 190.801† | 2.4 | 0.0073 mg/L | 0.00597 | 0.0073 mg/L | 0.00597 | 81.31% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | |
| V 292.402† | -26.5 | 0.0014 mg/L | 0.00001 | 0.0014 mg/L | 0.00001 | 0.60% |
| QC value within limits for V 292.402 Recovery = Not calculated | | | | | | |
| Zn 213.857† | -5.8 | 0.0008 mg/L | 0.00019 | 0.0008 mg/L | 0.00019 | 24.80% |
| QC value within limits for Zn 213.857 Recovery = Not calculated | | | | | | |

All analytes passed QC.

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**Sequence No.: 12** **Autosampler Location: 6**
**Sample ID: CRI1** **Date Collected: 11/30/01 6:59:04 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: CRI1**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2807655.1 | 2807655.1 | | | | | 19:00:39 |
| 1 | Ag 328.068† | 7939.9 | 5291.7 | 0.0258 | mg/L | 0.0258 | mg/L | 19:00:45 |
| 1 | Al 237.313† | 1654.6 | 1735.4 | 0.2565 | mg/L | 0.2565 | mg/L | 19:00:45 |
| 1 | As 188.979† | 19.1 | 27.1 | 0.0564 | mg/L | 0.0564 | mg/L | 19:01:05 |
| 1 | B 182.528† | 26.8 | 30.4 | 0.0574 | mg/L | 0.0574 | mg/L | 19:01:05 |
| 1 | Ba 233.527† | 7408.7 | 7386.6 | 0.0506 | mg/L | 0.0506 | mg/L | 19:00:45 |
| 1 | Be 313.107† | 32741.1 | 25755.8 | 0.0051 | mg/L | 0.0051 | mg/L | 19:00:45 |
| 1 | Ca 315.886† | 78238.5 | 74881.1 | 0.4958 | mg/L | 0.4958 | mg/L | 19:00:45 |
| 1 | Cd 228.802† | 1336.6 | 1282.1 | 0.0243 | mg/L | 0.0243 | mg/L | 19:01:05 |
| 1 | Co 228.616† | 2857.7 | 3211.8 | 0.0491 | mg/L | 0.0491 | mg/L | 19:01:05 |
| 1 | Cr 267.716† | 9614.9 | 7615.9 | 0.0507 | mg/L | 0.0507 | mg/L | 19:00:45 |
| 1 | Cu 324.752† | 11113.5 | 10353.1 | 0.0512 | mg/L | 0.0512 | mg/L | 19:00:45 |
| 1 | Fe 238.204† | 28270.6 | 27794.5 | 0.2584 | mg/L | 0.2584 | mg/L | 19:00:45 |
| 1 | Mg 279.077† | 11353.5 | 11053.9 | 0.5039 | mg/L | 0.5039 | mg/L | 19:00:45 |
| 1 | Mn 257.610† | 45914.6 | 43342.5 | 0.0505 | mg/L | 0.0505 | mg/L | 19:00:45 |
| 1 | Mo 202.031† | 389.5 | 439.5 | 0.0493 | mg/L | 0.0493 | mg/L | 19:01:05 |
| 1 | Na 330.237† | 6195.0 | 2363.8 | 2.711 | mg/L | 2.711 | mg/L | 19:00:45 |
| 1 | Ni 231.604† | 1933.9 | 2219.9 | 0.0504 | mg/L | 0.0504 | mg/L | 19:01:05 |
| 1 | Pb 220.353† | 361.9 | 271.7 | 0.0496 | mg/L | 0.0496 | mg/L | 19:01:05 |
| 1 | Sb 206.836† | 227.2 | 120.5 | 0.0549 | mg/L | 0.0549 | mg/L | 19:01:05 |
| 1 | Se 196.026† | -62.8 | 30.6 | 0.1014 | mg/L | 0.1014 | mg/L | 19:01:05 |
| 1 | Sn 189.927† | 102.2 | 99.9 | 0.0465 | mg/L | 0.0465 | mg/L | 19:01:05 |
| 1 | Ti 337.279† | 31751.5 | 29697.4 | 0.0499 | mg/L | 0.0499 | mg/L | 19:00:45 |
| 1 | Tl 190.801† | 11.0 | 26.3 | 0.0553 | mg/L | 0.0553 | mg/L | 19:01:05 |
| 1 | V 292.402† | 12476.8 | 9710.0 | 0.0507 | mg/L | 0.0507 | mg/L | 19:00:45 |
| 1 | Zn 213.857† | 2147.9 | 2240.7 | 0.0494 | mg/L | 0.0494 | mg/L | 19:01:05 |
| 2 | Y 360.073 | 2891264.5 | 2891264.5 | | | | | 19:01:11 |
| 2 | Ag 328.068† | 7897.4 | 5025.4 | 0.0245 | mg/L | 0.0245 | mg/L | 19:01:16 |
| 2 | Al 237.313† | 1590.2 | 1626.8 | 0.2410 | mg/L | 0.2410 | mg/L | 19:01:16 |
| 2 | As 188.979† | 17.4 | 25.0 | 0.0518 | mg/L | 0.0518 | mg/L | 19:01:36 |
| 2 | B 182.528† | 20.6 | 23.6 | 0.0442 | mg/L | 0.0442 | mg/L | 19:01:36 |
| 2 | Ba 233.527† | 7279.4 | 7052.5 | 0.0483 | mg/L | 0.0483 | mg/L | 19:01:16 |
| 2 | Be 313.107† | 32530.0 | 24623.0 | 0.0049 | mg/L | 0.0049 | mg/L | 19:01:16 |
| 2 | Ca 315.886† | 77387.6 | 71843.5 | 0.4757 | mg/L | 0.4757 | mg/L | 19:01:16 |
| 2 | Cd 228.802† | 1340.4 | 1247.7 | 0.0236 | mg/L | 0.0236 | mg/L | 19:01:36 |
| 2 | Co 228.616† | 2896.7 | 3167.8 | 0.0484 | mg/L | 0.0484 | mg/L | 19:01:36 |
| 2 | Cr 267.716† | 9511.8 | 7244.0 | 0.0482 | mg/L | 0.0482 | mg/L | 19:01:16 |
| 2 | Cu 324.752† | 10918.6 | 9850.9 | 0.0488 | mg/L | 0.0488 | mg/L | 19:01:16 |
| 2 | Fe 238.204† | 27952.3 | 26686.5 | 0.2482 | mg/L | 0.2482 | mg/L | 19:01:16 |
| 2 | Mg 279.077† | 11229.7 | 10612.7 | 0.4836 | mg/L | 0.4836 | mg/L | 19:01:16 |
| 2 | Mn 257.610† | 45398.0 | 41543.4 | 0.0484 | mg/L | 0.0484 | mg/L | 19:01:16 |
| 2 | Mo 202.031† | 406.6 | 444.6 | 0.0499 | mg/L | 0.0499 | mg/L | 19:01:36 |
| 2 | Na 330.237† | 6178.9 | 2172.2 | 2.536 | mg/L | 2.536 | mg/L | 19:01:16 |
| 2 | Ni 231.604† | 1962.1 | 2191.9 | 0.0497 | mg/L | 0.0497 | mg/L | 19:01:36 |
| 2 | Pb 220.353† | 358.2 | 257.8 | 0.0471 | mg/L | 0.0471 | mg/L | 19:01:36 |
| 2 | Sb 206.836† | 210.5 | 98.1 | 0.0450 | mg/L | 0.0450 | mg/L | 19:01:36 |
| 2 | Se 196.026† | -57.3 | 37.7 | 0.1254 | mg/L | 0.1254 | mg/L | 19:01:36 |
| 2 | Sn 189.927† | 111.4 | 105.8 | 0.0493 | mg/L | 0.0493 | mg/L | 19:01:36 |
| 2 | Ti 337.279† | 31411.9 | 28470.1 | 0.0479 | mg/L | 0.0479 | mg/L | 19:01:16 |
| 2 | Tl 190.801† | 8.3 | 23.4 | 0.0496 | mg/L | 0.0496 | mg/L | 19:01:36 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | V 292.402† | 12319.8 | 9205.2 | 0.0482 mg/L | 0.0482 mg/L | 19:01:16 |
| 2 | Zn 213.857† | 2173.1 | 2203.7 | 0.0486 mg/L | 0.0486 mg/L | 19:01:36 |

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Mean Data: CRI1

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2849459.8 | | | | | | 59120.80 | 2.07% |
| Ag 328.068† | 5158.6 | 0.0252 | mg/L | 0.00090 | 0.0252 | mg/L | 0.00090 | 3.59% |
| QC value within limits for Ag 328.068 Recovery = 100.68% | | | | | | | | |
| Al 237.313† | 1681.1 | 0.2487 | mg/L | 0.01097 | 0.2487 | mg/L | 0.01097 | 4.41% |
| QC value within limits for Al 237.313 Recovery = 99.49% | | | | | | | | |
| As 188.979† | 26.0 | 0.0541 | mg/L | 0.00325 | 0.0541 | mg/L | 0.00325 | 6.00% |
| QC value within limits for As 188.979 Recovery = 108.16% | | | | | | | | |
| B 182.528† | 27.0 | 0.0508 | mg/L | 0.00934 | 0.0508 | mg/L | 0.00934 | 18.38% |
| QC value within limits for B 182.528 Recovery = 101.65% | | | | | | | | |
| Ba 233.527† | 7219.5 | 0.0495 | mg/L | 0.00164 | 0.0495 | mg/L | 0.00164 | 3.31% |
| QC value within limits for Ba 233.527 Recovery = 98.91% | | | | | | | | |
| Be 313.107† | 25189.4 | 0.0050 | mg/L | 0.00015 | 0.0050 | mg/L | 0.00015 | 3.04% |
| QC value within limits for Be 313.107 Recovery = 99.70% | | | | | | | | |
| Ca 315.886† | 73362.3 | 0.4857 | mg/L | 0.01427 | 0.4857 | mg/L | 0.01427 | 2.94% |
| QC value within limits for Ca 315.886 Recovery = 97.15% | | | | | | | | |
| Cd 228.802† | 1264.9 | 0.0240 | mg/L | 0.00044 | 0.0240 | mg/L | 0.00044 | 1.84% |
| QC value within limits for Cd 228.802 Recovery = 95.84% | | | | | | | | |
| Co 228.616† | 3189.8 | 0.0487 | mg/L | 0.00048 | 0.0487 | mg/L | 0.00048 | 0.99% |
| QC value within limits for Co 228.616 Recovery = 97.43% | | | | | | | | |
| Cr 267.716† | 7430.0 | 0.0495 | mg/L | 0.00174 | 0.0495 | mg/L | 0.00174 | 3.52% |
| QC value within limits for Cr 267.716 Recovery = 98.90% | | | | | | | | |
| Cu 324.752† | 10102.0 | 0.0500 | mg/L | 0.00170 | 0.0500 | mg/L | 0.00170 | 3.41% |
| QC value within limits for Cu 324.752 Recovery = 99.92% | | | | | | | | |
| Fe 238.204† | 27240.5 | 0.2533 | mg/L | 0.00722 | 0.2533 | mg/L | 0.00722 | 2.85% |
| QC value within limits for Fe 238.204 Recovery = 101.33% | | | | | | | | |
| Mg 279.077† | 10833.3 | 0.4937 | mg/L | 0.01433 | 0.4937 | mg/L | 0.01433 | 2.90% |
| QC value within limits for Mg 279.077 Recovery = 98.74% | | | | | | | | |
| Mn 257.610† | 42443.0 | 0.0494 | mg/L | 0.00150 | 0.0494 | mg/L | 0.00150 | 3.04% |
| QC value within limits for Mn 257.610 Recovery = 98.90% | | | | | | | | |
| Mo 202.031† | 442.1 | 0.0496 | mg/L | 0.00040 | 0.0496 | mg/L | 0.00040 | 0.82% |
| QC value within limits for Mo 202.031 Recovery = 99.14% | | | | | | | | |
| Na 330.237† | 2268.0 | 2.623 | mg/L | 0.1236 | 2.623 | mg/L | 0.1236 | 4.71% |
| QC value within limits for Na 330.237 Recovery = 104.94% | | | | | | | | |
| Ni 231.604† | 2205.9 | 0.0500 | mg/L | 0.00045 | 0.0500 | mg/L | 0.00045 | 0.90% |
| QC value within limits for Ni 231.604 Recovery = 100.07% | | | | | | | | |
| Pb 220.353† | 264.7 | 0.0484 | mg/L | 0.00179 | 0.0484 | mg/L | 0.00179 | 3.71% |
| QC value within limits for Pb 220.353 Recovery = 96.71% | | | | | | | | |
| Sb 206.836† | 109.3 | 0.0499 | mg/L | 0.00703 | 0.0499 | mg/L | 0.00703 | 14.08% |
| QC value within limits for Sb 206.836 Recovery = 99.86% | | | | | | | | |
| Se 196.026† | 34.1 | 0.1134 | mg/L | 0.01698 | 0.1134 | mg/L | 0.01698 | 14.98% |
| QC value within limits for Se 196.026 Recovery = 113.36% | | | | | | | | |
| Sn 189.927† | 102.8 | 0.0479 | mg/L | 0.00195 | 0.0479 | mg/L | 0.00195 | 4.07% |
| QC value within limits for Sn 189.927 Recovery = 95.80% | | | | | | | | |
| Ti 337.279† | 29083.7 | 0.0489 | mg/L | 0.00144 | 0.0489 | mg/L | 0.00144 | 2.94% |
| QC value within limits for Ti 337.279 Recovery = 97.75% | | | | | | | | |
| Tl 190.801† | 24.9 | 0.0525 | mg/L | 0.00404 | 0.0525 | mg/L | 0.00404 | 7.71% |
| QC value within limits for Tl 190.801 Recovery = 104.91% | | | | | | | | |
| V 292.402† | 9457.6 | 0.0495 | mg/L | 0.00181 | 0.0495 | mg/L | 0.00181 | 3.66% |
| QC value within limits for V 292.402 Recovery = 98.94% | | | | | | | | |
| Zn 213.857† | 2222.2 | 0.0490 | mg/L | 0.00057 | 0.0490 | mg/L | 0.00057 | 1.16% |
| QC value within limits for Zn 213.857 Recovery = 98.09% | | | | | | | | |

All analytes passed QC.

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**Sequence No.:** 13
**Sample ID:** CRI2
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 7
**Date Collected:** 11/30/01 7:03:16 PM
**Sample Prep Volume:**
**Data Type:** Original

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Replicate Data: CRI2

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2864606.6 | 2864606.6 | | | 19:04:52 |
| 1 | Ag 328.068† | 4664.9 | 1979.7 | 0.0099 mg/L | 0.0099 mg/L | 19:04:57 |
| 1 | Al 237.313† | 597.4 | 684.0 | 0.1066 mg/L | 0.1066 mg/L | 19:04:57 |
| 1 | As 188.979† | -0.4 | 8.0 | 0.0160 mg/L | 0.0160 mg/L | 19:05:17 |
| 1 | B 182.528† | 11.0 | 14.6 | 0.0268 mg/L | 0.0268 mg/L | 19:05:17 |
| 1 | Ba 233.527† | 2659.2 | 2663.7 | 0.0179 mg/L | 0.0179 mg/L | 19:05:17 |
| 1 | Be 313.107† | 16424.6 | 9388.1 | 0.0020 mg/L | 0.0020 mg/L | 19:04:57 |
| 1 | Ca 315.886† | 30616.4 | 27448.2 | 0.1808 mg/L | 0.1808 mg/L | 19:04:57 |
| 1 | Cd 228.802† | 512.7 | 461.8 | 0.0089 mg/L | 0.0089 mg/L | 19:05:17 |
| 1 | Co 228.616† | 818.7 | 1190.5 | 0.0177 mg/L | 0.0177 mg/L | 19:05:17 |
| 1 | Cr 267.716† | 4867.9 | 2852.3 | 0.0191 mg/L | 0.0191 mg/L | 19:04:57 |
| 1 | Cu 324.752† | 4456.6 | 3719.2 | 0.0193 mg/L | 0.0193 mg/L | 19:04:57 |
| 1 | Fe 238.204† | 10639.2 | 10246.7 | 0.0967 mg/L | 0.0967 mg/L | 19:04:57 |
| 1 | Mg 279.077† | 4376.6 | 4106.8 | 0.1846 mg/L | 0.1846 mg/L | 19:04:57 |
| 1 | Mn 257.610† | 18548.1 | 16066.1 | 0.0183 mg/L | 0.0183 mg/L | 19:04:57 |
| 1 | Mo 202.031† | 115.5 | 167.7 | 0.0191 mg/L | 0.0191 mg/L | 19:05:17 |
| 1 | Na 330.237† | 4686.3 | 788.3 | 1.265 mg/L | 1.265 mg/L | 19:04:57 |
| 1 | Ni 231.604† | 506.2 | 806.0 | 0.0183 mg/L | 0.0183 mg/L | 19:05:17 |
| 1 | Pb 220.353† | 185.0 | 94.1 | 0.0172 mg/L | 0.0172 mg/L | 19:05:17 |
| 1 | Sb 206.836† | 156.3 | 47.7 | 0.0228 mg/L | 0.0228 mg/L | 19:05:17 |
| 1 | Se 196.026† | -78.2 | 17.1 | 0.0549 mg/L | 0.0549 mg/L | 19:05:17 |
| 1 | Sn 189.927† | 40.5 | 38.5 | 0.0177 mg/L | 0.0177 mg/L | 19:05:17 |
| 1 | Ti 337.279† | 12941.5 | 10945.5 | 0.0189 mg/L | 0.0189 mg/L | 19:04:57 |
| 1 | Tl 190.801† | -4.1 | 11.6 | 0.0257 mg/L | 0.0257 mg/L | 19:05:17 |
| 1 | V 292.402† | 6331.5 | 3542.6 | 0.0195 mg/L | 0.0195 mg/L | 19:04:57 |
| 1 | Zn 213.857† | 732.8 | 834.7 | 0.0190 mg/L | 0.0190 mg/L | 19:05:17 |
| 2 | Y 360.073 | 2845159.9 | 2845159.9 | | | 19:05:23 |
| 2 | Ag 328.068† | 4640.9 | 1987.2 | 0.0099 mg/L | 0.0099 mg/L | 19:05:29 |
| 2 | Al 237.313† | 585.7 | 676.5 | 0.1055 mg/L | 0.1055 mg/L | 19:05:29 |
| 2 | As 188.979† | -0.4 | 7.9 | 0.0160 mg/L | 0.0160 mg/L | 19:05:49 |
| 2 | B 182.528† | 6.5 | 10.3 | 0.0184 mg/L | 0.0184 mg/L | 19:05:49 |
| 2 | Ba 233.527† | 2670.0 | 2691.7 | 0.0181 mg/L | 0.0181 mg/L | 19:05:49 |
| 2 | Be 313.107† | 16492.1 | 9561.7 | 0.0020 mg/L | 0.0020 mg/L | 19:05:29 |
| 2 | Ca 315.886† | 30584.6 | 27619.0 | 0.1819 mg/L | 0.1819 mg/L | 19:05:29 |
| 2 | Cd 228.802† | 518.0 | 470.3 | 0.0091 mg/L | 0.0091 mg/L | 19:05:49 |
| 2 | Co 228.616† | 810.3 | 1187.7 | 0.0177 mg/L | 0.0177 mg/L | 19:05:49 |
| 2 | Cr 267.716† | 4767.9 | 2787.2 | 0.0187 mg/L | 0.0187 mg/L | 19:05:29 |
| 2 | Cu 324.752† | 4561.2 | 3850.1 | 0.0200 mg/L | 0.0200 mg/L | 19:05:29 |
| 2 | Fe 238.204† | 10652.4 | 10329.6 | 0.0974 mg/L | 0.0974 mg/L | 19:05:29 |
| 2 | Mg 279.077† | 4366.2 | 4125.6 | 0.1855 mg/L | 0.1855 mg/L | 19:05:29 |
| 2 | Mn 257.610† | 18554.3 | 16194.3 | 0.0184 mg/L | 0.0184 mg/L | 19:05:29 |
| 2 | Mo 202.031† | 114.0 | 167.0 | 0.0190 mg/L | 0.0190 mg/L | 19:05:49 |
| 2 | Na 330.237† | 4647.3 | 781.4 | 1.259 mg/L | 1.259 mg/L | 19:05:29 |
| 2 | Ni 231.604† | 517.3 | 820.1 | 0.0186 mg/L | 0.0186 mg/L | 19:05:49 |
| 2 | Pb 220.353† | 179.3 | 89.8 | 0.0164 mg/L | 0.0164 mg/L | 19:05:49 |
| 2 | Sb 206.836† | 146.2 | 39.0 | 0.0189 mg/L | 0.0189 mg/L | 19:05:49 |
| 2 | Se 196.026† | -78.0 | 16.7 | 0.0536 mg/L | 0.0536 mg/L | 19:05:49 |
| 2 | Sn 189.927† | 42.2 | 40.4 | 0.0186 mg/L | 0.0186 mg/L | 19:05:49 |
| 2 | Ti 337.279† | 12906.3 | 10996.6 | 0.0190 mg/L | 0.0190 mg/L | 19:05:29 |
| 2 | Tl 190.801† | -4.2 | 11.4 | 0.0254 mg/L | 0.0254 mg/L | 19:05:49 |
| 2 | V 292.402† | 6242.7 | 3498.1 | 0.0193 mg/L | 0.0193 mg/L | 19:05:29 |
| 2 | Zn 213.857† | 737.6 | 844.2 | 0.0192 mg/L | 0.0192 mg/L | 19:05:49 |

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**Mean Data: CRI2**

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2854883.2 | | | | | | 13750.95 | 0.48% |
| Ag 328.068† | 1983.5 | 0.0099 | mg/L | 0.00003 | 0.0099 | mg/L | 0.00003 | 0.26% |
| QC value within limits for Ag 328.068 Recovery = 99.21% | | | | | | | | |
| Al 237.313† | 680.2 | 0.1061 | mg/L | 0.00077 | 0.1061 | mg/L | 0.00077 | 0.72% |
| QC value within limits for Al 237.313 Recovery = 106.07% | | | | | | | | |
| As 188.979† | 7.9 | 0.0160 | mg/L | 0.00003 | 0.0160 | mg/L | 0.00003 | 0.16% |
| QC value within limits for As 188.979 Recovery = 80.04% | | | | | | | | |
| B 182.528† | 12.4 | 0.0226 | mg/L | 0.00595 | 0.0226 | mg/L | 0.00595 | 26.32% |
| QC value within limits for B 182.528 Recovery = 112.95% | | | | | | | | |
| Ba 233.527† | 2677.7 | 0.0180 | mg/L | 0.00014 | 0.0180 | mg/L | 0.00014 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 89.94% | | | | | | | | |
| Be 313.107† | 9474.9 | 0.0020 | mg/L | 0.00002 | 0.0020 | mg/L | 0.00002 | 1.15% |
| QC value within limits for Be 313.107 Recovery = 100.54% | | | | | | | | |
| Ca 315.886† | 27533.6 | 0.1814 | mg/L | 0.00080 | 0.1814 | mg/L | 0.00080 | 0.44% |

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   QC value within limits for Ca 315.886  Recovery = 90.69%
Cd 228.802†              466.0      0.0090 mg/L       0.00011      0.0090 mg/L       0.00011   1.27%
   QC value within limits for Cd 228.802  Recovery = 89.73%
Co 228.616†             1189.1      0.0177 mg/L       0.00003      0.0177 mg/L       0.00003   0.17%
   QC value within limits for Co 228.616  Recovery = 88.39%
Cr 267.716†             2819.7      0.0189 mg/L       0.00031      0.0189 mg/L       0.00031   1.61%
   QC value within limits for Cr 267.716  Recovery = 94.54%
Cu 324.752†             3784.6      0.0197 mg/L       0.00044      0.0197 mg/L       0.00044   2.26%
   QC value within limits for Cu 324.752  Recovery = 98.28%
Fe 238.204†            10288.2      0.0971 mg/L       0.00054      0.0971 mg/L       0.00054   0.56%
   QC value within limits for Fe 238.204  Recovery = 97.05%
Mg 279.077†             4116.2      0.1850 mg/L       0.00061      0.1850 mg/L       0.00061   0.33%
   QC value within limits for Mg 279.077  Recovery = 92.52%
Mn 257.610†            16130.2      0.0183 mg/L       0.00011      0.0183 mg/L       0.00011   0.58%
   QC value within limits for Mn 257.610  Recovery = 91.72%
Mo 202.031†              167.3      0.0191 mg/L       0.00006      0.0191 mg/L       0.00006   0.29%
   QC value within limits for Mo 202.031  Recovery = 95.29%
Na 330.237†              784.9       1.262 mg/L        0.0044       1.262 mg/L        0.0044   0.35%
   QC value greater than the upper limit for Na 330.237  Recovery = 126.20%
Ni 231.604†              813.0      0.0184 mg/L       0.00023      0.0184 mg/L       0.00023   1.23%
   QC value within limits for Ni 231.604  Recovery = 92.11%
Pb 220.353†               91.9      0.0168 mg/L       0.00056      0.0168 mg/L       0.00056   3.32%
   QC value within limits for Pb 220.353  Recovery = 83.96%
Sb 206.836†               43.4      0.0209 mg/L       0.00275      0.0209 mg/L       0.00275  13.18%
   QC value within limits for Sb 206.836  Recovery = 104.44%
Se 196.026†               16.9      0.0542 mg/L       0.00092      0.0542 mg/L       0.00092   1.70%
   QC value greater than the upper limit for Se 196.026  Recovery = 135.57%
Sn 189.927†               39.4      0.0181 mg/L       0.00063      0.0181 mg/L       0.00063   3.46%
   QC value within limits for Sn 189.927  Recovery = 90.70%
Ti 337.279†            10971.0      0.0189 mg/L       0.00006      0.0189 mg/L       0.00006   0.32%
   QC value within limits for Ti 337.279  Recovery = 94.54%
Tl 190.801†               11.5      0.0256 mg/L       0.00020      0.0256 mg/L       0.00020   0.77%
   QC value greater than the upper limit for Tl 190.801  Recovery = 127.88%
V 292.402†             3520.3      0.0194 mg/L       0.00016      0.0194 mg/L       0.00016   0.82%
   QC value within limits for V 292.402  Recovery = 96.95%
Zn 213.857†              839.4      0.0191 mg/L       0.00015      0.0191 mg/L       0.00015   0.76%
   QC value within limits for Zn 213.857  Recovery = 95.39%
QC Failed.  Continue with analysis.
```

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**Sequence No.: 14** **Autosampler Location: 8**
**Sample ID: CRI3** **Date Collected: 11/30/01 7:07:29 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: CRI3**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2834552.0 | 2834552.0 | | | | | 19:09:05 |
| 1 | Ag 328.068† | 3703.2 | 1090.6 | 0.0056 | mg/L | 0.0056 | mg/L | 19:09:10 |
| 1 | Al 237.313† | 246.5 | 348.2 | 0.0587 | mg/L | 0.0587 | mg/L | 19:09:30 |
| 1 | As 188.979† | -2.2 | 6.2 | 0.0123 | mg/L | 0.0123 | mg/L | 19:09:30 |
| 1 | B 182.528† | 5.4 | 9.2 | 0.0164 | mg/L | 0.0164 | mg/L | 19:09:30 |
| 1 | Ba 233.527† | 1393.7 | 1458.1 | 0.0095 | mg/L | 0.0095 | mg/L | 19:09:30 |
| 1 | Be 313.107† | 11762.9 | 5014.9 | 0.0012 | mg/L | 0.0012 | mg/L | 19:09:10 |
| 1 | Ca 315.886† | 17295.8 | 14785.1 | 0.0967 | mg/L | 0.0967 | mg/L | 19:09:10 |
| 1 | Cd 228.802† | 291.9 | 251.9 | 0.0049 | mg/L | 0.0049 | mg/L | 19:09:30 |
| 1 | Co 228.616† | 224.3 | 619.9 | 0.0088 | mg/L | 0.0088 | mg/L | 19:09:30 |
| 1 | Cr 267.716† | 3426.7 | 1498.1 | 0.0102 | mg/L | 0.0102 | mg/L | 19:09:10 |
| 1 | Cu 324.752† | 2633.5 | 1988.8 | 0.0110 | mg/L | 0.0110 | mg/L | 19:09:10 |
| 1 | Fe 238.204† | 5748.1 | 5590.9 | 0.0537 | mg/L | 0.0537 | mg/L | 19:09:10 |
| 1 | Mg 279.077† | 2372.5 | 2199.3 | 0.0970 | mg/L | 0.0970 | mg/L | 19:09:10 |
| 1 | Mn 257.610† | 10748.5 | 8657.8 | 0.0095 | mg/L | 0.0095 | mg/L | 19:09:10 |
| 1 | Mo 202.031† | 36.1 | 91.5 | 0.0106 | mg/L | 0.0106 | mg/L | 19:09:30 |
| 1 | Na 330.237† | 4247.6 | 408.9 | 0.9167 | mg/L | 0.9167 | mg/L | 19:09:10 |
| 1 | Ni 231.604† | 124.3 | 439.1 | 0.0099 | mg/L | 0.0099 | mg/L | 19:09:30 |
| 1 | Pb 220.353† | 135.8 | 48.0 | 0.0088 | mg/L | 0.0088 | mg/L | 19:09:30 |
| 1 | Sb 206.836† | 129.0 | 22.7 | 0.0118 | mg/L | 0.0118 | mg/L | 19:09:30 |
| 1 | Se 196.026† | -83.0 | 11.6 | 0.0361 | mg/L | 0.0361 | mg/L | 19:09:30 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Sn 189.927† | 20.1 | 19.0 | 0.0085 mg/L | 0.0085 mg/L | 19:09:30 |
| 1 | Ti 337.279† | 7576.0 | 5851.1 | 0.0104 mg/L | 0.0104 mg/L | 19:09:10 |
| 1 | Tl 190.801† | -7.7 | 8.1 | 0.0186 mg/L | 0.0186 mg/L | 19:09:30 |
| 1 | V 292.402† | 4626.7 | 1946.6 | 0.0114 mg/L | 0.0114 mg/L | 19:09:10 |
| 1 | Zn 213.857† | 345.0 | 464.5 | 0.0110 mg/L | 0.0110 mg/L | 19:09:30 |
| 2 | Y 360.073 | 2840281.1 | 2840281.1 | | | 19:09:36 |
| 2 | Ag 328.068† | 3632.9 | 1015.0 | 0.0053 mg/L | 0.0053 mg/L | 19:09:42 |
| 2 | Al 237.313† | 286.0 | 386.1 | 0.0641 mg/L | 0.0641 mg/L | 19:10:02 |
| 2 | As 188.979† | -2.4 | 5.9 | 0.0118 mg/L | 0.0118 mg/L | 19:10:02 |
| 2 | B 182.528† | -0.0 | 3.9 | 0.0061 mg/L | 0.0061 mg/L | 19:10:02 |
| 2 | Ba 233.527† | 1387.4 | 1449.2 | 0.0095 mg/L | 0.0095 mg/L | 19:10:02 |
| 2 | Be 313.107† | 11879.5 | 5105.1 | 0.0012 mg/L | 0.0012 mg/L | 19:09:42 |
| 2 | Ca 315.886† | 17408.1 | 14860.3 | 0.0972 mg/L | 0.0972 mg/L | 19:09:42 |
| 2 | Cd 228.802† | 300.0 | 259.2 | 0.0051 mg/L | 0.0051 mg/L | 19:10:02 |
| 2 | Co 228.616† | 234.7 | 629.5 | 0.0090 mg/L | 0.0090 mg/L | 19:10:02 |
| 2 | Cr 267.716† | 3499.5 | 1562.1 | 0.0106 mg/L | 0.0106 mg/L | 19:09:42 |
| 2 | Cu 324.752† | 2673.6 | 2022.6 | 0.0112 mg/L | 0.0112 mg/L | 19:09:42 |
| 2 | Fe 238.204† | 5653.4 | 5487.6 | 0.0528 mg/L | 0.0528 mg/L | 19:09:42 |
| 2 | Mg 279.077† | 2342.0 | 2164.9 | 0.0954 mg/L | 0.0954 mg/L | 19:09:42 |
| 2 | Mn 257.610† | 10654.8 | 8545.6 | 0.0094 mg/L | 0.0094 mg/L | 19:09:42 |
| 2 | Mo 202.031† | 35.9 | 91.3 | 0.0106 mg/L | 0.0106 mg/L | 19:10:02 |
| 2 | Na 330.237† | 4296.5 | 448.1 | 0.9524 mg/L | 0.9524 mg/L | 19:09:42 |
| 2 | Ni 231.604† | 123.5 | 438.2 | 0.0099 mg/L | 0.0099 mg/L | 19:10:02 |
| 2 | Pb 220.353† | 130.8 | 42.9 | 0.0078 mg/L | 0.0078 mg/L | 19:10:02 |
| 2 | Sb 206.836† | 123.9 | 17.5 | 0.0095 mg/L | 0.0095 mg/L | 19:10:02 |
| 2 | Se 196.026† | -88.1 | 6.7 | 0.0196 mg/L | 0.0196 mg/L | 19:10:02 |
| 2 | Sn 189.927† | 24.6 | 23.3 | 0.0106 mg/L | 0.0106 mg/L | 19:10:02 |
| 2 | Ti 337.279† | 7534.0 | 5795.4 | 0.0103 mg/L | 0.0103 mg/L | 19:09:42 |
| 2 | Tl 190.801† | -12.1 | 3.7 | 0.0101 mg/L | 0.0101 mg/L | 19:10:02 |
| 2 | V 292.402† | 4555.8 | 1868.6 | 0.0110 mg/L | 0.0110 mg/L | 19:09:42 |
| 2 | Zn 213.857† | 343.9 | 462.7 | 0.0109 mg/L | 0.0109 mg/L | 19:10:02 |

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**Mean Data: CRI3**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2837416.5 | | | | | | 4051.05 | 0.14% |
| Ag 328.068† | 1052.8 | 0.0055 | mg/L | 0.00026 | 0.0055 | mg/L | 0.00026 | 4.71% |
| QC value within limits for Ag 328.068 Recovery = 109.02% | | | | | | | | |
| Al 237.313† | 367.2 | 0.0614 | mg/L | 0.00386 | 0.0614 | mg/L | 0.00386 | 6.29% |
| QC value greater than the upper limit for Al 237.313 Recovery = 122.82% | | | | | | | | |
| As 188.979† | 6.1 | 0.0121 | mg/L | 0.00038 | 0.0121 | mg/L | 0.00038 | 3.13% |
| QC value greater than the upper limit for As 188.979 Recovery = 120.58% | | | | | | | | |
| B 182.528† | 6.6 | 0.0112 | mg/L | 0.00732 | 0.0112 | mg/L | 0.00732 | 65.12% |
| QC value within limits for B 182.528 Recovery = 112.48% | | | | | | | | |
| Ba 233.527† | 1453.7 | 0.0095 | mg/L | 0.00004 | 0.0095 | mg/L | 0.00004 | 0.46% |
| QC value within limits for Ba 233.527 Recovery = 95.08% | | | | | | | | |
| Be 313.107† | 5060.0 | 0.0012 | mg/L | 0.00001 | 0.0012 | mg/L | 0.00001 | 1.03% |
| QC value within limits for Be 313.107 Recovery = 117.52% | | | | | | | | |
| Ca 315.886† | 14822.7 | 0.0970 | mg/L | 0.00035 | 0.0970 | mg/L | 0.00035 | 0.36% |
| QC value within limits for Ca 315.886 Recovery = 96.95% | | | | | | | | |
| Cd 228.802† | 255.5 | 0.0050 | mg/L | 0.00010 | 0.0050 | mg/L | 0.00010 | 2.03% |
| QC value within limits for Cd 228.802 Recovery = 99.66% | | | | | | | | |
| Co 228.616† | 624.7 | 0.0089 | mg/L | 0.00011 | 0.0089 | mg/L | 0.00011 | 1.18% |
| QC value within limits for Co 228.616 Recovery = 89.22% | | | | | | | | |
| Cr 267.716† | 1530.1 | 0.0104 | mg/L | 0.00030 | 0.0104 | mg/L | 0.00030 | 2.90% |
| QC value within limits for Cr 267.716 Recovery = 103.65% | | | | | | | | |
| Cu 324.752† | 2005.7 | 0.0111 | mg/L | 0.00011 | 0.0111 | mg/L | 0.00011 | 1.03% |
| QC value within limits for Cu 324.752 Recovery = 111.22% | | | | | | | | |
| Fe 238.204† | 5539.2 | 0.0533 | mg/L | 0.00067 | 0.0533 | mg/L | 0.00067 | 1.27% |
| QC value within limits for Fe 238.204 Recovery = 106.54% | | | | | | | | |
| Mg 279.077† | 2182.1 | 0.0962 | mg/L | 0.00112 | 0.0962 | mg/L | 0.00112 | 1.16% |
| QC value within limits for Mg 279.077 Recovery = 96.17% | | | | | | | | |
| Mn 257.610† | 8601.7 | 0.0094 | mg/L | 0.00009 | 0.0094 | mg/L | 0.00009 | 0.99% |
| QC value within limits for Mn 257.610 Recovery = 94.45% | | | | | | | | |
| Mo 202.031† | 91.4 | 0.0106 | mg/L | 0.00001 | 0.0106 | mg/L | 0.00001 | 0.14% |
| QC value within limits for Mo 202.031 Recovery = 106.27% | | | | | | | | |
| Na 330.237† | 428.5 | 0.9346 | mg/L | 0.02526 | 0.9346 | mg/L | 0.02526 | 2.70% |
| QC value greater than the upper limit for Na 330.237 Recovery = 186.91% | | | | | | | | |
| Ni 231.604† | 438.7 | 0.0099 | mg/L | 0.00002 | 0.0099 | mg/L | 0.00002 | 0.16% |
| QC value within limits for Ni 231.604 Recovery = 99.27% | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Pb 220.353† | 45.5 | 0.0083 mg/L | 0.00066 | 0.0083 mg/L | 0.00066 | 7.93% |
| QC value within limits for Pb 220.353 Recovery = 83.06% | | | | | | |
| Sb 206.836† | 20.1 | 0.0106 mg/L | 0.00164 | 0.0106 mg/L | 0.00164 | 15.43% |
| QC value within limits for Sb 206.836 Recovery = 106.38% | | | | | | |
| Se 196.026† | 9.1 | 0.0278 mg/L | 0.01166 | 0.0278 mg/L | 0.01166 | 41.91% |
| QC value greater than the upper limit for Se 196.026 Recovery = 139.05% | | | | | | |
| Sn 189.927† | 21.1 | 0.0096 mg/L | 0.00143 | 0.0096 mg/L | 0.00143 | 14.94% |
| QC value within limits for Sn 189.927 Recovery = 95.57% | | | | | | |
| Ti 337.279† | 5823.2 | 0.0104 mg/L | 0.00007 | 0.0104 mg/L | 0.00007 | 0.63% |
| QC value within limits for Ti 337.279 Recovery = 103.92% | | | | | | |
| Tl 190.801† | 5.9 | 0.0144 mg/L | 0.00602 | 0.0144 mg/L | 0.00602 | 41.89% |
| QC value greater than the upper limit for Tl 190.801 Recovery = 143.76% | | | | | | |
| V 292.402† | 1907.6 | 0.0112 mg/L | 0.00028 | 0.0112 mg/L | 0.00028 | 2.51% |
| QC value within limits for V 292.402 Recovery = 112.20% | | | | | | |
| Zn 213.857† | 463.6 | 0.0109 mg/L | 0.00003 | 0.0109 mg/L | 0.00003 | 0.25% |
| QC value within limits for Zn 213.857 Recovery = 109.31% | | | | | | |

QC Failed. Continue with analysis.

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**Sequence No.: 15** **Autosampler Location: 9**
**Sample ID: 011130pbw** **Date Collected: 11/30/01 7:11:43 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: 011130pbw**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2856043.6 | 2856043.6 | | | | | 19:13:16 |
| 1 | Ag 328.068† | 2606.5 | 3.2 | 0.0004 | mg/L | 0.0004 | mg/L | 19:13:22 |
| 1 | Al 237.313† | -81.1 | 29.7 | 0.0133 | mg/L | 0.0133 | mg/L | 19:13:42 |
| 1 | As 188.979† | -8.9 | -0.3 | -0.0013 | mg/L | -0.0013 | mg/L | 19:13:42 |
| 1 | B 182.528† | -0.5 | 3.5 | 0.0053 | mg/L | 0.0053 | mg/L | 19:13:42 |
| 1 | Ba 233.527† | -78.2 | 24.8 | -0.0004 | mg/L | -0.0004 | mg/L | 19:13:42 |
| 1 | Be 313.107† | 6595.9 | -66.8 | 0.0002 | mg/L | 0.0002 | mg/L | 19:13:22 |
| 1 | Ca 315.886† | 2882.8 | 723.9 | 0.0033 | mg/L | 0.0033 | mg/L | 19:13:22 |
| 1 | Cd 228.802† | 34.9 | 1.3 | 0.0002 | mg/L | 0.0002 | mg/L | 19:13:42 |
| 1 | Co 228.616† | -430.9 | -15.3 | -0.0010 | mg/L | -0.0010 | mg/L | 19:13:42 |
| 1 | Cr 267.716† | 1914.0 | 10.5 | 0.0003 | mg/L | 0.0003 | mg/L | 19:13:22 |
| 1 | Cu 324.752† | 719.3 | 118.8 | 0.0021 | mg/L | 0.0021 | mg/L | 19:13:22 |
| 1 | Fe 238.204† | 518.4 | 492.7 | 0.0068 | mg/L | 0.0068 | mg/L | 19:13:22 |
| 1 | Mg 279.077† | 92.5 | -22.4 | -0.0051 | mg/L | -0.0051 | mg/L | 19:13:22 |
| 1 | Mn 257.610† | 2037.0 | 156.8 | -0.0005 | mg/L | -0.0005 | mg/L | 19:13:22 |
| 1 | Mo 202.031† | -60.6 | -2.2 | 0.0002 | mg/L | 0.0002 | mg/L | 19:13:42 |
| 1 | Na 330.237† | 3652.3 | -197.7 | 0.3613 | mg/L | 0.3613 | mg/L | 19:13:22 |
| 1 | Ni 231.604† | -249.5 | 76.9 | 0.0017 | mg/L | 0.0017 | mg/L | 19:13:42 |
| 1 | Pb 220.353† | 78.4 | -8.5 | -0.0016 | mg/L | -0.0016 | mg/L | 19:13:42 |
| 1 | Sb 206.836† | 93.7 | -12.3 | -0.0037 | mg/L | -0.0037 | mg/L | 19:13:42 |
| 1 | Se 196.026† | -91.2 | 4.2 | 0.0111 | mg/L | 0.0111 | mg/L | 19:13:42 |
| 1 | Sn 189.927† | 1.4 | 0.8 | 0.0000 | mg/L | 0.0000 | mg/L | 19:13:42 |
| 1 | Ti 337.279† | 1683.5 | 98.7 | 0.0009 | mg/L | 0.0009 | mg/L | 19:13:22 |
| 1 | Tl 190.801† | -16.0 | 0.0 | 0.0027 | mg/L | 0.0027 | mg/L | 19:13:42 |
| 1 | V 292.402† | 2606.6 | -40.4 | 0.0014 | mg/L | 0.0014 | mg/L | 19:13:22 |
| 1 | Zn 213.857† | -18.9 | 110.1 | 0.0033 | mg/L | 0.0033 | mg/L | 19:13:42 |
| 2 | Y 360.073 | 2844206.3 | 2844206.3 | | | | | 19:13:48 |
| 2 | Ag 328.068† | 2667.3 | 72.6 | 0.0007 | mg/L | 0.0007 | mg/L | 19:13:53 |
| 2 | Al 237.313† | -106.5 | 4.8 | 0.0097 | mg/L | 0.0097 | mg/L | 19:14:13 |
| 2 | As 188.979† | -8.1 | 0.5 | 0.0003 | mg/L | 0.0003 | mg/L | 19:14:13 |
| 2 | B 182.528† | -1.3 | 2.7 | 0.0037 | mg/L | 0.0037 | mg/L | 19:14:13 |
| 2 | Ba 233.527† | -78.1 | 24.6 | -0.0004 | mg/L | -0.0004 | mg/L | 19:14:13 |
| 2 | Be 313.107† | 6571.0 | -64.4 | 0.0002 | mg/L | 0.0002 | mg/L | 19:13:53 |
| 2 | Ca 315.886† | 2733.8 | 590.8 | 0.0024 | mg/L | 0.0024 | mg/L | 19:13:53 |
| 2 | Cd 228.802† | 28.5 | -4.7 | 0.0001 | mg/L | 0.0001 | mg/L | 19:14:13 |
| 2 | Co 228.616† | -409.5 | 3.8 | -0.0007 | mg/L | -0.0007 | mg/L | 19:14:13 |
| 2 | Cr 267.716† | 1950.4 | 53.5 | 0.0006 | mg/L | 0.0006 | mg/L | 19:13:53 |
| 2 | Cu 324.752† | 664.7 | 68.7 | 0.0018 | mg/L | 0.0018 | mg/L | 19:13:53 |
| 2 | Fe 238.204† | 441.4 | 420.1 | 0.0061 | mg/L | 0.0061 | mg/L | 19:13:53 |
| 2 | Mg 279.077† | 177.8 | 60.7 | -0.0013 | mg/L | -0.0013 | mg/L | 19:13:53 |
| 2 | Mn 257.610† | 2151.5 | 276.2 | -0.0004 | mg/L | -0.0004 | mg/L | 19:13:53 |
| 2 | Mo 202.031† | -56.7 | 1.4 | 0.0006 | mg/L | 0.0006 | mg/L | 19:14:13 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Na 330.237† | 3844.1 | 3.1 | 0.5442 mg/L | 0.5442 mg/L | 19:13:53 |
| 2 | Ni 231.604† | -273.8 | 52.2 | 0.0012 mg/L | 0.0012 mg/L | 19:14:13 |
| 2 | Pb 220.353† | 84.4 | -2.3 | -0.0004 mg/L | -0.0004 mg/L | 19:14:13 |
| 2 | Sb 206.836† | 110.5 | 4.3 | 0.0037 mg/L | 0.0037 mg/L | 19:14:13 |
| 2 | Se 196.026† | -91.7 | 3.4 | 0.0080 mg/L | 0.0080 mg/L | 19:14:13 |
| 2 | Sn 189.927† | -3.0 | -3.5 | -0.0020 mg/L | -0.0020 mg/L | 19:14:13 |
| 2 | Ti 337.279† | 1568.9 | -5.8 | 0.0007 mg/L | 0.0007 mg/L | 19:13:53 |
| 2 | Tl 190.801† | -15.2 | 0.7 | 0.0041 mg/L | 0.0041 mg/L | 19:14:13 |
| 2 | V 292.402† | 2569.5 | -65.9 | 0.0012 mg/L | 0.0012 mg/L | 19:13:53 |
| 2 | Zn 213.857† | -29.9 | 99.3 | 0.0030 mg/L | 0.0030 mg/L | 19:14:13 |

**Mean Data: 011130pbw**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2850124.9 | | | | | | 8370.26 | 0.29% |
| Ag 328.068† | 37.9 | 0.0006 | mg/L | 0.00024 | 0.0006 | mg/L | 0.00024 | 40.90% |
| Al 237.313† | 17.2 | 0.0115 | mg/L | 0.00252 | 0.0115 | mg/L | 0.00252 | 21.99% |
| As 188.979† | 0.1 | -0.0005 | mg/L | 0.00116 | -0.0005 | mg/L | 0.00116 | 226.43% |
| B 182.528† | 3.1 | 0.0045 | mg/L | 0.00112 | 0.0045 | mg/L | 0.00112 | 25.03% |
| Ba 233.527† | 24.7 | -0.0004 | mg/L | 0.00000 | -0.0004 | mg/L | 0.00000 | 0.24% |
| Be 313.107† | -65.6 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 0.16% |
| Ca 315.886† | 657.4 | 0.0029 | mg/L | 0.00062 | 0.0029 | mg/L | 0.00062 | 21.71% |
| Cd 228.802† | -1.7 | 0.0002 | mg/L | 0.00009 | 0.0002 | mg/L | 0.00009 | 54.50% |
| Co 228.616† | -5.8 | -0.0009 | mg/L | 0.00021 | -0.0009 | mg/L | 0.00021 | 24.46% |
| Cr 267.716† | 32.0 | 0.0004 | mg/L | 0.00020 | 0.0004 | mg/L | 0.00020 | 45.93% |
| Cu 324.752† | 93.8 | 0.0020 | mg/L | 0.00017 | 0.0020 | mg/L | 0.00017 | 8.71% |
| Fe 238.204† | 456.4 | 0.0064 | mg/L | 0.00048 | 0.0064 | mg/L | 0.00048 | 7.43% |
| Mg 279.077† | 19.2 | -0.0032 | mg/L | 0.00270 | -0.0032 | mg/L | 0.00270 | 83.88% |
| Mn 257.610† | 216.5 | -0.0005 | mg/L | 0.00010 | -0.0005 | mg/L | 0.00010 | 21.33% |
| Mo 202.031† | -0.4 | 0.0004 | mg/L | 0.00028 | 0.0004 | mg/L | 0.00028 | 65.38% |
| Na 330.237† | -97.3 | 0.4527 | mg/L | 0.12937 | 0.4527 | mg/L | 0.12937 | 28.57% |
| Ni 231.604† | 64.6 | 0.0014 | mg/L | 0.00040 | 0.0014 | mg/L | 0.00040 | 27.54% |
| Pb 220.353† | -5.4 | -0.0010 | mg/L | 0.00080 | -0.0010 | mg/L | 0.00080 | 80.15% |
| Sb 206.836† | -4.0 | 0.0000 | mg/L | 0.00522 | 0.0000 | mg/L | 0.00522 | >999.9% |
| Se 196.026† | 3.8 | 0.0095 | mg/L | 0.00216 | 0.0095 | mg/L | 0.00216 | 22.59% |
| Sn 189.927† | -1.3 | -0.0010 | mg/L | 0.00141 | -0.0010 | mg/L | 0.00141 | 142.06% |
| Ti 337.279† | 46.4 | 0.0008 | mg/L | 0.00012 | 0.0008 | mg/L | 0.00012 | 14.61% |
| Tl 190.801† | 0.4 | 0.0034 | mg/L | 0.00095 | 0.0034 | mg/L | 0.00095 | 27.92% |
| V 292.402† | -53.1 | 0.0013 | mg/L | 0.00009 | 0.0013 | mg/L | 0.00009 | 7.19% |
| Zn 213.857† | 104.7 | 0.0032 | mg/L | 0.00016 | 0.0032 | mg/L | 0.00016 | 5.19% |

**Sequence No.: 16** **Autosampler Location: 10**
**Sample ID: 011130lcsw** **Date Collected: 11/30/01 7:15:54 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

**Replicate Data: 011130lcsw**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2907826.8 | 2907826.8 | | | | | 19:17:29 |
| 1 | Ag 328.068† | 57452.4 | 52038.9 | 0.2503 | mg/L | 0.2503 | mg/L | 19:17:34 |
| 1 | Al 237.313† | 18245.0 | 17433.3 | 2.495 | mg/L | 2.495 | mg/L | 19:17:34 |
| 1 | As 188.979† | 242.4 | 238.5 | 0.5008 | mg/L | 0.5008 | mg/L | 19:17:55 |
| 1 | B 182.528† | 263.7 | 254.4 | 0.4922 | mg/L | 0.4922 | mg/L | 19:17:55 |
| 1 | Ba 233.527† | 76592.4 | 72831.1 | 0.5040 | mg/L | 0.5040 | mg/L | 19:17:34 |
| 1 | Be 313.107† | 283953.9 | 263193.2 | 0.0500 | mg/L | 0.0500 | mg/L | 19:17:29 |
| 1 | Ca 315.886† | 800073.2 | 757670.4 | 5.031 | mg/L | 5.031 | mg/L | 19:17:29 |
| 1 | Cd 228.802† | 13962.9 | 13226.4 | 0.2491 | mg/L | 0.2491 | mg/L | 19:17:34 |
| 1 | Co 228.616† | 33977.4 | 32665.6 | 0.5060 | mg/L | 0.5060 | mg/L | 19:17:34 |
| 1 | Cr 267.716† | 81947.1 | 75975.4 | 0.5035 | mg/L | 0.5035 | mg/L | 19:17:34 |
| 1 | Cu 324.752† | 111134.1 | 104954.2 | 0.5050 | mg/L | 0.5050 | mg/L | 19:17:34 |
| 1 | Fe 238.204† | 287484.1 | 272980.7 | 2.519 | mg/L | 2.519 | mg/L | 19:17:34 |
| 1 | Mg 279.077† | 115606.1 | 109665.4 | 5.035 | mg/L | 5.035 | mg/L | 19:17:34 |
| 1 | Mn 257.610† | 453875.0 | 429178.1 | 0.5066 | mg/L | 0.5066 | mg/L | 19:17:29 |
| 1 | Mo 202.031† | 4668.7 | 4489.7 | 0.4991 | mg/L | 0.4991 | mg/L | 19:17:55 |
| 1 | Na 330.237† | 31310.6 | 26003.2 | 24.40 | mg/L | 24.40 | mg/L | 19:17:34 |
| 1 | Ni 231.604† | 23074.2 | 22228.8 | 0.5044 | mg/L | 0.5044 | mg/L | 19:17:34 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Pb 220.353† | 2972.4 | 2738.3 | 0.5002 mg/L | 0.5002 mg/L | 19:17:55 |
| 1 | Sb 206.836† | 1283.8 | 1116.1 | 0.4934 mg/L | 0.4934 mg/L | 19:17:55 |
| 1 | Se 196.026† | 212.9 | 294.6 | 1.005 mg/L | 1.005 mg/L | 19:17:55 |
| 1 | Sn 189.927† | 1141.6 | 1083.5 | 0.5081 mg/L | 0.5081 mg/L | 19:17:55 |
| 1 | Ti 337.279† | 321421.7 | 303686.8 | 0.5032 mg/L | 0.5032 mg/L | 19:17:29 |
| 1 | Tl 190.801† | 246.3 | 249.4 | 0.5021 mg/L | 0.5021 mg/L | 19:17:55 |
| 1 | V 292.402† | 106361.8 | 98438.6 | 0.5003 mg/L | 0.5003 mg/L | 19:17:34 |
| 1 | Zn 213.857† | 24072.1 | 22986.7 | 0.4992 mg/L | 0.4992 mg/L | 19:17:34 |
| 2 | Y 360.073 | 2850378.1 | 2850378.1 | | | 19:18:02 |
| 2 | Ag 328.068† | 57214.6 | 52908.1 | 0.2545 mg/L | 0.2545 mg/L | 19:18:07 |
| 2 | Al 237.313† | 18031.8 | 17575.9 | 2.516 mg/L | 2.516 mg/L | 19:18:07 |
| 2 | As 188.979† | 245.8 | 246.4 | 0.5176 mg/L | 0.5176 mg/L | 19:18:27 |
| 2 | B 182.528† | 267.9 | 263.4 | 0.5098 mg/L | 0.5098 mg/L | 19:18:27 |
| 2 | Ba 233.527† | 76297.8 | 74011.5 | 0.5122 mg/L | 0.5122 mg/L | 19:18:07 |
| 2 | Be 313.107† | 283015.5 | 267718.7 | 0.0509 mg/L | 0.0509 mg/L | 19:18:02 |
| 2 | Ca 315.886† | 796512.4 | 769533.3 | 5.109 mg/L | 5.109 mg/L | 19:18:02 |
| 2 | Cd 228.802† | 13902.7 | 13435.4 | 0.2530 mg/L | 0.2530 mg/L | 19:18:07 |
| 2 | Co 228.616† | 33792.4 | 33136.7 | 0.5133 mg/L | 0.5133 mg/L | 19:18:07 |
| 2 | Cr 267.716† | 81567.8 | 77176.3 | 0.5115 mg/L | 0.5115 mg/L | 19:18:07 |
| 2 | Cu 324.752† | 110686.3 | 106647.4 | 0.5131 mg/L | 0.5131 mg/L | 19:18:07 |
| 2 | Fe 238.204† | 286125.4 | 277166.6 | 2.557 mg/L | 2.557 mg/L | 19:18:07 |
| 2 | Mg 279.077† | 115164.9 | 111450.5 | 5.117 mg/L | 5.117 mg/L | 19:18:07 |
| 2 | Mn 257.610† | 451397.8 | 435465.0 | 0.5141 mg/L | 0.5141 mg/L | 19:18:02 |
| 2 | Mo 202.031† | 4709.2 | 4618.3 | 0.5134 mg/L | 0.5134 mg/L | 19:18:27 |
| 2 | Na 330.237† | 31360.5 | 26650.7 | 24.99 mg/L | 24.99 mg/L | 19:18:07 |
| 2 | Ni 231.604† | 22896.3 | 22498.2 | 0.5105 mg/L | 0.5105 mg/L | 19:18:07 |
| 2 | Pb 220.353† | 2979.4 | 2802.0 | 0.5118 mg/L | 0.5118 mg/L | 19:18:27 |
| 2 | Sb 206.836† | 1293.2 | 1149.8 | 0.5083 mg/L | 0.5083 mg/L | 19:18:27 |
| 2 | Se 196.026† | 213.4 | 299.2 | 1.020 mg/L | 1.020 mg/L | 19:18:27 |
| 2 | Sn 189.927† | 1150.6 | 1114.1 | 0.5224 mg/L | 0.5224 mg/L | 19:18:27 |
| 2 | Ti 337.279† | 319973.6 | 308435.5 | 0.5110 mg/L | 0.5110 mg/L | 19:18:02 |
| 2 | Tl 190.801† | 251.5 | 259.2 | 0.5215 mg/L | 0.5215 mg/L | 19:18:27 |
| 2 | V 292.402† | 105926.9 | 100052.9 | 0.5085 mg/L | 0.5085 mg/L | 19:18:07 |
| 2 | Zn 213.857† | 23995.2 | 23373.0 | 0.5076 mg/L | 0.5076 mg/L | 19:18:07 |

**Mean Data: 011130lcsw**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2879102.4 | | | | | | 40622.42 | 1.41% |
| Ag 328.068† | 52473.5 | 0.2524 | mg/L | 0.00295 | 0.2524 | mg/L | 0.00295 | 1.17% |
| Al 237.313† | 17504.6 | 2.505 | mg/L | 0.0143 | 2.505 | mg/L | 0.0143 | 0.57% |
| As 188.979† | 242.5 | 0.5092 | mg/L | 0.01188 | 0.5092 | mg/L | 0.01188 | 2.33% |
| B 182.528† | 258.9 | 0.5010 | mg/L | 0.01248 | 0.5010 | mg/L | 0.01248 | 2.49% |
| Ba 233.527† | 73421.3 | 0.5081 | mg/L | 0.00578 | 0.5081 | mg/L | 0.00578 | 1.14% |
| Be 313.107† | 265455.9 | 0.0505 | mg/L | 0.00061 | 0.0505 | mg/L | 0.00061 | 1.20% |
| Ca 315.886† | 763601.9 | 5.070 | mg/L | 0.0557 | 5.070 | mg/L | 0.0557 | 1.10% |
| Cd 228.802† | 13330.9 | 0.2511 | mg/L | 0.00274 | 0.2511 | mg/L | 0.00274 | 1.09% |
| Co 228.616† | 32901.1 | 0.5096 | mg/L | 0.00517 | 0.5096 | mg/L | 0.00517 | 1.01% |
| Cr 267.716† | 76575.8 | 0.5075 | mg/L | 0.00563 | 0.5075 | mg/L | 0.00563 | 1.11% |
| Cu 324.752† | 105800.8 | 0.5090 | mg/L | 0.00574 | 0.5090 | mg/L | 0.00574 | 1.13% |
| Fe 238.204† | 275073.6 | 2.538 | mg/L | 0.0273 | 2.538 | mg/L | 0.0273 | 1.07% |
| Mg 279.077† | 110558.0 | 5.076 | mg/L | 0.0580 | 5.076 | mg/L | 0.0580 | 1.14% |
| Mn 257.610† | 432321.5 | 0.5103 | mg/L | 0.00525 | 0.5103 | mg/L | 0.00525 | 1.03% |
| Mo 202.031† | 4554.0 | 0.5062 | mg/L | 0.01010 | 0.5062 | mg/L | 0.01010 | 1.99% |
| Na 330.237† | 26326.9 | 24.70 | mg/L | 0.419 | 24.70 | mg/L | 0.419 | 1.70% |
| Ni 231.604† | 22363.5 | 0.5075 | mg/L | 0.00432 | 0.5075 | mg/L | 0.00432 | 0.85% |
| Pb 220.353† | 2770.1 | 0.5060 | mg/L | 0.00822 | 0.5060 | mg/L | 0.00822 | 1.62% |
| Sb 206.836† | 1133.0 | 0.5009 | mg/L | 0.01053 | 0.5009 | mg/L | 0.01053 | 2.10% |
| Se 196.026† | 296.9 | 1.013 | mg/L | 0.0110 | 1.013 | mg/L | 0.0110 | 1.08% |
| Sn 189.927† | 1098.8 | 0.5152 | mg/L | 0.01015 | 0.5152 | mg/L | 0.01015 | 1.97% |
| Ti 337.279† | 306061.1 | 0.5071 | mg/L | 0.00556 | 0.5071 | mg/L | 0.00556 | 1.10% |
| Tl 190.801† | 254.3 | 0.5118 | mg/L | 0.01371 | 0.5118 | mg/L | 0.01371 | 2.68% |
| V 292.402† | 99245.8 | 0.5044 | mg/L | 0.00578 | 0.5044 | mg/L | 0.00578 | 1.15% |
| Zn 213.857† | 23179.8 | 0.5034 | mg/L | 0.00593 | 0.5034 | mg/L | 0.00593 | 1.18% |

Sequence No.: 17
Sample ID: 011130filtblk
Analyst:
Sample Wt:

Autosampler Location: 11
Date Collected: 11/30/01 7:20:08 PM

Sample Prep Volume:

Dilution: Data Type: Original

Replicate Data: 011130filtblk

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2852314.2 | 2852314.2 | | | | | 19:21:43 |
| 1 | Ag 328.068† | 2633.0 | 32.2 | 0.0005 | mg/L | 0.0005 | mg/L | 19:21:48 |
| 1 | Al 237.313† | -98.6 | 12.7 | 0.0108 | mg/L | 0.0108 | mg/L | 19:22:08 |
| 1 | As 188.979† | -6.9 | 1.6 | 0.0027 | mg/L | 0.0027 | mg/L | 19:22:08 |
| 1 | B 182.528† | -0.9 | 3.1 | 0.0045 | mg/L | 0.0045 | mg/L | 19:22:08 |
| 1 | Ba 233.527† | -80.3 | 22.7 | -0.0004 | mg/L | -0.0004 | mg/L | 19:22:08 |
| 1 | Be 313.107† | 6496.5 | -154.8 | 0.0002 | mg/L | 0.0002 | mg/L | 19:21:48 |
| 1 | Ca 315.886† | 15230.6 | 12680.9 | 0.0827 | mg/L | 0.0827 | mg/L | 19:21:48 |
| 1 | Cd 228.802† | 23.2 | -10.0 | 0.0000 | mg/L | 0.0000 | mg/L | 19:22:08 |
| 1 | Co 228.616† | -405.3 | 9.0 | -0.0006 | mg/L | -0.0006 | mg/L | 19:22:08 |
| 1 | Cr 267.716† | 1906.9 | 6.0 | 0.0003 | mg/L | 0.0003 | mg/L | 19:21:48 |
| 1 | Cu 324.752† | 784.2 | 182.6 | 0.0024 | mg/L | 0.0024 | mg/L | 19:21:48 |
| 1 | Fe 238.204† | 631.6 | 602.9 | 0.0078 | mg/L | 0.0078 | mg/L | 19:22:08 |
| 1 | Mg 279.077† | 329.1 | 206.7 | 0.0054 | mg/L | 0.0054 | mg/L | 19:21:48 |
| 1 | Mn 257.610† | 2657.8 | 760.3 | 0.0002 | mg/L | 0.0002 | mg/L | 19:21:48 |
| 1 | Mo 202.031† | -55.8 | 2.3 | 0.0007 | mg/L | 0.0007 | mg/L | 19:22:08 |
| 1 | Na 330.237† | 3941.1 | 86.4 | 0.6219 | mg/L | 0.6219 | mg/L | 19:21:48 |
| 1 | Ni 231.604† | -309.4 | 18.5 | 0.0004 | mg/L | 0.0004 | mg/L | 19:22:08 |
| 1 | Pb 220.353† | 76.6 | -10.1 | -0.0018 | mg/L | -0.0018 | mg/L | 19:22:08 |
| 1 | Sb 206.836† | 109.5 | 3.0 | 0.0031 | mg/L | 0.0031 | mg/L | 19:22:08 |
| 1 | Se 196.026† | -90.9 | 4.4 | 0.0115 | mg/L | 0.0115 | mg/L | 19:22:08 |
| 1 | Sn 189.927† | -4.4 | -4.9 | -0.0027 | mg/L | -0.0027 | mg/L | 19:22:08 |
| 1 | Ti 337.279† | 1843.4 | 255.6 | 0.0012 | mg/L | 0.0012 | mg/L | 19:21:48 |
| 1 | Tl 190.801† | -12.2 | 3.7 | 0.0098 | mg/L | 0.0098 | mg/L | 19:22:08 |
| 1 | V 292.402† | 2565.2 | -77.2 | 0.0012 | mg/L | 0.0012 | mg/L | 19:21:48 |
| 1 | Zn 213.857† | 250.8 | 371.1 | 0.0090 | mg/L | 0.0090 | mg/L | 19:22:08 |
| 2 | Y 360.073 | 2892382.1 | 2892382.1 | | | | | 19:22:14 |
| 2 | Ag 328.068† | 2621.3 | -14.3 | 0.0003 | mg/L | 0.0003 | mg/L | 19:22:19 |
| 2 | Al 237.313† | -81.6 | 30.2 | 0.0133 | mg/L | 0.0133 | mg/L | 19:22:39 |
| 2 | As 188.979† | -8.9 | -0.2 | -0.0012 | mg/L | -0.0012 | mg/L | 19:22:39 |
| 2 | B 182.528† | 2.7 | 6.5 | 0.0112 | mg/L | 0.0112 | mg/L | 19:22:39 |
| 2 | Ba 233.527† | -55.1 | 47.9 | -0.0002 | mg/L | -0.0002 | mg/L | 19:22:39 |
| 2 | Be 313.107† | 6496.2 | -242.2 | 0.0002 | mg/L | 0.0002 | mg/L | 19:22:19 |
| 2 | Ca 315.886† | 15439.7 | 12676.4 | 0.0827 | mg/L | 0.0827 | mg/L | 19:22:19 |
| 2 | Cd 228.802† | 36.0 | 1.9 | 0.0002 | mg/L | 0.0002 | mg/L | 19:22:39 |
| 2 | Co 228.616† | -415.0 | 5.2 | -0.0007 | mg/L | -0.0007 | mg/L | 19:22:39 |
| 2 | Cr 267.716† | 1958.2 | 29.4 | 0.0004 | mg/L | 0.0004 | mg/L | 19:22:19 |
| 2 | Cu 324.752† | 792.1 | 179.6 | 0.0024 | mg/L | 0.0024 | mg/L | 19:22:19 |
| 2 | Fe 238.204† | 577.4 | 542.7 | 0.0072 | mg/L | 0.0072 | mg/L | 19:22:39 |
| 2 | Mg 279.077† | 392.2 | 262.5 | 0.0080 | mg/L | 0.0080 | mg/L | 19:22:19 |
| 2 | Mn 257.610† | 2600.7 | 670.2 | 0.0001 | mg/L | 0.0001 | mg/L | 19:22:19 |
| 2 | Mo 202.031† | -58.2 | 0.8 | 0.0006 | mg/L | 0.0006 | mg/L | 19:22:39 |
| 2 | Na 330.237† | 3959.4 | 51.1 | 0.5896 | mg/L | 0.5896 | mg/L | 19:22:19 |
| 2 | Ni 231.604† | -323.1 | 9.6 | 0.0002 | mg/L | 0.0002 | mg/L | 19:22:39 |
| 2 | Pb 220.353† | 78.9 | -8.9 | -0.0016 | mg/L | -0.0016 | mg/L | 19:22:39 |
| 2 | Sb 206.836† | 107.0 | -0.8 | 0.0014 | mg/L | 0.0014 | mg/L | 19:22:39 |
| 2 | Se 196.026† | -91.1 | 5.4 | 0.0151 | mg/L | 0.0151 | mg/L | 19:22:39 |
| 2 | Sn 189.927† | -2.9 | -3.3 | -0.0020 | mg/L | -0.0020 | mg/L | 19:22:39 |
| 2 | Ti 337.279† | 1805.1 | 194.4 | 0.0011 | mg/L | 0.0011 | mg/L | 19:22:19 |
| 2 | Tl 190.801† | -9.5 | 6.4 | 0.0153 | mg/L | 0.0153 | mg/L | 19:22:39 |
| 2 | V 292.402† | 2528.6 | -146.5 | 0.0008 | mg/L | 0.0008 | mg/L | 19:22:19 |
| 2 | Zn 213.857† | 241.8 | 359.2 | 0.0087 | mg/L | 0.0087 | mg/L | 19:22:39 |

Mean Data: 011130filtblk

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2872348.1 | | | | | | 28332.30 | 0.99% |
| Ag 328.068† | 8.9 | 0.0004 | mg/L | 0.00016 | 0.0004 | mg/L | 0.00016 | 36.11% |
| Al 237.313† | 21.5 | 0.0121 | mg/L | 0.00179 | 0.0121 | mg/L | 0.00179 | 14.79% |
| As 188.979† | 0.7 | 0.0008 | mg/L | 0.00275 | 0.0008 | mg/L | 0.00275 | 356.94% |
| B 182.528† | 4.8 | 0.0079 | mg/L | 0.00467 | 0.0079 | mg/L | 0.00467 | 59.54% |
| Ba 233.527† | 35.3 | -0.0003 | mg/L | 0.00012 | -0.0003 | mg/L | 0.00012 | 38.88% |
| Be 313.107† | -198.5 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 6.49% |
| Ca 315.886† | 12678.6 | 0.0827 | mg/L | 0.00002 | 0.0827 | mg/L | 0.00002 | 0.03% |

| | | | | | | |
|---|---|---|---|---|---|---|
| Cd 228.802† | -4.0 | 0.0001 mg/L | 0.00018 | 0.0001 mg/L | 0.00018 | 162.57% |
| Co 228.616† | 7.1 | -0.0007 mg/L | 0.00004 | -0.0007 mg/L | 0.00004 | 6.44% |
| Cr 267.716† | 17.7 | 0.0003 mg/L | 0.00011 | 0.0003 mg/L | 0.00011 | 31.89% |
| Cu 324.752† | 181.1 | 0.0024 mg/L | 0.00001 | 0.0024 mg/L | 0.00001 | 0.43% |
| Fe 238.204† | 572.8 | 0.0075 mg/L | 0.00039 | 0.0075 mg/L | 0.00039 | 5.28% |
| Mg 279.077† | 234.6 | 0.0067 mg/L | 0.00181 | 0.0067 mg/L | 0.00181 | 27.13% |
| Mn 257.610† | 715.3 | 0.0001 mg/L | 0.00008 | 0.0001 mg/L | 0.00008 | 61.62% |
| Mo 202.031† | 1.6 | 0.0007 mg/L | 0.00012 | 0.0007 mg/L | 0.00012 | 18.44% |
| Na 330.237† | 68.8 | 0.6057 mg/L | 0.02284 | 0.6057 mg/L | 0.02284 | 3.77% |
| Ni 231.604† | 14.0 | 0.0003 mg/L | 0.00014 | 0.0003 mg/L | 0.00014 | 49.63% |
| Pb 220.353† | -9.5 | -0.0017 mg/L | 0.00016 | -0.0017 mg/L | 0.00016 | 8.97% |
| Sb 206.836† | 1.1 | 0.0023 mg/L | 0.00122 | 0.0023 mg/L | 0.00122 | 53.64% |
| Se 196.026† | 4.9 | 0.0133 mg/L | 0.00253 | 0.0133 mg/L | 0.00253 | 18.98% |
| Sn 189.927† | -4.1 | -0.0023 mg/L | 0.00050 | -0.0023 mg/L | 0.00050 | 21.65% |
| Ti 337.279† | 225.0 | 0.0011 mg/L | 0.00007 | 0.0011 mg/L | 0.00007 | 6.33% |
| Tl 190.801† | 5.1 | 0.0126 mg/L | 0.00385 | 0.0126 mg/L | 0.00385 | 30.66% |
| V 292.402† | -111.8 | 0.0010 mg/L | 0.00025 | 0.0010 mg/L | 0.00025 | 25.38% |
| Zn 213.857† | 365.2 | 0.0088 mg/L | 0.00018 | 0.0088 mg/L | 0.00018 | 2.07% |

**Sequence No.: 18** **Autosampler Location: 12**
**Sample ID: 01110397-18** **Date Collected: 11/30/01 7:24:21 PM**
**Analyst:**
**Sampl Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

**Replicate Data: 01110397-18**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Conc. | Calib. Units | Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2836744.9 | 2836744.9 | | | | | 19:25:58 |
| 1 | Ag 328.068† | 2683.4 | 95.1 | 0.0009 | mg/L | 0.0009 | mg/L | 19:26:03 |
| 1 | Al 237.313† | 51.0 | 157.7 | 0.0313 | mg/L | 0.0313 | mg/L | 19:26:23 |
| 1 | As 188.979† | -10.3 | -1.7 | -0.0043 | mg/L | -0.0043 | mg/L | 19:26:23 |
| 1 | B 182.528† | 65.8 | 68.0 | 0.1316 | mg/L | 0.1316 | mg/L | 19:26:23 |
| 1 | Ba 233.527† | -38.2 | 63.3 | -0.0001 | mg/L | -0.0001 | mg/L | 19:26:23 |
| 1 | Be 313.107† | 6609.9 | -9.8 | 0.0002 | mg/L | 0.0002 | mg/L | 19:26:03 |
| 1 | Ca 315.886† | 18107.8 | 15562.5 | 0.1019 | mg/L | 0.1019 | mg/L | 19:26:03 |
| 1 | Cd 228.802† | 21.5 | -11.6 | 0.0000 | mg/L | 0.0000 | mg/L | 19:26:23 |
| 1 | Co 228.616† | -431.0 | -18.2 | -0.0011 | mg/L | -0.0011 | mg/L | 19:26:23 |
| 1 | Cr 267.716† | 1979.5 | 86.8 | 0.0008 | mg/L | 0.0008 | mg/L | 19:26:03 |
| 1 | Cu 324.752† | 739.3 | 143.1 | 0.0022 | mg/L | 0.0022 | mg/L | 19:26:03 |
| 1 | Fe 238.204† | 4683.9 | 4550.7 | 0.0442 | mg/L | 0.0442 | mg/L | 19:26:03 |
| 1 | Mg 279.077† | 377.8 | 255.9 | 0.0076 | mg/L | 0.0076 | mg/L | 19:26:03 |
| 1 | Mn 257.610† | 4470.0 | 2538.4 | 0.0023 | mg/L | 0.0023 | mg/L | 19:26:03 |
| 1 | Mo 202.031† | -58.1 | -0.2 | 0.0005 | mg/L | 0.0005 | mg/L | 19:26:23 |
| 1 | Na 330.237† | 4138.9 | 299.9 | 0.8256 | mg/L | 0.8256 | mg/L | 19:26:03 |
| 1 | Ni 231.604† | -290.3 | 35.5 | 0.0008 | mg/L | 0.0008 | mg/L | 19:26:23 |
| 1 | Pb 220.353† | 83.5 | -3.0 | -0.0005 | mg/L | -0.0005 | mg/L | 19:26:23 |
| 1 | Sb 206.836† | 101.3 | -4.4 | -0.0002 | mg/L | -0.0002 | mg/L | 19:26:23 |
| 1 | Se 196.026† | -90.2 | 4.6 | 0.0123 | mg/L | 0.0123 | mg/L | 19:26:23 |
| 1 | Sn 189.927† | -7.1 | -7.5 | -0.0039 | mg/L | -0.0039 | mg/L | 19:26:23 |
| 1 | Ti 337.279† | 2118.5 | 533.2 | 0.0016 | mg/L | 0.0016 | mg/L | 19:26:03 |
| 1 | Tl 190.801† | -10.1 | 5.6 | 0.0137 | mg/L | 0.0137 | mg/L | 19:26:23 |
| 1 | V 292.402† | 2651.2 | 20.2 | 0.0016 | mg/L | 0.0016 | mg/L | 19:26:03 |
| 1 | Zn 213.857† | 1695.3 | 1778.5 | 0.0397 | mg/L | 0.0397 | mg/L | 19:26:23 |
| 2 | Y 360.073 | 2871767.3 | 2871767.3 | | | | | 19:26:29 |
| 2 | Ag 328.068† | 2588.9 | -27.5 | 0.0003 | mg/L | 0.0003 | mg/L | 19:26:35 |
| 2 | Al 237.313† | 40.0 | 146.6 | 0.0297 | mg/L | 0.0297 | mg/L | 19:26:55 |
| 2 | As 188.979† | -9.8 | -1.1 | -0.0030 | mg/L | -0.0030 | mg/L | 19:26:55 |
| 2 | B 182.528† | 63.4 | 64.9 | 0.1254 | mg/L | 0.1254 | mg/L | 19:26:55 |
| 2 | Ba 233.527† | -60.7 | 42.1 | -0.0003 | mg/L | -0.0003 | mg/L | 19:26:55 |
| 2 | Be 313.107† | 6570.4 | -126.3 | 0.0002 | mg/L | 0.0002 | mg/L | 19:26:35 |
| 2 | Ca 315.886† | 18321.5 | 15553.0 | 0.1018 | mg/L | 0.1018 | mg/L | 19:26:35 |
| 2 | Cd 228.802† | 28.5 | -5.0 | 0.0001 | mg/L | 0.0001 | mg/L | 19:26:55 |
| 2 | Co 228.616† | -422.0 | -4.5 | -0.0008 | mg/L | -0.0008 | mg/L | 19:26:55 |
| 2 | Cr 267.716† | 1953.7 | 38.5 | 0.0005 | mg/L | 0.0005 | mg/L | 19:26:35 |
| 2 | Cu 324.752† | 803.3 | 195.8 | 0.0024 | mg/L | 0.0024 | mg/L | 19:26:35 |
| 2 | Fe 238.204† | 4714.7 | 4524.7 | 0.0440 | mg/L | 0.0440 | mg/L | 19:26:35 |
| 2 | Mg 279.077† | 351.2 | 225.9 | 0.0062 | mg/L | 0.0062 | mg/L | 19:26:35 |
| 2 | Mn 257.610† | 4373.2 | 2392.3 | 0.0021 | mg/L | 0.0021 | mg/L | 19:26:35 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Mo 202.031† | -57.5 | 1.1 | 0.0006 mg/L | 0.0006 mg/L | 19:26:55 |
| 2 | Na 330.237† | 4003.2 | 120.3 | 0.6618 mg/L | 0.6618 mg/L | 19:26:35 |
| 2 | Ni 231.604† | -317.4 | 12.9 | 0.0003 mg/L | 0.0003 mg/L | 19:26:55 |
| 2 | Pb 220.353† | 87.9 | 0.2 | 0.0000 mg/L | 0.0000 mg/L | 19:26:55 |
| 2 | Sb 206.836† | 111.6 | 4.4 | 0.0037 mg/L | 0.0037 mg/L | 19:26:55 |
| 2 | Se 196.026† | -93.6 | 2.4 | 0.0047 mg/L | 0.0047 mg/L | 19:26:55 |
| 2 | Sn 189.927† | -4.8 | -5.2 | -0.0029 mg/L | -0.0029 mg/L | 19:26:55 |
| 2 | Ti 337.279† | 2032.6 | 425.5 | 0.0015 mg/L | 0.0015 mg/L | 19:26:35 |
| 2 | Tl 190.801† | -15.5 | 0.6 | 0.0038 mg/L | 0.0038 mg/L | 19:26:55 |
| 2 | V 292.402† | 2575.9 | -83.7 | 0.0011 mg/L | 0.0011 mg/L | 19:26:35 |
| 2 | Zn 213.857† | 1684.8 | 1748.3 | 0.0390 mg/L | 0.0390 mg/L | 19:26:55 |

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Mean Data: 01110397-18

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2854256.1 | | | | | | 24764.61 | 0.87% |
| Ag 328.068† | 33.8 | 0.0006 | mg/L | 0.00042 | 0.0006 | mg/L | 0.00042 | 74.80% |
| Al 237.313† | 152.2 | 0.0305 | mg/L | 0.00113 | 0.0305 | mg/L | 0.00113 | 3.72% |
| As 188.979† | -1.4 | -0.0036 | mg/L | 0.00094 | -0.0036 | mg/L | 0.00094 | 25.91% |
| B 182.528† | 66.5 | 0.1285 | mg/L | 0.00438 | 0.1285 | mg/L | 0.00438 | 3.41% |
| Ba 233.527† | 52.7 | -0.0002 | mg/L | 0.00010 | -0.0002 | mg/L | 0.00010 | 52.40% |
| Be 313.107† | -68.1 | 0.0002 | mg/L | 0.00002 | 0.0002 | mg/L | 0.00002 | 7.62% |
| Ca 315.886† | 15557.8 | 0.1018 | mg/L | 0.00005 | 0.1018 | mg/L | 0.00005 | 0.04% |
| Cd 228.802† | -8.3 | 0.0001 | mg/L | 0.00008 | 0.0001 | mg/L | 0.00008 | 146.35% |
| Co 228.616† | -11.3 | -0.0009 | mg/L | 0.00015 | -0.0009 | mg/L | 0.00015 | 16.00% |
| Cr 267.716† | 62.7 | 0.0006 | mg/L | 0.00023 | 0.0006 | mg/L | 0.00023 | 35.28% |
| Cu 324.752† | 169.5 | 0.0023 | mg/L | 0.00018 | 0.0023 | mg/L | 0.00018 | 7.73% |
| Fe 238.204† | 4537.7 | 0.0441 | mg/L | 0.00017 | 0.0441 | mg/L | 0.00017 | 0.38% |
| Mg 279.077† | 240.9 | 0.0069 | mg/L | 0.00097 | 0.0069 | mg/L | 0.00097 | 14.08% |
| Mn 257.610† | 2465.4 | 0.0022 | mg/L | 0.00012 | 0.0022 | mg/L | 0.00012 | 5.58% |
| Mo 202.031† | 0.5 | 0.0005 | mg/L | 0.00010 | 0.0005 | mg/L | 0.00010 | 19.87% |
| Na 330.237† | 210.1 | 0.7437 | mg/L | 0.11584 | 0.7437 | mg/L | 0.11584 | 15.58% |
| Ni 231.604† | 24.2 | 0.0005 | mg/L | 0.00036 | 0.0005 | mg/L | 0.00036 | 69.67% |
| Pb 220.353† | -1.4 | -0.0003 | mg/L | 0.00041 | -0.0003 | mg/L | 0.00041 | 160.04% |
| Sb 206.836† | -0.0 | 0.0018 | mg/L | 0.00274 | 0.0018 | mg/L | 0.00274 | 154.65% |
| Se 196.026† | 3.5 | 0.0085 | mg/L | 0.00539 | 0.0085 | mg/L | 0.00539 | 63.13% |
| Sn 189.927† | -6.4 | -0.0034 | mg/L | 0.00074 | -0.0034 | mg/L | 0.00074 | 21.98% |
| Ti 337.279† | 479.3 | 0.0016 | mg/L | 0.00013 | 0.0016 | mg/L | 0.00013 | 8.11% |
| Tl 190.801† | 3.1 | 0.0088 | mg/L | 0.00702 | 0.0088 | mg/L | 0.00702 | 79.87% |
| V 292.402† | -31.8 | 0.0014 | mg/L | 0.00037 | 0.0014 | mg/L | 0.00037 | 27.19% |
| Zn 213.857† | 1763.4 | 0.0394 | mg/L | 0.00046 | 0.0394 | mg/L | 0.00046 | 1.18% |

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Sequenc No.: 19
Sample ID: 01110397-18dup
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/30/01 7:28:38 PM
Sample Prep Volume:
Data Type: Original

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Replicate Data: 01110397-18dup

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2891906.8 | 2891906.8 | | | | | 19:30:14 |
| 1 | Ag 328.068† | 2645.5 | 9.1 | 0.0004 | mg/L | 0.0004 | mg/L | 19:30:19 |
| 1 | Al 237.313† | 22.4 | 129.5 | 0.0274 | mg/L | 0.0274 | mg/L | 19:30:40 |
| 1 | As 188.979† | -8.1 | 0.6 | 0.0005 | mg/L | 0.0005 | mg/L | 19:30:40 |
| 1 | B 182.528† | 59.3 | 60.6 | 0.1170 | mg/L | 0.1170 | mg/L | 19:30:40 |
| 1 | Ba 233.527† | -44.8 | 57.7 | -0.0002 | mg/L | -0.0002 | mg/L | 19:30:40 |
| 1 | Be 313.107† | 6564.0 | -176.4 | 0.0002 | mg/L | 0.0002 | mg/L | 19:30:19 |
| 1 | Ca 315.886† | 18240.2 | 15352.7 | 0.1005 | mg/L | 0.1005 | mg/L | 19:30:19 |
| 1 | Cd 228.802† | 29.1 | -4.7 | 0.0001 | mg/L | 0.0001 | mg/L | 19:30:40 |
| 1 | Co 228.616† | -410.5 | 9.4 | -0.0006 | mg/L | -0.0006 | mg/L | 19:30:40 |
| 1 | Cr 267.716† | 1918.5 | -8.2 | 0.0002 | mg/L | 0.0002 | mg/L | 19:30:19 |
| 1 | Cu 324.752† | 780.2 | 168.4 | 0.0023 | mg/L | 0.0023 | mg/L | 19:30:19 |
| 1 | Fe 238.204† | 3212.1 | 3058.4 | 0.0304 | mg/L | 0.0304 | mg/L | 19:30:19 |
| 1 | Mg 279.077† | 392.5 | 262.9 | 0.0080 | mg/L | 0.0080 | mg/L | 19:30:19 |
| 1 | Mn 257.610† | 4118.6 | 2119.9 | 0.0018 | mg/L | 0.0018 | mg/L | 19:30:19 |
| 1 | Mo 202.031† | -41.1 | 17.1 | 0.0024 | mg/L | 0.0024 | mg/L | 19:30:40 |
| 1 | Na 330.237† | 4258.3 | 337.0 | 0.8592 | mg/L | 0.8592 | mg/L | 19:30:19 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Ni 231.604† | -287.8 | 43.3 | 0.0010 mg/L | 0.0010 mg/L | 19:30:40 |
| 1 | Pb 220.353† | 78.5 | -9.3 | -0.0017 mg/L | -0.0017 mg/L | 19:30:40 |
| 1 | Sb 206.836† | 98.7 | -8.7 | -0.0021 mg/L | -0.0021 mg/L | 19:30:40 |
| 1 | Se 196.026† | -93.4 | 3.3 | 0.0077 mg/L | 0.0077 mg/L | 19:30:40 |
| 1 | Sn 189.927† | -1.8 | -2.3 | -0.0015 mg/L | -0.0015 mg/L | 19:30:40 |
| 1 | Ti 337.279† | 1999.3 | 380.1 | 0.0014 mg/L | 0.0014 mg/L | 19:30:19 |
| 1 | Tl 190.801† | -13.2 | 2.9 | 0.0083 mg/L | 0.0083 mg/L | 19:30:40 |
| 1 | V 292.402† | 2569.5 | -107.0 | 0.0010 mg/L | 0.0010 mg/L | 19:30:19 |
| 1 | Zn 213.857† | 1680.2 | 1732.6 | 0.0387 mg/L | 0.0387 mg/L | 19:30:40 |
| 2 | Y 360.073 | 2907240.2 | 2907240.2 | | | 19:30:46 |
| 2 | Ag 328.068† | 2710.2 | 57.3 | 0.0007 mg/L | 0.0007 mg/L | 19:30:51 |
| 2 | Al 237.313† | 3.8 | 111.7 | 0.0248 mg/L | 0.0248 mg/L | 19:31:11 |
| 2 | As 188.979† | -9.3 | -0.5 | -0.0018 mg/L | -0.0018 mg/L | 19:31:11 |
| 2 | B 182.528† | 63.1 | 63.9 | 0.1234 mg/L | 0.1234 mg/L | 19:31:11 |
| 2 | Ba 233.527† | -36.4 | 65.8 | -0.0001 mg/L | -0.0001 mg/L | 19:31:11 |
| 2 | Be 313.107† | 6644.7 | -132.8 | 0.0002 mg/L | 0.0002 mg/L | 19:30:51 |
| 2 | Ca 315.886† | 17997.5 | 15030.4 | 0.0983 mg/L | 0.0983 mg/L | 19:30:51 |
| 2 | Cd 228.802† | 31.0 | -3.0 | 0.0001 mg/L | 0.0001 mg/L | 19:31:11 |
| 2 | Co 228.616† | -428.5 | -5.6 | -0.0009 mg/L | -0.0009 mg/L | 19:31:11 |
| 2 | Cr 267.716† | 1963.7 | 25.0 | 0.0004 mg/L | 0.0004 mg/L | 19:30:51 |
| 2 | Cu 324.752† | 726.6 | 113.6 | 0.0020 mg/L | 0.0020 mg/L | 19:30:51 |
| 2 | Fe 238.204† | 3137.7 | 2971.6 | 0.0296 mg/L | 0.0296 mg/L | 19:30:51 |
| 2 | Mg 279.077† | 316.9 | 189.2 | 0.0046 mg/L | 0.0046 mg/L | 19:30:51 |
| 2 | Mn 257.610† | 4083.9 | 2066.2 | 0.0017 mg/L | 0.0017 mg/L | 19:30:51 |
| 2 | Mo 202.031† | -59.3 | 0.0 | 0.0005 mg/L | 0.0005 mg/L | 19:31:11 |
| 2 | Na 330.237† | 4087.7 | 153.6 | 0.6920 mg/L | 0.6920 mg/L | 19:30:51 |
| 2 | Ni 231.604† | -322.9 | 11.3 | 0.0002 mg/L | 0.0002 mg/L | 19:31:11 |
| 2 | Pb 220.353† | 83.3 | -5.1 | -0.0009 mg/L | -0.0009 mg/L | 19:31:11 |
| 2 | Sb 206.836† | 105.4 | -2.8 | 0.0005 mg/L | 0.0005 mg/L | 19:31:11 |
| 2 | Se 196.026† | -90.6 | 6.4 | 0.0183 mg/L | 0.0183 mg/L | 19:31:11 |
| 2 | Sn 189.927† | -1.6 | -2.1 | -0.0014 mg/L | -0.0014 mg/L | 19:31:11 |
| 2 | Ti 337.279† | 2003.6 | 374.1 | 0.0014 mg/L | 0.0014 mg/L | 19:30:51 |
| 2 | Tl 190.801† | -11.5 | 4.6 | 0.0117 mg/L | 0.0117 mg/L | 19:31:11 |
| 2 | V 292.402† | 2632.2 | -60.4 | 0.0012 mg/L | 0.0012 mg/L | 19:30:51 |
| 2 | Zn 213.857† | 1685.4 | 1729.1 | 0.0386 mg/L | 0.0386 mg/L | 19:31:11 |

**Mean Data: 01110397-18dup**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2899573.5 | | | | | | 10842.31 | 0.37% |
| Ag 328.068† | 33.2 | 0.0006 | mg/L | 0.00016 | 0.0006 | mg/L | 0.00016 | 29.47% |
| Al 237.313† | 120.6 | 0.0261 | mg/L | 0.00180 | 0.0261 | mg/L | 0.00180 | 6.90% |
| As 188.979† | 0.0 | -0.0007 | mg/L | 0.00167 | -0.0007 | mg/L | 0.00167 | 249.87% |
| B 182.528† | 62.2 | 0.1202 | mg/L | 0.00455 | 0.1202 | mg/L | 0.00455 | 3.79% |
| Ba 233.527† | 61.8 | -0.0001 | mg/L | 0.00004 | -0.0001 | mg/L | 0.00004 | 29.60% |
| Be 313.107† | -154.6 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 3.10% |
| Ca 315.886† | 15191.5 | 0.0994 | mg/L | 0.00151 | 0.0994 | mg/L | 0.00151 | 1.52% |
| Cd 228.802† | -3.8 | 0.0001 | mg/L | 0.00003 | 0.0001 | mg/L | 0.00003 | 26.82% |
| Co 228.616† | 1.9 | -0.0007 | mg/L | 0.00016 | -0.0007 | mg/L | 0.00016 | 22.34% |
| Cr 267.716† | 8.4 | 0.0003 | mg/L | 0.00016 | 0.0003 | mg/L | 0.00016 | 55.04% |
| Cu 324.752† | 141.0 | 0.0022 | mg/L | 0.00019 | 0.0022 | mg/L | 0.00019 | 8.52% |
| Fe 238.204† | 3015.0 | 0.0300 | mg/L | 0.00056 | 0.0300 | mg/L | 0.00056 | 1.88% |
| Mg 279.077† | 226.0 | 0.0063 | mg/L | 0.00240 | 0.0063 | mg/L | 0.00240 | 38.30% |
| Mn 257.610† | 2093.1 | 0.0018 | mg/L | 0.00004 | 0.0018 | mg/L | 0.00004 | 2.52% |
| Mo 202.031† | 8.6 | 0.0014 | mg/L | 0.00134 | 0.0014 | mg/L | 0.00134 | 93.87% |
| Na 330.237† | 245.3 | 0.7756 | mg/L | 0.11821 | 0.7756 | mg/L | 0.11821 | 15.24% |
| Ni 231.604† | 27.3 | 0.0006 | mg/L | 0.00051 | 0.0006 | mg/L | 0.00051 | 86.72% |
| Pb 220.353† | -7.2 | -0.0013 | mg/L | 0.00054 | -0.0013 | mg/L | 0.00054 | 40.81% |
| Sb 206.836† | -5.8 | -0.0008 | mg/L | 0.00186 | -0.0008 | mg/L | 0.00186 | 239.96% |
| Se 196.026† | 4.8 | 0.0130 | mg/L | 0.00749 | 0.0130 | mg/L | 0.00749 | 57.49% |
| Sn 189.927† | -2.2 | -0.0014 | mg/L | 0.00006 | -0.0014 | mg/L | 0.00006 | 4.14% |
| Ti 337.279† | 377.1 | 0.0014 | mg/L | 0.00001 | 0.0014 | mg/L | 0.00001 | 0.53% |
| Tl 190.801† | 3.8 | 0.0100 | mg/L | 0.00237 | 0.0100 | mg/L | 0.00237 | 23.65% |
| V 292.402† | -83.7 | 0.0011 | mg/L | 0.00017 | 0.0011 | mg/L | 0.00017 | 15.11% |
| Zn 213.857† | 1730.8 | 0.0386 | mg/L | 0.00005 | 0.0386 | mg/L | 0.00005 | 0.13% |

**Duplicate Check: 01110397-18dup**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Difference (%) |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Y 360.073 | | | 0.000 | mg/L | Not calculated |
| Ag 328.068 | 0.0006 | 0.0006 | 0.000 | mg/L | 0.5 |
| Al 237.313 | 0.0305 | 0.0261 | 0.002 | mg/L | 15.6 |
| As 188.979 | -0.0036 | -0.0007 | 0.002 | mg/L | -137.8 |
| B 182.528 | 0.1285 | 0.1202 | 0.005 | mg/L | 6.7 |
| Ba 233.527 | -0.0002 | -0.0001 | 0.000 | mg/L | -38.1 |
| Be 313.107 | 0.0002 | 0.0002 | 0.000 | mg/L | 8.3 |
| Ca 315.886 | 0.1018 | 0.0994 | 0.002 | mg/L | 2.4 |
| Cd 228.802 | 0.0001 | 0.0001 | 0.000 | mg/L | 74.5 |
| Co 228.616 | -0.0009 | -0.0007 | 0.000 | mg/L | -24.4 |
| Cr 267.716 | 0.0006 | 0.0003 | 0.000 | mg/L | 77.6 |
| Cu 324.752 | 0.0023 | 0.0022 | 0.000 | mg/L | 6.1 |
| Fe 238.204 | 0.0441 | 0.0300 | 0.001 | mg/L | 37.9 |
| Mg 279.077 | 0.0069 | 0.0063 | 0.002 | mg/L | 10.1 |
| Mn 257.610 | 0.0022 | 0.0018 | 0.000 | mg/L | 22.4 |
| Mo 202.031 | 0.0005 | 0.0014 | 0.001 | mg/L | 92.3 |
| Na 330.237 | 0.7437 | 0.7756 | 0.118 | mg/L | 4.2 |
| Ni 231.604 | 0.0005 | 0.0006 | 0.001 | mg/L | 12.7 |
| Pb 220.353 | -0.0003 | -0.0013 | 0.001 | mg/L | -135.0 |
| Sb 206.836 | 0.0018 | -0.0008 | 0.002 | mg/L | 510.3 |
| Se 196.026 | 0.0085 | 0.0130 | 0.007 | mg/L | 41.7 |
| Sn 189.927 | -0.0034 | -0.0014 | 0.000 | mg/L | -80.9 |
| Ti 337.279 | 0.0016 | 0.0014 | 0.000 | mg/L | 11.5 |
| Tl 190.801 | 0.0088 | 0.0100 | 0.002 | mg/L | 13.2 |
| V 292.402 | 0.0014 | 0.0011 | 0.000 | mg/L | 21.2 |
| Zn 213.857 | 0.0394 | 0.0386 | 0.000 | mg/L | 1.8 |

**Sequence No.:** 20
**Sample ID:** 01110397-18ms
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 14
**Date Collected:** 11/30/01 7:32:58 PM
**Sample Prep Volume:**
**Data Type:** Original

**Replicate Data:** 01110397-18ms

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2825112.3 | 2825112.3 | | | | | 19:34:35 |
| 1 | Ag 328.068† | 55286.7 | 51519.5 | 0.2478 | mg/L | 0.2478 | mg/L | 19:34:40 |
| 1 | Al 237.313† | 17518.6 | 17230.5 | 2.466 | mg/L | 2.466 | mg/L | 19:34:40 |
| 1 | As 188.979† | 234.8 | 237.8 | 0.4994 | mg/L | 0.4994 | mg/L | 19:35:01 |
| 1 | B 182.528† | 320.5 | 317.2 | 0.6150 | mg/L | 0.6150 | mg/L | 19:35:01 |
| 1 | Ba 233.527† | 75010.5 | 73414.4 | 0.5080 | mg/L | 0.5080 | mg/L | 19:34:40 |
| 1 | Be 313.107† | 273370.8 | 260744.0 | 0.0496 | mg/L | 0.0496 | mg/L | 19:34:35 |
| 1 | Ca 315.886† | 789028.3 | 769119.1 | 5.107 | mg/L | 5.107 | mg/L | 19:34:35 |
| 1 | Cd 228.802† | 13388.2 | 13053.0 | 0.2458 | mg/L | 0.2458 | mg/L | 19:34:40 |
| 1 | Co 228.616† | 32888.0 | 32545.4 | 0.5041 | mg/L | 0.5041 | mg/L | 19:34:40 |
| 1 | Cr 267.716† | 79158.9 | 75528.5 | 0.5006 | mg/L | 0.5006 | mg/L | 19:34:40 |
| 1 | Cu 324.752† | 106067.3 | 103091.7 | 0.4961 | mg/L | 0.4961 | mg/L | 19:34:40 |
| 1 | Fe 238.204† | 281106.9 | 274740.4 | 2.535 | mg/L | 2.535 | mg/L | 19:34:40 |
| 1 | Mg 279.077† | 113051.8 | 110382.9 | 5.068 | mg/L | 5.068 | mg/L | 19:34:40 |
| 1 | Mn 257.610† | 446041.2 | 434140.2 | 0.5125 | mg/L | 0.5125 | mg/L | 19:34:35 |
| 1 | Mo 202.031† | 4534.9 | 4488.7 | 0.4990 | mg/L | 0.4990 | mg/L | 19:35:01 |
| 1 | Na 330.237† | 30470.7 | 26052.8 | 24.45 | mg/L | 24.45 | mg/L | 19:34:40 |
| 1 | Ni 231.604† | 22309.2 | 22122.7 | 0.5020 | mg/L | 0.5020 | mg/L | 19:34:40 |
| 1 | Pb 220.353† | 2891.6 | 2741.9 | 0.5009 | mg/L | 0.5009 | mg/L | 19:35:01 |
| 1 | Sb 206.836† | 1251.6 | 1120.3 | 0.4953 | mg/L | 0.4953 | mg/L | 19:35:01 |
| 1 | Se 196.026† | 207.0 | 294.7 | 1.005 | mg/L | 1.005 | mg/L | 19:35:01 |
| 1 | Sn 189.927† | 1130.7 | 1104.5 | 0.5179 | mg/L | 0.5179 | mg/L | 19:35:01 |
| 1 | Ti 337.279† | 310463.1 | 301912.2 | 0.5002 | mg/L | 0.5002 | mg/L | 19:34:35 |
| 1 | Tl 190.801† | 231.3 | 241.6 | 0.4868 | mg/L | 0.4868 | mg/L | 19:35:01 |
| 1 | V 292.402† | 102047.0 | 97178.5 | 0.4939 | mg/L | 0.4939 | mg/L | 19:34:40 |
| 1 | Zn 213.857† | 24706.8 | 24276.3 | 0.5274 | mg/L | 0.5274 | mg/L | 19:34:40 |
| 2 | Y 360.073 | 2823068.8 | 2823068.8 | | | | | 19:35:08 |
| 2 | Ag 328.068† | 55879.8 | 52138.6 | 0.2508 | mg/L | 0.2508 | mg/L | 19:35:13 |
| 2 | Al 237.313† | 17684.5 | 17405.1 | 2.491 | mg/L | 2.491 | mg/L | 19:35:13 |
| 2 | As 188.979† | 234.1 | 237.3 | 0.4984 | mg/L | 0.4984 | mg/L | 19:35:33 |
| 2 | B 182.528† | 318.0 | 315.0 | 0.6107 | mg/L | 0.6107 | mg/L | 19:35:33 |
| 2 | Ba 233.527† | 75799.2 | 74238.9 | 0.5138 | mg/L | 0.5138 | mg/L | 19:35:13 |
| 2 | Be 313.107† | 274865.1 | 262399.0 | 0.0499 | mg/L | 0.0499 | mg/L | 19:35:08 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Ca 315.886† | 791822.1 | 772409.9 | 5.129 mg/L | 5.129 mg/L | 19:35:08 |
| 2 | Cd 228.802† | 13541.4 | 13212.2 | 0.2489 mg/L | 0.2489 mg/L | 19:35:13 |
| 2 | Co 228.616† | 33235.6 | 32908.8 | 0.5097 mg/L | 0.5097 mg/L | 19:35:13 |
| 2 | Cr 267.716† | 79930.4 | 76339.1 | 0.5060 mg/L | 0.5060 mg/L | 19:35:13 |
| 2 | Cu 324.752† | 107617.8 | 104683.3 | 0.5037 mg/L | 0.5037 mg/L | 19:35:13 |
| 2 | Fe 238.204† | 283971.5 | 277741.1 | 2.563 mg/L | 2.563 mg/L | 19:35:13 |
| 2 | Mg 279.077† | 114219.7 | 111605.3 | 5.125 mg/L | 5.125 mg/L | 19:35:13 |
| 2 | Mn 257.610† | 447349.4 | 435735.3 | 0.5144 mg/L | 0.5144 mg/L | 19:35:08 |
| 2 | Mo 202.031† | 4531.1 | 4488.2 | 0.4989 mg/L | 0.4989 mg/L | 19:35:33 |
| 2 | Na 330.237† | 30731.7 | 26329.6 | 24.71 mg/L | 24.71 mg/L | 19:35:13 |
| 2 | Ni 231.604† | 22522.3 | 22346.9 | 0.5071 mg/L | 0.5071 mg/L | 19:35:13 |
| 2 | Pb 220.353† | 2900.6 | 2752.7 | 0.5028 mg/L | 0.5028 mg/L | 19:35:33 |
| 2 | Sb 206.836† | 1264.3 | 1133.7 | 0.5012 mg/L | 0.5012 mg/L | 19:35:33 |
| 2 | Se 196.026† | 206.5 | 294.4 | 1.004 mg/L | 1.004 mg/L | 19:35:33 |
| 2 | Sn 189.927† | 1129.2 | 1103.8 | 0.5176 mg/L | 0.5176 mg/L | 19:35:33 |
| 2 | Ti 337.279† | 311120.9 | 302775.3 | 0.5017 mg/L | 0.5017 mg/L | 19:35:08 |
| 2 | Tl 190.801† | 236.8 | 247.1 | 0.4976 mg/L | 0.4976 mg/L | 19:35:33 |
| 2 | V 292.402† | 103023.6 | 98205.9 | 0.4991 mg/L | 0.4991 mg/L | 19:35:13 |
| 2 | Zn 213.857† | 24968.9 | 24550.2 | 0.5333 mg/L | 0.5333 mg/L | 19:35:13 |

**Mean Data: 01110397-18ms**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2824090.5 | | | | | | 1444.97 | 0.05% |
| Ag 328.068† | 51829.1 | 0.2493 | mg/L | 0.00210 | 0.2493 | mg/L | 0.00210 | 0.84% |
| Al 237.313† | 17317.8 | 2.478 | mg/L | 0.0176 | 2.478 | mg/L | 0.0176 | 0.71% |
| As 188.979† | 237.5 | 0.4989 | mg/L | 0.00068 | 0.4989 | mg/L | 0.00068 | 0.14% |
| B 182.528† | 316.1 | 0.6128 | mg/L | 0.00303 | 0.6128 | mg/L | 0.00303 | 0.49% |
| Ba 233.527† | 73826.6 | 0.5109 | mg/L | 0.00404 | 0.5109 | mg/L | 0.00404 | 0.79% |
| Be 313.107† | 261571.5 | 0.0497 | mg/L | 0.00022 | 0.0497 | mg/L | 0.00022 | 0.45% |
| Ca 315.886† | 770764.5 | 5.118 | mg/L | 0.0154 | 5.118 | mg/L | 0.0154 | 0.30% |
| Cd 228.802† | 13132.6 | 0.2474 | mg/L | 0.00215 | 0.2474 | mg/L | 0.00215 | 0.87% |
| Co 228.616† | 32727.1 | 0.5069 | mg/L | 0.00399 | 0.5069 | mg/L | 0.00399 | 0.79% |
| Cr 267.716† | 75933.8 | 0.5033 | mg/L | 0.00380 | 0.5033 | mg/L | 0.00380 | 0.75% |
| Cu 324.752† | 103887.5 | 0.4999 | mg/L | 0.00540 | 0.4999 | mg/L | 0.00540 | 1.08% |
| Fe 238.204† | 276240.8 | 2.549 | mg/L | 0.0196 | 2.549 | mg/L | 0.0196 | 0.77% |
| Mg 279.077† | 110994.1 | 5.096 | mg/L | 0.0397 | 5.096 | mg/L | 0.0397 | 0.78% |
| Mn 257.610† | 434937.7 | 0.5134 | mg/L | 0.00133 | 0.5134 | mg/L | 0.00133 | 0.26% |
| Mo 202.031† | 4488.5 | 0.4990 | mg/L | 0.00004 | 0.4990 | mg/L | 0.00004 | 0.01% |
| Na 330.237† | 26191.2 | 24.58 | mg/L | 0.180 | 24.58 | mg/L | 0.180 | 0.73% |
| Ni 231.604† | 22234.8 | 0.5046 | mg/L | 0.00360 | 0.5046 | mg/L | 0.00360 | 0.71% |
| Pb 220.353† | 2747.3 | 0.5019 | mg/L | 0.00140 | 0.5019 | mg/L | 0.00140 | 0.28% |
| Sb 206.836† | 1127.0 | 0.4982 | mg/L | 0.00417 | 0.4982 | mg/L | 0.00417 | 0.84% |
| Se 196.026† | 294.6 | 1.005 | mg/L | 0.0006 | 1.005 | mg/L | 0.0006 | 0.06% |
| Sn 189.927† | 1104.2 | 0.5178 | mg/L | 0.00021 | 0.5178 | mg/L | 0.00021 | 0.04% |
| Ti 337.279† | 302343.8 | 0.5010 | mg/L | 0.00101 | 0.5010 | mg/L | 0.00101 | 0.20% |
| Tl 190.801† | 244.4 | 0.4922 | mg/L | 0.00765 | 0.4922 | mg/L | 0.00765 | 1.55% |
| V 292.402† | 97692.2 | 0.4965 | mg/L | 0.00368 | 0.4965 | mg/L | 0.00368 | 0.74% |
| Zn 213.857† | 24413.2 | 0.5303 | mg/L | 0.00420 | 0.5303 | mg/L | 0.00420 | 0.79% |

**Recovery Check: 01110397-18ms**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Recovery (%) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2506 | 0.2493 | 0.002 | mg/L | 99.5 |
| Al 237.313 | 2.530 | 2.478 | 0.018 | mg/L | 97.9 |
| As 188.979 | 0.4964 | 0.4989 | 0.001 | mg/L | 100.5 |
| B 182.528 | 0.6285 | 0.6128 | 0.003 | mg/L | 96.9 |
| Ba 233.527 | 0.4998 | 0.5109 | 0.004 | mg/L | 102.2 |
| Be 313.107 | 0.0502 | 0.0497 | 0.000 | mg/L | 99.0 |
| Ca 315.886 | 5.102 | 5.118 | 0.015 | mg/L | 100.3 |
| Cd 228.802 | 0.2501 | 0.2474 | 0.002 | mg/L | 98.9 |
| Co 228.616 | 0.4991 | 0.5069 | 0.004 | mg/L | 101.6 |
| Cr 267.716 | 0.5006 | 0.5033 | 0.004 | mg/L | 100.5 |
| Cu 324.752 | 0.5023 | 0.4999 | 0.005 | mg/L | 99.5 |
| Fe 238.204 | 2.544 | 2.549 | 0.020 | mg/L | 100.2 |
| Mg 279.077 | 5.007 | 5.096 | 0.040 | mg/L | 101.8 |
| Mn 257.610 | 0.5022 | 0.5134 | 0.001 | mg/L | 102.2 |
| Mo 202.031 | 0.5005 | 0.4990 | 0.000 | mg/L | 99.7 |
| Na 330.237 | 25.74 | 24.58 | 0.180 | mg/L | 95.4 |

| | | | | | |
|---|---|---|---|---|---|
| Ni 231.604 | 0.5005 | 0.5046 | 0.004 | mg/L | 100.8 |
| Pb 220.353 | 0.4997 | 0.5019 | 0.001 | mg/L | 100.4 |
| Sb 206.836 | 0.5018 | 0.4982 | 0.004 | mg/L | 99.3 |
| Se 196.026 | 1.009 | 1.005 | 0.001 | mg/L | 99.6 |
| Sn 189.927 | 0.4966 | 0.5178 | 0.000 | mg/L | 104.2 |
| Ti 337.279 | 0.5016 | 0.5010 | 0.001 | mg/L | 99.9 |
| Tl 190.801 | 0.5088 | 0.4922 | 0.008 | mg/L | 96.7 |
| V 292.402 | 0.5014 | 0.4965 | 0.004 | mg/L | 99.0 |
| Zn 213.857 | 0.5394 | 0.5303 | 0.004 | mg/L | 98.2 |

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**Sequence No.:** 21
**Sample ID:** 01110397-18sdx5
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 15
**Date Collected:** 11/30/01 7:37:20 PM
**Sample Prep Volume:**
**Data Type:** Original

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**R plicate Data:** 01110397-18sdx5

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2899648.1 | 2899648.1 | | | | | 19:38:56 |
| 1 | Ag 328.068† | 2661.7 | 17.8 | 0.0005 | mg/L | 0.0005 | mg/L | 19:39:02 |
| 1 | Al 237.313† | -91.2 | 21.2 | 0.0120 | mg/L | 0.0120 | mg/L | 19:39:22 |
| 1 | As 188.979† | -7.9 | 0.8 | 0.0010 | mg/L | 0.0010 | mg/L | 19:39:22 |
| 1 | B 182.528† | 22.6 | 25.5 | 0.0483 | mg/L | 0.0483 | mg/L | 19:39:22 |
| 1 | Ba 233.527† | -57.8 | 45.4 | -0.0002 | mg/L | -0.0002 | mg/L | 19:39:22 |
| 1 | Be 313.107† | 6535.9 | -219.9 | 0.0002 | mg/L | 0.0002 | mg/L | 19:39:02 |
| 1 | Ca 315.886† | 7357.4 | 4942.9 | 0.0313 | mg/L | 0.0313 | mg/L | 19:39:02 |
| 1 | Cd 228.802† | 33.1 | -0.9 | 0.0002 | mg/L | 0.0002 | mg/L | 19:39:22 |
| 1 | Co 228.616† | -428.1 | -6.3 | -0.0009 | mg/L | -0.0009 | mg/L | 19:39:22 |
| 1 | Cr 267.716† | 1937.0 | 4.5 | 0.0003 | mg/L | 0.0003 | mg/L | 19:39:02 |
| 1 | Cu 324.752† | 719.4 | 108.5 | 0.0020 | mg/L | 0.0020 | mg/L | 19:39:02 |
| 1 | Fe 238.204† | 1253.5 | 1185.2 | 0.0131 | mg/L | 0.0131 | mg/L | 19:39:02 |
| 1 | Mg 279.077† | 276.8 | 151.8 | 0.0029 | mg/L | 0.0029 | mg/L | 19:39:02 |
| 1 | Mn 257.610† | 2306.1 | 383.4 | -0.0003 | mg/L | -0.0003 | mg/L | 19:39:02 |
| 1 | Mo 202.031† | -54.8 | 4.2 | 0.0009 | mg/L | 0.0009 | mg/L | 19:39:22 |
| 1 | Na 330.237† | 3872.2 | -41.5 | 0.5065 | mg/L | 0.5065 | mg/L | 19:39:02 |
| 1 | Ni 231.604† | -323.3 | 10.2 | 0.0002 | mg/L | 0.0002 | mg/L | 19:39:22 |
| 1 | Pb 220.353† | 78.3 | -9.7 | -0.0018 | mg/L | -0.0018 | mg/L | 19:39:22 |
| 1 | Sb 206.836† | 101.7 | -6.1 | -0.0009 | mg/L | -0.0009 | mg/L | 19:39:22 |
| 1 | Se 196.026† | -85.5 | 11.0 | 0.0342 | mg/L | 0.0342 | mg/L | 19:39:22 |
| 1 | Sn 189.927† | -1.6 | -2.1 | -0.0014 | mg/L | -0.0014 | mg/L | 19:39:22 |
| 1 | Ti 337.279† | 1627.8 | 21.2 | 0.0008 | mg/L | 0.0008 | mg/L | 19:39:02 |
| 1 | Tl 190.801† | -10.5 | 5.6 | 0.0135 | mg/L | 0.0135 | mg/L | 19:39:22 |
| 1 | V 292.402† | 2582.1 | -101.6 | 0.0010 | mg/L | 0.0010 | mg/L | 19:39:02 |
| 1 | Zn 213.857† | 441.2 | 548.5 | 0.0128 | mg/L | 0.0128 | mg/L | 19:39:22 |
| 2 | Y 360.073 | 2910134.1 | 2910134.1 | | | | | 19:39:28 |
| 2 | Ag 328.068† | 2667.6 | 14.3 | 0.0005 | mg/L | 0.0005 | mg/L | 19:39:33 |
| 2 | Al 237.313† | -46.8 | 63.7 | 0.0181 | mg/L | 0.0181 | mg/L | 19:39:53 |
| 2 | As 188.979† | -5.2 | 3.4 | 0.0064 | mg/L | 0.0064 | mg/L | 19:39:53 |
| 2 | B 182.528† | 17.7 | 20.8 | 0.0391 | mg/L | 0.0391 | mg/L | 19:39:53 |
| 2 | Ba 233.527† | -74.1 | 30.1 | -0.0004 | mg/L | -0.0004 | mg/L | 19:39:53 |
| 2 | Be 313.107† | 6572.9 | -207.2 | 0.0002 | mg/L | 0.0002 | mg/L | 19:39:33 |
| 2 | Ca 315.886† | 6476.6 | 4082.0 | 0.0256 | mg/L | 0.0256 | mg/L | 19:39:33 |
| 2 | Cd 228.802† | 30.8 | -3.2 | 0.0001 | mg/L | 0.0001 | mg/L | 19:39:53 |
| 2 | Co 228.616† | -424.1 | -1.0 | -0.0008 | mg/L | -0.0008 | mg/L | 19:39:53 |
| 2 | Cr 267.716† | 1904.8 | -32.7 | 0.0000 | mg/L | 0.0000 | mg/L | 19:39:33 |
| 2 | Cu 324.752† | 768.7 | 152.8 | 0.0022 | mg/L | 0.0022 | mg/L | 19:39:33 |
| 2 | Fe 238.204† | 919.8 | 864.3 | 0.0102 | mg/L | 0.0102 | mg/L | 19:39:33 |
| 2 | Mg 279.077† | 179.4 | 58.4 | -0.0014 | mg/L | -0.0014 | mg/L | 19:39:33 |
| 2 | Mn 257.610† | 2099.5 | 179.5 | -0.0005 | mg/L | -0.0005 | mg/L | 19:39:33 |
| 2 | Mo 202.031† | -55.5 | 3.7 | 0.0009 | mg/L | 0.0009 | mg/L | 19:39:53 |
| 2 | Na 330.237† | 3792.6 | -130.3 | 0.4253 | mg/L | 0.4253 | mg/L | 19:39:33 |
| 2 | Ni 231.604† | -324.0 | 10.6 | 0.0002 | mg/L | 0.0002 | mg/L | 19:39:53 |
| 2 | Pb 220.353† | 83.4 | -5.2 | -0.0009 | mg/L | -0.0009 | mg/L | 19:39:53 |
| 2 | Sb 206.836† | 93.9 | -13.8 | -0.0044 | mg/L | -0.0044 | mg/L | 19:39:53 |
| 2 | Se 196.026† | -89.9 | 7.1 | 0.0208 | mg/L | 0.0208 | mg/L | 19:39:53 |
| 2 | Sn 189.927† | -5.3 | -5.7 | -0.0030 | mg/L | -0.0030 | mg/L | 19:39:53 |
| 2 | Ti 337.279† | 1635.0 | 22.4 | 0.0008 | mg/L | 0.0008 | mg/L | 19:39:33 |
| 2 | Tl 190.801† | -12.8 | 3.3 | 0.0092 | mg/L | 0.0092 | mg/L | 19:39:53 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | V 292.402† | 2568.8 | -123.0 | 0.0009 mg/L | 0.0009 mg/L | 19:39:33 |
| 2 | Zn 213.857† | 386.4 | 495.0 | 0.0117 mg/L | 0.0117 mg/L | 19:39:53 |

Mean Data: 01110397-18sdx5

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2904891.1 | | | | | | 7414.74 | 0.26% |
| Ag 328.068† | 16.0 | 0.0005 | mg/L | 0.00001 | 0.0005 | mg/L | 0.00001 | 2.52% |
| Al 237.313† | 42.5 | 0.0150 | mg/L | 0.00432 | 0.0150 | mg/L | 0.00432 | 28.74% |
| As 188.979† | 2.1 | 0.0037 | mg/L | 0.00381 | 0.0037 | mg/L | 0.00381 | 104.04% |
| B 182.528† | 23.1 | 0.0437 | mg/L | 0.00649 | 0.0437 | mg/L | 0.00649 | 14.84% |
| Ba 233.527† | 37.8 | -0.0003 | mg/L | 0.00008 | -0.0003 | mg/L | 0.00008 | 24.98% |
| Be 313.107† | -213.6 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 0.95% |
| Ca 315.886† | 4512.4 | 0.0285 | mg/L | 0.00405 | 0.0285 | mg/L | 0.00405 | 14.21% |
| Cd 228.802† | -2.1 | 0.0001 | mg/L | 0.00006 | 0.0001 | mg/L | 0.00006 | 43.94% |
| Co 228.616† | -3.7 | -0.0008 | mg/L | 0.00006 | -0.0008 | mg/L | 0.00006 | 7.06% |
| Cr 267.716† | -14.1 | 0.0001 | mg/L | 0.00017 | 0.0001 | mg/L | 0.00017 | 129.90% |
| Cu 324.752† | 130.7 | 0.0021 | mg/L | 0.00015 | 0.0021 | mg/L | 0.00015 | 7.07% |
| Fe 238.204† | 1024.7 | 0.0117 | mg/L | 0.00209 | 0.0117 | mg/L | 0.00209 | 17.95% |
| Mg 279.077† | 105.1 | 0.0007 | mg/L | 0.00304 | 0.0007 | mg/L | 0.00304 | 422.68% |
| Mn 257.610† | 281.4 | -0.0004 | mg/L | 0.00017 | -0.0004 | mg/L | 0.00017 | 43.63% |
| Mo 202.031† | 3.9 | 0.0009 | mg/L | 0.00004 | 0.0009 | mg/L | 0.00004 | 4.00% |
| Na 330.237† | -85.9 | 0.4659 | mg/L | 0.05745 | 0.4659 | mg/L | 0.05745 | 12.33% |
| Ni 231.604† | 10.4 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 3.03% |
| Pb 220.353† | -7.5 | -0.0014 | mg/L | 0.00059 | -0.0014 | mg/L | 0.00059 | 43.33% |
| Sb 206.836† | -10.0 | -0.0026 | mg/L | 0.00241 | -0.0026 | mg/L | 0.00241 | 91.01% |
| Se 196.026† | 9.1 | 0.0275 | mg/L | 0.00945 | 0.0275 | mg/L | 0.00945 | 34.37% |
| Sn 189.927† | -3.9 | -0.0022 | mg/L | 0.00118 | -0.0022 | mg/L | 0.00118 | 54.15% |
| Ti 337.279† | 21.8 | 0.0008 | mg/L | 0.00000 | 0.0008 | mg/L | 0.00000 | 0.19% |
| Tl 190.801† | 4.4 | 0.0114 | mg/L | 0.00307 | 0.0114 | mg/L | 0.00307 | 27.04% |
| V 292.402† | -112.3 | 0.0010 | mg/L | 0.00008 | 0.0010 | mg/L | 0.00008 | 7.77% |
| Zn 213.857† | 521.7 | 0.0123 | mg/L | 0.00083 | 0.0123 | mg/L | 0.00083 | 6.73% |

Dilution Check: 01110397-18sdx5

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Difference (%) |
|---|---|---|---|---|---|
| Y 360.073 | | | 0.000 | mg/L | Not calculated |
| Ag 328.068 | 0.0001 | 0.0005 | 0.000 | mg/L | 323.4 |
| Al 237.313 | 0.0061 | 0.0150 | 0.004 | mg/L | 146.6 |
| As 188.979 | -0.0007 | 0.0037 | 0.004 | mg/L | -605.2 |
| B 182.528 | 0.0257 | 0.0437 | 0.006 | mg/L | 70.1 |
| Ba 233.527 | 0.0000 | -0.0003 | 0.000 | mg/L | -660.2 |
| Be 313.107 | 0.0000 | 0.0002 | 0.000 | mg/L | 332.7 |
| Ca 315.886 | 0.0204 | 0.0285 | 0.004 | mg/L | 39.8 |
| Cd 228.802 | 0.0000 | 0.0001 | 0.000 | mg/L | 1033.4 |
| Co 228.616 | -0.0002 | -0.0008 | 0.000 | mg/L | -336.8 |
| Cr 267.716 | 0.0001 | 0.0001 | 0.000 | mg/L | 4.4 |
| Cu 324.752 | 0.0005 | 0.0021 | 0.000 | mg/L | 359.7 |
| Fe 238.204 | 0.0088 | 0.0117 | 0.002 | mg/L | 32.2 |
| Mg 279.077 | 0.0014 | 0.0007 | 0.003 | mg/L | 48.1 |
| Mn 257.610 | 0.0004 | -0.0004 | 0.000 | mg/L | 189.1 |
| Mo 202.031 | 0.0001 | 0.0009 | 0.000 | mg/L | 767.7 |
| Na 330.237 | 0.1487 | 0.4659 | 0.057 | mg/L | 213.2 |
| Ni 231.604 | 0.0001 | 0.0002 | 0.000 | mg/L | 99.7 |
| Pb 220.353 | -0.0001 | -0.0014 | 0.001 | mg/L | -2556.9 |
| Sb 206.836 | 0.0004 | -0.0026 | 0.002 | mg/L | 846.6 |
| Se 196.026 | 0.0017 | 0.0275 | 0.009 | mg/L | 1511.2 |
| Sn 189.927 | -0.0007 | -0.0022 | 0.001 | mg/L | -223.0 |
| Ti 337.279 | 0.0003 | 0.0008 | 0.000 | mg/L | 156.1 |
| Tl 190.801 | 0.0018 | 0.0114 | 0.003 | mg/L | 546.6 |
| V 292.402 | 0.0003 | 0.0010 | 0.000 | mg/L | 257.2 |
| Zn 213.857 | 0.0079 | 0.0123 | 0.001 | mg/L | 55.8 |

Sequence No.: 22
Sample ID: 01110397-18pds
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 11/30/01 7:41:41 PM
Sample Prep Volume:
Data Type: Original

Replicate Data: 01110397-18pds

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2876597.1 | 2876597.1 | | | | | 19:43:19 |
| 1 | Ag 328.068† | 75576.5 | 70028.3 | 0.3367 | mg/L | 0.3367 | mg/L | 19:43:25 |
| 1 | Al 237.313† | 24645.7 | 23765.2 | 3.397 | mg/L | 3.397 | mg/L | 19:43:25 |
| 1 | As 188.979† | 304.3 | 300.4 | 0.6311 | mg/L | 0.6311 | mg/L | 19:43:45 |
| 1 | B 182.528† | 400.2 | 388.1 | 0.7523 | mg/L | 0.7523 | mg/L | 19:43:45 |
| 1 | Ba 233.527† | 104470.8 | 100380.9 | 0.6949 | mg/L | 0.6949 | mg/L | 19:43:25 |
| 1 | Be 313.107† | 393569.6 | 371339.5 | 0.0705 | mg/L | 0.0705 | mg/L | 19:43:19 |
| 1 | Ca 315.886† | 1132122.6 | 1084649.1 | 7.202 | mg/L | 7.202 | mg/L | 19:43:19 |
| 1 | Cd 228.802† | 18616.8 | 17837.6 | 0.3362 | mg/L | 0.3362 | mg/L | 19:43:25 |
| 1 | Co 228.616† | 46029.2 | 44584.3 | 0.6908 | mg/L | 0.6908 | mg/L | 19:43:25 |
| 1 | Cr 267.716† | 110295.6 | 104031.6 | 0.6894 | mg/L | 0.6894 | mg/L | 19:43:25 |
| 1 | Cu 324.752† | 149175.5 | 142615.4 | 0.6857 | mg/L | 0.6857 | mg/L | 19:43:25 |
| 1 | Fe 238.204† | 408820.9 | 392414.3 | 3.620 | mg/L | 3.620 | mg/L | 19:43:19 |
| 1 | Mg 279.077† | 156977.2 | 150568.9 | 6.915 | mg/L | 6.915 | mg/L | 19:43:25 |
| 1 | Mn 257.610† | 638602.0 | 611174.6 | 0.7218 | mg/L | 0.7218 | mg/L | 19:43:19 |
| 1 | Mo 202.031† | 6000.8 | 5816.5 | 0.6465 | mg/L | 0.6465 | mg/L | 19:43:45 |
| 1 | Na 330.237† | 41543.0 | 36147.9 | 33.71 | mg/L | 33.71 | mg/L | 19:43:25 |
| 1 | Ni 231.604† | 31195.6 | 30262.4 | 0.6868 | mg/L | 0.6868 | mg/L | 19:43:25 |
| 1 | Pb 220.353† | 3733.5 | 3499.5 | 0.6393 | mg/L | 0.6393 | mg/L | 19:43:45 |
| 1 | Sb 206.836† | 1597.5 | 1430.5 | 0.6315 | mg/L | 0.6315 | mg/L | 19:43:45 |
| 1 | Se 196.026† | 288.4 | 369.2 | 1.261 | mg/L | 1.261 | mg/L | 19:43:45 |
| 1 | Sn 189.927† | 1467.8 | 1408.4 | 0.6604 | mg/L | 0.6604 | mg/L | 19:43:45 |
| 1 | Ti 337.279† | 449569.5 | 430008.0 | 0.7122 | mg/L | 0.7122 | mg/L | 19:43:19 |
| 1 | Tl 190.801† | 318.0 | 320.7 | 0.6464 | mg/L | 0.6464 | mg/L | 19:43:45 |
| 1 | V 292.402† | 142088.0 | 133828.4 | 0.6795 | mg/L | 0.6795 | mg/L | 19:43:25 |
| 1 | Zn 213.857† | 33824.3 | 32596.0 | 0.7077 | mg/L | 0.7077 | mg/L | 19:43:25 |
| 2 | Y 360.073 | 2838368.8 | 2838368.8 | | | | | 19:43:52 |
| 2 | Ag 328.068† | 63150.9 | 58917.5 | 0.2834 | mg/L | 0.2834 | mg/L | 19:43:58 |
| 2 | Al 237.313† | 20164.1 | 19724.2 | 2.820 | mg/L | 2.820 | mg/L | 19:43:58 |
| 2 | As 188.979† | 250.4 | 251.9 | 0.5291 | mg/L | 0.5291 | mg/L | 19:44:18 |
| 2 | B 182.528† | 347.1 | 341.6 | 0.6622 | mg/L | 0.6622 | mg/L | 19:44:18 |
| 2 | Ba 233.527† | 86246.1 | 84002.1 | 0.5814 | mg/L | 0.5814 | mg/L | 19:43:58 |
| 2 | Be 313.107† | 330484.6 | 315057.4 | 0.0598 | mg/L | 0.0598 | mg/L | 19:43:52 |
| 2 | Ca 315.886† | 953192.4 | 925219.0 | 6.144 | mg/L | 6.144 | mg/L | 19:43:52 |
| 2 | Cd 228.802† | 15348.8 | 14899.1 | 0.2809 | mg/L | 0.2809 | mg/L | 19:43:58 |
| 2 | Co 228.616† | 37775.9 | 37150.4 | 0.5755 | mg/L | 0.5755 | mg/L | 19:43:58 |
| 2 | Cr 267.716† | 90613.4 | 86310.4 | 0.5720 | mg/L | 0.5720 | mg/L | 19:43:58 |
| 2 | Cu 324.752† | 121956.7 | 118065.1 | 0.5679 | mg/L | 0.5679 | mg/L | 19:43:58 |
| 2 | Fe 238.204† | 343472.0 | 334127.1 | 3.083 | mg/L | 3.083 | mg/L | 19:43:52 |
| 2 | Mg 279.077† | 129704.8 | 126067.3 | 5.789 | mg/L | 5.789 | mg/L | 19:43:58 |
| 2 | Mn 257.610† | 537724.2 | 521294.9 | 0.6155 | mg/L | 0.6155 | mg/L | 19:43:52 |
| 2 | Mo 202.031† | 4856.2 | 4780.6 | 0.5314 | mg/L | 0.5314 | mg/L | 19:44:18 |
| 2 | Na 330.237† | 34806.0 | 30131.1 | 28.19 | mg/L | 28.19 | mg/L | 19:43:58 |
| 2 | Ni 231.604† | 25671.7 | 25291.9 | 0.5740 | mg/L | 0.5740 | mg/L | 19:43:58 |
| 2 | Pb 220.353† | 3063.7 | 2896.2 | 0.5291 | mg/L | 0.5291 | mg/L | 19:44:18 |
| 2 | Sb 206.836† | 1334.6 | 1195.4 | 0.5281 | mg/L | 0.5281 | mg/L | 19:44:18 |
| 2 | Se 196.026† | 219.5 | 305.9 | 1.044 | mg/L | 1.044 | mg/L | 19:44:18 |
| 2 | Sn 189.927† | 1197.0 | 1163.9 | 0.5456 | mg/L | 0.5456 | mg/L | 19:44:18 |
| 2 | Ti 337.279† | 376740.7 | 364971.0 | 0.6046 | mg/L | 0.6046 | mg/L | 19:43:52 |
| 2 | Tl 190.801† | 264.0 | 272.3 | 0.5493 | mg/L | 0.5493 | mg/L | 19:44:18 |
| 2 | V 292.402† | 116861.5 | 111124.5 | 0.5645 | mg/L | 0.5645 | mg/L | 19:43:58 |
| 2 | Zn 213.857† | 28029.4 | 27395.9 | 0.5950 | mg/L | 0.5950 | mg/L | 19:43:58 |

Mean Data: 01110397-18pds

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2857483.0 | | | | | | 27031.49 | 0.95% |
| Ag 328.068† | 64472.9 | 0.3101 | mg/L | 0.03774 | 0.3101 | mg/L | 0.03774 | 12.17% |
| Al 237.313† | 21744.7 | 3.108 | mg/L | 0.4078 | 3.108 | mg/L | 0.4078 | 13.12% |
| As 188.979† | 276.2 | 0.5801 | mg/L | 0.07208 | 0.5801 | mg/L | 0.07208 | 12.43% |
| B 182.528† | 364.9 | 0.7073 | mg/L | 0.06371 | 0.7073 | mg/L | 0.06371 | 9.01% |
| Ba 233.527† | 92191.5 | 0.6381 | mg/L | 0.08023 | 0.6381 | mg/L | 0.08023 | 12.57% |
| Be 313.107† | 343198.5 | 0.0652 | mg/L | 0.00753 | 0.0652 | mg/L | 0.00753 | 11.56% |
| Ca 315.886† | 1004934.1 | 6.673 | mg/L | 0.7487 | 6.673 | mg/L | 0.7487 | 11.22% |
| Cd 228.802† | 16368.4 | 0.3085 | mg/L | 0.03916 | 0.3085 | mg/L | 0.03916 | 12.69% |

| | | | | | | |
|---|---|---|---|---|---|---|
| Co 228.616† | 40867.3 | 0.6332 mg/L | 0.08154 | 0.6332 mg/L | 0.08154 | 12.88% |
| Cr 267.716† | 95171.0 | 0.6307 mg/L | 0.08301 | 0.6307 mg/L | 0.08301 | 13.16% |
| Cu 324.752† | 130340.2 | 0.6268 mg/L | 0.08328 | 0.6268 mg/L | 0.08328 | 13.29% |
| Fe 238.204† | 363270.7 | 3.351 mg/L | 0.3799 | 3.351 mg/L | 0.3799 | 11.34% |
| Mg 279.077† | 138318.1 | 6.352 mg/L | 0.7962 | 6.352 mg/L | 0.7962 | 12.53% |
| Mn 257.610† | 566234.8 | 0.6687 mg/L | 0.07513 | 0.6687 mg/L | 0.07513 | 11.24% |
| Mo 202.031† | 5298.5 | 0.5889 mg/L | 0.08135 | 0.5889 mg/L | 0.08135 | 13.81% |
| Na 330.237† | 33139.5 | 30.95 mg/L | 3.903 | 30.95 mg/L | 3.903 | 12.61% |
| Ni 231.604† | 27777.2 | 0.6304 mg/L | 0.07976 | 0.6304 mg/L | 0.07976 | 12.65% |
| Pb 220.353† | 3197.8 | 0.5842 mg/L | 0.07793 | 0.5842 mg/L | 0.07793 | 13.34% |
| Sb 206.836† | 1313.0 | 0.5798 mg/L | 0.07316 | 0.5798 mg/L | 0.07316 | 12.62% |
| Se 196.026† | 337.6 | 1.152 mg/L | 0.1532 | 1.152 mg/L | 0.1532 | 13.30% |
| Sn 189.927† | 1286.1 | 0.6030 mg/L | 0.08116 | 0.6030 mg/L | 0.08116 | 13.46% |
| Ti 337.279† | 397489.5 | 0.6584 mg/L | 0.07608 | 0.6584 mg/L | 0.07608 | 11.56% |
| Tl 190.801† | 296.5 | 0.5979 mg/L | 0.06868 | 0.5979 mg/L | 0.06868 | 11.49% |
| V 292.402† | 122476.4 | 0.6220 mg/L | 0.08133 | 0.6220 mg/L | 0.08133 | 13.08% |
| Zn 213.857† | 29995.9 | 0.6513 mg/L | 0.07972 | 0.6513 mg/L | 0.07972 | 12.24% |

**Recovery Check: 01110397-18pds**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Recovery (%) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2506 | 0.3101 | 0.038 | mg/L | 123.8 |
| Al 237.313 | 2.530 | 3.108 | 0.403 | mg/L | 123.1 |
| As 188.979 | 0.4964 | 0.5801 | 0.072 | mg/L | 116.7 |
| B 182.528 | 0.6285 | 0.7073 | 0.064 | mg/L | 115.8 |
| Ba 233.527 | 0.4998 | 0.6381 | 0.080 | mg/L | 127.7 |
| Be 313.107 | 0.0502 | 0.0652 | 0.008 | mg/L | 129.9 |
| Ca 315.886 | 5.102 | 6.673 | 0.749 | mg/L | 131.4 |
| Cd 228.802 | 0.2501 | 0.3085 | 0.039 | mg/L | 123.4 |
| Co 228.616 | 0.4991 | 0.6332 | 0.082 | mg/L | 126.8 |
| Cr 267.716 | 0.5006 | 0.6307 | 0.083 | mg/L | 126.0 |
| Cu 324.752 | 0.5023 | 0.6268 | 0.083 | mg/L | 124.9 |
| Fe 238.204 | 2.544 | 3.351 | 0.380 | mg/L | 132.3 |
| Mg 279.077 | 5.007 | 6.352 | 0.796 | mg/L | 126.9 |
| Mn 257.610 | 0.5022 | 0.6687 | 0.075 | mg/L | 133.3 |
| Mo 202.031 | 0.5005 | 0.5889 | 0.081 | mg/L | 117.7 |
| Na 330.237 | 25.74 | 30.95 | 3.903 | mg/L | 120.8 |
| Ni 231.604 | 0.5005 | 0.6304 | 0.080 | mg/L | 126.0 |
| Pb 220.353 | 0.4997 | 0.5842 | 0.078 | mg/L | 116.9 |
| Sb 206.836 | 0.5018 | 0.5798 | 0.073 | mg/L | 115.6 |
| Se 196.026 | 1.009 | 1.152 | 0.153 | mg/L | 114.4 |
| Sn 189.927 | 0.4966 | 0.6030 | 0.081 | mg/L | 121.3 |
| Ti 337.279 | 0.5016 | 0.6584 | 0.076 | mg/L | 131.4 |
| Tl 190.801 | 0.5088 | 0.5979 | 0.069 | mg/L | 117.8 |
| V 292.402 | 0.5014 | 0.6220 | 0.081 | mg/L | 124.1 |
| Zn 213.857 | 0.5394 | 0.6513 | 0.080 | mg/L | 122.4 |

**Sequence No.: 23**
**Sample ID: 01110400-01**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 17**
**Date Collected: 11/30/01 7:46:06 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 01110400-01**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2949003.7 | 2949003.7 | | | | | 19:47:40 |
| 1 | Ag 328.068† | 697292.2 | 650372.7 | 3.122 | mg/L | 3.122 | mg/L | 19:47:40 |
| 1 | Al 237.313† | 31043.0 | 29174.4 | 4.196 | mg/L | 4.196 | mg/L | 19:47:45 |
| 1 | As 188.979† | -7.0 | 1.7 | 0.0029 | mg/L | 0.0029 | mg/L | 19:48:05 |
| 1 | B 182.528† | 1.8 | 5.7 | 0.0093 | mg/L | 0.0093 | mg/L | 19:48:05 |
| 1 | Ba 233.527† | 7796.2 | 7400.2 | 0.0507 | mg/L | 0.0507 | mg/L | 19:47:45 |
| 1 | Be 313.107† | 6530.1 | -329.5 | 0.0002 | mg/L | 0.0002 | mg/L | 19:47:45 |
| 1 | Ca 315.886† | 166724.6 | 154044.6 | 1.020 | mg/L | 1.020 | mg/L | 19:47:40 |
| 1 | Cd 228.802† | 26.2 | -7.9 | 0.0000 | mg/L | 0.0000 | mg/L | 19:48:05 |
| 1 | Co 228.616† | -417.3 | 10.6 | -0.0006 | mg/L | -0.0006 | mg/L | 19:48:05 |
| 1 | Cr 267.716† | 4927.5 | 2773.7 | 0.0186 | mg/L | 0.0186 | mg/L | 19:47:45 |
| 1 | Cu 324.752† | 8156.0 | 7060.0 | 0.0354 | mg/L | 0.0354 | mg/L | 19:47:45 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Fe 238.204† | 14244.1 | 13328.6 | 0.1250 mg/L | 0.1250 mg/L | 19:47:45 |
| 1 | Mg 279.077† | 6682.5 | 6145.1 | 0.2757 mg/L | 0.2757 mg/L | 19:47:45 |
| 1 | Mn 257.610† | 9013.1 | 6626.6 | 0.0071 mg/L | 0.0071 mg/L | 19:47:45 |
| 1 | Mo 202.031† | 120.5 | 169.2 | 0.0193 mg/L | 0.0193 mg/L | 19:48:05 |
| 1 | Na 330.237† | 16035.8 | 11285.9 | 10.83 mg/L | 10.83 mg/L | 19:47:45 |
| 1 | Ni 231.604† | -252.2 | 81.9 | 0.0018 mg/L | 0.0018 mg/L | 19:48:05 |
| 1 | Pb 220.353† | 91.8 | 1.7 | 0.0003 mg/L | 0.0003 mg/L | 19:48:05 |
| 1 | Sb 206.836† | 108.7 | -1.1 | 0.0011 mg/L | 0.0011 mg/L | 19:48:05 |
| 1 | Se 196.026† | -93.8 | 4.6 | 0.0145 mg/L | 0.0145 mg/L | 19:48:05 |
| 1 | Sn 189.927† | 0.0 | -0.6 | -0.0010 mg/L | -0.0010 mg/L | 19:48:05 |
| 1 | Ti 337.279† | 4873.7 | 3034.4 | 0.0058 mg/L | 0.0058 mg/L | 19:47:45 |
| 1 | Tl 190.801† | -11.7 | 4.5 | 0.0117 mg/L | 0.0117 mg/L | 19:48:05 |
| 1 | V 292.402† | 2700.9 | -31.5 | 0.0013 mg/L | 0.0013 mg/L | 19:47:45 |
| 1 | Zn 213.857† | 1101.3 | 1159.5 | 0.0262 mg/L | 0.0262 mg/L | 19:48:05 |
| 2 | Y 360.073 | 2921969.2 | 2921969.2 | | | 19:48:11 |
| 2 | Ag 328.068† | 694343.6 | 653626.9 | 3.138 mg/L | 3.138 mg/L | 19:48:11 |
| 2 | Al 237.313† | 31730.5 | 30092.9 | 4.328 mg/L | 4.328 mg/L | 19:48:17 |
| 2 | As 188.979† | -7.0 | 1.7 | 0.0028 mg/L | 0.0028 mg/L | 19:48:37 |
| 2 | B 182.528† | -1.5 | 2.6 | 0.0032 mg/L | 0.0032 mg/L | 19:48:37 |
| 2 | Ba 233.527† | 8005.0 | 7665.0 | 0.0526 mg/L | 0.0526 mg/L | 19:48:17 |
| 2 | Be 313.107† | 6448.7 | -349.9 | 0.0002 mg/L | 0.0002 mg/L | 19:48:17 |
| 2 | Ca 315.886† | 165569.1 | 154397.0 | 1.022 mg/L | 1.022 mg/L | 19:48:11 |
| 2 | Cd 228.802† | 33.8 | -0.5 | 0.0002 mg/L | 0.0002 mg/L | 19:48:37 |
| 2 | Co 228.616† | -395.7 | 27.4 | -0.0004 mg/L | -0.0004 mg/L | 19:48:37 |
| 2 | Cr 267.716† | 4964.3 | 2851.2 | 0.0191 mg/L | 0.0191 mg/L | 19:48:17 |
| 2 | Cu 324.752† | 8314.7 | 7280.7 | 0.0364 mg/L | 0.0364 mg/L | 19:48:17 |
| 2 | Fe 238.204† | 14525.4 | 13717.8 | 0.1286 mg/L | 0.1286 mg/L | 19:48:17 |
| 2 | Mg 279.077† | 6757.2 | 6273.6 | 0.2815 mg/L | 0.2815 mg/L | 19:48:17 |
| 2 | Mn 257.610† | 9300.7 | 6976.4 | 0.0075 mg/L | 0.0075 mg/L | 19:48:17 |
| 2 | Mo 202.031† | 120.1 | 169.8 | 0.0193 mg/L | 0.0193 mg/L | 19:48:37 |
| 2 | Na 330.237† | 16261.3 | 11637.9 | 11.15 mg/L | 11.15 mg/L | 19:48:17 |
| 2 | Ni 231.604† | -243.2 | 88.2 | 0.0020 mg/L | 0.0020 mg/L | 19:48:37 |
| 2 | Pb 220.353† | 94.4 | 4.9 | 0.0009 mg/L | 0.0009 mg/L | 19:48:37 |
| 2 | Sb 206.836† | 97.6 | -10.7 | -0.0032 mg/L | -0.0032 mg/L | 19:48:37 |
| 2 | Se 196.026† | -89.4 | 7.9 | 0.0258 mg/L | 0.0258 mg/L | 19:48:37 |
| 2 | Sn 189.927† | 2.2 | 1.5 | 0.0000 mg/L | 0.0000 mg/L | 19:48:37 |
| 2 | Ti 337.279† | 5698.6 | 3856.2 | 0.0071 mg/L | 0.0071 mg/L | 19:48:17 |
| 2 | Tl 190.801† | -11.2 | 4.9 | 0.0124 mg/L | 0.0124 mg/L | 19:48:37 |
| 2 | V 292.402† | 2699.2 | -9.7 | 0.0014 mg/L | 0.0014 mg/L | 19:48:17 |
| 2 | Zn 213.857† | 1111.4 | 1178.6 | 0.0266 mg/L | 0.0266 mg/L | 19:48:37 |

**Mean Data: 01110400-01**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2935486.5 | | | | | | 19116.28 | 0.65% |
| Ag 328.068† | 651999.8 | 3.130 | mg/L | 0.0110 | 3.130 | mg/L | 0.0110 | 0.35% |
| Al 237.313† | 29633.7 | 4.262 | mg/L | 0.0932 | 4.262 | mg/L | 0.0932 | 2.19% |
| As 188.979† | 1.7 | 0.0029 | mg/L | 0.00009 | 0.0029 | mg/L | 0.00009 | 3.08% |
| B 182.528† | 4.1 | 0.0063 | mg/L | 0.00428 | 0.0063 | mg/L | 0.00428 | 68.35% |
| Ba 233.527† | 7532.6 | 0.0517 | mg/L | 0.00130 | 0.0517 | mg/L | 0.00130 | 2.51% |
| Be 313.107† | -339.7 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 1.74% |
| Ca 315.886† | 154220.8 | 1.021 | mg/L | 0.0016 | 1.021 | mg/L | 0.0016 | 0.16% |
| Cd 228.802† | -4.2 | 0.0001 | mg/L | 0.00010 | 0.0001 | mg/L | 0.00010 | 107.74% |
| Co 228.616† | 19.0 | -0.0005 | mg/L | 0.00018 | -0.0005 | mg/L | 0.00018 | 37.87% |
| Cr 267.716† | 2812.5 | 0.0189 | mg/L | 0.00036 | 0.0189 | mg/L | 0.00036 | 1.92% |
| Cu 324.752† | 7170.4 | 0.0359 | mg/L | 0.00075 | 0.0359 | mg/L | 0.00075 | 2.09% |
| Fe 238.204† | 13523.2 | 0.1268 | mg/L | 0.00254 | 0.1268 | mg/L | 0.00254 | 2.00% |
| Mg 279.077† | 6209.4 | 0.2786 | mg/L | 0.00412 | 0.2786 | mg/L | 0.00412 | 1.48% |
| Mn 257.610† | 6801.5 | 0.0073 | mg/L | 0.00029 | 0.0073 | mg/L | 0.00029 | 4.00% |
| Mo 202.031† | 169.5 | 0.0193 | mg/L | 0.00005 | 0.0193 | mg/L | 0.00005 | 0.26% |
| Na 330.237† | 11461.9 | 10.99 | mg/L | 0.227 | 10.99 | mg/L | 0.227 | 2.06% |
| Ni 231.604† | 85.1 | 0.0019 | mg/L | 0.00010 | 0.0019 | mg/L | 0.00010 | 5.31% |
| Pb 220.353† | 3.3 | 0.0006 | mg/L | 0.00042 | 0.0006 | mg/L | 0.00042 | 67.02% |
| Sb 206.836† | -5.9 | -0.0011 | mg/L | 0.00301 | -0.0011 | mg/L | 0.00301 | 284.77% |
| Se 196.026† | 6.3 | 0.0201 | mg/L | 0.00801 | 0.0201 | mg/L | 0.00801 | 39.83% |
| Sn 189.927† | 0.4 | -0.0005 | mg/L | 0.00068 | -0.0005 | mg/L | 0.00068 | 134.43% |
| Ti 337.279† | 3445.3 | 0.0065 | mg/L | 0.00096 | 0.0065 | mg/L | 0.00096 | 14.88% |
| Tl 190.801† | 4.7 | 0.0120 | mg/L | 0.00053 | 0.0120 | mg/L | 0.00053 | 4.43% |
| V 292.402† | -20.6 | 0.0014 | mg/L | 0.00008 | 0.0014 | mg/L | 0.00008 | 5.64% |
| Zn 213.857† | 1169.1 | 0.0264 | mg/L | 0.00029 | 0.0264 | mg/L | 0.00029 | 1.12% |

Sequence No.: 24
Sample ID: 01110400-02
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 11/30/01 7:50:19 PM

Sample Prep Volume:
Data Type: Original

Replicate Data: 01110400-02

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2800981.6 | 2800981.6 | | | | | 19:51:52 |
| 1 | Ag 328.068† | 45520.4 | 42357.3 | 0.2037 | mg/L | 0.2037 | mg/L | 19:51:58 |
| 1 | Al 237.313† | 7721.0 | 7719.5 | 1.113 | mg/L | 1.113 | mg/L | 19:52:18 |
| 1 | As 188.979† | -9.6 | -1.2 | -0.0033 | mg/L | -0.0033 | mg/L | 19:52:18 |
| 1 | B 182.528† | 11.3 | 15.1 | 0.0257 | mg/L | 0.0257 | mg/L | 19:52:18 |
| 1 | Ba 233.527† | 10473.5 | 10425.2 | 0.0717 | mg/L | 0.0717 | mg/L | 19:52:18 |
| 1 | Be 313.107† | 6499.3 | -36.7 | 0.0002 | mg/L | 0.0002 | mg/L | 19:51:58 |
| 1 | Ca 315.886† | 1520215.4 | 1496569.0 | 9.940 | mg/L | 9.940 | mg/L | 19:51:52 |
| 1 | Cd 228.802† | 50.4 | 17.2 | 0.0005 | mg/L | 0.0005 | mg/L | 19:52:18 |
| 1 | Co 228.616† | -386.6 | 20.2 | -0.0005 | mg/L | -0.0005 | mg/L | 19:52:18 |
| 1 | Cr 267.716† | 2402.7 | 528.6 | 0.0037 | mg/L | 0.0037 | mg/L | 19:52:18 |
| 1 | Cu 324.752† | 5058.4 | 4410.0 | 0.0226 | mg/L | 0.0226 | mg/L | 19:51:58 |
| 1 | Fe 238.204† | 45247.8 | 44596.9 | 0.4117 | mg/L | 0.4117 | mg/L | 19:51:58 |
| 1 | Mg 279.077† | 55603.6 | 54702.3 | 2.510 | mg/L | 2.510 | mg/L | 19:51:58 |
| 1 | Mn 257.610† | 43071.1 | 40647.1 | 0.0473 | mg/L | 0.0473 | mg/L | 19:51:58 |
| 1 | Mo 202.031† | 1345.9 | 1383.1 | 0.1541 | mg/L | 0.1541 | mg/L | 19:52:18 |
| 1 | Na 330.237† | 319216.2 | 310955.4 | 283.9 | mg/L | 283.9 | mg/L | 19:51:58 |
| 1 | Ni 231.604† | 11.8 | 329.7 | 0.0075 | mg/L | 0.0075 | mg/L | 19:52:18 |
| 1 | Pb 220.353† | 135.1 | 48.9 | 0.0091 | mg/L | 0.0091 | mg/L | 19:52:18 |
| 1 | Sb 206.836† | 104.1 | -0.3 | 0.0016 | mg/L | 0.0016 | mg/L | 19:52:18 |
| 1 | Se 196.026† | -92.4 | 1.3 | 0.0020 | mg/L | 0.0020 | mg/L | 19:52:18 |
| 1 | Sn 189.927† | -40.6 | -40.6 | -0.0230 | mg/L | -0.0230 | mg/L | 19:52:18 |
| 1 | Ti 337.279† | 2316.9 | 755.1 | 0.0020 | mg/L | 0.0020 | mg/L | 19:51:58 |
| 1 | Tl 190.801† | -14.2 | 1.6 | 0.0057 | mg/L | 0.0057 | mg/L | 19:52:18 |
| 1 | V 292.402† | 3019.2 | 415.9 | 0.0036 | mg/L | 0.0036 | mg/L | 19:51:58 |
| 1 | Zn 213.857† | 4800.8 | 4861.0 | 0.1069 | mg/L | 0.1069 | mg/L | 19:52:18 |
| 2 | Y 360.073 | 2801174.1 | 2801174.1 | | | | | 19:52:24 |
| 2 | Ag 328.068† | 46067.9 | 42893.9 | 0.2063 | mg/L | 0.2063 | mg/L | 19:52:29 |
| 2 | Al 237.313† | 7699.5 | 7697.8 | 1.110 | mg/L | 1.110 | mg/L | 19:52:50 |
| 2 | As 188.979† | -9.2 | -0.7 | -0.0023 | mg/L | -0.0023 | mg/L | 19:52:50 |
| 2 | B 182.528† | 16.5 | 20.2 | 0.0357 | mg/L | 0.0357 | mg/L | 19:52:50 |
| 2 | Ba 233.527† | 10444.7 | 10396.2 | 0.0715 | mg/L | 0.0715 | mg/L | 19:52:50 |
| 2 | Be 313.107† | 6598.5 | 60.6 | 0.0002 | mg/L | 0.0002 | mg/L | 19:52:29 |
| 2 | Ca 315.886† | 1514379.8 | 1490713.6 | 9.901 | mg/L | 9.901 | mg/L | 19:52:24 |
| 2 | Cd 228.802† | 56.5 | 23.2 | 0.0006 | mg/L | 0.0006 | mg/L | 19:52:50 |
| 2 | Co 228.616† | -395.0 | 12.0 | -0.0006 | mg/L | -0.0006 | mg/L | 19:52:50 |
| 2 | Cr 267.716† | 2439.1 | 564.3 | 0.0040 | mg/L | 0.0040 | mg/L | 19:52:50 |
| 2 | Cu 324.752† | 5161.5 | 4511.3 | 0.0231 | mg/L | 0.0231 | mg/L | 19:52:29 |
| 2 | Fe 238.204† | 45670.6 | 45010.6 | 0.4155 | mg/L | 0.4155 | mg/L | 19:52:29 |
| 2 | Mg 279.077† | 56198.9 | 55285.4 | 2.537 | mg/L | 2.537 | mg/L | 19:52:29 |
| 2 | Mn 257.610† | 43631.7 | 41196.7 | 0.0479 | mg/L | 0.0479 | mg/L | 19:52:29 |
| 2 | Mo 202.031† | 1339.9 | 1377.1 | 0.1534 | mg/L | 0.1534 | mg/L | 19:52:50 |
| 2 | Na 330.237† | 324347.5 | 315991.8 | 288.5 | mg/L | 288.5 | mg/L | 19:52:29 |
| 2 | Ni 231.604† | -10.9 | 307.3 | 0.0070 | mg/L | 0.0070 | mg/L | 19:52:50 |
| 2 | Pb 220.353† | 129.2 | 43.1 | 0.0080 | mg/L | 0.0080 | mg/L | 19:52:50 |
| 2 | Sb 206.836† | 100.7 | -3.7 | 0.0001 | mg/L | 0.0001 | mg/L | 19:52:50 |
| 2 | Se 196.026† | -88.6 | 5.1 | 0.0149 | mg/L | 0.0149 | mg/L | 19:52:50 |
| 2 | Sn 189.927† | -50.1 | -49.9 | -0.0273 | mg/L | -0.0273 | mg/L | 19:52:50 |
| 2 | Ti 337.279† | 2202.9 | 642.6 | 0.0019 | mg/L | 0.0019 | mg/L | 19:52:29 |
| 2 | Tl 190.801† | -13.7 | 2.0 | 0.0067 | mg/L | 0.0067 | mg/L | 19:52:50 |
| 2 | V 292.402† | 3093.2 | 488.7 | 0.0039 | mg/L | 0.0039 | mg/L | 19:52:29 |
| 2 | Zn 213.857† | 4777.0 | 4837.2 | 0.1064 | mg/L | 0.1064 | mg/L | 19:52:50 |

Mean Data: 01110400-02

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2801077.9 | | | | | | 136.12 | 0.00[illegible] |
| Ag 328.068† | 42625.6 | 0.2050 | mg/L | 0.00182 | 0.2050 | mg/L | 0.00182 | 0.89[illegible] |

| | | | | | | |
|---|---|---|---|---|---|---|
| Al 237.313† | 7708.7 | 1.112 mg/L | 0.0022 | 1.112 mg/L | 0.0022 | 0.20% |
| As 188.979† | -0.9 | -0.0028 mg/L | 0.00068 | -0.0028 mg/L | 0.00068 | 24.21% |
| B 182.528† | 17.6 | 0.0307 mg/L | 0.00704 | 0.0307 mg/L | 0.00704 | 22.93% |
| Ba 233.527† | 10410.7 | 0.0716 mg/L | 0.00014 | 0.0716 mg/L | 0.00014 | 0.20% |
| Be 313.107† | 12.0 | 0.0002 mg/L | 0.00001 | 0.0002 mg/L | 0.00001 | 5.92% |
| Ca 315.886† | 1493641.3 | 9.920 mg/L | 0.0275 | 9.920 mg/L | 0.0275 | 0.28% |
| Cd 228.802† | 20.2 | 0.0006 mg/L | 0.00008 | 0.0006 mg/L | 0.00008 | 12.79% |
| Co 228.616† | 16.1 | -0.0005 mg/L | 0.00009 | -0.0005 mg/L | 0.00009 | 17.29% |
| Cr 267.716† | 546.5 | 0.0038 mg/L | 0.00017 | 0.0038 mg/L | 0.00017 | 4.36% |
| Cu 324.752† | 4460.7 | 0.0228 mg/L | 0.00034 | 0.0228 mg/L | 0.00034 | 1.51% |
| Fe 238.204† | 44803.7 | 0.4136 mg/L | 0.00268 | 0.4136 mg/L | 0.00268 | 0.65% |
| Mg 279.077† | 54993.9 | 2.523 mg/L | 0.0190 | 2.523 mg/L | 0.0190 | 0.75% |
| Mn 257.610† | 40921.9 | 0.0476 mg/L | 0.00046 | 0.0476 mg/L | 0.00046 | 0.97% |
| Mo 202.031† | 1380.1 | 0.1537 mg/L | 0.00047 | 0.1537 mg/L | 0.00047 | 0.31% |
| Na 330.237† | 313473.6 | 286.2 mg/L | 3.24 | 286.2 mg/L | 3.24 | 1.13% |
| Ni 231.604† | 318.5 | 0.0072 mg/L | 0.00036 | 0.0072 mg/L | 0.00036 | 4.99% |
| Pb 220.353† | 46.0 | 0.0085 mg/L | 0.00075 | 0.0085 mg/L | 0.00075 | 8.78% |
| Sb 206.836† | -2.0 | 0.0009 mg/L | 0.00107 | 0.0009 mg/L | 0.00107 | 123.17% |
| Se 196.026† | 3.2 | 0.0084 mg/L | 0.00911 | 0.0084 mg/L | 0.00911 | 108.06% |
| Sn 189.927† | -45.3 | -0.0251 mg/L | 0.00307 | -0.0251 mg/L | 0.00307 | 12.21% |
| Ti 337.279† | 698.9 | 0.0019 mg/L | 0.00013 | 0.0019 mg/L | 0.00013 | 6.77% |
| Tl 190.801† | 1.8 | 0.0062 mg/L | 0.00067 | 0.0062 mg/L | 0.00067 | 10.80% |
| V 292.402† | 452.3 | 0.0037 mg/L | 0.00026 | 0.0037 mg/L | 0.00026 | 7.00% |
| Zn 213.857† | 4849.1 | 0.1067 mg/L | 0.00036 | 0.1067 mg/L | 0.00036 | 0.34% |

**Sequence No.: 25** **Autosampler Location: 3**
**Sample ID: CCV** **Date Collected: 11/30/01 7:54:32 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

Replicate Data: CCV

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2824361.9 | 2824361.9 | | | | | 19:56:08 |
| 1 | Ag 328.068† | 55513.2 | 51755.2 | 0.2490 | mg/L | 0.2490 | mg/L | 19:56:13 |
| 1 | Al 237.313† | 17481.1 | 17198.4 | 2.462 | mg/L | 2.462 | mg/L | 19:56:13 |
| 1 | As 188.979† | 235.5 | 238.5 | 0.5010 | mg/L | 0.5010 | mg/L | 19:56:33 |
| 1 | B 182.528† | 260.3 | 258.4 | 0.5001 | mg/L | 0.5001 | mg/L | 19:56:33 |
| 1 | Ba 233.527† | 73808.2 | 72258.5 | 0.5000 | mg/L | 0.5000 | mg/L | 19:56:13 |
| 1 | Be 313.107† | 272008.7 | 259483.4 | 0.0493 | mg/L | 0.0493 | mg/L | 19:56:08 |
| 1 | Ca 315.886† | 764481.5 | 745326.0 | 4.949 | mg/L | 4.949 | mg/L | 19:56:08 |
| 1 | Cd 228.802† | 13490.6 | 13156.5 | 0.2478 | mg/L | 0.2478 | mg/L | 19:56:13 |
| 1 | Co 228.616† | 32603.9 | 32276.3 | 0.4999 | mg/L | 0.4999 | mg/L | 19:56:13 |
| 1 | Cr 267.716† | 78556.1 | 74959.7 | 0.4968 | mg/L | 0.4968 | mg/L | 19:56:13 |
| 1 | Cu 324.752† | 106061.0 | 103113.2 | 0.4962 | mg/L | 0.4962 | mg/L | 19:56:13 |
| 1 | Fe 238.204† | 275342.6 | 269178.0 | 2.484 | mg/L | 2.484 | mg/L | 19:56:13 |
| 1 | Mg 279.077† | 111198.7 | 108600.7 | 4.986 | mg/L | 4.986 | mg/L | 19:56:13 |
| 1 | Mn 257.610† | 432336.2 | 420857.4 | 0.4968 | mg/L | 0.4968 | mg/L | 19:56:08 |
| 1 | Mo 202.031† | 4534.0 | 4489.0 | 0.4990 | mg/L | 0.4990 | mg/L | 19:56:33 |
| 1 | Na 330.237† | 30576.4 | 26164.0 | 24.55 | mg/L | 24.55 | mg/L | 19:56:13 |
| 1 | Ni 231.604† | 22150.3 | 21973.1 | 0.4986 | mg/L | 0.4986 | mg/L | 19:56:13 |
| 1 | Pb 220.353† | 2893.0 | 2744.0 | 0.5013 | mg/L | 0.5013 | mg/L | 19:56:33 |
| 1 | Sb 206.836† | 1261.3 | 1130.1 | 0.4997 | mg/L | 0.4997 | mg/L | 19:56:33 |
| 1 | Se 196.026† | 209.3 | 297.1 | 1.013 | mg/L | 1.013 | mg/L | 19:56:33 |
| 1 | Sn 189.927† | 1094.2 | 1069.1 | 0.5013 | mg/L | 0.5013 | mg/L | 19:56:33 |
| 1 | Ti 337.279† | 305886.4 | 297518.5 | 0.4930 | mg/L | 0.4930 | mg/L | 19:56:08 |
| 1 | Tl 190.801† | 231.8 | 242.1 | 0.4875 | mg/L | 0.4875 | mg/L | 19:56:33 |
| 1 | V 292.402† | 101878.0 | 97039.8 | 0.4932 | mg/L | 0.4932 | mg/L | 19:56:13 |
| 1 | Zn 213.857† | 23253.1 | 22861.6 | 0.4965 | mg/L | 0.4965 | mg/L | 19:56:13 |
| 2 | Y 360.073 | 2871302.1 | 2871302.1 | | | | | 19:56:40 |
| 2 | Ag 328.068† | 54662.6 | 50050.0 | 0.2408 | mg/L | 0.2408 | mg/L | 19:56:46 |
| 2 | Al 237.313† | 17169.5 | 16619.4 | 2.379 | mg/L | 2.379 | mg/L | 19:56:46 |
| 2 | As 188.979† | 236.3 | 235.6 | 0.4947 | mg/L | 0.4947 | mg/L | 19:57:06 |
| 2 | B 182.528† | 266.6 | 260.3 | 0.5040 | mg/L | 0.5040 | mg/L | 19:57:06 |
| 2 | Ba 233.527† | 72561.8 | 69880.2 | 0.4836 | mg/L | 0.4836 | mg/L | 19:56:46 |
| 2 | Be 313.107† | 275669.7 | 258656.6 | 0.0492 | mg/L | 0.0492 | mg/L | 19:56:40 |
| 2 | Ca 315.886† | 774759.0 | 742991.1 | 4.933 | mg/L | 4.933 | mg/L | 19:56:40 |
| 2 | Cd 228.802† | 13281.2 | 12739.6 | 0.2399 | mg/L | 0.2399 | mg/L | 19:56:46 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Co 228.616† | 32061.8 | 31233.9 | 0.4837 mg/L | 0.4837 mg/L | 19:56:46 |
| 2 | Cr 267.716† | 77355.9 | 72550.0 | 0.4809 mg/L | 0.4809 mg/L | 19:56:46 |
| 2 | Cu 324.752† | 103949.2 | 99387.2 | 0.4783 mg/L | 0.4783 mg/L | 19:56:46 |
| 2 | Fe 238.204† | 270641.7 | 260256.7 | 2.401 mg/L | 2.401 mg/L | 19:56:46 |
| 2 | Mg 279.077† | 109511.8 | 105201.2 | 4.830 mg/L | 4.830 mg/L | 19:56:46 |
| 2 | Mn 257.610† | 438092.0 | 419482.8 | 0.4952 mg/L | 0.4952 mg/L | 19:56:40 |
| 2 | Mo 202.031† | 4549.3 | 4431.2 | 0.4926 mg/L | 0.4926 mg/L | 19:57:06 |
| 2 | Na 330.237† | 30045.2 | 25164.5 | 23.63 mg/L | 23.63 mg/L | 19:56:46 |
| 2 | Ni 231.604† | 21781.0 | 21264.0 | 0.4825 mg/L | 0.4825 mg/L | 19:56:46 |
| 2 | Pb 220.353† | 2887.2 | 2692.2 | 0.4918 mg/L | 0.4918 mg/L | 19:57:06 |
| 2 | Sb 206.836† | 1264.0 | 1112.6 | 0.4920 mg/L | 0.4920 mg/L | 19:57:06 |
| 2 | Se 196.026† | 212.8 | 297.0 | 1.013 mg/L | 1.013 mg/L | 19:57:06 |
| 2 | Sn 189.927† | 1114.1 | 1070.8 | 0.5021 mg/L | 0.5021 mg/L | 19:57:06 |
| 2 | Ti 337.279† | 310409.3 | 296979.1 | 0.4921 mg/L | 0.4921 mg/L | 19:56:40 |
| 2 | Tl 190.801† | 234.8 | 241.3 | 0.4862 mg/L | 0.4862 mg/L | 19:57:06 |
| 2 | V 292.402† | 100105.9 | 93707.4 | 0.4763 mg/L | 0.4763 mg/L | 19:56:46 |
| 2 | Zn 213.857† | 22787.7 | 22042.4 | 0.4787 mg/L | 0.4787 mg/L | 19:56:46 |

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.D v. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2847832.0 | | | | | | 33191.69 | 1.17% |
| Ag 328.068† | 50902.6 | 0.2449 | mg/L | 0.00579 | 0.2449 | mg/L | 0.00579 | 2.36% |
| QC value within limits for Ag 328.068 Recovery = 97.95% | | | | | | | | |
| Al 237.313† | 16908.9 | 2.421 | mg/L | 0.0584 | 2.421 | mg/L | 0.0584 | 2.41% |
| QC value within limits for Al 237.313 Recovery = 96.82% | | | | | | | | |
| As 188.979† | 237.0 | 0.4978 | mg/L | 0.00444 | 0.4978 | mg/L | 0.00444 | 0.89% |
| QC value within limits for As 188.979 Recovery = 99.57% | | | | | | | | |
| B 182.528† | 259.4 | 0.5021 | mg/L | 0.00273 | 0.5021 | mg/L | 0.00273 | 0.54% |
| QC value within limits for B 182.528 Recovery = 100.41% | | | | | | | | |
| Ba 233.527† | 71069.3 | 0.4918 | mg/L | 0.01165 | 0.4918 | mg/L | 0.01165 | 2.37% |
| QC value within limits for Ba 233.527 Recovery = 98.36% | | | | | | | | |
| Be 313.107† | 259070.0 | 0.0492 | mg/L | 0.00011 | 0.0492 | mg/L | 0.00011 | 0.23% |
| QC value within limits for Be 313.107 Recovery = 98.50% | | | | | | | | |
| Ca 315.886† | 744158.5 | 4.941 | mg/L | 0.0109 | 4.941 | mg/L | 0.0109 | 0.22% |
| QC value within limits for Ca 315.886 Recovery = 98.82% | | | | | | | | |
| Cd 228.802† | 12948.1 | 0.2438 | mg/L | 0.00559 | 0.2438 | mg/L | 0.00559 | 2.29% |
| QC value within limits for Cd 228.802 Recovery = 97.53% | | | | | | | | |
| Co 228.616† | 31755.1 | 0.4918 | mg/L | 0.01143 | 0.4918 | mg/L | 0.01143 | 2.32% |
| QC value within limits for Co 228.616 Recovery = 98.37% | | | | | | | | |
| Cr 267.716† | 73754.9 | 0.4888 | mg/L | 0.01129 | 0.4888 | mg/L | 0.01129 | 2.31% |
| QC value within limits for Cr 267.716 Recovery = 97.77% | | | | | | | | |
| Cu 324.752† | 101250.2 | 0.4872 | mg/L | 0.01264 | 0.4872 | mg/L | 0.01264 | 2.59% |
| QC value within limits for Cu 324.752 Recovery = 97.44% | | | | | | | | |
| Fe 238.204† | 264717.3 | 2.443 | mg/L | 0.0582 | 2.443 | mg/L | 0.0582 | 2.38% |
| QC value within limits for Fe 238.204 Recovery = 97.70% | | | | | | | | |
| Mg 279.077† | 106901.0 | 4.908 | mg/L | 0.1104 | 4.908 | mg/L | 0.1104 | 2.25% |
| QC value within limits for Mg 279.077 Recovery = 98.17% | | | | | | | | |
| Mn 257.610† | 420170.1 | 0.4960 | mg/L | 0.00115 | 0.4960 | mg/L | 0.00115 | 0.23% |
| QC value within limits for Mn 257.610 Recovery = 99.19% | | | | | | | | |
| Mo 202.031† | 4460.1 | 0.4958 | mg/L | 0.00453 | 0.4958 | mg/L | 0.00453 | 0.91% |
| QC value within limits for Mo 202.031 Recovery = 99.16% | | | | | | | | |
| Na 330.237† | 25664.2 | 24.09 | mg/L | 0.648 | 24.09 | mg/L | 0.648 | 2.69% |
| QC value within limits for Na 330.237 Recovery = 96.36% | | | | | | | | |
| Ni 231.604† | 21618.5 | 0.4906 | mg/L | 0.01138 | 0.4906 | mg/L | 0.01138 | 2.32% |
| QC value within limits for Ni 231.604 Recovery = 98.12% | | | | | | | | |
| Pb 220.353† | 2718.1 | 0.4965 | mg/L | 0.00669 | 0.4965 | mg/L | 0.00669 | 1.35% |
| QC value within limits for Pb 220.353 Recovery = 99.30% | | | | | | | | |
| Sb 206.836† | 1121.4 | 0.4958 | mg/L | 0.00542 | 0.4958 | mg/L | 0.00542 | 1.09% |
| QC value within limits for Sb 206.836 Recovery = 99.17% | | | | | | | | |
| Se 196.026† | 297.1 | 1.013 | mg/L | 0.0001 | 1.013 | mg/L | 0.0001 | 0.01% |
| QC value within limits for Se 196.026 Recovery = 101.30% | | | | | | | | |
| Sn 189.927† | 1070.0 | 0.5017 | mg/L | 0.00051 | 0.5017 | mg/L | 0.00051 | 0.10% |
| QC value within limits for Sn 189.927 Recovery = 100.34% | | | | | | | | |
| Ti 337.279† | 297248.8 | 0.4925 | mg/L | 0.00063 | 0.4925 | mg/L | 0.00063 | 0.13% |
| QC value within limits for Ti 337.279 Recovery = 98.51% | | | | | | | | |
| Tl 190.801† | 241.7 | 0.4869 | mg/L | 0.00099 | 0.4869 | mg/L | 0.00099 | 0.20% |
| QC value within limits for Tl 190.801 Recovery = 97.37% | | | | | | | | |
| V 292.402† | 95373.6 | 0.4847 | mg/L | 0.01194 | 0.4847 | mg/L | 0.01194 | 2.46% |
| QC value within limits for V 292.402 Recovery = 96.95% | | | | | | | | |

Zn 213.857† 22452.0 0.4876 mg/L 0.01257 0.4876 mg/L 0.01257 2.58%
QC value within limits for Zn 213.857 Recovery = 97.53%
All analytes passed QC.

Sequence No.: 26
Sample ID: ICCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/30/01 7:58:51 PM
Sample Prep Volume:
Data Type: Original

Replicate Data: ICCB

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2841732.3 | 2841732.3 | | | | | 20:00:24 |
| 1 | Ag 328.068† | 2723.1 | 129.1 | 0.0010 | mg/L | 0.0010 | mg/L | 20:00:29 |
| 1 | Al 237.313† | -91.2 | 19.6 | 0.0118 | mg/L | 0.0118 | mg/L | 20:00:50 |
| 1 | As 188.979† | -9.3 | -0.7 | -0.0023 | mg/L | -0.0023 | mg/L | 20:00:50 |
| 1 | B 182.528† | 6.7 | 10.5 | 0.0190 | mg/L | 0.0190 | mg/L | 20:00:50 |
| 1 | Ba 233.527† | -98.5 | 4.8 | -0.0005 | mg/L | -0.0005 | mg/L | 20:00:50 |
| 1 | Be 313.107† | 6501.8 | -126.1 | 0.0002 | mg/L | 0.0002 | mg/L | 20:00:29 |
| 1 | Ca 315.886† | 2348.9 | 219.2 | 0.0000 | mg/L | 0.0000 | mg/L | 20:00:29 |
| 1 | Cd 228.802† | 27.1 | -6.1 | 0.0001 | mg/L | 0.0001 | mg/L | 20:00:50 |
| 1 | Co 228.616† | -412.2 | 0.8 | -0.0008 | mg/L | -0.0008 | mg/L | 20:00:50 |
| 1 | Cr 267.716† | 1874.3 | -18.8 | 0.0001 | mg/L | 0.0001 | mg/L | 20:00:29 |
| 1 | Cu 324.752† | 673.2 | 77.6 | 0.0019 | mg/L | 0.0019 | mg/L | 20:00:29 |
| 1 | Fe 238.204† | 332.5 | 314.6 | 0.0051 | mg/L | 0.0051 | mg/L | 20:00:29 |
| 1 | Mg 279.077† | 105.2 | -9.7 | -0.0045 | mg/L | -0.0045 | mg/L | 20:00:29 |
| 1 | Mn 257.610† | 1887.7 | 21.6 | -0.0007 | mg/L | -0.0007 | mg/L | 20:00:29 |
| 1 | Mo 202.031† | -49.6 | 8.2 | 0.0014 | mg/L | 0.0014 | mg/L | 20:00:50 |
| 1 | Na 330.237† | 3892.4 | 53.4 | 0.5894 | mg/L | 0.5894 | mg/L | 20:00:29 |
| 1 | Ni 231.604† | -336.0 | -8.4 | -0.0002 | mg/L | -0.0002 | mg/L | 20:00:50 |
| 1 | Pb 220.353† | 76.3 | -10.1 | -0.0018 | mg/L | -0.0018 | mg/L | 20:00:50 |
| 1 | Sb 206.836† | 101.8 | -4.1 | 0.0000 | mg/L | 0.0000 | mg/L | 20:00:50 |
| 1 | Se 196.026† | -91.4 | 3.6 | 0.0088 | mg/L | 0.0088 | mg/L | 20:00:50 |
| 1 | Sn 189.927† | -4.0 | -4.4 | -0.0024 | mg/L | -0.0024 | mg/L | 20:00:50 |
| 1 | Ti 337.279† | 1588.4 | 14.5 | 0.0008 | mg/L | 0.0008 | mg/L | 20:00:29 |
| 1 | Tl 190.801† | -9.4 | 6.4 | 0.0151 | mg/L | 0.0151 | mg/L | 20:00:50 |
| 1 | V 292.402† | 2565.9 | -67.3 | 0.0012 | mg/L | 0.0012 | mg/L | 20:00:29 |
| 1 | Zn 213.857† | -126.8 | 5.1 | 0.0010 | mg/L | 0.0010 | mg/L | 20:00:50 |
| 2 | Y 360.073 | 2838972.5 | 2838972.5 | | | | | 20:00:55 |
| 2 | Ag 328.068† | 2723.1 | 131.7 | 0.0010 | mg/L | 0.0010 | mg/L | 20:01:01 |
| 2 | Al 237.313† | -99.1 | 11.8 | 0.0107 | mg/L | 0.0107 | mg/L | 20:01:21 |
| 2 | As 188.979† | -6.8 | 1.7 | 0.0029 | mg/L | 0.0029 | mg/L | 20:01:21 |
| 2 | B 182.528† | 0.6 | 4.5 | 0.0073 | mg/L | 0.0073 | mg/L | 20:01:21 |
| 2 | Ba 233.527† | -93.4 | 9.6 | -0.0005 | mg/L | -0.0005 | mg/L | 20:01:21 |
| 2 | Be 313.107† | 6588.0 | -36.2 | 0.0002 | mg/L | 0.0002 | mg/L | 20:01:01 |
| 2 | Ca 315.886† | 2380.9 | 252.5 | 0.0002 | mg/L | 0.0002 | mg/L | 20:01:01 |
| 2 | Cd 228.802† | 31.4 | -1.9 | 0.0001 | mg/L | 0.0001 | mg/L | 20:01:21 |
| 2 | Co 228.616† | -419.6 | -6.8 | -0.0009 | mg/L | -0.0009 | mg/L | 20:01:21 |
| 2 | Cr 267.716† | 1936.9 | 43.8 | 0.0005 | mg/L | 0.0005 | mg/L | 20:01:01 |
| 2 | Cu 324.752† | 652.2 | 57.8 | 0.0018 | mg/L | 0.0018 | mg/L | 20:01:01 |
| 2 | Fe 238.204† | 218.4 | 203.9 | 0.0041 | mg/L | 0.0041 | mg/L | 20:01:01 |
| 2 | Mg 279.077† | 134.9 | 19.4 | -0.0032 | mg/L | -0.0032 | mg/L | 20:01:01 |
| 2 | Mn 257.610† | 1862.9 | -0.7 | -0.0007 | mg/L | -0.0007 | mg/L | 20:01:01 |
| 2 | Mo 202.031† | -53.2 | 4.7 | 0.0010 | mg/L | 0.0010 | mg/L | 20:01:21 |
| 2 | Na 330.237† | 3934.2 | 97.7 | 0.6297 | mg/L | 0.6297 | mg/L | 20:01:01 |
| 2 | Ni 231.604† | -319.5 | 7.3 | 0.0001 | mg/L | 0.0001 | mg/L | 20:01:21 |
| 2 | Pb 220.353† | 80.8 | -5.7 | -0.0010 | mg/L | -0.0010 | mg/L | 20:01:21 |
| 2 | Sb 206.836† | 103.7 | -2.1 | 0.0008 | mg/L | 0.0008 | mg/L | 20:01:21 |
| 2 | Se 196.026† | -92.3 | 2.7 | 0.0056 | mg/L | 0.0056 | mg/L | 20:01:21 |
| 2 | Sn 189.927† | 1.5 | 0.9 | 0.0000 | mg/L | 0.0000 | mg/L | 20:01:21 |
| 2 | Ti 337.279† | 1548.9 | -22.4 | 0.0007 | mg/L | 0.0007 | mg/L | 20:01:01 |
| 2 | Tl 190.801† | -11.0 | 4.8 | 0.0121 | mg/L | 0.0121 | mg/L | 20:01:21 |
| 2 | V 292.402† | 2604.1 | -27.6 | 0.0014 | mg/L | 0.0014 | mg/L | 20:01:01 |
| 2 | Zn 213.857† | -133.0 | -1.1 | 0.0009 | mg/L | 0.0009 | mg/L | 20:01:21 |

Mean Data: ICCB

Mean Corrected Calib Sample

| Analyte | Intensity | Conc. | Units | Std.Dev. | Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2840352.4 | | | | | | 1951.46 | 0.07% |
| Ag 328.068† | 130.4 | 0.0010 | mg/L | 0.00001 | 0.0010 | mg/L | 0.00001 | 0.88% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 15.7 | 0.0113 | mg/L | 0.00078 | 0.0113 | mg/L | 0.00078 | 6.96% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 0.5 | 0.0003 | mg/L | 0.00365 | 0.0003 | mg/L | 0.00365 | >999.9% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 7.5 | 0.0131 | mg/L | 0.00826 | 0.0131 | mg/L | 0.00826 | 62.81% |
| QC value within limits for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 7.2 | -0.0005 | mg/L | 0.00002 | -0.0005 | mg/L | 0.00002 | 4.63% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -81.2 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 5.96% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.886† | 235.8 | 0.0001 | mg/L | 0.00016 | 0.0001 | mg/L | 0.00016 | 219.90% |
| QC value within limits for Ca 315.886 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -4.0 | 0.0001 | mg/L | 0.00003 | 0.0001 | mg/L | 0.00003 | 28.22% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | -3.0 | -0.0008 | mg/L | 0.00008 | -0.0008 | mg/L | 0.00008 | 10.25% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 12.5 | 0.0003 | mg/L | 0.00029 | 0.0003 | mg/L | 0.00029 | 94.54% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 324.752† | 67.7 | 0.0018 | mg/L | 0.00007 | 0.0018 | mg/L | 0.00007 | 3.67% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | | | |
| Fe 238.204† | 259.2 | 0.0046 | mg/L | 0.00072 | 0.0046 | mg/L | 0.00072 | 15.74% |
| QC value within limits for Fe 238.204 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 4.9 | -0.0039 | mg/L | 0.00095 | -0.0039 | mg/L | 0.00095 | 24.37% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | 10.5 | -0.0007 | mg/L | 0.00002 | -0.0007 | mg/L | 0.00002 | 2.60% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 6.4 | 0.0012 | mg/L | 0.00027 | 0.0012 | mg/L | 0.00027 | 23.15% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 75.5 | 0.6096 | mg/L | 0.02852 | 0.6096 | mg/L | 0.02852 | 4.68% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | -0.6 | 0.0000 | mg/L | 0.00025 | 0.0000 | mg/L | 0.00025 | 616.29% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -7.9 | -0.0014 | mg/L | 0.00057 | -0.0014 | mg/L | 0.00057 | 39.52% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | -3.1 | 0.0004 | mg/L | 0.00060 | 0.0004 | mg/L | 0.00060 | 146.11% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 3.1 | 0.0072 | mg/L | 0.00226 | 0.0072 | mg/L | 0.00226 | 31.25% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.8 | -0.0012 | mg/L | 0.00176 | -0.0012 | mg/L | 0.00176 | 146.22% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 337.279† | -3.9 | 0.0008 | mg/L | 0.00004 | 0.0008 | mg/L | 0.00004 | 5.76% |
| QC value within limits for Ti 337.279 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 5.6 | 0.0136 | mg/L | 0.00216 | 0.0136 | mg/L | 0.00216 | 15.92% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 292.402† | -47.4 | 0.0013 | mg/L | 0.00014 | 0.0013 | mg/L | 0.00014 | 10.77% |
| QC value within limits for V 292.402 Recovery = Not calculated | | | | | | | | |
| Zn 213.857† | 2.0 | 0.0009 | mg/L | 0.00010 | 0.0009 | mg/L | 0.00010 | 10.45% |
| QC value within limits for Zn 213.857 Recovery = Not calculated | | | | | | | | |

All analytes passed QC.

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**Sequence No.: 27** **Autosampler Location: 19**
**Sample ID: 01110401-01** **Date Collected: 11/30/01 8:03:05 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: 01110401-01**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2841715.5 | 2841715.5 | | | | | 20:04:39 |
| 1 | Ag 328.068† | 451609.8 | 436299.7 | 2.095 | mg/L | 2.095 | mg/L | 20:04:39 |
| 1 | Al 237.313† | 22125.1 | 21606.5 | 3.110 | mg/L | 3.110 | mg/L | 20:04:44 |
| 1 | As 188.979† | -13.0 | -4.3 | -0.0098 | mg/L | -0.0098 | mg/L | 20:05:04 |
| 1 | B 182.528† | -0.8 | 3.2 | 0.0043 | mg/L | 0.0043 | mg/L | 20:05:04 |
| 1 | Ba 233.527† | 5954.4 | 5886.2 | 0.0402 | mg/L | 0.0402 | mg/L | 20:04:44 |

Sequence No.: 37
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/30/01 8:45:55 PM
Sample Prep Volume:
Data Type: Original

R plicate Data: CCV

| R pl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2838099.1 | 2838099.1 | | | | | 20:47:32 |
| 1 | Ag 328.068† | 55486.7 | 51466.8 | 0.2476 | mg/L | 0.2476 | mg/L | 20:47:37 |
| 1 | Al 237.313† | 17415.7 | 17052.1 | 2.441 | mg/L | 2.441 | mg/L | 20:47:37 |
| 1 | As 188.979† | 240.3 | 242.1 | 0.5085 | mg/L | 0.5085 | mg/L | 20:47:57 |
| 1 | B 182.528† | 256.4 | 253.4 | 0.4903 | mg/L | 0.4903 | mg/L | 20:47:57 |
| 1 | Ba 233.527† | 73397.9 | 71509.9 | 0.4948 | mg/L | 0.4948 | mg/L | 20:47:37 |
| 1 | Be 313.107† | 273185.5 | 259341.2 | 0.0493 | mg/L | 0.0493 | mg/L | 20:47:32 |
| 1 | Ca 315.886† | 767208.4 | 744361.5 | 4.942 | mg/L | 4.942 | mg/L | 20:47:32 |
| 1 | Cd 228.802† | 13437.7 | 13041.2 | 0.2455 | mg/L | 0.2455 | mg/L | 20:47:37 |
| 1 | Co 228.616† | 32359.9 | 31884.6 | 0.4938 | mg/L | 0.4938 | mg/L | 20:47:37 |
| 1 | Cr 267.716† | 78146.7 | 74189.7 | 0.4917 | mg/L | 0.4917 | mg/L | 20:47:37 |
| 1 | Cu 324.752† | 104825.8 | 101409.5 | 0.4880 | mg/L | 0.4880 | mg/L | 20:47:37 |
| 1 | Fe 238.204† | 273611.9 | 266191.3 | 2.456 | mg/L | 2.456 | mg/L | 20:47:37 |
| 1 | Mg 279.077† | 110643.2 | 107534.0 | 4.937 | mg/L | 4.937 | mg/L | 20:47:37 |
| 1 | Mn 257.610† | 433587.7 | 420029.2 | 0.4958 | mg/L | 0.4958 | mg/L | 20:47:32 |
| 1 | Mo 202.031† | 4550.6 | 4483.7 | 0.4984 | mg/L | 0.4984 | mg/L | 20:47:57 |
| 1 | Na 330.237† | 30316.6 | 25766.6 | 24.18 | mg/L | 24.18 | mg/L | 20:47:37 |
| 1 | Ni 231.604† | 22009.9 | 21731.7 | 0.4932 | mg/L | 0.4932 | mg/L | 20:47:37 |
| 1 | Pb 220.353† | 2904.4 | 2741.5 | 0.5008 | mg/L | 0.5008 | mg/L | 20:47:57 |
| 1 | Sb 206.836† | 1261.4 | 1124.3 | 0.4971 | mg/L | 0.4971 | mg/L | 20:47:57 |
| 1 | Se 196.026† | 212.9 | 299.5 | 1.021 | mg/L | 1.021 | mg/L | 20:47:57 |
| 1 | Sn 189.927† | 1101.4 | 1071.0 | 0.5022 | mg/L | 0.5022 | mg/L | 20:47:57 |
| 1 | Ti 337.279† | 306052.4 | 296232.5 | 0.4908 | mg/L | 0.4908 | mg/L | 20:47:32 |
| 1 | Tl 190.801† | 237.5 | 246.6 | 0.4963 | mg/L | 0.4963 | mg/L | 20:47:57 |
| 1 | V 292.402† | 101377.3 | 96070.6 | 0.4883 | mg/L | 0.4883 | mg/L | 20:47:37 |
| 1 | Zn 213.857† | 23093.6 | 22596.3 | 0.4908 | mg/L | 0.4908 | mg/L | 20:47:37 |
| 2 | Y 360.073 | 2866429.8 | 2866429.8 | | | | | 20:48:04 |
| 2 | Ag 328.068† | 55454.0 | 50901.7 | 0.2449 | mg/L | 0.2449 | mg/L | 20:48:10 |
| 2 | Al 237.313† | 17466.7 | 16933.7 | 2.424 | mg/L | 2.424 | mg/L | 20:48:10 |
| 2 | As 188.979† | 235.2 | 234.9 | 0.4934 | mg/L | 0.4934 | mg/L | 20:48:30 |
| 2 | B 182.528† | 251.8 | 246.5 | 0.4768 | mg/L | 0.4768 | mg/L | 20:48:30 |
| 2 | Ba 233.527† | 73432.6 | 70837.6 | 0.4902 | mg/L | 0.4902 | mg/L | 20:48:10 |
| 2 | Be 313.107† | 275568.7 | 259010.0 | 0.0492 | mg/L | 0.0492 | mg/L | 20:48:04 |
| 2 | Ca 315.886† | 774027.5 | 743552.9 | 4.937 | mg/L | 4.937 | mg/L | 20:48:04 |
| 2 | Cd 228.802† | 13454.1 | 12927.8 | 0.2435 | mg/L | 0.2435 | mg/L | 20:48:10 |
| 2 | Co 228.616† | 32469.4 | 31678.9 | 0.4906 | mg/L | 0.4906 | mg/L | 20:48:10 |
| 2 | Cr 267.716† | 78273.9 | 73560.8 | 0.4876 | mg/L | 0.4876 | mg/L | 20:48:10 |
| 2 | Cu 324.752† | 104914.6 | 100487.1 | 0.4836 | mg/L | 0.4836 | mg/L | 20:48:10 |
| 2 | Fe 238.204† | 273665.0 | 263611.4 | 2.432 | mg/L | 2.432 | mg/L | 20:48:10 |
| 2 | Mg 279.077† | 110620.2 | 106448.0 | 4.888 | mg/L | 4.888 | mg/L | 20:48:10 |
| 2 | Mn 257.610† | 437583.7 | 419709.2 | 0.4954 | mg/L | 0.4954 | mg/L | 20:48:04 |
| 2 | Mo 202.031† | 4495.1 | 4386.5 | 0.4876 | mg/L | 0.4876 | mg/L | 20:48:30 |
| 2 | Na 330.237† | 30394.2 | 25549.8 | 23.98 | mg/L | 23.98 | mg/L | 20:48:10 |
| 2 | Ni 231.604† | 22054.6 | 21563.1 | 0.4893 | mg/L | 0.4893 | mg/L | 20:48:10 |
| 2 | Pb 220.353† | 2865.0 | 2675.6 | 0.4888 | mg/L | 0.4888 | mg/L | 20:48:30 |
| 2 | Sb 206.836† | 1237.7 | 1089.4 | 0.4816 | mg/L | 0.4816 | mg/L | 20:48:30 |
| 2 | Se 196.026† | 210.0 | 294.6 | 1.005 | mg/L | 1.005 | mg/L | 20:48:30 |
| 2 | Sn 189.927† | 1099.1 | 1058.2 | 0.4962 | mg/L | 0.4962 | mg/L | 20:48:30 |
| 2 | Ti 337.279† | 309939.6 | 297034.1 | 0.4922 | mg/L | 0.4922 | mg/L | 20:48:04 |
| 2 | Tl 190.801† | 236.1 | 242.9 | 0.4892 | mg/L | 0.4892 | mg/L | 20:48:30 |
| 2 | V 292.402† | 101284.6 | 95006.5 | 0.4829 | mg/L | 0.4829 | mg/L | 20:48:10 |
| 2 | Zn 213.857† | 23118.8 | 22398.6 | 0.4865 | mg/L | 0.4865 | mg/L | 20:48:10 |

Mean Data: CCV

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2852264.4 | | | | | | 20032.85 | 0.70% |
| Ag 328.068† | 51184.2 | 0.2462 | mg/L | 0.00192 | 0.2462 | mg/L | 0.00192 | 0.78% |

QC value within limits for Ag 328.068 Recovery = 98.49%

| | | | | | | |
|---|---|---|---|---|---|---|
| Al 237.313† | 16992.9 | 2.433 mg/L | 0.0119 | 2.433 mg/L | 0.0119 | 0.49% |
| QC value within limits for Al 237.313 Recovery = 97.30% | | | | | | |
| As 188.979† | 238.5 | 0.5010 mg/L | 0.01072 | 0.5010 mg/L | 0.01072 | 2.14% |
| QC value within limits for As 188.979 Recovery = 100.19% | | | | | | |
| B 182.528† | 250.0 | 0.4836 mg/L | 0.00954 | 0.4836 mg/L | 0.00954 | 1.97% |
| QC value within limits for B 182.528 Recovery = 96.72% | | | | | | |
| Ba 233.527† | 71173.8 | 0.4925 mg/L | 0.00329 | 0.4925 mg/L | 0.00329 | 0.67% |
| QC value within limits for Ba 233.527 Recovery = 98.50% | | | | | | |
| Be 313.107† | 259175.6 | 0.0493 mg/L | 0.00004 | 0.0493 mg/L | 0.00004 | 0.09% |
| QC value within limits for Be 313.107 Recovery = 98.54% | | | | | | |
| Ca 315.886† | 743957.2 | 4.940 mg/L | 0.0038 | 4.940 mg/L | 0.0038 | 0.08% |
| QC value within limits for Ca 315.886 Recovery = 98.79% | | | | | | |
| Cd 228.802† | 12984.5 | 0.2445 mg/L | 0.00146 | 0.2445 mg/L | 0.00146 | 0.60% |
| QC value within limits for Cd 228.802 Recovery = 97.79% | | | | | | |
| Co 228.616† | 31781.7 | 0.4922 mg/L | 0.00226 | 0.4922 mg/L | 0.00226 | 0.46% |
| QC value within limits for Co 228.616 Recovery = 98.45% | | | | | | |
| Cr 267.716† | 73875.2 | 0.4896 mg/L | 0.00295 | 0.4896 mg/L | 0.00295 | 0.60% |
| QC value within limits for Cr 267.716 Recovery = 97.93% | | | | | | |
| Cu 324.752† | 100948.3 | 0.4858 mg/L | 0.00313 | 0.4858 mg/L | 0.00313 | 0.64% |
| QC value within limits for Cu 324.752 Recovery = 97.15% | | | | | | |
| Fe 238.204† | 264901.3 | 2.444 mg/L | 0.0168 | 2.444 mg/L | 0.0168 | 0.69% |
| QC value within limits for Fe 238.204 Recovery = 97.77% | | | | | | |
| Mg 279.077† | 106991.0 | 4.912 mg/L | 0.0353 | 4.912 mg/L | 0.0353 | 0.72% |
| QC value within limits for Mg 279.077 Recovery = 98.25% | | | | | | |
| Mn 257.610† | 419869.2 | 0.4956 mg/L | 0.00026 | 0.4956 mg/L | 0.00026 | 0.05% |
| QC value within limits for Mn 257.610 Recovery = 99.12% | | | | | | |
| Mo 202.031† | 4435.1 | 0.4930 mg/L | 0.00763 | 0.4930 mg/L | 0.00763 | 1.55% |
| QC value within limits for Mo 202.031 Recovery = 98.61% | | | | | | |
| Na 330.237† | 25658.2 | 24.08 mg/L | 0.141 | 24.08 mg/L | 0.141 | 0.58% |
| QC value within limits for Na 330.237 Recovery = 96.33% | | | | | | |
| Ni 231.604† | 21647.4 | 0.4912 mg/L | 0.00271 | 0.4912 mg/L | 0.00271 | 0.55% |
| QC value within limits for Ni 231.604 Recovery = 98.25% | | | | | | |
| Pb 220.353† | 2708.5 | 0.4948 mg/L | 0.00851 | 0.4948 mg/L | 0.00851 | 1.72% |
| QC value within limits for Pb 220.353 Recovery = 98.95% | | | | | | |
| Sb 206.836† | 1106.8 | 0.4894 mg/L | 0.01094 | 0.4894 mg/L | 0.01094 | 2.24% |
| QC value within limits for Sb 206.836 Recovery = 97.88% | | | | | | |
| Se 196.026† | 297.1 | 1.013 mg/L | 0.0117 | 1.013 mg/L | 0.0117 | 1.16% |
| QC value within limits for Se 196.026 Recovery = 101.30% | | | | | | |
| Sn 189.927† | 1064.6 | 0.4992 mg/L | 0.00426 | 0.4992 mg/L | 0.00426 | 0.85% |
| QC value within limits for Sn 189.927 Recovery = 99.84% | | | | | | |
| Ti 337.279† | 296633.3 | 0.4915 mg/L | 0.00094 | 0.4915 mg/L | 0.00094 | 0.19% |
| QC value within limits for Ti 337.279 Recovery = 98.30% | | | | | | |
| Tl 190.801† | 244.8 | 0.4928 mg/L | 0.00503 | 0.4928 mg/L | 0.00503 | 1.02% |
| QC value within limits for Tl 190.801 Recovery = 98.56% | | | | | | |
| V 292.402† | 95538.5 | 0.4856 mg/L | 0.00381 | 0.4856 mg/L | 0.00381 | 0.79% |
| QC value within limits for V 292.402 Recovery = 97.12% | | | | | | |
| Zn 213.857† | 22497.5 | 0.4886 mg/L | 0.00303 | 0.4886 mg/L | 0.00303 | 0.62% |
| QC value within limits for Zn 213.857 Recovery = 97.72% | | | | | | |

All analytes passed QC.

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**Sequence No.: 38** **Autosampler Location: 1**
**Sample ID: ICCB** **Date Collected: 11/30/01 8:50:15 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: ICCB**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2894536.2 | 2894536.2 | | | | | 20:51:49 |
| 1 | Ag 328.068† | 2772.1 | 127.6 | 0.0010 | mg/L | 0.0010 | mg/L | 20:51:54 |
| 1 | Al 237.313† | -94.3 | 18.2 | 0.0116 | mg/L | 0.0116 | mg/L | 20:52:14 |
| 1 | As 188.979† | -8.0 | 0.7 | 0.0008 | mg/L | 0.0008 | mg/L | 20:52:14 |
| 1 | B 182.528† | 2.9 | 6.7 | 0.0115 | mg/L | 0.0115 | mg/L | 20:52:14 |
| 1 | Ba 233.527† | -87.9 | 16.6 | -0.0004 | mg/L | -0.0004 | mg/L | 20:52:14 |
| 1 | Be 313.107† | 6677.9 | -73.4 | 0.0002 | mg/L | 0.0002 | mg/L | 20:51:54 |
| 1 | Ca 315.886† | 2413.3 | 239.0 | 0.0001 | mg/L | 0.0001 | mg/L | 20:51:54 |
| 1 | Cd 228.802† | 35.2 | 1.2 | 0.0002 | mg/L | 0.0002 | mg/L | 20:52:14 |
| 1 | Co 228.616† | -431.1 | -9.9 | -0.0009 | mg/L | -0.0009 | mg/L | 20:52:14 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Cr 267.716† | 1899.7 | -27.8 | 0.0000 mg/L | 0.0000 mg/L | 20:51:54 |
| 1 | Cu 324.752† | 778.0 | 165.6 | 0.0023 mg/L | 0.0023 mg/L | 20:51:54 |
| 1 | Fe 238.204† | 176.2 | 159.6 | 0.0037 mg/L | 0.0037 mg/L | 20:51:54 |
| 1 | Mg 279.077† | 196.1 | 75.2 | -0.0006 mg/L | -0.0006 mg/L | 20:51:54 |
| 1 | Mn 257.610† | 1915.6 | 14.8 | -0.0007 mg/L | -0.0007 mg/L | 20:51:54 |
| 1 | Mo 202.031† | -61.7 | -2.5 | 0.0002 mg/L | 0.0002 mg/L | 20:52:14 |
| 1 | Na 330.237† | 4131.5 | 212.5 | 0.7343 mg/L | 0.7343 mg/L | 20:51:54 |
| 1 | Ni 231.604† | -325.6 | 7.5 | 0.0001 mg/L | 0.0001 mg/L | 20:52:14 |
| 1 | Pb 220.353† | 77.9 | -10.0 | -0.0018 mg/L | -0.0018 mg/L | 20:52:14 |
| 1 | Sb 206.836† | 98.3 | -9.2 | -0.0023 mg/L | -0.0023 mg/L | 20:52:14 |
| 1 | Se 196.026† | -88.1 | 8.4 | 0.0252 mg/L | 0.0252 mg/L | 20:52:14 |
| 1 | Sn 189.927† | 0.4 | -0.2 | -0.0005 mg/L | -0.0005 mg/L | 20:52:14 |
| 1 | Ti 337.279† | 1619.5 | 16.0 | 0.0008 mg/L | 0.0008 mg/L | 20:51:54 |
| 1 | Tl 190.801† | -9.4 | 6.5 | 0.0154 mg/L | 0.0154 mg/L | 20:52:14 |
| 1 | V 292.402† | 2652.3 | -30.2 | 0.0014 mg/L | 0.0014 mg/L | 20:51:54 |
| 1 | Zn 213.857† | -121.2 | 12.7 | 0.0012 mg/L | 0.0012 mg/L | 20:52:14 |
| 2 | Y 360.073 | 2858928.4 | 2858928.4 | | | 20:52:21 |
| 2 | Ag 328.068† | 2743.4 | 132.8 | 0.0010 mg/L | 0.0010 mg/L | 20:52:26 |
| 2 | Al 237.313† | -91.0 | 20.3 | 0.0119 mg/L | 0.0119 mg/L | 20:52:46 |
| 2 | As 188.979† | -8.9 | -0.3 | -0.0013 mg/L | -0.0013 mg/L | 20:52:46 |
| 2 | B 182.528† | 0.2 | 4.1 | 0.0065 mg/L | 0.0065 mg/L | 20:52:46 |
| 2 | Ba 233.527† | -102.7 | 1.3 | -0.0006 mg/L | -0.0006 mg/L | 20:52:46 |
| 2 | Be 313.107† | 6731.9 | 58.1 | 0.0002 mg/L | 0.0002 mg/L | 20:52:26 |
| 2 | Ca 315.886† | 2441.6 | 295.0 | 0.0005 mg/L | 0.0005 mg/L | 20:52:26 |
| 2 | Cd 228.802† | 38.9 | 5.1 | 0.0003 mg/L | 0.0003 mg/L | 20:52:46 |
| 2 | Co 228.616† | -407.2 | 8.1 | -0.0006 mg/L | -0.0006 mg/L | 20:52:46 |
| 2 | Cr 267.716† | 1846.3 | -56.8 | -0.0001 mg/L | -0.0001 mg/L | 20:52:26 |
| 2 | Cu 324.752† | 757.7 | 155.3 | 0.0022 mg/L | 0.0022 mg/L | 20:52:26 |
| 2 | Fe 238.204† | 190.4 | 175.4 | 0.0038 mg/L | 0.0038 mg/L | 20:52:26 |
| 2 | Mg 279.077† | 186.6 | 68.3 | -0.0010 mg/L | -0.0010 mg/L | 20:52:26 |
| 2 | Mn 257.610† | 1805.6 | -68.7 | -0.0008 mg/L | -0.0008 mg/L | 20:52:26 |
| 2 | Mo 202.031† | -53.1 | 5.1 | 0.0010 mg/L | 0.0010 mg/L | 20:52:46 |
| 2 | Na 330.237† | 4026.6 | 160.2 | 0.6867 mg/L | 0.6867 mg/L | 20:52:26 |
| 2 | Ni 231.604† | -327.0 | 2.2 | 0.0000 mg/L | 0.0000 mg/L | 20:52:46 |
| 2 | Pb 220.353† | 85.0 | -2.2 | -0.0004 mg/L | -0.0004 mg/L | 20:52:46 |
| 2 | Sb 206.836† | 106.5 | -0.1 | 0.0018 mg/L | 0.0018 mg/L | 20:52:46 |
| 2 | Se 196.026† | -90.4 | 5.1 | 0.0139 mg/L | 0.0139 mg/L | 20:52:46 |
| 2 | Sn 189.927† | -5.2 | -5.6 | -0.0030 mg/L | -0.0030 mg/L | 20:52:46 |
| 2 | Ti 337.279† | 1595.4 | 11.9 | 0.0008 mg/L | 0.0008 mg/L | 20:52:26 |
| 2 | Tl 190.801† | -9.4 | 6.4 | 0.0152 mg/L | 0.0152 mg/L | 20:52:46 |
| 2 | V 292.402† | 2577.3 | -71.2 | 0.0012 mg/L | 0.0012 mg/L | 20:52:26 |
| 2 | Zn 213.857† | -130.5 | 2.3 | 0.0009 mg/L | 0.0009 mg/L | 20:52:46 |

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**Mean Data: ICCB**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2876732.3 | | | | | | 25178.54 | 0.88% |
| Ag 328.068† | 130.2 | 0.0010 | mg/L | 0.00002 | 0.0010 | mg/L | 0.00002 | 1.74% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 19.2 | 0.0118 | mg/L | 0.00022 | 0.0118 | mg/L | 0.00022 | 1.83% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 0.2 | -0.0002 | mg/L | 0.00145 | -0.0002 | mg/L | 0.00145 | 618.15% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 5.4 | 0.0090 | mg/L | 0.00357 | 0.0090 | mg/L | 0.00357 | 39.68% |
| QC value within limits for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 8.9 | -0.0005 | mg/L | 0.00008 | -0.0005 | mg/L | 0.00008 | 15.01% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -7.7 | 0.0002 | mg/L | 0.00002 | 0.0002 | mg/L | 0.00002 | 8.14% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.886† | 267.0 | 0.0003 | mg/L | 0.00026 | 0.0003 | mg/L | 0.00026 | 94.46% |
| QC value within limits for Ca 315.886 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | 3.1 | 0.0003 | mg/L | 0.00006 | 0.0003 | mg/L | 0.00006 | 24.92% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | -0.9 | -0.0008 | mg/L | 0.00020 | -0.0008 | mg/L | 0.00020 | 25.27% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | -42.3 | -0.0001 | mg/L | 0.00014 | -0.0001 | mg/L | 0.00014 | 255.22% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 324.752† | 160.4 | 0.0023 | mg/L | 0.00004 | 0.0023 | mg/L | 0.00004 | 1.56% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | | | |
| Fe 238.204† | 167.5 | 0.0037 | mg/L | 0.00010 | 0.0037 | mg/L | 0.00010 | 2.77% |

QC value within limits for Fe 238.204 Recovery = Not calculated
Mg 279.077† 71.8 -0.0008 mg/L 0.00022 -0.0008 mg/L 0.00022 27.89%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† -26.9 -0.0008 mg/L 0.00007 -0.0008 mg/L 0.00007 9.29%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 1.3 0.0006 mg/L 0.00060 0.0006 mg/L 0.00060 96.70%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 330.237† 186.3 0.7105 mg/L 0.03372 0.7105 mg/L 0.03372 4.75%
QC value within limits for Na 330.237 Recovery = Not calculated
Ni 231.604† 4.8 0.0001 mg/L 0.00009 0.0001 mg/L 0.00009 104.40%
QC value within limits for Ni 231.604 Recovery = Not calculated
Pb 220.353† -6.1 -0.0011 mg/L 0.00101 -0.0011 mg/L 0.00101 90.36%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -4.6 -0.0003 mg/L 0.00285 -0.0003 mg/L 0.00285 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 6.7 0.0195 mg/L 0.00799 0.0195 mg/L 0.00799 40.92%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† -2.9 -0.0017 mg/L 0.00179 -0.0017 mg/L 0.00179 103.48%
QC value within limits for Sn 189.927 Recovery = Not calculated
Ti 337.279† 14.0 0.0008 mg/L 0.00000 0.0008 mg/L 0.00000 0.58%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 190.801† 6.5 0.0153 mg/L 0.00017 0.0153 mg/L 0.00017 1.08%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† -50.7 0.0013 mg/L 0.00015 0.0013 mg/L 0.00015 11.32%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† 7.5 0.0010 mg/L 0.00016 0.0010 mg/L 0.00016 15.37%
QC value within limits for Zn 213.857 Recovery = Not calculated
All analytes passed QC.

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**Sequence No.: 39** **Autosampler Location: 29**
**Sample ID: 01110406-02sdx5** **Date Collected: 11/30/01 8:54:30 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: 01110406-02sdx5**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2909767.1 | 2909767.1 | | | | | 20:56:06 |
| 1 | Ag 328.068† | 2679.6 | 26.0 | 0.0005 | mg/L | 0.0005 | mg/L | 20:56:12 |
| 1 | Al 237.313† | -116.2 | -2.2 | 0.0080 | mg/L | 0.0080 | mg/L | 20:56:32 |
| 1 | As 188.979† | -6.6 | 2.1 | 0.0036 | mg/L | 0.0036 | mg/L | 20:56:32 |
| 1 | B 182.528† | 1.9 | 5.7 | 0.0090 | mg/L | 0.0090 | mg/L | 20:56:32 |
| 1 | Ba 233.527† | 820.8 | 879.3 | 0.0055 | mg/L | 0.0055 | mg/L | 20:56:32 |
| 1 | Be 313.107† | 6514.8 | -261.6 | 0.0002 | mg/L | 0.0002 | mg/L | 20:56:12 |
| 1 | Ca 315.886† | 871723.7 | 825156.4 | 5.480 | mg/L | 5.480 | mg/L | 20:56:06 |
| 1 | Cd 228.802† | 25.6 | -8.1 | 0.0000 | mg/L | 0.0000 | mg/L | 20:56:32 |
| 1 | Co 228.616† | -390.8 | 30.4 | -0.0003 | mg/L | -0.0003 | mg/L | 20:56:32 |
| 1 | Cr 267.716† | 1904.3 | -32.9 | -0.0001 | mg/L | -0.0001 | mg/L | 20:56:12 |
| 1 | Cu 324.752† | 39610.6 | 37011.8 | 0.1790 | mg/L | 0.1790 | mg/L | 20:56:12 |
| 1 | Fe 238.204† | 8359.5 | 7924.2 | 0.0748 | mg/L | 0.0748 | mg/L | 20:56:12 |
| 1 | Mg 279.077† | 15666.7 | 14755.0 | 0.6743 | mg/L | 0.6743 | mg/L | 20:56:12 |
| 1 | Mn 257.610† | 12259.4 | 9821.0 | 0.0109 | mg/L | 0.0109 | mg/L | 20:56:12 |
| 1 | Mo 202.031† | -60.8 | -1.3 | 0.0003 | mg/L | 0.0003 | mg/L | 20:56:32 |
| 1 | Na 330.237† | 14529.2 | 10058.7 | 9.724 | mg/L | 9.724 | mg/L | 20:56:12 |
| 1 | Ni 231.604† | -279.2 | 53.1 | 0.0012 | mg/L | 0.0012 | mg/L | 20:56:32 |
| 1 | Pb 220.353† | 102.8 | 13.2 | 0.0024 | mg/L | 0.0024 | mg/L | 20:56:32 |
| 1 | Sb 206.836† | 100.2 | -7.9 | -0.0017 | mg/L | -0.0017 | mg/L | 20:56:32 |
| 1 | Se 196.026† | -89.2 | 7.7 | 0.0230 | mg/L | 0.0230 | mg/L | 20:56:32 |
| 1 | Sn 189.927† | 9.2 | 8.1 | 0.0011 | mg/L | 0.0011 | mg/L | 20:56:32 |
| 1 | Ti 337.279† | 1593.3 | -16.9 | 0.0007 | mg/L | 0.0007 | mg/L | 20:56:12 |
| 1 | Tl 190.801† | -14.0 | 2.3 | 0.0071 | mg/L | 0.0071 | mg/L | 20:56:32 |
| 1 | V 292.402† | 2543.0 | -147.2 | 0.0008 | mg/L | 0.0008 | mg/L | 20:56:12 |
| 1 | Zn 213.857† | 3000.2 | 2975.4 | 0.0657 | mg/L | 0.0657 | mg/L | 20:56:32 |
| 2 | Y 360.073 | 2859819.1 | 2859819.1 | | | | | 20:56:38 |
| 2 | Ag 328.068† | 2755.7 | 143.8 | 0.0011 | mg/L | 0.0011 | mg/L | 20:56:43 |
| 2 | Al 237.313† | -98.1 | 13.4 | 0.0103 | mg/L | 0.0103 | mg/L | 20:57:03 |
| 2 | As 188.979† | -4.0 | 4.4 | 0.0086 | mg/L | 0.0086 | mg/L | 20:57:03 |
| 2 | B 182.528† | 2.3 | 6.2 | 0.0099 | mg/L | 0.0099 | mg/L | 20:57:03 |

Sample ID: 01110414-02
Analyst:
Sample Wt:
Dilution:

Date Collected: 11/30/01 9:28:44 PM
Sample Prep Volume:
Data Type: Original

Replicate Data: 01110414-02

| R | pl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | Y 360.073 | 2909475.9 | 2909475.9 | | | | | 21:30:18 |
| | 1 | Ag 328.068† | 2738.9 | 82.5 | 0.0008 | mg/L | 0.0008 | mg/L | 21:30:24 |
| | 1 | Al 237.313† | 2033.7 | 2038.2 | 0.2994 | mg/L | 0.2994 | mg/L | 21:30:24 |
| | 1 | As 188.979† | -11.7 | -2.8 | -0.0066 | mg/L | -0.0066 | mg/L | 21:30:44 |
| | 1 | B 182.528† | 4.7 | 8.4 | 0.0142 | mg/L | 0.0142 | mg/L | 21:30:44 |
| | 1 | Ba 233.527† | 2258.0 | 2243.4 | 0.0150 | mg/L | 0.0150 | mg/L | 21:30:44 |
| | 1 | Be 313.107† | 7032.0 | 229.9 | 0.0003 | mg/L | 0.0003 | mg/L | 21:30:24 |
| | 1 | Ca 315.886† | 148799.4 | 139153.7 | 0.9228 | mg/L | 0.9228 | mg/L | 21:30:18 |
| | 1 | Cd 228.802† | 28.7 | -5.2 | 0.0001 | mg/L | 0.0001 | mg/L | 21:30:44 |
| | 1 | Co 228.616† | -257.7 | 156.8 | 0.0017 | mg/L | 0.0017 | mg/L | 21:30:44 |
| | 1 | Cr 267.716† | 2996.3 | 1003.6 | 0.0069 | mg/L | 0.0069 | mg/L | 21:30:24 |
| | 1 | Cu 324.752† | 1114.3 | 480.9 | 0.0038 | mg/L | 0.0038 | mg/L | 21:30:24 |
| | 1 | Fe 238.204† | 28759.6 | 27285.6 | 0.2535 | mg/L | 0.2535 | mg/L | 21:30:24 |
| | 1 | Mg 279.077† | 17095.7 | 16112.7 | 0.7364 | mg/L | 0.7364 | mg/L | 21:30:24 |
| | 1 | Mn 257.610† | 19424.5 | 16622.1 | 0.0189 | mg/L | 0.0189 | mg/L | 21:30:24 |
| | 1 | Mo 202.031† | -52.3 | 6.7 | 0.0012 | mg/L | 0.0012 | mg/L | 21:30:44 |
| | 1 | Na 330.237† | 7503.6 | 3392.4 | 3.665 | mg/L | 3.665 | mg/L | 21:30:24 |
| | 1 | Ni 231.604† | -48.6 | 271.9 | 0.0061 | mg/L | 0.0061 | mg/L | 21:30:44 |
| | 1 | Pb 220.353† | 82.5 | -5.9 | -0.0011 | mg/L | -0.0011 | mg/L | 21:30:44 |
| | 1 | Sb 206.836† | 104.8 | -3.5 | 0.0002 | mg/L | 0.0002 | mg/L | 21:30:44 |
| | 1 | Se 196.026† | -95.4 | 1.9 | 0.0033 | mg/L | 0.0033 | mg/L | 21:30:44 |
| | 1 | Sn 189.927† | -1.7 | -2.2 | -0.0014 | mg/L | -0.0014 | mg/L | 21:30:44 |
| | 1 | Ti 337.279† | 8670.1 | 6699.4 | 0.0118 | mg/L | 0.0118 | mg/L | 21:30:24 |
| | 1 | Tl 190.801† | -13.2 | 3.0 | 0.0087 | mg/L | 0.0087 | mg/L | 21:30:44 |
| | 1 | V 292.402† | 2664.9 | -31.3 | 0.0013 | mg/L | 0.0013 | mg/L | 21:30:24 |
| | 1 | Zn 213.857† | 5261.4 | 5121.6 | 0.1126 | mg/L | 0.1126 | mg/L | 21:30:24 |
| | 2 | Y 360.073 | 2920882.6 | 2920882.6 | | | | | 21:30:50 |
| | 2 | Ag 328.068† | 2690.6 | 26.8 | 0.0005 | mg/L | 0.0005 | mg/L | 21:30:55 |
| | 2 | Al 237.313† | 1964.7 | 1965.4 | 0.2889 | mg/L | 0.2889 | mg/L | 21:30:55 |
| | 2 | As 188.979† | -7.8 | 1.0 | 0.0014 | mg/L | 0.0014 | mg/L | 21:31:15 |
| | 2 | B 182.528† | 5.3 | 9.0 | 0.0153 | mg/L | 0.0153 | mg/L | 21:31:15 |
| | 2 | Ba 233.527† | 2246.3 | 2224.0 | 0.0149 | mg/L | 0.0149 | mg/L | 21:31:15 |
| | 2 | Be 313.107† | 6974.2 | 149.2 | 0.0002 | mg/L | 0.0002 | mg/L | 21:30:55 |
| | 2 | Ca 315.886† | 149449.2 | 139216.5 | 0.9232 | mg/L | 0.9232 | mg/L | 21:30:50 |
| | 2 | Cd 228.802† | 45.3 | 10.4 | 0.0004 | mg/L | 0.0004 | mg/L | 21:31:15 |
| | 2 | Co 228.616† | -283.0 | 133.8 | 0.0013 | mg/L | 0.0013 | mg/L | 21:31:15 |
| | 2 | Cr 267.716† | 3038.6 | 1032.5 | 0.0071 | mg/L | 0.0071 | mg/L | 21:30:55 |
| | 2 | Cu 324.752† | 1135.6 | 496.9 | 0.0039 | mg/L | 0.0039 | mg/L | 21:30:55 |
| | 2 | Fe 238.204† | 28831.1 | 27246.6 | 0.2531 | mg/L | 0.2531 | mg/L | 21:30:55 |
| | 2 | Mg 279.077† | 17059.9 | 16015.5 | 0.7319 | mg/L | 0.7319 | mg/L | 21:30:55 |
| | 2 | Mn 257.610† | 19490.4 | 16612.4 | 0.0189 | mg/L | 0.0189 | mg/L | 21:30:55 |
| | 2 | Mo 202.031† | -48.3 | 10.7 | 0.0017 | mg/L | 0.0017 | mg/L | 21:31:15 |
| | 2 | Na 330.237† | 7504.0 | 3365.0 | 3.640 | mg/L | 3.640 | mg/L | 21:30:55 |
| | 2 | Ni 231.604† | -39.6 | 280.6 | 0.0063 | mg/L | 0.0063 | mg/L | 21:31:15 |
| | 2 | Pb 220.353† | 77.1 | -11.4 | -0.0021 | mg/L | -0.0021 | mg/L | 21:31:15 |
| | 2 | Sb 206.836† | 108.2 | -0.7 | 0.0014 | mg/L | 0.0014 | mg/L | 21:31:15 |
| | 2 | Se 196.026† | -90.1 | 7.2 | 0.0216 | mg/L | 0.0216 | mg/L | 21:31:15 |
| | 2 | Sn 189.927† | -7.8 | -8.0 | -0.0042 | mg/L | -0.0042 | mg/L | 21:31:15 |
| | 2 | Ti 337.279† | 8705.3 | 6700.6 | 0.0118 | mg/L | 0.0118 | mg/L | 21:30:55 |
| | 2 | Tl 190.801† | -16.6 | -0.2 | 0.0025 | mg/L | 0.0025 | mg/L | 21:31:15 |
| | 2 | V 292.402† | 2703.5 | -4.7 | 0.0014 | mg/L | 0.0014 | mg/L | 21:30:55 |
| | 2 | Zn 213.857† | 5278.3 | 5118.1 | 0.1125 | mg/L | 0.1125 | mg/L | 21:30:55 |

Mean Data: 01110414-02

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2915179.2 | | | | | | 8065.76 | 0.28% |
| Ag 328.068† | 54.6 | 0.0007 | mg/L | 0.00019 | 0.0007 | mg/L | 0.00019 | 28.80% |
| Al 237.313† | 2001.8 | 0.2941 | mg/L | 0.00739 | 0.2941 | mg/L | 0.00739 | 2.51% |
| As 188.979† | -0.9 | -0.0026 | mg/L | 0.00561 | -0.0026 | mg/L | 0.00561 | 216.40% |
| B 182.528† | 8.7 | 0.0148 | mg/L | 0.00079 | 0.0148 | mg/L | 0.00079 | 5.33% |

| | | | | | | |
|---|---|---|---|---|---|---|
| Ba 233.527† | 2233.7 | 0.0149 mg/L | 0.00009 | 0.0149 mg/L | 0.00009 | 0.64% |
| Be 313.107† | 189.6 | 0.0003 mg/L | 0.00001 | 0.0003 mg/L | 0.00001 | 4.24% |
| Ca 315.886† | 139185.1 | 0.9230 mg/L | 0.00030 | 0.9230 mg/L | 0.00030 | 0.03% |
| Cd 228.802† | 2.6 | 0.0003 mg/L | 0.00017 | 0.0003 mg/L | 0.00017 | 64.21% |
| Co 228.616† | 145.3 | 0.0015 mg/L | 0.00025 | 0.0015 mg/L | 0.00025 | 17.05% |
| Cr 267.716† | 1018.1 | 0.0070 mg/L | 0.00014 | 0.0070 mg/L | 0.00014 | 1.94% |
| Cu 324.752† | 488.9 | 0.0038 mg/L | 0.00005 | 0.0038 mg/L | 0.00005 | 1.40% |
| Fe 238.204† | 27266.1 | 0.2533 mg/L | 0.00025 | 0.2533 mg/L | 0.00025 | 0.10% |
| Mg 279.077† | 16064.1 | 0.7341 mg/L | 0.00316 | 0.7341 mg/L | 0.00316 | 0.43% |
| Mn 257.610† | 16617.3 | 0.0189 mg/L | 0.00001 | 0.0189 mg/L | 0.00001 | 0.04% |
| Mo 202.031† | 8.7 | 0.0014 mg/L | 0.00031 | 0.0014 mg/L | 0.00031 | 21.79% |
| Na 330.237† | 3378.7 | 3.652 mg/L | 0.0177 | 3.652 mg/L | 0.0177 | 0.48% |
| Ni 231.604† | 276.3 | 0.0062 mg/L | 0.00014 | 0.0062 mg/L | 0.00014 | 2.25% |
| Pb 220.353† | -8.7 | -0.0016 mg/L | 0.00070 | -0.0016 mg/L | 0.00070 | 44.48% |
| Sb 206.836† | -2.1 | 0.0008 mg/L | 0.00088 | 0.0008 mg/L | 0.00088 | 112.75% |
| Se 196.026† | 4.6 | 0.0124 mg/L | 0.01292 | 0.0124 mg/L | 0.01292 | 103.92% |
| Sn 189.927† | -5.1 | -0.0028 mg/L | 0.00192 | -0.0028 mg/L | 0.00192 | 68.53% |
| Ti 337.279† | 6700.0 | 0.0118 mg/L | 0.00000 | 0.0118 mg/L | 0.00000 | 0.01% |
| Tl 190.801† | 1.4 | 0.0056 mg/L | 0.00439 | 0.0056 mg/L | 0.00439 | 78.04% |
| V 292.402† | -18.0 | 0.0014 mg/L | 0.00010 | 0.0014 mg/L | 0.00010 | 6.93% |
| Zn 213.857† | 5119.9 | 0.1126 mg/L | 0.00006 | 0.1126 mg/L | 0.00006 | 0.05% |

**Sequence No.: 48** **Autosampler Location: 38**
**Sample ID: 01110414-03** **Date Collected: 11/30/01 9:32:58 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

**Replicate Data: 01110414-03**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2898246.7 | 2898246.7 | | | | | 21:34:33 |
| 1 | Ag 328.068† | 2697.1 | 52.8 | 0.0006 | mg/L | 0.0006 | mg/L | 21:34:38 |
| 1 | Al 237.313† | 731.2 | 804.7 | 0.1227 | mg/L | 0.1227 | mg/L | 21:34:58 |
| 1 | As 188.979† | -3.6 | 4.9 | 0.0096 | mg/L | 0.0096 | mg/L | 21:34:58 |
| 1 | B 182.528† | 88.8 | 88.5 | 0.1680 | mg/L | 0.1680 | mg/L | 21:34:58 |
| 1 | Ba 233.527† | 6661.5 | 6447.0 | 0.0441 | mg/L | 0.0441 | mg/L | 21:34:58 |
| 1 | Be 313.107† | 6664.6 | -94.2 | 0.0002 | mg/L | 0.0002 | mg/L | 21:34:38 |
| 1 | Ca 315.886† | 3742346.5 | 3563341.4 | 23.67 | mg/L | 23.67 | mg/L | 21:34:33 |
| 1 | Cd 228.802† | 1228.1 | 1137.6 | 0.0217 | mg/L | 0.0217 | mg/L | 21:34:58 |
| 1 | Co 228.616† | -216.8 | 194.8 | 0.0022 | mg/L | 0.0022 | mg/L | 21:34:58 |
| 1 | Cr 267.716† | 3875.5 | 1852.3 | 0.0125 | mg/L | 0.0125 | mg/L | 21:34:58 |
| 1 | Cu 324.752† | 1232.8 | 598.0 | 0.0044 | mg/L | 0.0044 | mg/L | 21:34:38 |
| 1 | Fe 238.204† | 23860.8 | 22724.2 | 0.2085 | mg/L | 0.2085 | mg/L | 21:34:38 |
| 1 | Mg 279.077† | 88969.9 | 84651.5 | 3.888 | mg/L | 3.888 | mg/L | 21:34:38 |
| 1 | Mn 257.610† | 40233.4 | 36518.5 | 0.0425 | mg/L | 0.0425 | mg/L | 21:34:38 |
| 1 | Mo 202.031† | -45.2 | 13.4 | 0.0020 | mg/L | 0.0020 | mg/L | 21:34:58 |
| 1 | Na 330.237† | 7393.9 | 3315.5 | 3.638 | mg/L | 3.638 | mg/L | 21:34:38 |
| 1 | Ni 231.604† | 293.4 | 597.6 | 0.0135 | mg/L | 0.0135 | mg/L | 21:34:58 |
| 1 | Pb 220.353† | 81.4 | -6.7 | -0.0012 | mg/L | -0.0012 | mg/L | 21:34:58 |
| 1 | Sb 206.836† | 115.5 | 7.1 | 0.0048 | mg/L | 0.0048 | mg/L | 21:34:58 |
| 1 | Se 196.026† | -87.4 | 9.1 | 0.0278 | mg/L | 0.0278 | mg/L | 21:34:58 |
| 1 | Sn 189.927† | 23.8 | 22.1 | 0.0004 | mg/L | 0.0004 | mg/L | 21:34:58 |
| 1 | Ti 337.279† | 4067.9 | 2346.7 | 0.0046 | mg/L | 0.0046 | mg/L | 21:34:38 |
| 1 | Tl 190.801† | -17.2 | -0.9 | 0.0010 | mg/L | 0.0010 | mg/L | 21:34:58 |
| 1 | V 292.402† | 3098.7 | 391.8 | 0.0034 | mg/L | 0.0034 | mg/L | 21:34:38 |
| 1 | Zn 213.857† | 12194.8 | 11746.5 | 0.2572 | mg/L | 0.2572 | mg/L | 21:34:38 |
| 2 | Y 360.073 | 2938844.7 | 2938844.7 | | | | | 21:35:04 |
| 2 | Ag 328.068† | 2710.1 | 29.5 | 0.0005 | mg/L | 0.0005 | mg/L | 21:35:10 |
| 2 | Al 237.313† | 790.2 | 850.5 | 0.1293 | mg/L | 0.1293 | mg/L | 21:35:30 |
| 2 | As 188.979† | -7.1 | 1.7 | 0.0028 | mg/L | 0.0028 | mg/L | 21:35:30 |
| 2 | B 182.528† | 81.2 | 80.3 | 0.1519 | mg/L | 0.1519 | mg/L | 21:35:30 |
| 2 | Ba 233.527† | 6623.7 | 6323.8 | 0.0433 | mg/L | 0.0433 | mg/L | 21:35:30 |
| 2 | Be 313.107† | 6625.0 | -219.2 | 0.0002 | mg/L | 0.0002 | mg/L | 21:35:10 |
| 2 | Ca 315.886† | 3774566.8 | 3544360.7 | 23.54 | mg/L | 23.54 | mg/L | 21:35:04 |
| 2 | Cd 228.802† | 1220.8 | 1114.6 | 0.0213 | mg/L | 0.0213 | mg/L | 21:35:30 |
| 2 | Co 228.616† | -226.9 | 188.2 | 0.0021 | mg/L | 0.0021 | mg/L | 21:35:30 |
| 2 | Cr 267.716† | 3837.6 | 1765.7 | 0.0119 | mg/L | 0.0119 | mg/L | 21:35:30 |
| 2 | Cu 324.752† | 1174.0 | 526.5 | 0.0040 | mg/L | 0.0040 | mg/L | 21:35:10 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Fe 238.204† | 23485.1 | 22057.1 | 0.2024 mg/L | 0.2024 mg/L | 21:35:10 |
| 2 | Mg 279.077† | 88035.3 | 82602.4 | 3.794 mg/L | 3.794 mg/L | 21:35:10 |
| 2 | Mn 257.610† | 39597.1 | 35391.2 | 0.0411 mg/L | 0.0411 mg/L | 21:35:10 |
| 2 | Mo 202.031† | -33.2 | 25.2 | 0.0033 mg/L | 0.0033 mg/L | 21:35:30 |
| 2 | Na 330.237† | 7272.5 | 3104.2 | 3.444 mg/L | 3.444 mg/L | 21:35:10 |
| 2 | Ni 231.604† | 281.1 | 582.2 | 0.0132 mg/L | 0.0132 mg/L | 21:35:30 |
| 2 | Pb 220.353† | 77.0 | -11.9 | -0.0022 mg/L | -0.0022 mg/L | 21:35:30 |
| 2 | Sb 206.836† | 107.8 | -1.6 | 0.0009 mg/L | 0.0009 mg/L | 21:35:30 |
| 2 | Se 196.026† | -89.0 | 8.8 | 0.0268 mg/L | 0.0268 mg/L | 21:35:30 |
| 2 | Sn 189.927† | 24.4 | 22.4 | 0.0005 mg/L | 0.0005 mg/L | 21:35:30 |
| 2 | Ti 337.279† | 3958.0 | 2189.9 | 0.0044 mg/L | 0.0044 mg/L | 21:35:10 |
| 2 | Tl 190.801† | -17.7 | -1.1 | 0.0005 mg/L | 0.0005 mg/L | 21:35:30 |
| 2 | V 292.402† | 3132.5 | 382.8 | 0.0033 mg/L | 0.0033 mg/L | 21:35:10 |
| 2 | Zn 213.857† | 12051.2 | 11451.2 | 0.2507 mg/L | 0.2507 mg/L | 21:35:10 |

**Mean Data: 01110414-03**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.D v. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2918545.7 | | | | | | 28707.14 | 0.98% |
| Ag 328.068† | 41.2 | 0.0006 | mg/L | 0.00008 | 0.0006 | mg/L | 0.00008 | 13.31% |
| Al 237.313† | 827.6 | 0.1260 | mg/L | 0.00469 | 0.1260 | mg/L | 0.00469 | 3.72% |
| As 188.979† | 3.3 | 0.0062 | mg/L | 0.00479 | 0.0062 | mg/L | 0.00479 | 77.05% |
| B 182.528† | 84.4 | 0.1600 | mg/L | 0.01136 | 0.1600 | mg/L | 0.01136 | 7.10% |
| Ba 233.527† | 6385.4 | 0.0437 | mg/L | 0.00060 | 0.0437 | mg/L | 0.00060 | 1.38% |
| Be 313.107† | -156.7 | 0.0002 | mg/L | 0.00002 | 0.0002 | mg/L | 0.00002 | 8.87% |
| Ca 315.886† | 3553851.1 | 23.61 | mg/L | 0.089 | 23.61 | mg/L | 0.089 | 0.38% |
| Cd 228.802† | 1126.1 | 0.0215 | mg/L | 0.00028 | 0.0215 | mg/L | 0.00028 | 1.29% |
| Co 228.616† | 191.5 | 0.0022 | mg/L | 0.00007 | 0.0022 | mg/L | 0.00007 | 3.29% |
| Cr 267.716† | 1809.0 | 0.0122 | mg/L | 0.00041 | 0.0122 | mg/L | 0.00041 | 3.32% |
| Cu 324.752† | 562.3 | 0.0042 | mg/L | 0.00024 | 0.0042 | mg/L | 0.00024 | 5.79% |
| Fe 238.204† | 22390.6 | 0.2054 | mg/L | 0.00429 | 0.2054 | mg/L | 0.00429 | 2.09% |
| Mg 279.077† | 83627.0 | 3.841 | mg/L | 0.0666 | 3.841 | mg/L | 0.0666 | 1.73% |
| Mn 257.610† | 35954.9 | 0.0418 | mg/L | 0.00094 | 0.0418 | mg/L | 0.00094 | 2.26% |
| Mo 202.031† | 19.3 | 0.0026 | mg/L | 0.00093 | 0.0026 | mg/L | 0.00093 | 35.60% |
| Na 330.237† | 3209.8 | 3.541 | mg/L | 0.1375 | 3.541 | mg/L | 0.1375 | 3.88% |
| Ni 231.604† | 589.9 | 0.0134 | mg/L | 0.00025 | 0.0134 | mg/L | 0.00025 | 1.85% |
| Pb 220.353† | -9.3 | -0.0017 | mg/L | 0.00067 | -0.0017 | mg/L | 0.00067 | 39.33% |
| Sb 206.836† | 2.8 | 0.0029 | mg/L | 0.00274 | 0.0029 | mg/L | 0.00274 | 95.32% |
| Se 196.026† | 9.0 | 0.0273 | mg/L | 0.00075 | 0.0273 | mg/L | 0.00075 | 2.74% |
| Sn 189.927† | 22.2 | 0.0005 | mg/L | 0.00010 | 0.0005 | mg/L | 0.00010 | 21.33% |
| Ti 337.279† | 2268.3 | 0.0045 | mg/L | 0.00018 | 0.0045 | mg/L | 0.00018 | 4.06% |
| Tl 190.801† | -1.0 | 0.0007 | mg/L | 0.00032 | 0.0007 | mg/L | 0.00032 | 43.26% |
| V 292.402† | 387.3 | 0.0033 | mg/L | 0.00003 | 0.0033 | mg/L | 0.00003 | 0.86% |
| Zn 213.857† | 11598.8 | 0.2539 | mg/L | 0.00456 | 0.2539 | mg/L | 0.00456 | 1.79% |

**Sequence No.: 49**
**Sample ID: CCV**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 3**
**Date Collected: 11/30/01 9:37:13 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: CCV**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2860829.5 | 2860829.5 | | | | | 21:38:50 |
| 1 | Ag 328.068† | 55936.9 | 51472.3 | 0.2476 | mg/L | 0.2476 | mg/L | 21:38:55 |
| 1 | Al 237.313† | 17315.4 | 16820.6 | 2.408 | mg/L | 2.408 | mg/L | 21:38:55 |
| 1 | As 188.979† | 232.7 | 233.0 | 0.4893 | mg/L | 0.4893 | mg/L | 21:39:15 |
| 1 | B 182.528† | 246.3 | 241.7 | 0.4674 | mg/L | 0.4674 | mg/L | 21:39:15 |
| 1 | Ba 233.527† | 73084.5 | 70640.2 | 0.4888 | mg/L | 0.4888 | mg/L | 21:38:55 |
| 1 | Be 313.107† | 273403.4 | 257439.7 | 0.0489 | mg/L | 0.0489 | mg/L | 21:38:50 |
| 1 | Ca 315.886† | 768313.1 | 739497.0 | 4.910 | mg/L | 4.910 | mg/L | 21:38:50 |
| 1 | Cd 228.802† | 13321.5 | 12825.2 | 0.2415 | mg/L | 0.2415 | mg/L | 21:38:55 |
| 1 | Co 228.616† | 32273.4 | 31551.0 | 0.4887 | mg/L | 0.4887 | mg/L | 21:38:55 |
| 1 | Cr 267.716† | 77776.2 | 73228.0 | 0.4854 | mg/L | 0.4854 | mg/L | 21:38:55 |
| 1 | Cu 324.752† | 102977.9 | 98815.6 | 0.4755 | mg/L | 0.4755 | mg/L | 21:38:55 |
| 1 | Fe 238.204† | 272236.4 | 262748.6 | 2.424 | mg/L | 2.424 | mg/L | 21:38:55 |
| 1 | Mg 279.077† | 110076.8 | 106132.1 | 4.873 | mg/L | 4.873 | mg/L | 21:38:55 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Mn 257.610† | 433838.0 | 416919.1 | 0.4921 mg/L | 0.4921 mg/L | 21:38:50 |
| 1 | Mo 202.031† | 4450.6 | 4352.0 | 0.4838 mg/L | 0.4838 mg/L | 21:39:15 |
| 1 | Na 330.237† | 30134.8 | 25356.7 | 23.81 mg/L | 23.81 mg/L | 21:38:55 |
| 1 | Ni 231.604† | 21872.4 | 21428.9 | 0.4863 mg/L | 0.4863 mg/L | 21:38:55 |
| 1 | Pb 220.353† | 2841.1 | 2657.9 | 0.4855 mg/L | 0.4855 mg/L | 21:39:15 |
| 1 | Sb 206.836† | 1240.1 | 1094.0 | 0.4837 mg/L | 0.4837 mg/L | 21:39:15 |
| 1 | Se 196.026† | 207.3 | 292.5 | 0.9975 mg/L | 0.9975 mg/L | 21:39:15 |
| 1 | Sn 189.927† | 1084.4 | 1046.0 | 0.4905 mg/L | 0.4905 mg/L | 21:39:15 |
| 1 | Ti 337.279† | 305750.2 | 293575.0 | 0.4864 mg/L | 0.4864 mg/L | 21:38:50 |
| 1 | Tl 190.801† | 225.4 | 233.1 | 0.4698 mg/L | 0.4698 mg/L | 21:39:15 |
| 1 | V 292.402† | 100854.3 | 94782.1 | 0.4817 mg/L | 0.4817 mg/L | 21:38:55 |
| 1 | Zn 213.857† | 23226.9 | 22546.5 | 0.4897 mg/L | 0.4897 mg/L | 21:38:55 |
| 2 | Y 360.073 | 2851540.3 | 2851540.3 | | | 21:39:22 |
| 2 | Ag 328.068† | 55958.3 | 51668.9 | 0.2486 mg/L | 0.2486 mg/L | 21:39:28 |
| 2 | Al 237.313† | 17257.3 | 16818.7 | 2.408 mg/L | 2.408 mg/L | 21:39:28 |
| 2 | As 188.979† | 232.6 | 233.5 | 0.4904 mg/L | 0.4904 mg/L | 21:39:48 |
| 2 | B 182.528† | 254.5 | 250.4 | 0.4844 mg/L | 0.4844 mg/L | 21:39:48 |
| 2 | Ba 233.527† | 73202.1 | 70983.8 | 0.4912 mg/L | 0.4912 mg/L | 21:39:28 |
| 2 | Be 313.107† | 272949.0 | 257859.3 | 0.0490 mg/L | 0.0490 mg/L | 21:39:22 |
| 2 | Ca 315.886† | 766678.7 | 740330.2 | 4.915 mg/L | 4.915 mg/L | 21:39:22 |
| 2 | Cd 228.802† | 13358.7 | 12903.1 | 0.2430 mg/L | 0.2430 mg/L | 21:39:28 |
| 2 | Co 228.616† | 32298.8 | 31677.1 | 0.4906 mg/L | 0.4906 mg/L | 21:39:28 |
| 2 | Cr 267.716† | 77980.5 | 73670.4 | 0.4883 mg/L | 0.4883 mg/L | 21:39:28 |
| 2 | Cu 324.752† | 103839.1 | 99973.3 | 0.4811 mg/L | 0.4811 mg/L | 21:39:28 |
| 2 | Fe 238.204† | 272771.8 | 264123.0 | 2.437 mg/L | 2.437 mg/L | 21:39:28 |
| 2 | Mg 279.077† | 110296.1 | 106690.5 | 4.899 mg/L | 4.899 mg/L | 21:39:28 |
| 2 | Mn 257.610† | 433431.7 | 417889.8 | 0.4933 mg/L | 0.4933 mg/L | 21:39:22 |
| 2 | Mo 202.031† | 4485.3 | 4399.6 | 0.4891 mg/L | 0.4891 mg/L | 21:39:48 |
| 2 | Na 330.237† | 30241.4 | 25554.7 | 23.99 mg/L | 23.99 mg/L | 21:39:28 |
| 2 | Ni 231.604† | 21938.9 | 21562.0 | 0.4893 mg/L | 0.4893 mg/L | 21:39:28 |
| 2 | Pb 220.353† | 2849.0 | 2674.5 | 0.4885 mg/L | 0.4885 mg/L | 21:39:48 |
| 2 | Sb 206.836† | 1233.6 | 1091.6 | 0.4826 mg/L | 0.4826 mg/L | 21:39:48 |
| 2 | Se 196.026† | 216.1 | 301.7 | 1.029 mg/L | 1.029 mg/L | 21:39:48 |
| 2 | Sn 189.927† | 1081.6 | 1046.8 | 0.4908 mg/L | 0.4908 mg/L | 21:39:48 |
| 2 | Ti 337.279† | 304972.5 | 293783.3 | 0.4868 mg/L | 0.4868 mg/L | 21:39:22 |
| 2 | Tl 190.801† | 233.8 | 241.9 | 0.4871 mg/L | 0.4871 mg/L | 21:39:48 |
| 2 | V 292.402† | 101071.2 | 95309.3 | 0.4844 mg/L | 0.4844 mg/L | 21:39:28 |
| 2 | Zn 213.857† | 23282.3 | 22673.2 | 0.4925 mg/L | 0.4925 mg/L | 21:39:28 |

**Mean Data: CCV**

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2856184.9 | | | | | | 6568.50 | 0.23% |
| Ag 328.068† | 51570.6 | 0.2481 | mg/L | 0.00067 | 0.2481 | mg/L | 0.00067 | 0.27% |
| QC value within limits for Ag 328.068 Recovery = 99.23% | | | | | | | | |
| Al 237.313† | 16819.7 | 2.408 | mg/L | 0.0003 | 2.408 | mg/L | 0.0003 | 0.01% |
| QC value within limits for Al 237.313 Recovery = 96.31% | | | | | | | | |
| As 188.979† | 233.2 | 0.4898 | mg/L | 0.00080 | 0.4898 | mg/L | 0.00080 | 0.16% |
| QC value within limits for As 188.979 Recovery = 97.97% | | | | | | | | |
| B 182.528† | 246.0 | 0.4759 | mg/L | 0.01202 | 0.4759 | mg/L | 0.01202 | 2.53% |
| QC value within limits for B 182.528 Recovery = 95.18% | | | | | | | | |
| Ba 233.527† | 70812.0 | 0.4900 | mg/L | 0.00168 | 0.4900 | mg/L | 0.00168 | 0.34% |
| QC value within limits for Ba 233.527 Recovery = 98.00% | | | | | | | | |
| Be 313.107† | 257649.5 | 0.0490 | mg/L | 0.00006 | 0.0490 | mg/L | 0.00006 | 0.11% |
| QC value within limits for Be 313.107 Recovery = 97.96% | | | | | | | | |
| Ca 315.886† | 739913.6 | 4.913 | mg/L | 0.0039 | 4.913 | mg/L | 0.0039 | 0.08% |
| QC value within limits for Ca 315.886 Recovery = 98.25% | | | | | | | | |
| Cd 228.802† | 12864.1 | 0.2423 | mg/L | 0.00104 | 0.2423 | mg/L | 0.00104 | 0.43% |
| QC value within limits for Cd 228.802 Recovery = 96.91% | | | | | | | | |
| Co 228.616† | 31614.0 | 0.4896 | mg/L | 0.00138 | 0.4896 | mg/L | 0.00138 | 0.28% |
| QC value within limits for Co 228.616 Recovery = 97.93% | | | | | | | | |
| Cr 267.716† | 73449.2 | 0.4868 | mg/L | 0.00207 | 0.4868 | mg/L | 0.00207 | 0.43% |
| QC value within limits for Cr 267.716 Recovery = 97.36% | | | | | | | | |
| Cu 324.752† | 99394.5 | 0.4783 | mg/L | 0.00393 | 0.4783 | mg/L | 0.00393 | 0.82% |
| QC value within limits for Cu 324.752 Recovery = 95.66% | | | | | | | | |
| Fe 238.204† | 263435.8 | 2.431 | mg/L | 0.0090 | 2.431 | mg/L | 0.0090 | 0.37% |
| QC value within limits for Fe 238.204 Recovery = 97.23% | | | | | | | | |
| Mg 279.077† | 106411.3 | 4.886 | mg/L | 0.0182 | 4.886 | mg/L | 0.0182 | 0.37% |
| QC value within limits for Mg 279.077 Recovery = 97.72% | | | | | | | | |
| Mn 257.610† | 417404.4 | 0.4927 | mg/L | 0.00081 | 0.4927 | mg/L | 0.00081 | 0.16% |

QC value within limits for Mn 257.610 Recovery = 98.54%

| | | | | | | |
|---|---|---|---|---|---|---|
| Mo 202.031† | 4375.8 | 0.4865 mg/L | 0.00373 | 0.4865 mg/L | 0.00373 | 0.77% |

QC value within limits for Mo 202.031 Recovery = 97.29%

| | | | | | | |
|---|---|---|---|---|---|---|
| Na 330.237† | 25455.7 | 23.90 mg/L | 0.128 | 23.90 mg/L | 0.128 | 0.54% |

QC value within limits for Na 330.237 Recovery = 95.60%

| | | | | | | |
|---|---|---|---|---|---|---|
| Ni 231.604† | 21495.4 | 0.4878 mg/L | 0.00214 | 0.4878 mg/L | 0.00214 | 0.44% |

QC value within limits for Ni 231.604 Recovery = 97.56%

| | | | | | | |
|---|---|---|---|---|---|---|
| Pb 220.353† | 2666.2 | 0.4870 mg/L | 0.00213 | 0.4870 mg/L | 0.00213 | 0.44% |

QC value within limits for Pb 220.353 Recovery = 97.41%

| | | | | | | |
|---|---|---|---|---|---|---|
| Sb 206.836† | 1092.8 | 0.4832 mg/L | 0.00077 | 0.4832 mg/L | 0.00077 | 0.16% |

QC value within limits for Sb 206.836 Recovery = 96.64%

| | | | | | | |
|---|---|---|---|---|---|---|
| Se 196.026† | 297.1 | 1.013 mg/L | 0.0221 | 1.013 mg/L | 0.0221 | 2.18% |

QC value within limits for Se 196.026 Recovery = 101.31%

| | | | | | | |
|---|---|---|---|---|---|---|
| Sn 189.927† | 1046.4 | 0.4906 mg/L | 0.00026 | 0.4906 mg/L | 0.00026 | 0.05% |

QC value within limits for Sn 189.927 Recovery = 98.13%

| | | | | | | |
|---|---|---|---|---|---|---|
| Ti 337.279† | 293679.2 | 0.4866 mg/L | 0.00024 | 0.4866 mg/L | 0.00024 | 0.05% |

QC value within limits for Ti 337.279 Recovery = 97.32%

| | | | | | | |
|---|---|---|---|---|---|---|
| Tl 190.801† | 237.5 | 0.4784 mg/L | 0.01229 | 0.4784 mg/L | 0.01229 | 2.57% |

QC value within limits for Tl 190.801 Recovery = 95.69%

| | | | | | | |
|---|---|---|---|---|---|---|
| V 292.402† | 95045.7 | 0.4831 mg/L | 0.00189 | 0.4831 mg/L | 0.00189 | 0.39% |

QC value within limits for V 292.402 Recovery = 96.62%

| | | | | | | |
|---|---|---|---|---|---|---|
| Zn 213.857† | 22609.8 | 0.4911 mg/L | 0.00194 | 0.4911 mg/L | 0.00194 | 0.39% |

QC value within limits for Zn 213.857 Recovery = 98.22%

All analytes passed QC.

---

**Sequence No.: 50** **Autosampler Location: 1**
**Sample ID: ICCB** **Date Collected: 11/30/01 9:41:34 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

---

Replicate Data: ICCB

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2863567.7 | 2863567.7 | | | | | 21:43:07 |
| 1 | Ag 328.068† | 2675.4 | 63.0 | 0.0007 | mg/L | 0.0007 | mg/L | 21:43:12 |
| 1 | Al 237.313† | -90.9 | 20.5 | 0.0120 | mg/L | 0.0120 | mg/L | 21:43:33 |
| 1 | As 188.979† | -10.4 | -1.7 | -0.0044 | mg/L | -0.0044 | mg/L | 21:43:33 |
| 1 | B 182.528† | 1.4 | 5.3 | 0.0088 | mg/L | 0.0088 | mg/L | 21:43:33 |
| 1 | Ba 233.527† | -97.3 | 6.6 | -0.0005 | mg/L | -0.0005 | mg/L | 21:43:33 |
| 1 | Be 313.107† | 6522.9 | -154.0 | 0.0002 | mg/L | 0.0002 | mg/L | 21:43:12 |
| 1 | Ca 315.886† | 2498.6 | 346.1 | 0.0008 | mg/L | 0.0008 | mg/L | 21:43:12 |
| 1 | Cd 228.802† | 26.3 | -7.1 | 0.0001 | mg/L | 0.0001 | mg/L | 21:43:33 |
| 1 | Co 228.616† | -429.0 | -12.3 | -0.0010 | mg/L | -0.0010 | mg/L | 21:43:33 |
| 1 | Cr 267.716† | 1907.2 | -1.0 | 0.0002 | mg/L | 0.0002 | mg/L | 21:43:12 |
| 1 | Cu 324.752† | 647.4 | 47.7 | 0.0017 | mg/L | 0.0017 | mg/L | 21:43:12 |
| 1 | Fe 238.204† | 104.4 | 92.2 | 0.0031 | mg/L | 0.0031 | mg/L | 21:43:33 |
| 1 | Mg 279.077† | 220.6 | 100.9 | 0.0005 | mg/L | 0.0005 | mg/L | 21:43:12 |
| 1 | Mn 257.610† | 1708.5 | -165.2 | -0.0009 | mg/L | -0.0009 | mg/L | 21:43:12 |
| 1 | Mo 202.031† | -49.9 | 8.3 | 0.0014 | mg/L | 0.0014 | mg/L | 21:43:33 |
| 1 | Na 330.237† | 3976.6 | 105.6 | 0.6370 | mg/L | 0.6370 | mg/L | 21:43:12 |
| 1 | Ni 231.604† | -320.7 | 8.8 | 0.0002 | mg/L | 0.0002 | mg/L | 21:43:33 |
| 1 | Pb 220.353† | 80.9 | -6.2 | -0.0011 | mg/L | -0.0011 | mg/L | 21:43:33 |
| 1 | Sb 206.836† | 115.3 | 8.2 | 0.0054 | mg/L | 0.0054 | mg/L | 21:43:33 |
| 1 | Se 196.026† | -89.5 | 6.1 | 0.0173 | mg/L | 0.0173 | mg/L | 21:43:33 |
| 1 | Sn 189.927† | 3.6 | 2.9 | 0.0010 | mg/L | 0.0010 | mg/L | 21:43:33 |
| 1 | Ti 337.279† | 1579.1 | -6.3 | 0.0007 | mg/L | 0.0007 | mg/L | 21:43:12 |
| 1 | Tl 190.801† | -13.0 | 3.0 | 0.0085 | mg/L | 0.0085 | mg/L | 21:43:33 |
| 1 | V 292.402† | 2635.0 | -19.6 | 0.0015 | mg/L | 0.0015 | mg/L | 21:43:12 |
| 1 | Zn 213.857† | -134.7 | -1.5 | 0.0008 | mg/L | 0.0008 | mg/L | 21:43:33 |
| 2 | Y 360.073 | 2854132.1 | 2854132.1 | | | | | 21:43:38 |
| 2 | Ag 328.068† | 2653.9 | 50.7 | 0.0006 | mg/L | 0.0006 | mg/L | 21:43:44 |
| 2 | Al 237.313† | -107.7 | 3.9 | 0.0096 | mg/L | 0.0096 | mg/L | 21:44:04 |
| 2 | As 188.979† | -5.8 | 2.7 | 0.0050 | mg/L | 0.0050 | mg/L | 21:44:04 |
| 2 | B 182.528† | 2.6 | 6.5 | 0.0111 | mg/L | 0.0111 | mg/L | 21:44:04 |
| 2 | Ba 233.527† | -104.7 | -0.8 | -0.0006 | mg/L | -0.0006 | mg/L | 21:44:04 |
| 2 | Be 313.107† | 6478.9 | -175.8 | 0.0002 | mg/L | 0.0002 | mg/L | 21:43:44 |
| 2 | Ca 315.886† | 2492.4 | 348.0 | 0.0008 | mg/L | 0.0008 | mg/L | 21:43:44 |
| 2 | Cd 228.802† | 23.8 | -9.4 | 0.0000 | mg/L | 0.0000 | mg/L | 21:44:04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Co 228.616† | -438.2 | -22.6 | -0.0011 mg/L | -0.0011 mg/L | 21:44:04 |
| 2 | Cr 267.716† | 1928.7 | 25.9 | 0.0004 mg/L | 0.0004 mg/L | 21:43:44 |
| 2 | Cu 324.752† | 714.6 | 114.8 | 0.0021 mg/L | 0.0021 mg/L | 21:43:44 |
| 2 | Fe 238.204† | 65.2 | 54.6 | 0.0027 mg/L | 0.0027 mg/L | 21:44:04 |
| 2 | Mg 279.077† | 167.2 | 49.9 | -0.0018 mg/L | -0.0018 mg/L | 21:43:44 |
| 2 | Mn 257.610† | 1709.4 | -158.8 | -0.0009 mg/L | -0.0009 mg/L | 21:43:44 |
| 2 | Mo 202.031† | -53.3 | 4.8 | 0.0010 mg/L | 0.0010 mg/L | 21:44:04 |
| 2 | Na 330.237† | 3874.1 | 19.2 | 0.5583 mg/L | 0.5583 mg/L | 21:43:44 |
| 2 | Ni 231.604† | -334.1 | -5.1 | -0.0001 mg/L | -0.0001 mg/L | 21:44:04 |
| 2 | Pb 220.353† | 70.3 | -16.3 | -0.0030 mg/L | -0.0030 mg/L | 21:44:04 |
| 2 | Sb 206.836† | 106.5 | 0.1 | 0.0018 mg/L | 0.0018 mg/L | 21:44:04 |
| 2 | Se 196.026† | -91.6 | 3.8 | 0.0096 mg/L | 0.0096 mg/L | 21:44:04 |
| 2 | Sn 189.927† | -5.2 | -5.6 | -0.0030 mg/L | -0.0030 mg/L | 21:44:04 |
| 2 | Ti 337.279† | 1593.0 | 12.3 | 0.0008 mg/L | 0.0008 mg/L | 21:43:44 |
| 2 | Tl 190.801† | -12.3 | 3.7 | 0.0098 mg/L | 0.0098 mg/L | 21:44:04 |
| 2 | V 292.402† | 2600.9 | -44.2 | 0.0013 mg/L | 0.0013 mg/L | 21:43:44 |
| 2 | Zn 213.857† | -127.3 | 5.2 | 0.0010 mg/L | 0.0010 mg/L | 21:44:04 |

**Mean Data: ICCB**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2858849.9 | | | | | | 6671.96 | 0.23% |
| Ag 328.068† | 56.8 | 0.0007 | mg/L | 0.00004 | 0.0007 | mg/L | 0.00004 | 6.26% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 12.2 | 0.0108 | mg/L | 0.00169 | 0.0108 | mg/L | 0.00169 | 15.65% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 0.5 | 0.0003 | mg/L | 0.00662 | 0.0003 | mg/L | 0.00662 | >999.9% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 5.9 | 0.0100 | mg/L | 0.00158 | 0.0100 | mg/L | 0.00158 | 15.89% |
| QC value within limits for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 2.9 | -0.0005 | mg/L | 0.00004 | -0.0005 | mg/L | 0.00004 | 6.71% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -164.9 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 1.56% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |
| Ca 315.886† | 347.1 | 0.0008 | mg/L | 0.00001 | 0.0008 | mg/L | 0.00001 | 1.31% |
| QC value within limits for Ca 315.886 Recovery = Not calculated | | | | | | | | |
| Cd 228.802† | -8.2 | 0.0000 | mg/L | 0.00007 | 0.0000 | mg/L | 0.00007 | 240.16% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | | | |
| Co 228.616† | -17.4 | -0.0010 | mg/L | 0.00011 | -0.0010 | mg/L | 0.00011 | 10.88% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | | | |
| Cr 267.716† | 12.5 | 0.0003 | mg/L | 0.00013 | 0.0003 | mg/L | 0.00013 | 40.61% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | | | |
| Cu 324.752† | 81.2 | 0.0019 | mg/L | 0.00023 | 0.0019 | mg/L | 0.00023 | 12.05% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | | | |
| Fe 238.204† | 73.4 | 0.0029 | mg/L | 0.00024 | 0.0029 | mg/L | 0.00024 | 8.48% |
| QC value within limits for Fe 238.204 Recovery = Not calculated | | | | | | | | |
| Mg 279.077† | 75.4 | -0.0006 | mg/L | 0.00166 | -0.0006 | mg/L | 0.00166 | 260.70% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | | | |
| Mn 257.610† | -162.0 | -0.0009 | mg/L | 0.00001 | -0.0009 | mg/L | 0.00001 | 0.59% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | | | |
| Mo 202.031† | 6.5 | 0.0012 | mg/L | 0.00027 | 0.0012 | mg/L | 0.00027 | 22.32% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | | | |
| Na 330.237† | 62.4 | 0.5976 | mg/L | 0.05563 | 0.5976 | mg/L | 0.05563 | 9.31% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | | | |
| Ni 231.604† | 1.8 | 0.0000 | mg/L | 0.00022 | 0.0000 | mg/L | 0.00022 | >999.9% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | | | |
| Pb 220.353† | -11.3 | -0.0021 | mg/L | 0.00130 | -0.0021 | mg/L | 0.00130 | 63.02% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | | | |
| Sb 206.836† | 4.2 | 0.0036 | mg/L | 0.00256 | 0.0036 | mg/L | 0.00256 | 70.29% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | | | |
| Se 196.026† | 5.0 | 0.0135 | mg/L | 0.00546 | 0.0135 | mg/L | 0.00546 | 40.53% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | | | |
| Sn 189.927† | -1.4 | -0.0010 | mg/L | 0.00284 | -0.0010 | mg/L | 0.00284 | 284.31% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | | | |
| Ti 337.279† | 3.0 | 0.0008 | mg/L | 0.00002 | 0.0008 | mg/L | 0.00002 | 2.84% |
| QC value within limits for Ti 337.279 Recovery = Not calculated | | | | | | | | |
| Tl 190.801† | 3.3 | 0.0092 | mg/L | 0.00091 | 0.0092 | mg/L | 0.00091 | 9.94% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | | | |
| V 292.402† | -31.9 | 0.0014 | mg/L | 0.00009 | 0.0014 | mg/L | 0.00009 | 6.36% |
| QC value within limits for V 292.402 Recovery = Not calculated | | | | | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Zn 213.857† | 1.8 | 0.0009 mg/L | 0.00011 | 0.0009 mg/L | 0.00011 | 11.48% |

QC value within limits for Zn 213.857 Recovery = Not calculated
All analytes passed QC.

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**Sequence No.:** 51
**Sample ID:** 01110414-04
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 39
**Date Collected:** 11/30/01 9:45:49 PM
**Sample Prep Volume:**
**Data Type:** Original

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**Replicate Data:** 01110414-04

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2963923.0 | 2963923.0 | | | | | 21:47:24 |
| 1 | Ag 328.068† | 2679.5 | -20.5 | 0.0003 | mg/L | 0.0003 | mg/L | 21:47:29 |
| 1 | Al 237.313† | 4564.9 | 4360.8 | 0.6275 | mg/L | 0.6275 | mg/L | 21:47:29 |
| 1 | As 188.979† | -5.8 | 2.9 | 0.0054 | mg/L | 0.0054 | mg/L | 21:47:49 |
| 1 | B 182.528† | 16.1 | 19.0 | 0.0340 | mg/L | 0.0340 | mg/L | 21:47:49 |
| 1 | Ba 233.527† | 4089.3 | 3910.1 | 0.0265 | mg/L | 0.0265 | mg/L | 21:47:49 |
| 1 | Be 313.107† | 6705.4 | -196.9 | 0.0002 | mg/L | 0.0002 | mg/L | 21:47:29 |
| 1 | Ca 315.886† | 1744843.1 | 1623446.8 | 10.78 | mg/L | 10.78 | mg/L | 21:47:24 |
| 1 | Cd 228.802† | 43.1 | 7.7 | 0.0003 | mg/L | 0.0003 | mg/L | 21:47:49 |
| 1 | Co 228.616† | -213.3 | 202.6 | 0.0024 | mg/L | 0.0024 | mg/L | 21:47:49 |
| 1 | Cr 267.716† | 3546.2 | 1463.7 | 0.0099 | mg/L | 0.0099 | mg/L | 21:47:29 |
| 1 | Cu 324.752† | 1089.3 | 438.2 | 0.0036 | mg/L | 0.0036 | mg/L | 21:47:29 |
| 1 | Fe 238.204† | 96077.8 | 89498.3 | 0.8271 | mg/L | 0.8271 | mg/L | 21:47:29 |
| 1 | Mg 279.077† | 40438.4 | 37560.9 | 1.722 | mg/L | 1.722 | mg/L | 21:47:29 |
| 1 | Mn 257.610† | 224944.7 | 207747.7 | 0.2449 | mg/L | 0.2449 | mg/L | 21:47:24 |
| 1 | Mo 202.031† | -39.3 | 19.8 | 0.0027 | mg/L | 0.0027 | mg/L | 21:47:49 |
| 1 | Na 330.237† | 5527.6 | 1420.8 | 1.864 | mg/L | 1.864 | mg/L | 21:47:29 |
| 1 | Ni 231.604† | 92.0 | 403.8 | 0.0091 | mg/L | 0.0091 | mg/L | 21:47:49 |
| 1 | Pb 220.353† | 84.0 | -6.0 | -0.0011 | mg/L | -0.0011 | mg/L | 21:47:49 |
| 1 | Sb 206.836† | 100.7 | -9.1 | -0.0024 | mg/L | -0.0024 | mg/L | 21:47:49 |
| 1 | Se 196.026† | -90.7 | 7.9 | 0.0245 | mg/L | 0.0245 | mg/L | 21:47:49 |
| 1 | Sn 189.927† | 12.5 | 11.1 | 0.0004 | mg/L | 0.0004 | mg/L | 21:47:49 |
| 1 | Ti 337.279† | 29565.4 | 26014.5 | 0.0438 | mg/L | 0.0438 | mg/L | 21:47:29 |
| 1 | Tl 190.801† | -14.5 | 2.0 | 0.0076 | mg/L | 0.0076 | mg/L | 21:47:49 |
| 1 | V 292.402† | 3069.4 | 299.1 | 0.0030 | mg/L | 0.0030 | mg/L | 21:47:29 |
| 1 | Zn 213.857† | 4562.7 | 4379.0 | 0.0964 | mg/L | 0.0964 | mg/L | 21:47:29 |
| 2 | Y 360.073 | 2879261.8 | 2879261.8 | | | | | 21:47:56 |
| 2 | Ag 328.068† | 2681.6 | 54.8 | 0.0007 | mg/L | 0.0007 | mg/L | 21:48:01 |
| 2 | Al 237.313† | 4430.0 | 4356.5 | 0.6267 | mg/L | 0.6267 | mg/L | 21:48:01 |
| 2 | As 188.979† | -9.0 | -0.3 | -0.0014 | mg/L | -0.0014 | mg/L | 21:48:21 |
| 2 | B 182.528† | 13.8 | 17.2 | 0.0305 | mg/L | 0.0305 | mg/L | 21:48:21 |
| 2 | Ba 233.527† | 4030.9 | 3966.1 | 0.0269 | mg/L | 0.0269 | mg/L | 21:48:21 |
| 2 | Be 313.107† | 6747.4 | 27.1 | 0.0002 | mg/L | 0.0002 | mg/L | 21:48:01 |
| 2 | Ca 315.886† | 1713468.2 | 1641154.4 | 10.90 | mg/L | 10.90 | mg/L | 21:47:56 |
| 2 | Cd 228.802† | 39.9 | 5.8 | 0.0003 | mg/L | 0.0003 | mg/L | 21:48:21 |
| 2 | Co 228.616† | -214.1 | 196.0 | 0.0023 | mg/L | 0.0023 | mg/L | 21:48:21 |
| 2 | Cr 267.716† | 3659.4 | 1669.3 | 0.0113 | mg/L | 0.0113 | mg/L | 21:48:01 |
| 2 | Cu 324.752† | 1127.7 | 504.9 | 0.0039 | mg/L | 0.0039 | mg/L | 21:48:01 |
| 2 | Fe 238.204† | 95020.0 | 91115.7 | 0.8420 | mg/L | 0.8420 | mg/L | 21:48:01 |
| 2 | Mg 279.077† | 39939.2 | 38189.8 | 1.751 | mg/L | 1.751 | mg/L | 21:48:01 |
| 2 | Mn 257.610† | 220918.2 | 210048.2 | 0.2476 | mg/L | 0.2476 | mg/L | 21:47:56 |
| 2 | Mo 202.031† | -54.8 | 3.8 | 0.0009 | mg/L | 0.0009 | mg/L | 21:48:21 |
| 2 | Na 330.237† | 5479.9 | 1526.4 | 1.961 | mg/L | 1.961 | mg/L | 21:48:01 |
| 2 | Ni 231.604† | 70.1 | 385.3 | 0.0087 | mg/L | 0.0087 | mg/L | 21:48:21 |
| 2 | Pb 220.353† | 81.4 | -6.2 | -0.0011 | mg/L | -0.0011 | mg/L | 21:48:21 |
| 2 | Sb 206.836† | 111.1 | 3.6 | 0.0033 | mg/L | 0.0033 | mg/L | 21:48:21 |
| 2 | Se 196.026† | -90.5 | 5.6 | 0.0166 | mg/L | 0.0166 | mg/L | 21:48:21 |
| 2 | Sn 189.927† | 14.1 | 13.0 | 0.0013 | mg/L | 0.0013 | mg/L | 21:48:21 |
| 2 | Ti 337.279† | 29214.5 | 26487.8 | 0.0446 | mg/L | 0.0446 | mg/L | 21:48:01 |
| 2 | Tl 190.801† | -13.4 | 2.7 | 0.0090 | mg/L | 0.0090 | mg/L | 21:48:21 |
| 2 | V 292.402† | 3071.0 | 384.7 | 0.0034 | mg/L | 0.0034 | mg/L | 21:48:01 |
| 2 | Zn 213.857† | 4587.9 | 4528.2 | 0.0996 | mg/L | 0.0996 | mg/L | 21:48:01 |

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**Mean Data:** 01110414-04

| | Mean Corrected | Calib | Sample |
|---|---|---|---|

| Analyte | Intensity | Conc. | Units | Std.Dev. | Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2921592.4 | | | | | | 59864.51 | 2.05% |
| Ag 328.068† | 17.1 | 0.0005 | mg/L | 0.00026 | 0.0005 | mg/L | 0.00026 | 53.55% |
| Al 237.313† | 4358.7 | 0.6271 | mg/L | 0.00052 | 0.6271 | mg/L | 0.00052 | 0.08% |
| As 188.979† | 1.3 | 0.0020 | mg/L | 0.00480 | 0.0020 | mg/L | 0.00480 | 239.49% |
| B 182.528† | 18.1 | 0.0322 | mg/L | 0.00248 | 0.0322 | mg/L | 0.00248 | 7.69% |
| Ba 233.527† | 3938.1 | 0.0267 | mg/L | 0.00027 | 0.0267 | mg/L | 0.00027 | 1.03% |
| Be 313.107† | -84.9 | 0.0002 | mg/L | 0.00003 | 0.0002 | mg/L | 0.00003 | 14.84% |
| Ca 315.886† | 1632300.6 | 10.84 | mg/L | 0.083 | 10.84 | mg/L | 0.083 | 0.77% |
| Cd 228.802† | 6.7 | 0.0003 | mg/L | 0.00001 | 0.0003 | mg/L | 0.00001 | 1.79% |
| Co 228.616† | 199.3 | 0.0023 | mg/L | 0.00007 | 0.0023 | mg/L | 0.00007 | 3.17% |
| Cr 267.716† | 1566.5 | 0.0106 | mg/L | 0.00096 | 0.0106 | mg/L | 0.00096 | 9.08% |
| Cu 324.752† | 471.6 | 0.0038 | mg/L | 0.00023 | 0.0038 | mg/L | 0.00023 | 6.03% |
| Fe 238.204† | 90307.0 | 0.8345 | mg/L | 0.01054 | 0.8345 | mg/L | 0.01054 | 1.26% |
| Mg 279.077† | 37875.4 | 1.736 | mg/L | 0.0204 | 1.736 | mg/L | 0.0204 | 1.18% |
| Mn 257.610† | 208898.0 | 0.2463 | mg/L | 0.00192 | 0.2463 | mg/L | 0.00192 | 0.78% |
| Mo 202.031† | 11.8 | 0.0018 | mg/L | 0.00125 | 0.0018 | mg/L | 0.00125 | 70.03% |
| Na 330.237† | 1473.6 | 1.912 | mg/L | 0.0687 | 1.912 | mg/L | 0.0687 | 3.59% |
| Ni 231.604† | 394.6 | 0.0089 | mg/L | 0.00030 | 0.0089 | mg/L | 0.00030 | 3.32% |
| Pb 220.353† | -6.1 | -0.0011 | mg/L | 0.00003 | -0.0011 | mg/L | 0.00003 | 2.79% |
| Sb 206.836† | -2.8 | 0.0005 | mg/L | 0.00401 | 0.0005 | mg/L | 0.00401 | 888.53% |
| Se 196.026† | 6.8 | 0.0206 | mg/L | 0.00554 | 0.0206 | mg/L | 0.00554 | 26.93% |
| Sn 189.927† | 12.0 | 0.0009 | mg/L | 0.00059 | 0.0009 | mg/L | 0.00059 | 68.58% |
| Ti 337.279† | 26251.1 | 0.0442 | mg/L | 0.00055 | 0.0442 | mg/L | 0.00055 | 1.25% |
| Tl 190.801† | 2.3 | 0.0083 | mg/L | 0.00095 | 0.0083 | mg/L | 0.00095 | 11.44% |
| V 292.402† | 341.9 | 0.0032 | mg/L | 0.00030 | 0.0032 | mg/L | 0.00030 | 9.48% |
| Zn 213.857† | 4453.6 | 0.0980 | mg/L | 0.00230 | 0.0980 | mg/L | 0.00230 | 2.35% |

**Sequenc No.: 52**
**Sample ID: 01110414-05**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 40**
**Date Collected: 11/30/01 9:50:05 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 01110414-05**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2911479.9 | 2911479.9 | | | | | 21:51:40 |
| 1 | Ag 328.068† | 2650.2 | -3.4 | 0.0004 | mg/L | 0.0004 | mg/L | 21:51:45 |
| 1 | Al 237.313† | 1495.1 | 1526.0 | 0.2258 | mg/L | 0.2258 | mg/L | 21:51:45 |
| 1 | As 188.979† | -4.5 | 4.1 | 0.0079 | mg/L | 0.0079 | mg/L | 21:52:05 |
| 1 | B 182.528† | 10.0 | 13.5 | 0.0233 | mg/L | 0.0233 | mg/L | 21:52:05 |
| 1 | Ba 233.527† | 3899.9 | 3799.1 | 0.0258 | mg/L | 0.0258 | mg/L | 21:52:05 |
| 1 | Be 313.107† | 6615.7 | -169.5 | 0.0002 | mg/L | 0.0002 | mg/L | 21:51:45 |
| 1 | Ca 315.886† | 1694467.9 | 1604951.0 | 10.66 | mg/L | 10.66 | mg/L | 21:51:40 |
| 1 | Cd 228.802† | 37.8 | 3.4 | 0.0002 | mg/L | 0.0002 | mg/L | 21:52:05 |
| 1 | Co 228.616† | -235.5 | 178.0 | 0.0020 | mg/L | 0.0020 | mg/L | 21:52:05 |
| 1 | Cr 267.716† | 2892.3 | 903.1 | 0.0062 | mg/L | 0.0062 | mg/L | 21:51:45 |
| 1 | Cu 324.752† | 1096.5 | 463.3 | 0.0037 | mg/L | 0.0037 | mg/L | 21:51:45 |
| 1 | Fe 238.204† | 29069.9 | 27561.1 | 0.2552 | mg/L | 0.2552 | mg/L | 21:51:45 |
| 1 | Mg 279.077† | 37670.4 | 35614.3 | 1.633 | mg/L | 1.633 | mg/L | 21:51:45 |
| 1 | Mn 257.610† | 210862.6 | 198167.1 | 0.2336 | mg/L | 0.2336 | mg/L | 21:51:40 |
| 1 | Mo 202.031† | -55.9 | 3.4 | 0.0008 | mg/L | 0.0008 | mg/L | 21:52:05 |
| 1 | Na 330.237† | 5608.9 | 1590.6 | 2.027 | mg/L | 2.027 | mg/L | 21:51:45 |
| 1 | Ni 231.604† | -40.2 | 279.9 | 0.0063 | mg/L | 0.0063 | mg/L | 21:52:05 |
| 1 | Pb 220.353† | 67.9 | -19.8 | -0.0036 | mg/L | -0.0036 | mg/L | 21:52:05 |
| 1 | Sb 206.836† | 99.9 | -8.2 | -0.0019 | mg/L | -0.0019 | mg/L | 21:52:05 |
| 1 | Se 196.026† | -85.0 | 11.8 | 0.0372 | mg/L | 0.0372 | mg/L | 21:52:05 |
| 1 | Sn 189.927† | 9.6 | 8.6 | -0.0007 | mg/L | -0.0007 | mg/L | 21:52:05 |
| 1 | Ti 337.279† | 8611.2 | 6637.8 | 0.0117 | mg/L | 0.0117 | mg/L | 21:51:45 |
| 1 | Tl 190.801† | -14.6 | 1.6 | 0.0061 | mg/L | 0.0061 | mg/L | 21:52:05 |
| 1 | V 292.402† | 2925.3 | 213.9 | 0.0025 | mg/L | 0.0025 | mg/L | 21:51:45 |
| 1 | Zn 213.857† | 5928.0 | 5750.4 | 0.1263 | mg/L | 0.1263 | mg/L | 21:51:45 |
| 2 | Y 360.073 | 2900787.6 | 2900787.6 | | | | | 21:52:12 |
| 2 | Ag 328.068† | 2639.5 | -4.3 | 0.0004 | mg/L | 0.0004 | mg/L | 21:52:17 |
| 2 | Al 237.313† | 1381.7 | 1423.3 | 0.2110 | mg/L | 0.2110 | mg/L | 21:52:17 |
| 2 | As 188.979† | -7.5 | 1.1 | 0.0017 | mg/L | 0.0017 | mg/L | 21:52:37 |
| 2 | B 182.528† | 8.5 | 12.1 | 0.0205 | mg/L | 0.0205 | mg/L | 21:52:37 |
| 2 | Ba 233.527† | 3871.0 | 3785.2 | 0.0257 | mg/L | 0.0257 | mg/L | 21:52:37 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Be 313.107† | 6656.5 | -107.6 | 0.0002 mg/L | 0.0002 mg/L | 21:52:17 |
| 2 | Ca 315.886† | 1687685.1 | 1604418.1 | 10.66 mg/L | 10.66 mg/L | 21:52:12 |
| 2 | Cd 228.802† | 45.8 | 11.2 | 0.0004 mg/L | 0.0004 mg/L | 21:52:37 |
| 2 | Co 228.616† | -238.5 | 174.3 | 0.0019 mg/L | 0.0019 mg/L | 21:52:37 |
| 2 | Cr 267.716† | 2875.8 | 897.4 | 0.0062 mg/L | 0.0062 mg/L | 21:52:17 |
| 2 | Cu 324.752† | 1101.1 | 471.5 | 0.0038 mg/L | 0.0038 mg/L | 21:52:17 |
| 2 | Fe 238.204† | 29150.2 | 27739.1 | 0.2568 mg/L | 0.2568 mg/L | 21:52:17 |
| 2 | Mg 279.077† | 37650.5 | 35727.1 | 1.638 mg/L | 1.638 mg/L | 21:52:17 |
| 2 | Mn 257.610† | 209956.7 | 198041.9 | 0.2334 mg/L | 0.2334 mg/L | 21:52:12 |
| 2 | Mo 202.031† | -42.1 | 16.3 | 0.0023 mg/L | 0.0023 mg/L | 21:52:37 |
| 2 | Na 330.237† | 5470.8 | 1478.8 | 1.926 mg/L | 1.926 mg/L | 21:52:17 |
| 2 | Ni 231.604† | -47.2 | 273.1 | 0.0062 mg/L | 0.0062 mg/L | 21:52:37 |
| 2 | Pb 220.353† | 78.5 | -9.6 | -0.0017 mg/L | -0.0017 mg/L | 21:52:37 |
| 2 | Sb 206.836† | 107.8 | -0.3 | 0.0016 mg/L | 0.0016 mg/L | 21:52:37 |
| 2 | Se 196.026† | -90.1 | 6.6 | 0.0194 mg/L | 0.0194 mg/L | 21:52:37 |
| 2 | Sn 189.927† | 14.5 | 13.2 | 0.0015 mg/L | 0.0015 mg/L | 21:52:37 |
| 2 | Ti 337.279† | 8488.9 | 6551.6 | 0.0116 mg/L | 0.0116 mg/L | 21:52:17 |
| 2 | Tl 190.801† | -17.5 | -1.2 | 0.0006 mg/L | 0.0006 mg/L | 21:52:37 |
| 2 | V 292.402† | 2959.6 | 256.8 | 0.0028 mg/L | 0.0028 mg/L | 21:52:17 |
| 2 | Zn 213.857† | 5914.4 | 5758.2 | 0.1265 mg/L | 0.1265 mg/L | 21:52:17 |

**Mean Data: 01110414-05**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2906133.8 | | | | | | 7560.54 | 0.26% |
| Ag 328.068† | -3.8 | 0.0004 | mg/L | 0.00000 | 0.0004 | mg/L | 0.00000 | 0.71% |
| Al 237.313† | 1474.7 | 0.2184 | mg/L | 0.01044 | 0.2184 | mg/L | 0.01044 | 4.78% |
| As 188.979† | 2.6 | 0.0048 | mg/L | 0.00439 | 0.0048 | mg/L | 0.00439 | 91.25% |
| B 182.528† | 12.8 | 0.0219 | mg/L | 0.00192 | 0.0219 | mg/L | 0.00192 | 8.78% |
| Ba 233.527† | 3792.1 | 0.0257 | mg/L | 0.00007 | 0.0257 | mg/L | 0.00007 | 0.27% |
| Be 313.107† | -138.5 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 4.32% |
| Ca 315.886† | 1604684.6 | 10.66 | mg/L | 0.002 | 10.66 | mg/L | 0.002 | 0.02% |
| Cd 228.802† | 7.3 | 0.0003 | mg/L | 0.00013 | 0.0003 | mg/L | 0.00013 | 42.94% |
| Co 228.616† | 176.1 | 0.0020 | mg/L | 0.00004 | 0.0020 | mg/L | 0.00004 | 2.05% |
| Cr 267.716† | 900.2 | 0.0062 | mg/L | 0.00003 | 0.0062 | mg/L | 0.00003 | 0.43% |
| Cu 324.752† | 467.4 | 0.0037 | mg/L | 0.00003 | 0.0037 | mg/L | 0.00003 | 0.73% |
| Fe 238.204† | 27650.1 | 0.2560 | mg/L | 0.00116 | 0.2560 | mg/L | 0.00116 | 0.45% |
| Mg 279.077† | 35670.7 | 1.636 | mg/L | 0.0037 | 1.636 | mg/L | 0.0037 | 0.22% |
| Mn 257.610† | 198104.5 | 0.2335 | mg/L | 0.00011 | 0.2335 | mg/L | 0.00011 | 0.05% |
| Mo 202.031† | 9.8 | 0.0016 | mg/L | 0.00101 | 0.0016 | mg/L | 0.00101 | 64.79% |
| Na 330.237† | 1534.7 | 1.977 | mg/L | 0.0719 | 1.977 | mg/L | 0.0719 | 3.64% |
| Ni 231.604† | 276.5 | 0.0063 | mg/L | 0.00011 | 0.0063 | mg/L | 0.00011 | 1.75% |
| Pb 220.353† | -14.7 | -0.0027 | mg/L | 0.00133 | -0.0027 | mg/L | 0.00133 | 49.42% |
| Sb 206.836† | -4.3 | -0.0002 | mg/L | 0.00248 | -0.0002 | mg/L | 0.00248 | >999.9% |
| Se 196.026† | 9.2 | 0.0283 | mg/L | 0.01259 | 0.0283 | mg/L | 0.01259 | 44.51% |
| Sn 189.927† | 10.9 | 0.0004 | mg/L | 0.00154 | 0.0004 | mg/L | 0.00154 | 426.20% |
| Ti 337.279† | 6594.7 | 0.0117 | mg/L | 0.00010 | 0.0117 | mg/L | 0.00010 | 0.86% |
| Tl 190.801† | 0.2 | 0.0034 | mg/L | 0.00389 | 0.0034 | mg/L | 0.00389 | 115.96% |
| V 292.402† | 235.3 | 0.0027 | mg/L | 0.00015 | 0.0027 | mg/L | 0.00015 | 5.80% |
| Zn 213.857† | 5754.3 | 0.1264 | mg/L | 0.00012 | 0.1264 | mg/L | 0.00012 | 0.10% |

**Sequence No.: 53**
**Sample ID: 011130pbw2**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 41**
**Date Collected: 11/30/01 9:54:21 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 011130pbw2**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2896665.8 | 2896665.8 | | | | | 21:55:56 |
| 1 | Ag 328.068† | 2646.4 | 5.9 | 0.0004 | mg/L | 0.0004 | mg/L | 21:56:01 |
| 1 | Al 237.313† | -131.6 | -17.3 | 0.0065 | mg/L | 0.0065 | mg/L | 21:56:21 |
| 1 | As 188.979† | -8.7 | 0.0 | -0.0006 | mg/L | -0.0006 | mg/L | 21:56:21 |
| 1 | B 182.528† | -3.8 | 0.3 | -0.0009 | mg/L | -0.0009 | mg/L | 21:56:21 |
| 1 | Ba 233.527† | -74.9 | 29.1 | -0.0004 | mg/L | -0.0004 | mg/L | 21:56:21 |
| 1 | Be 313.107† | 6464.1 | -281.9 | 0.0002 | mg/L | 0.0002 | mg/L | 21:56:01 |
| 1 | Ca 315.886† | 3712.8 | 1476.0 | 0.0083 | mg/L | 0.0083 | mg/L | 21:56:01 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Cd 228.802† | 24.5 | -9.1 | 0.0000 mg/L | 0.0000 mg/L | 21:56:21 |
| 1 | Co 228.616† | -409.9 | 10.6 | -0.0006 mg/L | -0.0006 mg/L | 21:56:21 |
| 1 | Cr 267.716† | 1948.6 | 17.5 | 0.0003 mg/L | 0.0003 mg/L | 21:56:01 |
| 1 | Cu 324.752† | 667.1 | 59.4 | 0.0018 mg/L | 0.0018 mg/L | 21:56:01 |
| 1 | Fe 238.204† | 176.6 | 159.8 | 0.0037 mg/L | 0.0037 mg/L | 21:56:21 |
| 1 | Mg 279.077† | 133.1 | 15.0 | -0.0034 mg/L | -0.0034 mg/L | 21:56:01 |
| 1 | Mn 257.610† | 1864.6 | -35.1 | -0.0008 mg/L | -0.0008 mg/L | 21:56:01 |
| 1 | Mo 202.031† | -63.8 | -4.4 | 0.0000 mg/L | 0.0000 mg/L | 21:56:21 |
| 1 | Na 330.237† | 3817.1 | -90.2 | 0.4594 mg/L | 0.4594 mg/L | 21:56:01 |
| 1 | Ni 231.604† | -320.7 | 12.3 | 0.0003 mg/L | 0.0003 mg/L | 21:56:21 |
| 1 | Pb 220.353† | 76.1 | -11.7 | -0.0021 mg/L | -0.0021 mg/L | 21:56:21 |
| 1 | Sb 206.836† | 86.9 | -20.1 | -0.0072 mg/L | -0.0072 mg/L | 21:56:21 |
| 1 | Se 196.026† | -91.2 | 5.5 | 0.0152 mg/L | 0.0152 mg/L | 21:56:21 |
| 1 | Sn 189.927† | -2.7 | -3.2 | -0.0019 mg/L | -0.0019 mg/L | 21:56:21 |
| 1 | Ti 337.279† | 1539.7 | -61.2 | 0.0007 mg/L | 0.0007 mg/L | 21:56:01 |
| 1 | Tl 190.801† | -11.9 | 4.2 | 0.0109 mg/L | 0.0109 mg/L | 21:56:21 |
| 1 | V 292.402† | 2584.9 | -96.4 | 0.0011 mg/L | 0.0011 mg/L | 21:56:01 |
| 1 | Zn 213.857† | -2.8 | 125.7 | 0.0036 mg/L | 0.0036 mg/L | 21:56:21 |
| 2 | Y 360.073 | 2887434.1 | 2887434.1 | | | 21:56:27 |
| 2 | Ag 328.068† | 2618.0 | -13.3 | 0.0003 mg/L | 0.0003 mg/L | 21:56:33 |
| 2 | Al 237.313† | -118.3 | -5.0 | 0.0083 mg/L | 0.0083 mg/L | 21:56:53 |
| 2 | As 188.979† | -7.0 | 1.6 | 0.0027 mg/L | 0.0027 mg/L | 21:56:53 |
| 2 | B 182.528† | 0.4 | 4.3 | 0.0069 mg/L | 0.0069 mg/L | 21:56:53 |
| 2 | Ba 233.527† | -79.3 | 24.6 | -0.0004 mg/L | -0.0004 mg/L | 21:56:53 |
| 2 | Be 313.107† | 6415.9 | -308.3 | 0.0002 mg/L | 0.0002 mg/L | 21:56:33 |
| 2 | Ca 315.886† | 3747.9 | 1520.9 | 0.0086 mg/L | 0.0086 mg/L | 21:56:33 |
| 2 | Cd 228.802† | 34.8 | 0.8 | 0.0002 mg/L | 0.0002 mg/L | 21:56:53 |
| 2 | Co 228.616† | -433.2 | -13.0 | -0.0010 mg/L | -0.0010 mg/L | 21:56:53 |
| 2 | Cr 267.716† | 1990.5 | 63.5 | 0.0006 mg/L | 0.0006 mg/L | 21:56:33 |
| 2 | Cu 324.752† | 729.7 | 121.3 | 0.0021 mg/L | 0.0021 mg/L | 21:56:33 |
| 2 | Fe 238.204† | 174.0 | 157.9 | 0.0037 mg/L | 0.0037 mg/L | 21:56:53 |
| 2 | Mg 279.077† | 181.7 | 61.9 | -0.0013 mg/L | -0.0013 mg/L | 21:56:33 |
| 2 | Mn 257.610† | 1822.6 | -69.6 | -0.0008 mg/L | -0.0008 mg/L | 21:56:33 |
| 2 | Mo 202.031† | -54.1 | 4.7 | 0.0010 mg/L | 0.0010 mg/L | 21:56:53 |
| 2 | Na 330.237† | 3703.9 | -186.8 | 0.3713 mg/L | 0.3713 mg/L | 21:56:33 |
| 2 | Ni 231.604† | -327.5 | 4.9 | 0.0001 mg/L | 0.0001 mg/L | 21:56:53 |
| 2 | Pb 220.353† | 68.4 | -18.8 | -0.0034 mg/L | -0.0034 mg/L | 21:56:53 |
| 2 | Sb 206.836† | 94.6 | -12.5 | -0.0038 mg/L | -0.0038 mg/L | 21:56:53 |
| 2 | Se 196.026† | -88.9 | 7.4 | 0.0218 mg/L | 0.0218 mg/L | 21:56:53 |
| 2 | Sn 189.927† | 1.4 | 0.8 | 0.0000 mg/L | 0.0000 mg/L | 21:56:53 |
| 2 | Ti 337.279† | 1499.9 | -94.6 | 0.0006 mg/L | 0.0006 mg/L | 21:56:33 |
| 2 | Tl 190.801† | -12.8 | 3.3 | 0.0090 mg/L | 0.0090 mg/L | 21:56:53 |
| 2 | V 292.402† | 2548.7 | -123.1 | 0.0009 mg/L | 0.0009 mg/L | 21:56:33 |
| 2 | Zn 213.857† | -16.5 | 112.6 | 0.0033 mg/L | 0.0033 mg/L | 21:56:53 |

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**Mean Data: 011130pbw2**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2892050.0 | | | | | | 6527.83 | 0.23% |
| Ag 328.068† | -3.7 | 0.0004 | mg/L | 0.00006 | 0.0004 | mg/L | 0.00006 | 17.23% |
| Al 237.313† | -11.2 | 0.0074 | mg/L | 0.00124 | 0.0074 | mg/L | 0.00124 | 16.77% |
| As 188.979† | 0.8 | 0.0010 | mg/L | 0.00235 | 0.0010 | mg/L | 0.00235 | 225.33% |
| B 182.528† | 2.3 | 0.0030 | mg/L | 0.00548 | 0.0030 | mg/L | 0.00548 | 182.69% |
| Ba 233.527† | 26.9 | -0.0004 | mg/L | 0.00002 | -0.0004 | mg/L | 0.00002 | 5.72% |
| Be 313.107† | -295.1 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 2.17% |
| Ca 315.886† | 1498.4 | 0.0085 | mg/L | 0.00021 | 0.0085 | mg/L | 0.00021 | 2.51% |
| Cd 228.802† | -4.1 | 0.0001 | mg/L | 0.00012 | 0.0001 | mg/L | 0.00012 | 111.62% |
| Co 228.616† | -1.2 | -0.0008 | mg/L | 0.00026 | -0.0008 | mg/L | 0.00026 | 32.94% |
| Cr 267.716† | 40.5 | 0.0005 | mg/L | 0.00022 | 0.0005 | mg/L | 0.00022 | 43.41% |
| Cu 324.752† | 90.3 | 0.0019 | mg/L | 0.00021 | 0.0019 | mg/L | 0.00021 | 10.84% |
| Fe 238.204† | 158.9 | 0.0037 | mg/L | 0.00001 | 0.0037 | mg/L | 0.00001 | 0.38% |
| Mg 279.077† | 38.5 | -0.0023 | mg/L | 0.00152 | -0.0023 | mg/L | 0.00152 | 65.36% |
| Mn 257.610† | -52.4 | -0.0008 | mg/L | 0.00003 | -0.0008 | mg/L | 0.00003 | 3.72% |
| Mo 202.031† | 0.1 | 0.0005 | mg/L | 0.00071 | 0.0005 | mg/L | 0.00071 | 146.02% |
| Na 330.237† | -138.5 | 0.4153 | mg/L | 0.06228 | 0.4153 | mg/L | 0.06228 | 14.99% |
| Ni 231.604† | 8.6 | 0.0002 | mg/L | 0.00012 | 0.0002 | mg/L | 0.00012 | 71.64% |
| Pb 220.353† | -15.3 | -0.0028 | mg/L | 0.00091 | -0.0028 | mg/L | 0.00091 | 32.67% |
| Sb 206.836† | -16.3 | -0.0055 | mg/L | 0.00238 | -0.0055 | mg/L | 0.00238 | 43.61% |
| Se 196.026† | 6.4 | 0.0185 | mg/L | 0.00467 | 0.0185 | mg/L | 0.00467 | 25.16% |
| Sn 189.927† | -1.2 | -0.0009 | mg/L | 0.00131 | -0.0009 | mg/L | 0.00131 | 140.10% |

| | | | | | | |
|---|---|---|---|---|---|---|
| Ti 337.279† | -77.9 | 0.0006 mg/L | 0.00004 | 0.0006 mg/L | 0.00004 | 6.17% |
| Tl 190.801† | 3.7 | 0.0100 mg/L | 0.00130 | 0.0100 mg/L | 0.00130 | 13.05% |
| V 292.402† | -109.7 | 0.0010 mg/L | 0.00010 | 0.0010 mg/L | 0.00010 | 9.72% |
| Zn 213.857† | 119.1 | 0.0035 mg/L | 0.00020 | 0.0035 mg/L | 0.00020 | 5.79% |

**Sequence No.: 54** **Autosampler Location: 42**
**Sample ID: 011130lcsw2** **Date Collected: 11/30/01 9:58:36 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

**Replicate Data: 011130lcsw2**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2915811.7 | 2915811.7 | | | | | 22:00:13 |
| 1 | Ag 328.068† | 57650.0 | 52076.6 | 0.2505 | mg/L | 0.2505 | mg/L | 22:00:18 |
| 1 | Al 237.313† | 17920.2 | 17078.2 | 2.445 | mg/L | 2.445 | mg/L | 22:00:18 |
| 1 | As 188.979† | 248.7 | 243.8 | 0.5121 | mg/L | 0.5121 | mg/L | 22:00:38 |
| 1 | B 182.528† | 263.9 | 253.8 | 0.4912 | mg/L | 0.4912 | mg/L | 22:00:38 |
| 1 | Ba 233.527† | 75599.2 | 71691.4 | 0.4961 | mg/L | 0.4961 | mg/L | 22:00:18 |
| 1 | Be 313.107† | 284002.6 | 262501.0 | 0.0499 | mg/L | 0.0499 | mg/L | 22:00:13 |
| 1 | Ca 315.886† | 797572.7 | 753222.0 | 5.001 | mg/L | 5.001 | mg/L | 22:00:13 |
| 1 | Cd 228.802† | 13834.2 | 13068.3 | 0.2460 | mg/L | 0.2460 | mg/L | 22:00:18 |
| 1 | Co 228.616† | 33445.5 | 32073.5 | 0.4968 | mg/L | 0.4968 | mg/L | 22:00:18 |
| 1 | Cr 267.716† | 80572.6 | 74460.7 | 0.4935 | mg/L | 0.4935 | mg/L | 22:00:18 |
| 1 | Cu 324.752† | 108013.5 | 101710.0 | 0.4894 | mg/L | 0.4894 | mg/L | 22:00:18 |
| 1 | Fe 238.204† | 282502.6 | 267515.8 | 2.468 | mg/L | 2.468 | mg/L | 22:00:18 |
| 1 | Mg 279.077† | 113973.5 | 107818.8 | 4.951 | mg/L | 4.951 | mg/L | 22:00:18 |
| 1 | Mn 257.610† | 450872.8 | 425154.9 | 0.5019 | mg/L | 0.5019 | mg/L | 22:00:13 |
| 1 | Mo 202.031† | 4651.9 | 4461.6 | 0.4960 | mg/L | 0.4960 | mg/L | 22:00:38 |
| 1 | Na 330.237† | 30959.1 | 25588.8 | 24.02 | mg/L | 24.02 | mg/L | 22:00:18 |
| 1 | Ni 231.604† | 22786.3 | 21896.2 | 0.4969 | mg/L | 0.4969 | mg/L | 22:00:18 |
| 1 | Pb 220.353† | 2961.4 | 2720.2 | 0.4969 | mg/L | 0.4969 | mg/L | 22:00:38 |
| 1 | Sb 206.836† | 1292.2 | 1120.7 | 0.4955 | mg/L | 0.4955 | mg/L | 22:00:38 |
| 1 | Se 196.026† | 225.7 | 306.1 | 1.044 | mg/L | 1.044 | mg/L | 22:00:38 |
| 1 | Sn 189.927† | 1147.8 | 1086.4 | 0.5094 | mg/L | 0.5094 | mg/L | 22:00:38 |
| 1 | Ti 337.279† | 317032.0 | 298694.0 | 0.4949 | mg/L | 0.4949 | mg/L | 22:00:13 |
| 1 | Tl 190.801† | 240.2 | 243.0 | 0.4893 | mg/L | 0.4893 | mg/L | 22:00:38 |
| 1 | V 292.402† | 104473.3 | 96373.7 | 0.4898 | mg/L | 0.4898 | mg/L | 22:00:18 |
| 1 | Zn 213.857† | 24190.3 | 23036.0 | 0.5003 | mg/L | 0.5003 | mg/L | 22:00:18 |
| 2 | Y 360.073 | 2852104.5 | 2852104.5 | | | | | 22:00:45 |
| 2 | Ag 328.068† | 58066.1 | 53698.9 | 0.2583 | mg/L | 0.2583 | mg/L | 22:00:51 |
| 2 | Al 237.313† | 18089.0 | 17620.7 | 2.522 | mg/L | 2.522 | mg/L | 22:00:51 |
| 2 | As 188.979† | 247.2 | 247.6 | 0.5201 | mg/L | 0.5201 | mg/L | 22:01:11 |
| 2 | B 182.528† | 268.2 | 263.6 | 0.5101 | mg/L | 0.5101 | mg/L | 22:01:11 |
| 2 | Ba 233.527† | 75857.4 | 73540.5 | 0.5089 | mg/L | 0.5089 | mg/L | 22:00:51 |
| 2 | Be 313.107† | 281921.8 | 266493.9 | 0.0507 | mg/L | 0.0507 | mg/L | 22:00:45 |
| 2 | Ca 315.886† | 791115.0 | 763840.8 | 5.072 | mg/L | 5.072 | mg/L | 22:00:45 |
| 2 | Cd 228.802† | 13989.1 | 13510.9 | 0.2544 | mg/L | 0.2544 | mg/L | 22:00:51 |
| 2 | Co 228.616† | 33707.5 | 33034.7 | 0.5117 | mg/L | 0.5117 | mg/L | 22:00:51 |
| 2 | Cr 267.716† | 81223.8 | 76795.4 | 0.5090 | mg/L | 0.5090 | mg/L | 22:00:51 |
| 2 | Cu 324.752† | 108640.8 | 104602.1 | 0.5033 | mg/L | 0.5033 | mg/L | 22:00:51 |
| 2 | Fe 238.204† | 284077.7 | 275016.4 | 2.538 | mg/L | 2.538 | mg/L | 22:00:51 |
| 2 | Mg 279.077† | 114718.7 | 110951.1 | 5.094 | mg/L | 5.094 | mg/L | 22:00:51 |
| 2 | Mn 257.610† | 447032.8 | 430974.4 | 0.5087 | mg/L | 0.5087 | mg/L | 22:00:45 |
| 2 | Mo 202.031† | 4686.2 | 4593.3 | 0.5106 | mg/L | 0.5106 | mg/L | 22:01:11 |
| 2 | Na 330.237† | 31238.1 | 26513.8 | 24.87 | mg/L | 24.87 | mg/L | 22:00:51 |
| 2 | Ni 231.604† | 22944.4 | 22531.2 | 0.5113 | mg/L | 0.5113 | mg/L | 22:00:51 |
| 2 | Pb 220.353† | 2980.7 | 2801.4 | 0.5117 | mg/L | 0.5117 | mg/L | 22:01:11 |
| 2 | Sb 206.836† | 1286.6 | 1142.6 | 0.5051 | mg/L | 0.5051 | mg/L | 22:01:11 |
| 2 | Se 196.026† | 226.0 | 311.2 | 1.061 | mg/L | 1.061 | mg/L | 22:01:11 |
| 2 | Sn 189.927† | 1151.8 | 1114.6 | 0.5227 | mg/L | 0.5227 | mg/L | 22:01:11 |
| 2 | Ti 337.279† | 314001.1 | 302465.8 | 0.5012 | mg/L | 0.5012 | mg/L | 22:00:45 |
| 2 | Tl 190.801† | 244.9 | 252.6 | 0.5084 | mg/L | 0.5084 | mg/L | 22:01:11 |
| 2 | V 292.402† | 105056.5 | 99148.1 | 0.5039 | mg/L | 0.5039 | mg/L | 22:00:51 |
| 2 | Zn 213.857† | 24365.7 | 23717.6 | 0.5151 | mg/L | 0.5151 | mg/L | 22:00:51 |

Mean Data: 011130lcsw2

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2883958.1 | | | | | | 45047.82 | 1.56% |
| Ag 328.068† | 52887.7 | 0.2544 | mg/L | 0.00551 | 0.2544 | mg/L | 0.00551 | 2.17% |
| Al 237.313† | 17349.4 | 2.483 | mg/L | 0.0548 | 2.483 | mg/L | 0.0548 | 2.21% |
| As 188.979† | 245.7 | 0.5161 | mg/L | 0.00566 | 0.5161 | mg/L | 0.00566 | 1.10% |
| B 182.528† | 258.7 | 0.5006 | mg/L | 0.01341 | 0.5006 | mg/L | 0.01341 | 2.68% |
| Ba 233.527† | 72615.9 | 0.5025 | mg/L | 0.00906 | 0.5025 | mg/L | 0.00906 | 1.80% |
| Be 313.107† | 264497.4 | 0.0503 | mg/L | 0.00053 | 0.0503 | mg/L | 0.00053 | 1.06% |
| Ca 315.886† | 758531.4 | 5.036 | mg/L | 0.0499 | 5.036 | mg/L | 0.0499 | 0.99% |
| Cd 228.802† | 13289.6 | 0.2502 | mg/L | 0.00592 | 0.2502 | mg/L | 0.00592 | 2.37% |
| Co 228.616† | 32554.1 | 0.5042 | mg/L | 0.01054 | 0.5042 | mg/L | 0.01054 | 2.09% |
| Cr 267.716† | 75628.0 | 0.5012 | mg/L | 0.01094 | 0.5012 | mg/L | 0.01094 | 2.18% |
| Cu 324.752† | 103156.1 | 0.4964 | mg/L | 0.00981 | 0.4964 | mg/L | 0.00981 | 1.98% |
| Fe 238.204† | 271266.1 | 2.503 | mg/L | 0.0489 | 2.503 | mg/L | 0.0489 | 1.95% |
| Mg 279.077† | 109384.9 | 5.022 | mg/L | 0.1018 | 5.022 | mg/L | 0.1018 | 2.03% |
| Mn 257.610† | 428064.6 | 0.5053 | mg/L | 0.00486 | 0.5053 | mg/L | 0.00486 | 0.96% |
| Mo 202.031† | 4527.4 | 0.5033 | mg/L | 0.01034 | 0.5033 | mg/L | 0.01034 | 2.05% |
| Na 330.237† | 26051.3 | 24.45 | mg/L | 0.599 | 24.45 | mg/L | 0.599 | 2.45% |
| Ni 231.604† | 22213.7 | 0.5041 | mg/L | 0.01019 | 0.5041 | mg/L | 0.01019 | 2.02% |
| Pb 220.353† | 2760.8 | 0.5043 | mg/L | 0.01050 | 0.5043 | mg/L | 0.01050 | 2.08% |
| Sb 206.836† | 1131.7 | 0.5003 | mg/L | 0.00679 | 0.5003 | mg/L | 0.00679 | 1.36% |
| Se 196.026† | 308.6 | 1.053 | mg/L | 0.0123 | 1.053 | mg/L | 0.0123 | 1.17% |
| Sn 189.927† | 1100.5 | 0.5160 | mg/L | 0.00937 | 0.5160 | mg/L | 0.00937 | 1.82% |
| Ti 337.279† | 300579.9 | 0.4980 | mg/L | 0.00441 | 0.4980 | mg/L | 0.00441 | 0.89% |
| Tl 190.801† | 247.8 | 0.4988 | mg/L | 0.01347 | 0.4988 | mg/L | 0.01347 | 2.70% |
| V 292.402† | 97760.9 | 0.4968 | mg/L | 0.00994 | 0.4968 | mg/L | 0.00994 | 2.00% |
| Zn 213.857† | 23376.8 | 0.5077 | mg/L | 0.01045 | 0.5077 | mg/L | 0.01045 | 2.06% |

**Sequence No.: 55**
**Sample ID: 01110414-01**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 43**
**Date Collected: 11/30/01 10:02:55 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicat Data: 01110414-01**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sampl Conc. | Sampl Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2888992.3 | 2888992.3 | | | | | 22:04:31 |
| 1 | Ag 328.068† | 2576.8 | -54.0 | 0.0001 | mg/L | 0.0001 | mg/L | 22:04:37 |
| 1 | Al 237.313† | 254.8 | 351.7 | 0.0584 | mg/L | 0.0584 | mg/L | 22:04:57 |
| 1 | As 188.979† | -3.3 | 5.1 | 0.0101 | mg/L | 0.0101 | mg/L | 22:04:57 |
| 1 | B 182.528† | 3.8 | 7.6 | 0.0120 | mg/L | 0.0120 | mg/L | 22:04:57 |
| 1 | Ba 233.527† | 2573.2 | 2559.8 | 0.0172 | mg/L | 0.0172 | mg/L | 22:04:57 |
| 1 | Be 313.107† | 6567.4 | -166.8 | 0.0002 | mg/L | 0.0002 | mg/L | 22:04:37 |
| 1 | Ca 315.886† | 1002743.9 | 956330.3 | 6.351 | mg/L | 6.351 | mg/L | 22:04:31 |
| 1 | Cd 228.802† | 34.8 | 0.8 | 0.0001 | mg/L | 0.0001 | mg/L | 22:04:57 |
| 1 | Co 228.616† | -400.1 | 18.9 | -0.0005 | mg/L | -0.0005 | mg/L | 22:04:57 |
| 1 | Cr 267.716† | 2099.2 | 166.4 | 0.0013 | mg/L | 0.0013 | mg/L | 22:04:37 |
| 1 | Cu 324.752† | 799.2 | 187.3 | 0.0024 | mg/L | 0.0024 | mg/L | 22:04:37 |
| 1 | Fe 238.204† | 13981.4 | 13354.5 | 0.1243 | mg/L | 0.1243 | mg/L | 22:04:37 |
| 1 | Mg 279.077† | 31076.6 | 29590.3 | 1.356 | mg/L | 1.356 | mg/L | 22:04:37 |
| 1 | Mn 257.610† | 77334.7 | 72101.7 | 0.0845 | mg/L | 0.0845 | mg/L | 22:04:37 |
| 1 | Mo 202.031† | -51.8 | 6.9 | 0.0012 | mg/L | 0.0012 | mg/L | 22:04:57 |
| 1 | Na 330.237† | 6270.4 | 2264.3 | 2.615 | mg/L | 2.615 | mg/L | 22:04:37 |
| 1 | Ni 231.604† | -224.4 | 103.5 | 0.0023 | mg/L | 0.0023 | mg/L | 22:04:57 |
| 1 | Pb 220.353† | 83.7 | -4.3 | -0.0008 | mg/L | -0.0008 | mg/L | 22:04:57 |
| 1 | Sb 206.836† | 98.9 | -8.4 | -0.0019 | mg/L | -0.0019 | mg/L | 22:04:57 |
| 1 | Se 196.026† | -92.9 | 3.6 | 0.0089 | mg/L | 0.0089 | mg/L | 22:04:57 |
| 1 | Sn 189.927† | 11.7 | 10.6 | 0.0022 | mg/L | 0.0022 | mg/L | 22:04:57 |
| 1 | Ti 337.279† | 1988.8 | 371.9 | 0.0014 | mg/L | 0.0014 | mg/L | 22:04:37 |
| 1 | Tl 190.801† | -12.6 | 3.4 | 0.0094 | mg/L | 0.0094 | mg/L | 22:04:57 |
| 1 | V 292.402† | 2600.4 | -75.0 | 0.0011 | mg/L | 0.0011 | mg/L | 22:04:37 |
| 1 | Zn 213.857† | 1756.4 | 1807.1 | 0.0403 | mg/L | 0.0403 | mg/L | 22:04:57 |
| 2 | Y 360.073 | 2911061.4 | 2911061.4 | | | | | 22:05:03 |
| 2 | Ag 328.068† | 2638.0 | -14.6 | 0.0003 | mg/L | 0.0003 | mg/L | 22:05:08 |
| 2 | Al 237.313† | 235.1 | 331.2 | 0.0555 | mg/L | 0.0555 | mg/L | 22:05:28 |
| 2 | As 188.979† | -9.2 | -0.4 | -0.0015 | mg/L | -0.0015 | mg/L | 22:05:28 |
| 2 | B 182.528† | 12.0 | 15.3 | 0.0272 | mg/L | 0.0272 | mg/L | 22:05:28 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Ba 233.527† | 2577.8 | 2545.5 | 0.0171 mg/L | 0.0171 mg/L | 22:05:28 |
| 2 | Be 313.107† | 6683.3 | -104.5 | 0.0002 mg/L | 0.0002 mg/L | 22:05:08 |
| 2 | Ca 315.886† | 1012526.4 | 958343.5 | 6.365 mg/L | 6.365 mg/L | 22:05:03 |
| 2 | Cd 228.802† | 36.1 | 1.8 | 0.0002 mg/L | 0.0002 mg/L | 22:05:28 |
| 2 | Co 228.616† | -403.2 | 18.8 | -0.0005 mg/L | -0.0005 mg/L | 22:05:28 |
| 2 | Cr 267.716† | 2105.1 | 156.7 | 0.0013 mg/L | 0.0013 mg/L | 22:05:08 |
| 2 | Cu 324.752† | 744.7 | 129.8 | 0.0021 mg/L | 0.0021 mg/L | 22:05:08 |
| 2 | Fe 238.204† | 13904.7 | 13180.4 | 0.1227 mg/L | 0.1227 mg/L | 22:05:08 |
| 2 | Mg 279.077† | 30868.0 | 29167.2 | 1.337 mg/L | 1.337 mg/L | 22:05:08 |
| 2 | Mn 257.610† | 76671.7 | 70912.4 | 0.0831 mg/L | 0.0831 mg/L | 22:05:08 |
| 2 | Mo 202.031† | -55.5 | 3.8 | 0.0009 mg/L | 0.0009 mg/L | 22:05:28 |
| 2 | Na 330.237† | 6263.8 | 2212.6 | 2.568 mg/L | 2.568 mg/L | 22:05:08 |
| 2 | Ni 231.604† | -230.9 | 99.0 | 0.0022 mg/L | 0.0022 mg/L | 22:05:28 |
| 2 | Pb 220.353† | 77.5 | -10.8 | -0.0020 mg/L | -0.0020 mg/L | 22:05:28 |
| 2 | Sb 206.836† | 93.1 | -14.6 | -0.0047 mg/L | -0.0047 mg/L | 22:05:28 |
| 2 | Se 196.026† | -91.5 | 5.6 | 0.0157 mg/L | 0.0157 mg/L | 22:05:28 |
| 2 | Sn 189.927† | 5.3 | 4.4 | -0.0007 mg/L | -0.0007 mg/L | 22:05:28 |
| 2 | Ti 337.279† | 1976.7 | 346.0 | 0.0013 mg/L | 0.0013 mg/L | 22:05:08 |
| 2 | Tl 190.801† | -7.8 | 8.2 | 0.0187 mg/L | 0.0187 mg/L | 22:05:28 |
| 2 | V 292.402† | 2621.1 | -74.2 | 0.0012 mg/L | 0.0012 mg/L | 22:05:08 |
| 2 | Zn 213.857† | 1777.8 | 1814.6 | 0.0405 mg/L | 0.0405 mg/L | 22:05:28 |

**Mean Data: 01110414-01**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2900026.8 | | | | | | 15605.22 | 0.54% |
| Ag 328.068† | -34.3 | 0.0002 | mg/L | 0.00013 | 0.0002 | mg/L | 0.00013 | 58.19% |
| Al 237.313† | 341.4 | 0.0569 | mg/L | 0.00207 | 0.0569 | mg/L | 0.00207 | 3.63% |
| As 188.979† | 2.4 | 0.0043 | mg/L | 0.00821 | 0.0043 | mg/L | 0.00821 | 190.62% |
| B 182.528† | 11.4 | 0.0196 | mg/L | 0.01075 | 0.0196 | mg/L | 0.01075 | 54.92% |
| Ba 233.527† | 2552.7 | 0.0171 | mg/L | 0.00007 | 0.0171 | mg/L | 0.00007 | 0.41% |
| Be 313.107† | -135.6 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 4.34% |
| Ca 315.886† | 957336.9 | 6.358 | mg/L | 0.0095 | 6.358 | mg/L | 0.0095 | 0.15% |
| Cd 228.802† | 1.3 | 0.0002 | mg/L | 0.00007 | 0.0002 | mg/L | 0.00007 | 35.51% |
| Co 228.616† | 18.9 | -0.0005 | mg/L | 0.00000 | -0.0005 | mg/L | 0.00000 | 0.20% |
| Cr 267.716† | 161.6 | 0.0013 | mg/L | 0.00005 | 0.0013 | mg/L | 0.00005 | 3.48% |
| Cu 324.752† | 158.5 | 0.0023 | mg/L | 0.00019 | 0.0023 | mg/L | 0.00019 | 8.62% |
| Fe 238.204† | 13267.5 | 0.1235 | mg/L | 0.00112 | 0.1235 | mg/L | 0.00112 | 0.91% |
| Mg 279.077† | 29378.8 | 1.347 | mg/L | 0.0138 | 1.347 | mg/L | 0.0138 | 1.02% |
| Mn 257.610† | 71507.1 | 0.0838 | mg/L | 0.00099 | 0.0838 | mg/L | 0.00099 | 1.19% |
| Mo 202.031† | 5.3 | 0.0011 | mg/L | 0.00025 | 0.0011 | mg/L | 0.00025 | 23.09% |
| Na 330.237† | 2238.4 | 2.592 | mg/L | 0.0333 | 2.592 | mg/L | 0.0333 | 1.29% |
| Ni 231.604† | 101.3 | 0.0023 | mg/L | 0.00007 | 0.0023 | mg/L | 0.00007 | 3.21% |
| Pb 220.353† | -7.5 | -0.0014 | mg/L | 0.00084 | -0.0014 | mg/L | 0.00084 | 60.73% |
| Sb 206.836† | -11.5 | -0.0033 | mg/L | 0.00197 | -0.0033 | mg/L | 0.00197 | 58.89% |
| Se 196.026† | 4.6 | 0.0123 | mg/L | 0.00482 | 0.0123 | mg/L | 0.00482 | 39.02% |
| Sn 189.927† | 7.5 | 0.0008 | mg/L | 0.00207 | 0.0008 | mg/L | 0.00207 | 271.88% |
| Ti 337.279† | 359.0 | 0.0014 | mg/L | 0.00003 | 0.0014 | mg/L | 0.00003 | 2.24% |
| Tl 190.801† | 5.8 | 0.0140 | mg/L | 0.00656 | 0.0140 | mg/L | 0.00656 | 46.78% |
| V 292.402† | -74.6 | 0.0011 | mg/L | 0.00000 | 0.0011 | mg/L | 0.00000 | 0.26% |
| Zn 213.857† | 1810.9 | 0.0404 | mg/L | 0.00012 | 0.0404 | mg/L | 0.00012 | 0.29% |

**Sequence No.: 56**
**Sample ID: 01110414-01dup**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 44**
**Date Collected: 11/30/01 10:07:13 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicat Data: 01110414-01dup**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2900151.6 | 2900151.6 | | | | | 22:08:49 |
| 1 | Ag 328.068† | 2672.3 | 27.5 | 0.0005 | mg/L | 0.0005 | mg/L | 22:08:54 |
| 1 | Al 237.313† | 249.9 | 346.1 | 0.0574 | mg/L | 0.0574 | mg/L | 22:09:14 |
| 1 | As 188.979† | -7.4 | 1.3 | 0.0020 | mg/L | 0.0020 | mg/L | 22:09:14 |
| 1 | B 182.528† | 10.6 | 14.1 | 0.0247 | mg/L | 0.0247 | mg/L | 22:09:14 |
| 1 | Ba 233.527† | 2602.7 | 2578.4 | 0.0173 | mg/L | 0.0173 | mg/L | 22:09:14 |
| 1 | Be 313.107† | 6478.7 | -275.4 | 0.0002 | mg/L | 0.0002 | mg/L | 22:08:54 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Ca 315.886† | 1014197.2 | 963547.1 | 6.399 mg/L | 6.399 mg/L | 22:08:49 |
| 1 | Cd 228.802† | 33.2 | -0.8 | 0.0002 mg/L | 0.0002 mg/L | 22:09:14 |
| 1 | Co 228.616† | -406.8 | 14.0 | -0.0006 mg/L | -0.0006 mg/L | 22:09:14 |
| 1 | Cr 267.716† | 1990.5 | 55.2 | 0.0006 mg/L | 0.0006 mg/L | 22:08:54 |
| 1 | Cu 324.752† | 710.7 | 100.1 | 0.0020 mg/L | 0.0020 mg/L | 22:08:54 |
| 1 | Fe 238.204† | 16293.9 | 15504.9 | 0.1441 mg/L | 0.1441 mg/L | 22:08:54 |
| 1 | Mg 279.077† | 31288.6 | 29677.8 | 1.360 mg/L | 1.360 mg/L | 22:08:54 |
| 1 | Mn 257.610† | 120980.4 | 113372.0 | 0.1333 mg/L | 0.1333 mg/L | 22:08:54 |
| 1 | Mo 202.031† | -60.2 | -0.9 | 0.0004 mg/L | 0.0004 mg/L | 22:09:14 |
| 1 | Na 330.237† | 6251.4 | 2223.1 | 2.578 mg/L | 2.578 mg/L | 22:08:54 |
| 1 | Ni 231.604† | -255.8 | 74.5 | 0.0017 mg/L | 0.0017 mg/L | 22:09:14 |
| 1 | Pb 220.353† | 76.5 | -11.4 | -0.0021 mg/L | -0.0021 mg/L | 22:09:14 |
| 1 | Sb 206.836† | 99.3 | -8.4 | -0.0020 mg/L | -0.0020 mg/L | 22:09:14 |
| 1 | Se 196.026† | -91.7 | 5.1 | 0.0139 mg/L | 0.0139 mg/L | 22:09:14 |
| 1 | Sn 189.927† | 3.3 | 2.5 | -0.0016 mg/L | -0.0016 mg/L | 22:09:14 |
| 1 | Ti 337.279† | 1985.8 | 361.8 | 0.0014 mg/L | 0.0014 mg/L | 22:08:54 |
| 1 | Tl 190.801† | -14.0 | 2.2 | 0.0069 mg/L | 0.0069 mg/L | 22:09:14 |
| 1 | V 292.402† | 2638.0 | -48.8 | 0.0013 mg/L | 0.0013 mg/L | 22:08:54 |
| 1 | Zn 213.857† | 1775.8 | 1819.1 | 0.0406 mg/L | 0.0406 mg/L | 22:09:14 |
| 2 | Y 360.073 | 2886159.3 | 2886159.3 | | | 22:09:20 |
| 2 | Ag 328.068† | 2612.7 | -17.2 | 0.0003 mg/L | 0.0003 mg/L | 22:09:25 |
| 2 | Al 237.313† | 271.0 | 367.4 | 0.0604 mg/L | 0.0604 mg/L | 22:09:45 |
| 2 | As 188.979† | -5.8 | 2.8 | 0.0051 mg/L | 0.0051 mg/L | 22:09:45 |
| 2 | B 182.528† | 3.6 | 7.4 | 0.0116 mg/L | 0.0116 mg/L | 22:09:45 |
| 2 | Ba 233.527† | 2598.0 | 2586.0 | 0.0174 mg/L | 0.0174 mg/L | 22:09:45 |
| 2 | Be 313.107† | 6612.9 | -117.2 | 0.0002 mg/L | 0.0002 mg/L | 22:09:25 |
| 2 | Ca 315.886† | 1013329.1 | 967397.9 | 6.425 mg/L | 6.425 mg/L | 22:09:20 |
| 2 | Cd 228.802† | 40.4 | 6.2 | 0.0003 mg/L | 0.0003 mg/L | 22:09:45 |
| 2 | Co 228.616† | -405.7 | 13.2 | -0.0006 mg/L | -0.0006 mg/L | 22:09:45 |
| 2 | Cr 267.716† | 2083.0 | 152.8 | 0.0012 mg/L | 0.0012 mg/L | 22:09:25 |
| 2 | Cu 324.752† | 716.9 | 109.3 | 0.0020 mg/L | 0.0020 mg/L | 22:09:25 |
| 2 | Fe 238.204† | 16415.0 | 15695.9 | 0.1459 mg/L | 0.1459 mg/L | 22:09:25 |
| 2 | Mg 279.077† | 31316.9 | 29849.3 | 1.368 mg/L | 1.368 mg/L | 22:09:25 |
| 2 | Mn 257.610† | 121620.6 | 114543.0 | 0.1347 mg/L | 0.1347 mg/L | 22:09:25 |
| 2 | Mo 202.031† | -58.2 | 0.6 | 0.0005 mg/L | 0.0005 mg/L | 22:09:45 |
| 2 | Na 330.237† | 6265.6 | 2265.6 | 2.617 mg/L | 2.617 mg/L | 22:09:25 |
| 2 | Ni 231.604† | -228.8 | 99.2 | 0.0022 mg/L | 0.0022 mg/L | 22:09:45 |
| 2 | Pb 220.353† | 85.2 | -2.8 | -0.0005 mg/L | -0.0005 mg/L | 22:09:45 |
| 2 | Sb 206.836† | 106.4 | -1.2 | 0.0013 mg/L | 0.0013 mg/L | 22:09:45 |
| 2 | Se 196.026† | -90.9 | 5.4 | 0.0151 mg/L | 0.0151 mg/L | 22:09:45 |
| 2 | Sn 189.927† | 7.0 | 6.1 | 0.0001 mg/L | 0.0001 mg/L | 22:09:45 |
| 2 | Ti 337.279† | 2091.2 | 471.8 | 0.0015 mg/L | 0.0015 mg/L | 22:09:25 |
| 2 | Tl 190.801† | -13.0 | 3.1 | 0.0087 mg/L | 0.0087 mg/L | 22:09:45 |
| 2 | V 292.402† | 2605.2 | -68.0 | 0.0012 mg/L | 0.0012 mg/L | 22:09:25 |
| 2 | Zn 213.857† | 1785.1 | 1836.1 | 0.0409 mg/L | 0.0409 mg/L | 22:09:45 |

**Mean Data: 01110414-01dup**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2893155.4 | | | | | | 9894.02 | 0.34% |
| Ag 328.068† | 5.1 | 0.0004 | mg/L | 0.00015 | 0.0004 | mg/L | 0.00015 | 36.22% |
| Al 237.313† | 356.7 | 0.0589 | mg/L | 0.00215 | 0.0589 | mg/L | 0.00215 | 3.65% |
| As 188.979† | 2.0 | 0.0035 | mg/L | 0.00223 | 0.0035 | mg/L | 0.00223 | 62.75% |
| B 182.528† | 10.7 | 0.0182 | mg/L | 0.00926 | 0.0182 | mg/L | 0.00926 | 51.01% |
| Ba 233.527† | 2582.2 | 0.0173 | mg/L | 0.00004 | 0.0173 | mg/L | 0.00004 | 0.21% |
| Be 313.107† | -196.3 | 0.0002 | mg/L | 0.00002 | 0.0002 | mg/L | 0.00002 | 11.75% |
| Ca 315.886† | 965472.5 | 6.412 | mg/L | 0.0181 | 6.412 | mg/L | 0.0181 | 0.28% |
| Cd 228.802† | 2.7 | 0.0002 | mg/L | 0.00008 | 0.0002 | mg/L | 0.00008 | 36.68% |
| Co 228.616† | 13.6 | -0.0006 | mg/L | 0.00001 | -0.0006 | mg/L | 0.00001 | 1.62% |
| Cr 267.716† | 104.0 | 0.0009 | mg/L | 0.00046 | 0.0009 | mg/L | 0.00046 | 49.90% |
| Cu 324.752† | 104.7 | 0.0020 | mg/L | 0.00003 | 0.0020 | mg/L | 0.00003 | 1.56% |
| Fe 238.204† | 15600.4 | 0.1450 | mg/L | 0.00124 | 0.1450 | mg/L | 0.00124 | 0.86% |
| Mg 279.077† | 29763.6 | 1.364 | mg/L | 0.0056 | 1.364 | mg/L | 0.0056 | 0.41% |
| Mn 257.610† | 113957.5 | 0.1340 | mg/L | 0.00098 | 0.1340 | mg/L | 0.00098 | 0.73% |
| Mo 202.031† | -0.2 | 0.0005 | mg/L | 0.00013 | 0.0005 | mg/L | 0.00013 | 27.39% |
| Na 330.237† | 2244.4 | 2.597 | mg/L | 0.0275 | 2.597 | mg/L | 0.0275 | 1.06% |
| Ni 231.604† | 86.8 | 0.0019 | mg/L | 0.00040 | 0.0019 | mg/L | 0.00040 | 20.41% |
| Pb 220.353† | -7.1 | -0.0013 | mg/L | 0.00112 | -0.0013 | mg/L | 0.00112 | 86.14% |
| Sb 206.836† | -4.8 | -0.0003 | mg/L | 0.00227 | -0.0003 | mg/L | 0.00227 | 654.70% |
| Se 196.026† | 5.2 | 0.0145 | mg/L | 0.00082 | 0.0145 | mg/L | 0.00082 | 5.64% |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sn 189.927† | 4.3 | -0.0008 mg/L | 0.00119 | -0.0008 mg/L | 0.00119 | 156.32% |
| Ti 337.279† | 416.8 | 0.0014 mg/L | 0.00013 | 0.0014 mg/L | 0.00013 | 8.89% |
| Tl 190.801† | 2.6 | 0.0078 mg/L | 0.00125 | 0.0078 mg/L | 0.00125 | 16.07% |
| V 292.402† | -58.4 | 0.0012 mg/L | 0.00007 | 0.0012 mg/L | 0.00007 | 5.74% |
| Zn 213.857† | 1827.6 | 0.0408 mg/L | 0.00026 | 0.0408 mg/L | 0.00026 | 0.64% |

**Duplicate Check: 01110414-01dup**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Difference (%) |
|---|---|---|---|---|---|
| Y 360.073 | | | 0.000 | mg/L | Not calculated |
| Ag 328.068 | 0.0002 | 0.0004 | 0.000 | mg/L | 58.3 |
| Al 237.313 | 0.0569 | 0.0589 | 0.002 | mg/L | 3.4 |
| As 188.979 | 0.0043 | 0.0035 | 0.002 | mg/L | 19.3 |
| B 182.528 | 0.0196 | 0.0182 | 0.009 | mg/L | 7.5 |
| Ba 233.527 | 0.0171 | 0.0173 | 0.000 | mg/L | 1.2 |
| Be 313.107 | 0.0002 | 0.0002 | 0.000 | mg/L | 6.2 |
| Ca 315.886 | 6.358 | 6.412 | 0.018 | mg/L | 0.8 |
| Cd 228.802 | 0.0002 | 0.0002 | 0.000 | mg/L | 15.3 |
| Co 228.616 | -0.0005 | -0.0006 | 0.000 | mg/L | -15.8 |
| Cr 267.716 | 0.0013 | 0.0009 | 0.000 | mg/L | 34.4 |
| Cu 324.752 | 0.0023 | 0.0020 | 0.000 | mg/L | 12.1 |
| Fe 238.204 | 0.1235 | 0.1450 | 0.001 | mg/L | 16.0 |
| Mg 279.077 | 1.347 | 1.364 | 0.006 | mg/L | 1.3 |
| Mn 257.610 | 0.0838 | 0.1340 | 0.001 | mg/L | 46.1 |
| Mo 202.031 | 0.0011 | 0.0005 | 0.000 | mg/L | 79.9 |
| Na 330.237 | 2.592 | 2.597 | 0.027 | mg/L | 0.2 |
| Ni 231.604 | 0.0023 | 0.0019 | 0.000 | mg/L | 15.6 |
| Pb 220.353 | -0.0014 | -0.0013 | 0.001 | mg/L | -6.0 |
| Sb 206.836 | -0.0033 | -0.0003 | 0.002 | mg/L | -162.3 |
| Se 196.026 | 0.0123 | 0.0145 | 0.001 | mg/L | 16.2 |
| Sn 189.927 | 0.0008 | -0.0008 | 0.001 | mg/L | 331617.5 |
| Ti 337.279 | 0.0014 | 0.0014 | 0.000 | mg/L | 6.8 |
| Tl 190.801 | 0.0140 | 0.0078 | 0.001 | mg/L | 57.0 |
| V 292.402 | 0.0011 | 0.0012 | 0.000 | mg/L | 7.0 |
| Zn 213.857 | 0.0404 | 0.0408 | 0.000 | mg/L | 0.9 |

**Sequence No.: 57**
**Sample ID: 01110414-01ms**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 45**
**Date Collected: 11/30/01 10:11:33 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 01110414-01ms**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2881106.8 | 2881106.8 | | | | | 22:13:10 |
| 1 | Ag 328.068† | 57657.5 | 52741.4 | 0.2537 | mg/L | 0.2537 | mg/L | 22:13:16 |
| 1 | Al 237.313† | 18293.7 | 17640.5 | 2.524 | mg/L | 2.524 | mg/L | 22:13:16 |
| 1 | As 188.979† | 242.0 | 240.2 | 0.5046 | mg/L | 0.5046 | mg/L | 22:13:36 |
| 1 | B 182.528† | 272.9 | 265.5 | 0.5126 | mg/L | 0.5126 | mg/L | 22:13:36 |
| 1 | Ba 233.527† | 78801.6 | 75622.9 | 0.5233 | mg/L | 0.5233 | mg/L | 22:13:16 |
| 1 | Be 313.107† | 283318.1 | 265084.6 | 0.0504 | mg/L | 0.0504 | mg/L | 22:13:10 |
| 1 | Ca 315.886† | 1765421.1 | 1689893.1 | 11.22 | mg/L | 11.22 | mg/L | 22:13:10 |
| 1 | Cd 228.802† | 13795.9 | 13189.4 | 0.2484 | mg/L | 0.2484 | mg/L | 22:13:16 |
| 1 | Co 228.616† | 33523.9 | 32530.2 | 0.5039 | mg/L | 0.5039 | mg/L | 22:13:16 |
| 1 | Cr 267.716† | 80908.7 | 75701.9 | 0.5017 | mg/L | 0.5017 | mg/L | 22:13:16 |
| 1 | Cu 324.752† | 107254.1 | 102214.3 | 0.4918 | mg/L | 0.4918 | mg/L | 22:13:16 |
| 1 | Fe 238.204† | 300315.3 | 287809.7 | 2.655 | mg/L | 2.655 | mg/L | 22:13:16 |
| 1 | Mg 279.077† | 144136.4 | 138026.6 | 6.339 | mg/L | 6.339 | mg/L | 22:13:16 |
| 1 | Mn 257.610† | 594745.1 | 568183.3 | 0.6710 | mg/L | 0.6710 | mg/L | 22:13:10 |
| 1 | Mo 202.031† | 4624.1 | 4488.1 | 0.4989 | mg/L | 0.4989 | mg/L | 22:13:36 |
| 1 | Na 330.237† | 33761.1 | 28627.4 | 26.80 | mg/L | 26.80 | mg/L | 22:13:16 |
| 1 | Ni 231.604† | 22795.0 | 22164.5 | 0.5030 | mg/L | 0.5030 | mg/L | 22:13:16 |
| 1 | Pb 220.353† | 2931.9 | 2725.6 | 0.4979 | mg/L | 0.4979 | mg/L | 22:13:36 |
| 1 | Sb 206.836† | 1294.7 | 1137.8 | 0.5031 | mg/L | 0.5031 | mg/L | 22:13:36 |
| 1 | Se 196.026† | 223.7 | 306.8 | 1.046 | mg/L | 1.046 | mg/L | 22:13:36 |
| 1 | Sn 189.927† | 1153.3 | 1104.7 | 0.5157 | mg/L | 0.5157 | mg/L | 22:13:36 |
| 1 | Ti 337.279† | 316569.5 | 301867.1 | 0.5002 | mg/L | 0.5002 | mg/L | 22:13:10 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Tl 190.801† | 232.7 | 238.5 | 0.4806 mg/L | 0.4806 mg/L | 22:13:36 |
| 1 | V 292.402† | 104711.0 | 97793.2 | 0.4970 mg/L | 0.4970 mg/L | 22:13:16 |
| 1 | Zn 213.857† | 25850.1 | 24902.8 | 0.5410 mg/L | 0.5410 mg/L | 22:13:16 |
| 2 | Y 360.073 | 2892886.0 | 2892886.0 | | | 22:13:43 |
| 2 | Ag 328.068† | 57916.8 | 52763.8 | 0.2538 mg/L | 0.2538 mg/L | 22:13:48 |
| 2 | Al 237.313† | 18331.9 | 17605.6 | 2.519 mg/L | 2.519 mg/L | 22:13:48 |
| 2 | As 188.979† | 247.8 | 244.8 | 0.5142 mg/L | 0.5142 mg/L | 22:14:08 |
| 2 | B 182.528† | 276.1 | 267.5 | 0.5166 mg/L | 0.5166 mg/L | 22:14:08 |
| 2 | Ba 233.527† | 79091.0 | 75591.5 | 0.5231 mg/L | 0.5231 mg/L | 22:13:48 |
| 2 | Be 313.107† | 285450.1 | 266014.0 | 0.0506 mg/L | 0.0506 mg/L | 22:13:43 |
| 2 | Ca 315.886† | 1779911.3 | 1696834.5 | 11.27 mg/L | 11.27 mg/L | 22:13:43 |
| 2 | Cd 228.802† | 13829.4 | 13167.5 | 0.2479 mg/L | 0.2479 mg/L | 22:13:48 |
| 2 | Co 228.616† | 33668.1 | 32537.0 | 0.5040 mg/L | 0.5040 mg/L | 22:13:48 |
| 2 | Cr 267.716† | 81139.9 | 75606.7 | 0.5011 mg/L | 0.5011 mg/L | 22:13:48 |
| 2 | Cu 324.752† | 107614.0 | 102139.3 | 0.4915 mg/L | 0.4915 mg/L | 22:13:48 |
| 2 | Fe 238.204† | 301421.2 | 287693.4 | 2.653 mg/L | 2.653 mg/L | 22:13:48 |
| 2 | Mg 279.077† | 144281.9 | 137603.0 | 6.320 mg/L | 6.320 mg/L | 22:13:48 |
| 2 | Mn 257.610† | 599216.7 | 570130.4 | 0.6733 mg/L | 0.6733 mg/L | 22:13:43 |
| 2 | Mo 202.031† | 4672.5 | 4516.1 | 0.5020 mg/L | 0.5020 mg/L | 22:14:08 |
| 2 | Na 330.237† | 34065.8 | 28786.5 | 26.95 mg/L | 26.95 mg/L | 22:13:48 |
| 2 | Ni 231.604† | 22762.0 | 22044.0 | 0.5002 mg/L | 0.5002 mg/L | 22:13:48 |
| 2 | Pb 220.353† | 2945.0 | 2726.7 | 0.4981 mg/L | 0.4981 mg/L | 22:14:08 |
| 2 | Sb 206.836† | 1290.3 | 1128.6 | 0.4990 mg/L | 0.4990 mg/L | 22:14:08 |
| 2 | Se 196.026† | 223.1 | 305.3 | 1.041 mg/L | 1.041 mg/L | 22:14:08 |
| 2 | Sn 189.927† | 1161.5 | 1108.0 | 0.5172 mg/L | 0.5172 mg/L | 22:14:08 |
| 2 | Ti 337.279† | 319861.4 | 303773.8 | 0.5033 mg/L | 0.5033 mg/L | 22:13:43 |
| 2 | Tl 190.801† | 244.7 | 249.1 | 0.5015 mg/L | 0.5015 mg/L | 22:14:08 |
| 2 | V 292.402† | 104994.2 | 97654.9 | 0.4963 mg/L | 0.4963 mg/L | 22:13:48 |
| 2 | Zn 213.857† | 25996.5 | 24941.6 | 0.5419 mg/L | 0.5419 mg/L | 22:13:48 |

**Mean Data: 01110414-01ms**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2886996.4 | | | | | | 8329.15 | 0.29% |
| Ag 328.068† | 52752.6 | 0.2538 | mg/L | 0.00008 | 0.2538 | mg/L | 0.00008 | 0.03% |
| Al 237.313† | 17623.1 | 2.521 | mg/L | 0.0035 | 2.521 | mg/L | 0.0035 | 0.14% |
| As 188.979† | 242.5 | 0.5094 | mg/L | 0.00680 | 0.5094 | mg/L | 0.00680 | 1.33% |
| B 182.528† | 266.5 | 0.5146 | mg/L | 0.00281 | 0.5146 | mg/L | 0.00281 | 0.55% |
| Ba 233.527† | 75607.2 | 0.5232 | mg/L | 0.00015 | 0.5232 | mg/L | 0.00015 | 0.03% |
| Be 313.107† | 265549.3 | 0.0505 | mg/L | 0.00012 | 0.0505 | mg/L | 0.00012 | 0.25% |
| Ca 315.886† | 1693363.8 | 11.25 | mg/L | 0.033 | 11.25 | mg/L | 0.033 | 0.29% |
| Cd 228.802† | 13178.5 | 0.2481 | mg/L | 0.00034 | 0.2481 | mg/L | 0.00034 | 0.14% |
| Co 228.616† | 32533.6 | 0.5039 | mg/L | 0.00008 | 0.5039 | mg/L | 0.00008 | 0.01% |
| Cr 267.716† | 75654.3 | 0.5014 | mg/L | 0.00045 | 0.5014 | mg/L | 0.00045 | 0.09% |
| Cu 324.752† | 102176.8 | 0.4917 | mg/L | 0.00026 | 0.4917 | mg/L | 0.00026 | 0.05% |
| Fe 238.204† | 287751.5 | 2.654 | mg/L | 0.0007 | 2.654 | mg/L | 0.0007 | 0.03% |
| Mg 279.077† | 137814.8 | 6.330 | mg/L | 0.0138 | 6.330 | mg/L | 0.0138 | 0.22% |
| Mn 257.610† | 569156.9 | 0.6721 | mg/L | 0.00163 | 0.6721 | mg/L | 0.00163 | 0.24% |
| Mo 202.031† | 4502.1 | 0.5005 | mg/L | 0.00221 | 0.5005 | mg/L | 0.00221 | 0.44% |
| Na 330.237† | 28706.9 | 26.88 | mg/L | 0.103 | 26.88 | mg/L | 0.103 | 0.38% |
| Ni 231.604† | 22104.3 | 0.5016 | mg/L | 0.00194 | 0.5016 | mg/L | 0.00194 | 0.39% |
| Pb 220.353† | 2726.2 | 0.4980 | mg/L | 0.00015 | 0.4980 | mg/L | 0.00015 | 0.03% |
| Sb 206.836† | 1133.2 | 0.5010 | mg/L | 0.00288 | 0.5010 | mg/L | 0.00288 | 0.58% |
| Se 196.026† | 306.1 | 1.044 | mg/L | 0.0035 | 1.044 | mg/L | 0.0035 | 0.33% |
| Sn 189.927† | 1106.4 | 0.5164 | mg/L | 0.00107 | 0.5164 | mg/L | 0.00107 | 0.21% |
| Ti 337.279† | 302820.5 | 0.5017 | mg/L | 0.00223 | 0.5017 | mg/L | 0.00223 | 0.44% |
| Tl 190.801† | 243.8 | 0.4910 | mg/L | 0.01471 | 0.4910 | mg/L | 0.01471 | 3.00% |
| V 292.402† | 97724.1 | 0.4966 | mg/L | 0.00050 | 0.4966 | mg/L | 0.00050 | 0.10% |
| Zn 213.857† | 24922.2 | 0.5415 | mg/L | 0.00061 | 0.5415 | mg/L | 0.00061 | 0.11% |

**Recovery Check: 01110414-01ms**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Recovery (%) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2502 | 0.2538 | 0.000 | mg/L | 101.4 |
| Al 237.313 | 2.557 | 2.521 | 0.004 | mg/L | 98.6 |
| As 188.979 | 0.5043 | 0.5094 | 0.007 | mg/L | 101.0 |
| B 182.528 | 0.5196 | 0.5146 | 0.003 | mg/L | 99.0 |
| Ba 233.527 | 0.5171 | 0.5232 | 0.000 | mg/L | 101.2 |
| Be 313.107 | 0.0502 | 0.0505 | 0.000 | mg/L | 100.6 |

| | | | | | |
|---|---|---|---|---|---|
| Ca 315.886 | 11.36 | 11.25 | 0.033 | mg/L | 97.8 |
| Cd 228.802 | 0.2502 | 0.2481 | 0.000 | mg/L | 99.2 |
| Co 228.616 | 0.4995 | 0.5039 | 0.000 | mg/L | 100.9 |
| Cr 267.716 | 0.5013 | 0.5014 | 0.000 | mg/L | 100.0 |
| Cu 324.752 | 0.5023 | 0.4917 | 0.000 | mg/L | 97.9 |
| Fe 238.204 | 2.623 | 2.654 | 0.001 | mg/L | 101.2 |
| Mg 279.077 | 6.347 | 6.330 | 0.014 | mg/L | 99.7 |
| Mn 257.610 | 0.5838 | 0.6721 | 0.002 | mg/L | 117.7 |
| Mo 202.031 | 0.5011 | 0.5005 | 0.002 | mg/L | 99.9 |
| Na 330.237 | 27.59 | 26.88 | 0.103 | mg/L | 97.1 |
| Ni 231.604 | 0.5023 | 0.5016 | 0.002 | mg/L | 99.9 |
| Pb 220.353 | 0.4986 | 0.4980 | 0.000 | mg/L | 99.9 |
| Sb 206.836 | 0.4967 | 0.5010 | 0.003 | mg/L | 100.9 |
| Se 196.026 | 1.012 | 1.044 | 0.003 | mg/L | 103.2 |
| Sn 189.927 | 0.5008 | 0.5164 | 0.001 | mg/L | 103.1 |
| Ti 337.279 | 0.5014 | 0.5017 | 0.002 | mg/L | 100.1 |
| Tl 190.801 | 0.5140 | 0.4910 | 0.015 | mg/L | 95.4 |
| V 292.402 | 0.5011 | 0.4966 | 0.000 | mg/L | 99.1 |
| Zn 213.857 | 0.5404 | 0.5415 | 0.001 | mg/L | 100.2 |

**Sequence No.: 58**
**Sample ID: 01110414-01sdx5**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 46**
**Date Collected: 11/30/01 10:15:55 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 01110414-01sdx5**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2865421.0 | 2865421.0 | | | | | 22:17:31 |
| 1 | Ag 328.068† | 2607.2 | -4.4 | 0.0004 | mg/L | 0.0004 | mg/L | 22:17:37 |
| 1 | Al 237.313† | -13.1 | 95.5 | 0.0225 | mg/L | 0.0225 | mg/L | 22:17:57 |
| 1 | As 188.979† | -6.2 | 2.4 | 0.0043 | mg/L | 0.0043 | mg/L | 22:17:57 |
| 1 | B 182.528† | -0.9 | 3.1 | 0.0043 | mg/L | 0.0043 | mg/L | 22:17:57 |
| 1 | Ba 233.527† | 473.3 | 556.5 | 0.0033 | mg/L | 0.0033 | mg/L | 22:17:57 |
| 1 | Be 313.107† | 6514.2 | -166.5 | 0.0002 | mg/L | 0.0002 | mg/L | 22:17:37 |
| 1 | Ca 315.886† | 209062.0 | 199395.9 | 1.323 | mg/L | 1.323 | mg/L | 22:17:31 |
| 1 | Cd 228.802† | 28.5 | -5.0 | 0.0001 | mg/L | 0.0001 | mg/L | 22:17:57 |
| 1 | Co 228.616† | -416.1 | 0.3 | -0.0008 | mg/L | -0.0008 | mg/L | 22:17:57 |
| 1 | Cr 267.716† | 1986.9 | 74.6 | 0.0007 | mg/L | 0.0007 | mg/L | 22:17:37 |
| 1 | Cu 324.752† | 788.6 | 183.4 | 0.0024 | mg/L | 0.0024 | mg/L | 22:17:37 |
| 1 | Fe 238.204† | 2748.6 | 2640.2 | 0.0263 | mg/L | 0.0263 | mg/L | 22:17:37 |
| 1 | Mg 279.077† | 6597.1 | 6245.3 | 0.2830 | mg/L | 0.2830 | mg/L | 22:17:37 |
| 1 | Mn 257.610† | 17601.6 | 15148.9 | 0.0172 | mg/L | 0.0172 | mg/L | 22:17:37 |
| 1 | Mo 202.031† | -63.5 | -4.8 | -0.0001 | mg/L | -0.0001 | mg/L | 22:17:57 |
| 1 | Na 330.237† | 4252.2 | 368.7 | 0.8796 | mg/L | 0.8796 | mg/L | 22:17:37 |
| 1 | Ni 231.604† | -307.0 | 22.3 | 0.0005 | mg/L | 0.0005 | mg/L | 22:17:57 |
| 1 | Pb 220.353† | 78.6 | -8.5 | -0.0016 | mg/L | -0.0016 | mg/L | 22:17:57 |
| 1 | Sb 206.836† | 107.0 | 0.2 | 0.0019 | mg/L | 0.0019 | mg/L | 22:17:57 |
| 1 | Se 196.026† | -100.1 | -4.1 | -0.0172 | mg/L | -0.0172 | mg/L | 22:17:57 |
| 1 | Sn 189.927† | -4.1 | -4.6 | -0.0030 | mg/L | -0.0030 | mg/L | 22:17:57 |
| 1 | Ti 337.279† | 1713.1 | 121.9 | 0.0010 | mg/L | 0.0010 | mg/L | 22:17:37 |
| 1 | Tl 190.801† | -14.2 | 1.9 | 0.0063 | mg/L | 0.0063 | mg/L | 22:17:57 |
| 1 | V 292.402† | 2546.2 | -106.8 | 0.0010 | mg/L | 0.0010 | mg/L | 22:17:37 |
| 1 | Zn 213.857† | 343.0 | 458.9 | 0.0109 | mg/L | 0.0109 | mg/L | 22:17:57 |
| 2 | Y 360.073 | 2929711.1 | 2929711.1 | | | | | 22:18:03 |
| 2 | Ag 328.068† | 2611.7 | -55.3 | 0.0001 | mg/L | 0.0001 | mg/L | 22:18:08 |
| 2 | Al 237.313† | -16.3 | 92.8 | 0.0221 | mg/L | 0.0221 | mg/L | 22:18:28 |
| 2 | As 188.979† | -8.0 | 0.7 | 0.0009 | mg/L | 0.0009 | mg/L | 22:18:28 |
| 2 | B 182.528† | 1.8 | 5.6 | 0.0092 | mg/L | 0.0092 | mg/L | 22:18:28 |
| 2 | Ba 233.527† | 470.2 | 543.6 | 0.0032 | mg/L | 0.0032 | mg/L | 22:18:28 |
| 2 | Be 313.107† | 6420.0 | -393.0 | 0.0001 | mg/L | 0.0001 | mg/L | 22:18:08 |
| 2 | Ca 315.886† | 212730.1 | 198432.2 | 1.317 | mg/L | 1.317 | mg/L | 22:18:03 |
| 2 | Cd 228.802† | 31.9 | -2.4 | 0.0001 | mg/L | 0.0001 | mg/L | 22:18:28 |
| 2 | Co 228.616† | -407.0 | 17.8 | -0.0005 | mg/L | -0.0005 | mg/L | 22:18:28 |
| 2 | Cr 267.716† | 1891.9 | -56.9 | -0.0001 | mg/L | -0.0001 | mg/L | 22:18:08 |
| 2 | Cu 324.752† | 789.6 | 167.6 | 0.0023 | mg/L | 0.0023 | mg/L | 22:18:08 |
| 2 | Fe 238.204† | 2699.0 | 2535.3 | 0.0254 | mg/L | 0.0254 | mg/L | 22:18:08 |
| 2 | Mg 279.077† | 6648.6 | 6154.4 | 0.2789 | mg/L | 0.2789 | mg/L | 22:18:08 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Mn 257.610† | 17574.6 | 14751.2 | 0.0167 mg/L | 0.0167 mg/L | 22:18:08 |
| 2 | Mo 202.031† | -49.7 | 9.5 | 0.0015 mg/L | 0.0015 mg/L | 22:18:28 |
| 2 | Na 330.237† | 4319.4 | 342.2 | 0.8554 mg/L | 0.8554 mg/L | 22:18:08 |
| 2 | Ni 231.604† | -304.5 | 31.1 | 0.0007 mg/L | 0.0007 mg/L | 22:18:28 |
| 2 | Pb 220.353† | 76.9 | -11.8 | -0.0021 mg/L | -0.0021 mg/L | 22:18:28 |
| 2 | Sb 206.836† | 110.4 | 1.1 | 0.0023 mg/L | 0.0023 mg/L | 22:18:28 |
| 2 | Se 196.026† | -88.1 | 9.4 | 0.0286 mg/L | 0.0286 mg/L | 22:18:28 |
| 2 | Sn 189.927† | -4.6 | -4.9 | -0.0032 mg/L | -0.0032 mg/L | 22:18:28 |
| 2 | Ti 337.279† | 1719.8 | 92.0 | 0.0009 mg/L | 0.0009 mg/L | 22:18:08 |
| 2 | Tl 190.801† | -14.3 | 2.0 | 0.0066 mg/L | 0.0066 mg/L | 22:18:28 |
| 2 | V 292.402† | 2534.7 | -171.5 | 0.0007 mg/L | 0.0007 mg/L | 22:18:08 |
| 2 | Zn 213.857† | 343.6 | 452.2 | 0.0107 mg/L | 0.0107 mg/L | 22:18:28 |

**Mean Data: 01110414-01sdx5**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2897566.1 | | | | | | 45459.93 | 1.57% |
| Ag 328.068† | -29.9 | 0.0003 | mg/L | 0.00017 | 0.0003 | mg/L | 0.00017 | 68.79% |
| Al 237.313† | 94.1 | 0.0223 | mg/L | 0.00027 | 0.0223 | mg/L | 0.00027 | 1.20% |
| As 188.979† | 1.6 | 0.0026 | mg/L | 0.00241 | 0.0026 | mg/L | 0.00241 | 93.72% |
| B 182.528† | 4.4 | 0.0067 | mg/L | 0.00346 | 0.0067 | mg/L | 0.00346 | 51.43% |
| Ba 233.527† | 550.0 | 0.0033 | mg/L | 0.00006 | 0.0033 | mg/L | 0.00006 | 1.95% |
| Be 313.107† | -279.7 | 0.0002 | mg/L | 0.00003 | 0.0002 | mg/L | 0.00003 | 18.43% |
| Ca 315.886† | 198914.1 | 1.320 | mg/L | 0.0045 | 1.320 | mg/L | 0.0045 | 0.34% |
| Cd 228.802† | -3.7 | 0.0001 | mg/L | 0.00005 | 0.0001 | mg/L | 0.00005 | 49.63% |
| Co 228.616† | 9.0 | -0.0006 | mg/L | 0.00019 | -0.0006 | mg/L | 0.00019 | 30.58% |
| Cr 267.716† | 8.9 | 0.0003 | mg/L | 0.00062 | 0.0003 | mg/L | 0.00062 | 215.46% |
| Cu 324.752† | 175.5 | 0.0023 | mg/L | 0.00005 | 0.0023 | mg/L | 0.00005 | 2.31% |
| Fe 238.204† | 2587.7 | 0.0258 | mg/L | 0.00068 | 0.0258 | mg/L | 0.00068 | 2.64% |
| Mg 279.077† | 6199.9 | 0.2810 | mg/L | 0.00296 | 0.2810 | mg/L | 0.00296 | 1.05% |
| Mn 257.610† | 14950.1 | 0.0170 | mg/L | 0.00033 | 0.0170 | mg/L | 0.00033 | 1.97% |
| Mo 202.031† | 2.3 | 0.0007 | mg/L | 0.00112 | 0.0007 | mg/L | 0.00112 | 153.02% |
| Na 330.237† | 355.5 | 0.8675 | mg/L | 0.01712 | 0.8675 | mg/L | 0.01712 | 1.97% |
| Ni 231.604† | 26.7 | 0.0006 | mg/L | 0.00014 | 0.0006 | mg/L | 0.00014 | 24.47% |
| Pb 220.353† | -10.1 | -0.0019 | mg/L | 0.00042 | -0.0019 | mg/L | 0.00042 | 22.59% |
| Sb 206.836† | 0.6 | 0.0021 | mg/L | 0.00028 | 0.0021 | mg/L | 0.00028 | 13.67% |
| Se 196.026† | 2.7 | 0.0057 | mg/L | 0.03238 | 0.0057 | mg/L | 0.03238 | 571.02% |
| Sn 189.927† | -4.7 | -0.0031 | mg/L | 0.00012 | -0.0031 | mg/L | 0.00012 | 3.78% |
| Ti 337.279† | 106.9 | 0.0009 | mg/L | 0.00003 | 0.0009 | mg/L | 0.00003 | 3.70% |
| Tl 190.801† | 1.9 | 0.0064 | mg/L | 0.00022 | 0.0064 | mg/L | 0.00022 | 3.41% |
| V 292.402† | -139.2 | 0.0008 | mg/L | 0.00023 | 0.0008 | mg/L | 0.00023 | 27.39% |
| Zn 213.857† | 455.5 | 0.0108 | mg/L | 0.00010 | 0.0108 | mg/L | 0.00010 | 0.96% |

**Dilution Check: 01110414-01sdx5**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Difference (%) |
|---|---|---|---|---|---|
| Y 360.073 | | | 0.000 | mg/L | Not calculated |
| Ag 328.068 | 0.0000 | 0.0003 | 0.000 | mg/L | 446.1 |
| Al 237.313 | 0.0114 | 0.0223 | 0.000 | mg/L | 96.1 |
| As 188.979 | 0.0009 | 0.0026 | 0.002 | mg/L | 198.2 |
| B 182.528 | 0.0039 | 0.0067 | 0.003 | mg/L | 72.1 |
| Ba 233.527 | 0.0034 | 0.0033 | 0.000 | mg/L | 5.1 |
| Be 313.107 | 0.0000 | 0.0002 | 0.000 | mg/L | 328.8 |
| Ca 315.886 | 1.272 | 1.320 | 0.005 | mg/L | 3.8 |
| Cd 228.802 | 0.0000 | 0.0001 | 0.000 | mg/L | 177.0 |
| Co 228.616 | -0.0001 | -0.0006 | 0.000 | mg/L | -559.6 |
| Cr 267.716 | 0.0003 | 0.0003 | 0.001 | mg/L | 10.2 |
| Cu 324.752 | 0.0005 | 0.0023 | 0.000 | mg/L | 418.0 |
| Fe 238.204 | 0.0247 | 0.0258 | 0.001 | mg/L | 4.6 |
| Mg 279.077 | 0.2693 | 0.2810 | 0.003 | mg/L | 4.3 |
| Mn 257.610 | 0.0168 | 0.0170 | 0.000 | mg/L | 1.1 |
| Mo 202.031 | 0.0002 | 0.0007 | 0.001 | mg/L | 243.7 |
| Na 330.237 | 0.5184 | 0.8675 | 0.017 | mg/L | 67.4 |
| Ni 231.604 | 0.0005 | 0.0006 | 0.000 | mg/L | 26.9 |
| Pb 220.353 | -0.0003 | -0.0019 | 0.000 | mg/L | -572.5 |
| Sb 206.836 | -0.0007 | 0.0021 | 0.000 | mg/L | -408.4 |
| Se 196.026 | 0.0025 | 0.0057 | 0.032 | mg/L | 129.7 |
| Sn 189.927 | 0.0002 | -0.0031 | 0.000 | mg/L | 2127.6 |
| Ti 337.279 | 0.0003 | 0.0009 | 0.000 | mg/L | 245.9 |

| | | | | | |
|---|---|---|---|---|---|
| Tl 190.801 | 0.0028 | 0.0064 | 0.000 | mg/L | 129.6 |
| V 292.402 | 0.0002 | 0.0008 | 0.000 | mg/L | 266.5 |
| Zn 213.857 | 0.0081 | 0.0108 | 0.000 | mg/L | 33.9 |

**Sequence No.: 59** **Autosampler Location: 47**
**Sample ID: 01110414-01pds** **Date Collected: 11/30/01 10:20:16 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

**Replicate Data: 01110414-01pds**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2864547.1 | 2864547.1 | | | | | 22:21:54 |
| 1 | Ag 328.068† | 55939.4 | 51404.7 | 0.2473 | mg/L | 0.2473 | mg/L | 22:22:00 |
| 1 | Al 237.313† | 17735.9 | 17204.2 | 2.462 | mg/L | 2.462 | mg/L | 22:22:00 |
| 1 | As 188.979† | 240.0 | 239.6 | 0.5033 | mg/L | 0.5033 | mg/L | 22:22:20 |
| 1 | B 182.528† | 265.4 | 259.8 | 0.5016 | mg/L | 0.5016 | mg/L | 22:22:20 |
| 1 | Ba 233.527† | 76842.7 | 74171.2 | 0.5133 | mg/L | 0.5133 | mg/L | 22:22:00 |
| 1 | Be 313.107† | 277520.7 | 261066.0 | 0.0496 | mg/L | 0.0496 | mg/L | 22:21:54 |
| 1 | Ca 315.886† | 1763586.9 | 1697906.1 | 11.28 | mg/L | 11.28 | mg/L | 22:21:54 |
| 1 | Cd 228.802† | 13264.5 | 12753.6 | 0.2401 | mg/L | 0.2401 | mg/L | 22:22:00 |
| 1 | Co 228.616† | 32647.9 | 31871.5 | 0.4936 | mg/L | 0.4936 | mg/L | 22:22:00 |
| 1 | Cr 267.716† | 79078.7 | 74386.1 | 0.4930 | mg/L | 0.4930 | mg/L | 22:22:00 |
| 1 | Cu 324.752† | 104187.4 | 99852.5 | 0.4805 | mg/L | 0.4805 | mg/L | 22:22:00 |
| 1 | Fe 238.204† | 289785.4 | 279323.5 | 2.576 | mg/L | 2.576 | mg/L | 22:22:00 |
| 1 | Mg 279.077† | 140592.5 | 135409.1 | 6.219 | mg/L | 6.219 | mg/L | 22:22:00 |
| 1 | Mn 257.610† | 518740.2 | 498215.2 | 0.5882 | mg/L | 0.5882 | mg/L | 22:21:54 |
| 1 | Mo 202.031† | 4586.3 | 4477.2 | 0.4977 | mg/L | 0.4977 | mg/L | 22:22:20 |
| 1 | Na 330.237† | 32806.4 | 27894.2 | 26.13 | mg/L | 26.13 | mg/L | 22:22:00 |
| 1 | Ni 231.604† | 22198.0 | 21715.3 | 0.4928 | mg/L | 0.4928 | mg/L | 22:22:00 |
| 1 | Pb 220.353† | 2892.8 | 2704.2 | 0.4940 | mg/L | 0.4940 | mg/L | 22:22:20 |
| 1 | Sb 206.836† | 1256.4 | 1108.1 | 0.4899 | mg/L | 0.4899 | mg/L | 22:22:20 |
| 1 | Se 196.026† | 211.3 | 296.1 | 1.010 | mg/L | 1.010 | mg/L | 22:22:20 |
| 1 | Sn 189.927† | 1145.7 | 1103.7 | 0.5151 | mg/L | 0.5151 | mg/L | 22:22:20 |
| 1 | Ti 337.279† | 311567.6 | 298799.5 | 0.4951 | mg/L | 0.4951 | mg/L | 22:21:54 |
| 1 | Tl 190.801† | 237.1 | 244.1 | 0.4916 | mg/L | 0.4916 | mg/L | 22:22:20 |
| 1 | V 292.402† | 102379.1 | 96125.6 | 0.4885 | mg/L | 0.4885 | mg/L | 22:22:00 |
| 1 | Zn 213.857† | 25019.0 | 24244.8 | 0.5267 | mg/L | 0.5267 | mg/L | 22:22:00 |
| 2 | Y 360.073 | 2924187.8 | 2924187.8 | | | | | 22:22:27 |
| 2 | Ag 328.068† | 57190.7 | 51486.5 | 0.2477 | mg/L | 0.2477 | mg/L | 22:22:32 |
| 2 | Al 237.313† | 18249.9 | 17341.0 | 2.481 | mg/L | 2.481 | mg/L | 22:22:32 |
| 2 | As 188.979† | 244.2 | 239.0 | 0.5019 | mg/L | 0.5019 | mg/L | 22:22:52 |
| 2 | B 182.528† | 268.5 | 257.5 | 0.4971 | mg/L | 0.4971 | mg/L | 22:22:52 |
| 2 | Ba 233.527† | 78613.0 | 74332.1 | 0.5144 | mg/L | 0.5144 | mg/L | 22:22:32 |
| 2 | Be 313.107† | 281534.2 | 259399.8 | 0.0493 | mg/L | 0.0493 | mg/L | 22:22:27 |
| 2 | Ca 315.886† | 1790643.1 | 1688782.4 | 11.22 | mg/L | 11.22 | mg/L | 22:22:27 |
| 2 | Cd 228.802† | 13621.9 | 12830.3 | 0.2416 | mg/L | 0.2416 | mg/L | 22:22:32 |
| 2 | Co 228.616† | 33469.2 | 32005.2 | 0.4957 | mg/L | 0.4957 | mg/L | 22:22:32 |
| 2 | Cr 267.716† | 80766.3 | 74425.0 | 0.4933 | mg/L | 0.4933 | mg/L | 22:22:32 |
| 2 | Cu 324.752† | 107278.7 | 100723.2 | 0.4847 | mg/L | 0.4847 | mg/L | 22:22:32 |
| 2 | Fe 238.204† | 296690.9 | 280147.0 | 2.584 | mg/L | 2.584 | mg/L | 22:22:32 |
| 2 | Mg 279.077† | 143747.1 | 135623.8 | 6.229 | mg/L | 6.229 | mg/L | 22:22:32 |
| 2 | Mn 257.610† | 526792.9 | 495620.7 | 0.5852 | mg/L | 0.5852 | mg/L | 22:22:27 |
| 2 | Mo 202.031† | 4588.4 | 4389.1 | 0.4879 | mg/L | 0.4879 | mg/L | 22:22:52 |
| 2 | Na 330.237† | 33793.7 | 28181.5 | 26.39 | mg/L | 26.39 | mg/L | 22:22:32 |
| 2 | Ni 231.604† | 22668.1 | 21722.8 | 0.4930 | mg/L | 0.4930 | mg/L | 22:22:32 |
| 2 | Pb 220.353† | 2888.9 | 2643.6 | 0.4829 | mg/L | 0.4829 | mg/L | 22:22:52 |
| 2 | Sb 206.836† | 1252.8 | 1080.0 | 0.4775 | mg/L | 0.4775 | mg/L | 22:22:52 |
| 2 | Se 196.026† | 211.1 | 291.7 | 0.9949 | mg/L | 0.9949 | mg/L | 22:22:52 |
| 2 | Sn 189.927† | 1150.3 | 1085.6 | 0.5066 | mg/L | 0.5066 | mg/L | 22:22:52 |
| 2 | Ti 337.279† | 316776.1 | 297592.4 | 0.4931 | mg/L | 0.4931 | mg/L | 22:22:27 |
| 2 | Tl 190.801† | 232.3 | 234.8 | 0.4733 | mg/L | 0.4733 | mg/L | 22:22:52 |
| 2 | V 292.402† | 104653.2 | 96260.2 | 0.4892 | mg/L | 0.4892 | mg/L | 22:22:32 |
| 2 | Zn 213.857† | 25624.4 | 24324.6 | 0.5285 | mg/L | 0.5285 | mg/L | 22:22:32 |

**Mean Data: 01110414-01pds**

| | Mean Corrected | Calib | Sample |
|---|---|---|---|

| Analyte | Intensity | Conc. | Units | Std.Dev. | Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2894367.4 | | | | | | 42172.34 | 1.46% |
| Ag 328.068† | 51445.6 | 0.2475 | mg/L | 0.00028 | 0.2475 | mg/L | 0.00028 | 0.11% |
| Al 237.313† | 17272.6 | 2.472 | mg/L | 0.0138 | 2.472 | mg/L | 0.0138 | 0.56% |
| As 188.979† | 239.3 | 0.5026 | mg/L | 0.00102 | 0.5026 | mg/L | 0.00102 | 0.20% |
| B 182.528† | 258.6 | 0.4993 | mg/L | 0.00316 | 0.4993 | mg/L | 0.00316 | 0.63% |
| Ba 233.527† | 74251.6 | 0.5138 | mg/L | 0.00079 | 0.5138 | mg/L | 0.00079 | 0.15% |
| Be 313.107† | 260232.9 | 0.0495 | mg/L | 0.00022 | 0.0495 | mg/L | 0.00022 | 0.45% |
| Ca 315.886† | 1693344.3 | 11.25 | mg/L | 0.043 | 11.25 | mg/L | 0.043 | 0.38% |
| Cd 228.802† | 12792.0 | 0.2408 | mg/L | 0.00104 | 0.2408 | mg/L | 0.00104 | 0.43% |
| Co 228.616† | 31938.4 | 0.4947 | mg/L | 0.00147 | 0.4947 | mg/L | 0.00147 | 0.30% |
| Cr 267.716† | 74405.6 | 0.4932 | mg/L | 0.00018 | 0.4932 | mg/L | 0.00018 | 0.04% |
| Cu 324.752† | 100287.9 | 0.4826 | mg/L | 0.00296 | 0.4826 | mg/L | 0.00296 | 0.61% |
| Fe 238.204† | 279735.2 | 2.580 | mg/L | 0.0054 | 2.580 | mg/L | 0.0054 | 0.21% |
| Mg 279.077† | 135516.5 | 6.224 | mg/L | 0.0070 | 6.224 | mg/L | 0.0070 | 0.11% |
| Mn 257.610† | 496917.9 | 0.5867 | mg/L | 0.00217 | 0.5867 | mg/L | 0.00217 | 0.37% |
| Mo 202.031† | 4433.1 | 0.4928 | mg/L | 0.00692 | 0.4928 | mg/L | 0.00692 | 1.40% |
| Na 330.237† | 28037.9 | 26.26 | mg/L | 0.185 | 26.26 | mg/L | 0.185 | 0.70% |
| Ni 231.604† | 21719.0 | 0.4929 | mg/L | 0.00012 | 0.4929 | mg/L | 0.00012 | 0.02% |
| Pb 220.353† | 2673.9 | 0.4885 | mg/L | 0.00782 | 0.4885 | mg/L | 0.00782 | 1.60% |
| Sb 206.836† | 1094.1 | 0.4837 | mg/L | 0.00881 | 0.4837 | mg/L | 0.00881 | 1.82% |
| Se 196.026† | 293.9 | 1.002 | mg/L | 0.0106 | 1.002 | mg/L | 0.0106 | 1.06% |
| Sn 189.927† | 1094.7 | 0.5109 | mg/L | 0.00600 | 0.5109 | mg/L | 0.00600 | 1.17% |
| Ti 337.279† | 298196.0 | 0.4941 | mg/L | 0.00141 | 0.4941 | mg/L | 0.00141 | 0.29% |
| Tl 190.801† | 239.5 | 0.4824 | mg/L | 0.01291 | 0.4824 | mg/L | 0.01291 | 2.68% |
| V 292.402† | 96192.9 | 0.4889 | mg/L | 0.00048 | 0.4889 | mg/L | 0.00048 | 0.10% |
| Zn 213.857† | 24284.7 | 0.5276 | mg/L | 0.00123 | 0.5276 | mg/L | 0.00123 | 0.23% |

**Recovery Check: 01110414-01pds**

| Analyte | Expected Conc. | Measured Conc. | Std. Dev. | Units | Recovery (%) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2502 | 0.2475 | 0.000 | mg/L | 98.9 |
| Al 237.313 | 2.557 | 2.472 | 0.014 | mg/L | 96.6 |
| As 188.979 | 0.5043 | 0.5026 | 0.001 | mg/L | 99.7 |
| B 182.528 | 0.5196 | 0.4993 | 0.003 | mg/L | 96.0 |
| Ba 233.527 | 0.5171 | 0.5138 | 0.001 | mg/L | 99.3 |
| Be 313.107 | 0.0502 | 0.0495 | 0.000 | mg/L | 98.6 |
| Ca 315.886 | 11.36 | 11.25 | 0.043 | mg/L | 97.8 |
| Cd 228.802 | 0.2502 | 0.2408 | 0.001 | mg/L | 96.3 |
| Co 228.616 | 0.4995 | 0.4947 | 0.001 | mg/L | 99.0 |
| Cr 267.716 | 0.5013 | 0.4932 | 0.000 | mg/L | 98.4 |
| Cu 324.752 | 0.5023 | 0.4826 | 0.003 | mg/L | 96.1 |
| Fe 238.204 | 2.623 | 2.580 | 0.005 | mg/L | 98.3 |
| Mg 279.077 | 6.347 | 6.224 | 0.007 | mg/L | 97.5 |
| Mn 257.610 | 0.5838 | 0.5867 | 0.002 | mg/L | 100.6 |
| Mo 202.031 | 0.5011 | 0.4928 | 0.007 | mg/L | 98.4 |
| Na 330.237 | 27.59 | 26.26 | 0.185 | mg/L | 94.7 |
| Ni 231.604 | 0.5023 | 0.4929 | 0.000 | mg/L | 98.1 |
| Pb 220.353 | 0.4986 | 0.4885 | 0.008 | mg/L | 98.0 |
| Sb 206.836 | 0.4967 | 0.4837 | 0.009 | mg/L | 97.4 |
| Se 196.026 | 1.012 | 1.002 | 0.011 | mg/L | 99.0 |
| Sn 189.927 | 0.5008 | 0.5109 | 0.006 | mg/L | 102.0 |
| Ti 337.279 | 0.5014 | 0.4941 | 0.001 | mg/L | 98.5 |
| Tl 190.801 | 0.5140 | 0.4824 | 0.013 | mg/L | 93.7 |
| V 292.402 | 0.5011 | 0.4889 | 0.000 | mg/L | 97.5 |
| Zn 213.857 | 0.5404 | 0.5276 | 0.001 | mg/L | 97.4 |

**Sequence No.: 60**
**Sampl ID: 01110414-06**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 48**
**Date Collected: 11/30/01 10:24:40 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: 01110414-06**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Units | Sample Conc. | Units | Analysis Tim |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2915440.1 | 2915440.1 | | | | | 22:26:13 |
| 1 | Ag 328.068† | 2706.5 | 46.5 | 0.0006 | mg/L | 0.0006 | mg/L | 22:26:19 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Al 237.313† | 200.8 | 298.3 | 0.0474 mg/L | 0.0474 mg/L | 22:26:39 |
| 1 | As 188.979† | -2.1 | 6.3 | 0.0126 mg/L | 0.0126 mg/L | 22:26:39 |
| 1 | B 182.528† | 6.8 | 10.4 | 0.0171 mg/L | 0.0171 mg/L | 22:26:39 |
| 1 | Ba 233.527† | 1201.3 | 1238.2 | 0.0080 mg/L | 0.0080 mg/L | 22:26:39 |
| 1 | Be 313.107† | 6539.5 | -250.2 | 0.0002 mg/L | 0.0002 mg/L | 22:26:19 |
| 1 | Ca 315.886† | 1043386.7 | 986128.8 | 6.549 mg/L | 6.549 mg/L | 22:26:13 |
| 1 | Cd 228.802† | 51.0 | 15.9 | 0.0004 mg/L | 0.0004 mg/L | 22:26:39 |
| 1 | Co 228.616† | -409.9 | 13.1 | -0.0006 mg/L | -0.0006 mg/L | 22:26:39 |
| 1 | Cr 267.716† | 2022.8 | 75.8 | 0.0007 mg/L | 0.0007 mg/L | 22:26:19 |
| 1 | Cu 324.752† | 754.4 | 137.9 | 0.0022 mg/L | 0.0022 mg/L | 22:26:19 |
| 1 | Fe 238.204† | 55157.4 | 52231.1 | 0.4829 mg/L | 0.4829 mg/L | 22:26:19 |
| 1 | Mg 279.077† | 39595.0 | 37388.6 | 1.715 mg/L | 1.715 mg/L | 22:26:19 |
| 1 | Mn 257.610† | 5900.3 | 3775.6 | 0.0037 mg/L | 0.0037 mg/L | 22:26:19 |
| 1 | Mo 202.031† | -49.5 | 9.5 | 0.0015 mg/L | 0.0015 mg/L | 22:26:39 |
| 1 | Na 330.237† | 7439.1 | 3316.8 | 3.591 mg/L | 3.591 mg/L | 22:26:19 |
| 1 | Ni 231.604† | -305.3 | 28.9 | 0.0006 mg/L | 0.0006 mg/L | 22:26:39 |
| 1 | Pb 220.353† | 78.3 | -10.2 | -0.0019 mg/L | -0.0019 mg/L | 22:26:39 |
| 1 | Sb 206.836† | 108.9 | 0.2 | 0.0019 mg/L | 0.0019 mg/L | 22:26:39 |
| 1 | Se 196.026† | -91.6 | 5.6 | 0.0161 mg/L | 0.0161 mg/L | 22:26:39 |
| 1 | Sn 189.927† | 6.7 | 5.8 | 0.0001 mg/L | 0.0001 mg/L | 22:26:39 |
| 1 | Ti 337.279† | 1765.9 | 143.5 | 0.0010 mg/L | 0.0010 mg/L | 22:26:19 |
| 1 | Tl 190.801† | -12.0 | 4.2 | 0.0108 mg/L | 0.0108 mg/L | 22:26:39 |
| 1 | V 292.402† | 2559.7 | -136.1 | 0.0008 mg/L | 0.0008 mg/L | 22:26:19 |
| 1 | Zn 213.857† | 4381.9 | 4278.4 | 0.0943 mg/L | 0.0943 mg/L | 22:26:19 |
| 2 | Y 360.073 | 2928710.1 | 2928710.1 | | | 22:26:45 |
| 2 | Ag 328.068† | 2574.5 | -89.6 | 0.0000 mg/L | 0.0000 mg/L | 22:26:50 |
| 2 | Al 237.313† | 181.2 | 279.0 | 0.0445 mg/L | 0.0445 mg/L | 22:27:10 |
| 2 | As 188.979† | -5.1 | 3.5 | 0.0067 mg/L | 0.0067 mg/L | 22:27:10 |
| 2 | B 182.528† | 7.7 | 11.2 | 0.0188 mg/L | 0.0188 mg/L | 22:27:10 |
| 2 | Ba 233.527† | 1211.0 | 1242.2 | 0.0080 mg/L | 0.0080 mg/L | 22:27:10 |
| 2 | Be 313.107† | 6637.9 | -185.5 | 0.0002 mg/L | 0.0002 mg/L | 22:26:50 |
| 2 | Ca 315.886† | 1049246.7 | 987176.2 | 6.556 mg/L | 6.556 mg/L | 22:26:45 |
| 2 | Cd 228.802† | 57.1 | 21.4 | 0.0006 mg/L | 0.0006 mg/L | 22:27:10 |
| 2 | Co 228.616† | -413.4 | 11.6 | -0.0006 mg/L | -0.0006 mg/L | 22:27:10 |
| 2 | Cr 267.716† | 2037.2 | 80.7 | 0.0008 mg/L | 0.0008 mg/L | 22:26:50 |
| 2 | Cu 324.752† | 786.1 | 164.5 | 0.0023 mg/L | 0.0023 mg/L | 22:26:50 |
| 2 | Fe 238.204† | 56132.0 | 52913.3 | 0.4892 mg/L | 0.4892 mg/L | 22:26:50 |
| 2 | Mg 279.077† | 40351.9 | 37932.3 | 1.740 mg/L | 1.740 mg/L | 22:26:50 |
| 2 | Mn 257.610† | 5918.0 | 3767.0 | 0.0037 mg/L | 0.0037 mg/L | 22:26:50 |
| 2 | Mo 202.031† | -40.9 | 17.8 | 0.0024 mg/L | 0.0024 mg/L | 22:27:10 |
| 2 | Na 330.237† | 7538.0 | 3378.1 | 3.647 mg/L | 3.647 mg/L | 22:26:50 |
| 2 | Ni 231.604† | -312.7 | 23.2 | 0.0005 mg/L | 0.0005 mg/L | 22:27:10 |
| 2 | Pb 220.353† | 82.9 | -6.2 | -0.0011 mg/L | -0.0011 mg/L | 22:27:10 |
| 2 | Sb 206.836† | 107.9 | -1.2 | 0.0012 mg/L | 0.0012 mg/L | 22:27:10 |
| 2 | Se 196.026† | -90.2 | 7.4 | 0.0221 mg/L | 0.0221 mg/L | 22:27:10 |
| 2 | Sn 189.927† | 8.5 | 7.4 | 0.0008 mg/L | 0.0008 mg/L | 22:27:10 |
| 2 | Ti 337.279† | 1750.6 | 121.5 | 0.0010 mg/L | 0.0010 mg/L | 22:26:50 |
| 2 | Tl 190.801† | -8.7 | 7.3 | 0.0169 mg/L | 0.0169 mg/L | 22:27:10 |
| 2 | V 292.402† | 2535.9 | -169.5 | 0.0006 mg/L | 0.0006 mg/L | 22:26:50 |
| 2 | Zn 213.857† | 4472.6 | 4345.1 | 0.0957 mg/L | 0.0957 mg/L | 22:26:50 |

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**Mean Data: 01110414-06**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2922075.1 | | | | | | 9383.27 | 0.32% |
| Ag 328.068† | -21.5 | 0.0003 | mg/L | 0.00046 | 0.0003 | mg/L | 0.00046 | 158.52% |
| Al 237.313† | 288.6 | 0.0460 | mg/L | 0.00200 | 0.0460 | mg/L | 0.00200 | 4.35% |
| As 188.979† | 4.9 | 0.0096 | mg/L | 0.00417 | 0.0096 | mg/L | 0.00417 | 43.40% |
| B 182.528† | 10.8 | 0.0180 | mg/L | 0.00118 | 0.0180 | mg/L | 0.00118 | 6.57% |
| Ba 233.527† | 1240.2 | 0.0080 | mg/L | 0.00002 | 0.0080 | mg/L | 0.00002 | 0.25% |
| Be 313.107† | -217.8 | 0.0002 | mg/L | 0.00001 | 0.0002 | mg/L | 0.00001 | 4.91% |
| Ca 315.886† | 986652.5 | 6.553 | mg/L | 0.0049 | 6.553 | mg/L | 0.0049 | 0.08% |
| Cd 228.802† | 18.6 | 0.0005 | mg/L | 0.00010 | 0.0005 | mg/L | 0.00010 | 20.85% |
| Co 228.616† | 12.4 | -0.0006 | mg/L | 0.00002 | -0.0006 | mg/L | 0.00002 | 2.90% |
| Cr 267.716† | 78.3 | 0.0007 | mg/L | 0.00002 | 0.0007 | mg/L | 0.00002 | 3.08% |
| Cu 324.752† | 151.2 | 0.0022 | mg/L | 0.00009 | 0.0022 | mg/L | 0.00009 | 4.04% |
| Fe 238.204† | 52572.2 | 0.4861 | mg/L | 0.00444 | 0.4861 | mg/L | 0.00444 | 0.91% |
| Mg 279.077† | 37660.5 | 1.727 | mg/L | 0.0177 | 1.727 | mg/L | 0.0177 | 1.02% |
| Mn 257.610† | 3771.3 | 0.0037 | mg/L | 0.00001 | 0.0037 | mg/L | 0.00001 | 0.20% |
| Mo 202.031† | 13.6 | 0.0020 | mg/L | 0.00065 | 0.0020 | mg/L | 0.00065 | 32.65% |

| | | | | | | |
|---|---|---|---|---|---|---|
| Na 330.237† | 3347.5 | 3.619 mg/L | 0.0398 | 3.619 mg/L | 0.0398 | 1.10% |
| Ni 231.604† | 26.0 | 0.0006 mg/L | 0.00009 | 0.0006 mg/L | 0.00009 | 16.12% |
| Pb 220.353† | -8.2 | -0.0015 mg/L | 0.00052 | -0.0015 mg/L | 0.00052 | 34.69% |
| Sb 206.836† | -0.5 | 0.0015 mg/L | 0.00043 | 0.0015 mg/L | 0.00043 | 27.59% |
| Se 196.026† | 6.5 | 0.0191 mg/L | 0.00426 | 0.0191 mg/L | 0.00426 | 22.28% |
| Sn 189.927† | 6.6 | 0.0004 mg/L | 0.00055 | 0.0004 mg/L | 0.00055 | 124.84% |
| Ti 337.279† | 132.5 | 0.0010 mg/L | 0.00003 | 0.0010 mg/L | 0.00003 | 2.61% |
| Tl 190.801† | 5.7 | 0.0139 mg/L | 0.00428 | 0.0139 mg/L | 0.00428 | 30.85% |
| V 292.402† | -152.8 | 0.0007 mg/L | 0.00012 | 0.0007 mg/L | 0.00012 | 16.84% |
| Zn 213.857† | 4311.8 | 0.0950 mg/L | 0.00103 | 0.0950 mg/L | 0.00103 | 1.08% |

**Sequence No.: 61**
**Sample ID: CCV**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 3**
**Date Collected: 11/30/01 10:28:52 PM**
**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: CCV**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2871639.1 | 2871639.1 | | | | | 22:30:28 |
| 1 | Ag 328.068† | 56694.8 | 51997.9 | 0.2501 | mg/L | 0.2501 | mg/L | 22:30:33 |
| 1 | Al 237.313† | 17506.1 | 16941.1 | 2.425 | mg/L | 2.425 | mg/L | 22:30:33 |
| 1 | As 188.979† | 238.6 | 237.7 | 0.4992 | mg/L | 0.4992 | mg/L | 22:30:53 |
| 1 | B 182.528† | 248.4 | 242.8 | 0.4695 | mg/L | 0.4695 | mg/L | 22:30:53 |
| 1 | Ba 233.527† | 73918.4 | 71176.5 | 0.4925 | mg/L | 0.4925 | mg/L | 22:30:33 |
| 1 | Be 313.107† | 274309.0 | 257317.1 | 0.0489 | mg/L | 0.0489 | mg/L | 22:30:28 |
| 1 | Ca 315.886† | 770939.4 | 739230.9 | 4.908 | mg/L | 4.908 | mg/L | 22:30:28 |
| 1 | Cd 228.802† | 13454.4 | 12904.5 | 0.2430 | mg/L | 0.2430 | mg/L | 22:30:33 |
| 1 | Co 228.616† | 32634.6 | 31781.0 | 0.4922 | mg/L | 0.4922 | mg/L | 22:30:33 |
| 1 | Cr 267.716† | 78691.0 | 73825.0 | 0.4893 | mg/L | 0.4893 | mg/L | 22:30:33 |
| 1 | Cu 324.752† | 104100.8 | 99521.2 | 0.4789 | mg/L | 0.4789 | mg/L | 22:30:33 |
| 1 | Fe 238.204† | 275319.2 | 264723.7 | 2.443 | mg/L | 2.443 | mg/L | 22:30:33 |
| 1 | Mg 279.077† | 111131.3 | 106746.0 | 4.901 | mg/L | 4.901 | mg/L | 22:30:33 |
| 1 | Mn 257.610† | 435251.3 | 416701.9 | 0.4919 | mg/L | 0.4919 | mg/L | 22:30:28 |
| 1 | Mo 202.031† | 4475.9 | 4360.1 | 0.4847 | mg/L | 0.4847 | mg/L | 22:30:53 |
| 1 | Na 330.237† | 30271.5 | 25378.6 | 23.83 | mg/L | 23.83 | mg/L | 22:30:33 |
| 1 | Ni 231.604† | 22118.9 | 21586.5 | 0.4899 | mg/L | 0.4899 | mg/L | 22:30:33 |
| 1 | Pb 220.353† | 2858.2 | 2664.1 | 0.4866 | mg/L | 0.4866 | mg/L | 22:30:53 |
| 1 | Sb 206.836† | 1234.7 | 1084.2 | 0.4794 | mg/L | 0.4794 | mg/L | 22:30:53 |
| 1 | Se 196.026† | 212.4 | 296.7 | 1.012 | mg/L | 1.012 | mg/L | 22:30:53 |
| 1 | Sn 189.927† | 1075.9 | 1034.0 | 0.4848 | mg/L | 0.4848 | mg/L | 22:30:53 |
| 1 | Ti 337.279† | 306243.6 | 292938.6 | 0.4854 | mg/L | 0.4854 | mg/L | 22:30:28 |
| 1 | Tl 190.801† | 237.8 | 244.2 | 0.4915 | mg/L | 0.4915 | mg/L | 22:30:53 |
| 1 | V 292.402† | 102068.7 | 95583.4 | 0.4858 | mg/L | 0.4858 | mg/L | 22:30:33 |
| 1 | Zn 213.857† | 23566.1 | 22788.3 | 0.4950 | mg/L | 0.4950 | mg/L | 22:30:33 |
| 2 | Y 360.073 | 2876665.5 | 2876665.5 | | | | | 22:31:00 |
| 2 | Ag 328.068† | 56147.1 | 51376.9 | 0.2472 | mg/L | 0.2472 | mg/L | 22:31:06 |
| 2 | Al 237.313† | 17341.0 | 16753.2 | 2.398 | mg/L | 2.398 | mg/L | 22:31:06 |
| 2 | As 188.979† | 240.4 | 239.1 | 0.5022 | mg/L | 0.5022 | mg/L | 22:31:26 |
| 2 | B 182.528† | 257.0 | 250.6 | 0.4850 | mg/L | 0.4850 | mg/L | 22:31:26 |
| 2 | Ba 233.527† | 73259.2 | 70419.5 | 0.4873 | mg/L | 0.4873 | mg/L | 22:31:06 |
| 2 | Be 313.107† | 274559.8 | 257097.0 | 0.0489 | mg/L | 0.0489 | mg/L | 22:31:00 |
| 2 | Ca 315.886† | 770616.3 | 737625.6 | 4.898 | mg/L | 4.898 | mg/L | 22:31:00 |
| 2 | Cd 228.802† | 13408.2 | 12837.7 | 0.2417 | mg/L | 0.2417 | mg/L | 22:31:06 |
| 2 | Co 228.616† | 32315.2 | 31419.6 | 0.4866 | mg/L | 0.4866 | mg/L | 22:31:06 |
| 2 | Cr 267.716† | 78131.3 | 73155.7 | 0.4849 | mg/L | 0.4849 | mg/L | 22:31:06 |
| 2 | Cu 324.752† | 103291.2 | 98569.2 | 0.4744 | mg/L | 0.4744 | mg/L | 22:31:06 |
| 2 | Fe 238.204† | 273021.4 | 262055.6 | 2.418 | mg/L | 2.418 | mg/L | 22:31:06 |
| 2 | Mg 279.077† | 110390.5 | 105848.3 | 4.860 | mg/L | 4.860 | mg/L | 22:31:06 |
| 2 | Mn 257.610† | 435443.4 | 416154.9 | 0.4912 | mg/L | 0.4912 | mg/L | 22:31:00 |
| 2 | Mo 202.031† | 4476.2 | 4352.9 | 0.4839 | mg/L | 0.4839 | mg/L | 22:31:26 |
| 2 | Na 330.237† | 30124.1 | 25186.3 | 23.65 | mg/L | 23.65 | mg/L | 22:31:06 |
| 2 | Ni 231.604† | 21965.4 | 21401.9 | 0.4857 | mg/L | 0.4857 | mg/L | 22:31:06 |
| 2 | Pb 220.353† | 2851.0 | 2652.3 | 0.4845 | mg/L | 0.4845 | mg/L | 22:31:26 |
| 2 | Sb 206.836† | 1227.9 | 1075.7 | 0.4756 | mg/L | 0.4756 | mg/L | 22:31:26 |
| 2 | Se 196.026† | 211.6 | 295.5 | 1.008 | mg/L | 1.008 | mg/L | 22:31:26 |
| 2 | Sn 189.927† | 1085.6 | 1041.5 | 0.4883 | mg/L | 0.4883 | mg/L | 22:31:26 |
| 2 | Ti 337.279† | 305938.3 | 292131.0 | 0.4841 | mg/L | 0.4841 | mg/L | 22:31:00 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Tl 190.801† | 235.4 | 241.5 | 0.4862 mg/L | 0.4862 mg/L | 22:31:26 |
| 2 | V 292.402† | 101044.9 | 94429.2 | 0.4800 mg/L | 0.4800 mg/L | 22:31:06 |
| 2 | Zn 213.857† | 23337.7 | 22529.4 | 0.4894 mg/L | 0.4894 mg/L | 22:31:06 |

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**Mean Data: CCV**

| Analyte | Mean Corrected Intensity | Calib Conc. | Units | Std.Dev. | Sample Conc. | Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2874152.3 | | | | | | 3554.22 | 0.12% |
| Ag 328.068† | 51687.4 | 0.2486 | mg/L | 0.00211 | 0.2486 | mg/L | 0.00211 | 0.85% |
| QC value within limits for Ag 328.068 Recovery = 99.46% | | | | | | | | |
| Al 237.313† | 16847.1 | 2.412 | mg/L | 0.0190 | 2.412 | mg/L | 0.0190 | 0.79% |
| QC value within limits for Al 237.313 Recovery = 96.47% | | | | | | | | |
| As 188.979† | 238.4 | 0.5007 | mg/L | 0.00207 | 0.5007 | mg/L | 0.00207 | 0.41% |
| QC value within limits for As 188.979 Recovery = 100.14% | | | | | | | | |
| B 182.528† | 246.7 | 0.4773 | mg/L | 0.01094 | 0.4773 | mg/L | 0.01094 | 2.29% |
| QC value within limits for B 182.528 Recovery = 95.45% | | | | | | | | |
| Ba 233.527† | 70798.0 | 0.4899 | mg/L | 0.00371 | 0.4899 | mg/L | 0.00371 | 0.76% |
| QC value within limits for Ba 233.527 Recovery = 97.98% | | | | | | | | |
| Be 313.107† | 257207.1 | 0.0489 | mg/L | 0.00003 | 0.0489 | mg/L | 0.00003 | 0.06% |
| QC value within limits for Be 313.107 Recovery = 97.79% | | | | | | | | |
| Ca 315.886† | 738428.2 | 4.903 | mg/L | 0.0075 | 4.903 | mg/L | 0.0075 | 0.15% |
| QC value within limits for Ca 315.886 Recovery = 98.06% | | | | | | | | |
| Cd 228.802† | 12871.1 | 0.2423 | mg/L | 0.00092 | 0.2423 | mg/L | 0.00092 | 0.38% |
| QC value within limits for Cd 228.802 Recovery = 96.93% | | | | | | | | |
| Co 228.616† | 31600.3 | 0.4894 | mg/L | 0.00397 | 0.4894 | mg/L | 0.00397 | 0.81% |
| QC value within limits for Co 228.616 Recovery = 97.89% | | | | | | | | |
| Cr 267.716† | 73490.3 | 0.4871 | mg/L | 0.00314 | 0.4871 | mg/L | 0.00314 | 0.64% |
| QC value within limits for Cr 267.716 Recovery = 97.42% | | | | | | | | |
| Cu 324.752† | 99045.2 | 0.4766 | mg/L | 0.00323 | 0.4766 | mg/L | 0.00323 | 0.68% |
| QC value within limits for Cu 324.752 Recovery = 95.33% | | | | | | | | |
| Fe 238.204† | 263389.7 | 2.430 | mg/L | 0.0174 | 2.430 | mg/L | 0.0174 | 0.72% |
| QC value within limits for Fe 238.204 Recovery = 97.21% | | | | | | | | |
| Mg 279.077† | 106297.2 | 4.881 | mg/L | 0.0292 | 4.881 | mg/L | 0.0292 | 0.60% |
| QC value within limits for Mg 279.077 Recovery = 97.61% | | | | | | | | |
| Mn 257.610† | 416428.4 | 0.4916 | mg/L | 0.00046 | 0.4916 | mg/L | 0.00046 | 0.09% |
| QC value within limits for Mn 257.610 Recovery = 98.31% | | | | | | | | |
| Mo 202.031† | 4356.5 | 0.4843 | mg/L | 0.00057 | 0.4843 | mg/L | 0.00057 | 0.12% |
| QC value within limits for Mo 202.031 Recovery = 96.86% | | | | | | | | |
| Na 330.237† | 25282.5 | 23.74 | mg/L | 0.125 | 23.74 | mg/L | 0.125 | 0.53% |
| QC value within limits for Na 330.237 Recovery = 94.97% | | | | | | | | |
| Ni 231.604† | 21494.2 | 0.4878 | mg/L | 0.00296 | 0.4878 | mg/L | 0.00296 | 0.61% |
| QC value within limits for Ni 231.604 Recovery = 97.55% | | | | | | | | |
| Pb 220.353† | 2658.2 | 0.4856 | mg/L | 0.00152 | 0.4856 | mg/L | 0.00152 | 0.31% |
| QC value within limits for Pb 220.353 Recovery = 97.11% | | | | | | | | |
| Sb 206.836† | 1080.0 | 0.4775 | mg/L | 0.00266 | 0.4775 | mg/L | 0.00266 | 0.56% |
| QC value within limits for Sb 206.836 Recovery = 95.49% | | | | | | | | |
| Se 196.026† | 296.1 | 1.010 | mg/L | 0.0029 | 1.010 | mg/L | 0.0029 | 0.28% |
| QC value within limits for Se 196.026 Recovery = 100.96% | | | | | | | | |
| Sn 189.927† | 1037.7 | 0.4866 | mg/L | 0.00247 | 0.4866 | mg/L | 0.00247 | 0.51% |
| QC value within limits for Sn 189.927 Recovery = 97.32% | | | | | | | | |
| Ti 337.279† | 292534.8 | 0.4847 | mg/L | 0.00094 | 0.4847 | mg/L | 0.00094 | 0.19% |
| QC value within limits for Ti 337.279 Recovery = 96.94% | | | | | | | | |
| Tl 190.801† | 242.9 | 0.4889 | mg/L | 0.00375 | 0.4889 | mg/L | 0.00375 | 0.77% |
| QC value within limits for Tl 190.801 Recovery = 97.78% | | | | | | | | |
| V 292.402† | 95006.3 | 0.4829 | mg/L | 0.00414 | 0.4829 | mg/L | 0.00414 | 0.86% |
| QC value within limits for V 292.402 Recovery = 96.58% | | | | | | | | |
| Zn 213.857† | 22658.8 | 0.4922 | mg/L | 0.00397 | 0.4922 | mg/L | 0.00397 | 0.81% |
| QC value within limits for Zn 213.857 Recovery = 98.43% | | | | | | | | |

All analytes passed QC.

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**Sequenc No.:** 62
**Sample ID:** ICCB
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location:** 1
**Date Collected:** 11/30/01 10:33:12 PM

**Sample Prep Volume:**
**Data Type:** Original

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**Replicate Data: ICCB**

| | Net | Corrected | Calib. | Sample | Analysis |
|---|---|---|---|---|---|

| Repl# | Analyte | Intensity | Intensity | Conc. | Units | Conc. | Units | Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2867297.8 | 2867297.8 | | | | | 22:34:45 |
| 1 | Ag 328.068† | 2676.4 | 60.6 | 0.0007 | mg/L | 0.0007 | mg/L | 22:34:50 |
| 1 | Al 237.313† | -95.2 | 16.4 | 0.0114 | mg/L | 0.0114 | mg/L | 22:35:11 |
| 1 | As 188.979† | -6.4 | 2.1 | 0.0038 | mg/L | 0.0038 | mg/L | 22:35:11 |
| 1 | B 182.528† | 4.4 | 8.2 | 0.0144 | mg/L | 0.0144 | mg/L | 22:35:11 |
| 1 | Ba 233.527† | -79.0 | 24.3 | -0.0004 | mg/L | -0.0004 | mg/L | 22:35:11 |
| 1 | Be 313.107† | 6579.4 | -107.8 | 0.0002 | mg/L | 0.0002 | mg/L | 22:34:50 |
| 1 | Ca 315.886† | 2429.1 | 276.1 | 0.0003 | mg/L | 0.0003 | mg/L | 22:34:50 |
| 1 | Cd 228.802† | 34.1 | 0.4 | 0.0002 | mg/L | 0.0002 | mg/L | 22:35:11 |
| 1 | Co 228.616† | -432.5 | -15.2 | -0.0010 | mg/L | -0.0010 | mg/L | 22:35:11 |
| 1 | Cr 267.716† | 1920.4 | 9.4 | 0.0003 | mg/L | 0.0003 | mg/L | 22:34:50 |
| 1 | Cu 324.752† | 697.4 | 95.1 | 0.0020 | mg/L | 0.0020 | mg/L | 22:34:50 |
| 1 | Fe 238.204† | 58.8 | 48.2 | 0.0026 | mg/L | 0.0026 | mg/L | 22:34:50 |
| 1 | Mg 279.077† | 95.0 | -20.3 | -0.0050 | mg/L | -0.0050 | mg/L | 22:34:50 |
| 1 | Mn 257.610† | 1612.4 | -259.8 | -0.0010 | mg/L | -0.0010 | mg/L | 22:34:50 |
| 1 | Mo 202.031† | -66.5 | -7.7 | -0.0004 | mg/L | -0.0004 | mg/L | 22:35:11 |
| 1 | Na 330.237† | 3915.2 | 41.5 | 0.5784 | mg/L | 0.5784 | mg/L | 22:34:50 |
| 1 | Ni 231.604† | -312.3 | 17.3 | 0.0004 | mg/L | 0.0004 | mg/L | 22:35:11 |
| 1 | Pb 220.353† | 75.8 | -11.3 | -0.0021 | mg/L | -0.0021 | mg/L | 22:35:11 |
| 1 | Sb 206.836† | 99.8 | -6.8 | -0.0012 | mg/L | -0.0012 | mg/L | 22:35:11 |
| 1 | Se 196.026† | -92.1 | 3.8 | 0.0094 | mg/L | 0.0094 | mg/L | 22:35:11 |
| 1 | Sn 189.927† | -3.7 | -4.2 | -0.0023 | mg/L | -0.0023 | mg/L | 22:35:11 |
| 1 | Ti 337.279† | 1572.6 | -14.5 | 0.0007 | mg/L | 0.0007 | mg/L | 22:34:50 |
| 1 | Tl 190.801† | -12.7 | 3.2 | 0.0090 | mg/L | 0.0090 | mg/L | 22:35:11 |
| 1 | V 292.402† | 2595.7 | -60.8 | 0.0012 | mg/L | 0.0012 | mg/L | 22:34:50 |
| 1 | Zn 213.857† | -152.5 | -18.5 | 0.0005 | mg/L | 0.0005 | mg/L | 22:35:11 |
| 2 | Y 360.073 | 2846251.5 | 2846251.5 | | | | | 22:35:16 |
| 2 | Ag 328.068† | 2668.8 | 72.3 | 0.0007 | mg/L | 0.0007 | mg/L | 22:35:22 |
| 2 | Al 237.313† | -90.4 | 20.4 | 0.0120 | mg/L | 0.0120 | mg/L | 22:35:42 |
| 2 | As 188.979† | -8.4 | 0.2 | -0.0003 | mg/L | -0.0003 | mg/L | 22:35:42 |
| 2 | B 182.528† | 2.4 | 6.2 | 0.0107 | mg/L | 0.0107 | mg/L | 22:35:42 |
| 2 | Ba 233.527† | -84.8 | 18.2 | -0.0004 | mg/L | -0.0004 | mg/L | 22:35:42 |
| 2 | Be 313.107† | 6544.3 | -94.9 | 0.0002 | mg/L | 0.0002 | mg/L | 22:35:22 |
| 2 | Ca 315.886† | 2490.4 | 352.8 | 0.0008 | mg/L | 0.0008 | mg/L | 22:35:22 |
| 2 | Cd 228.802† | 28.8 | -4.5 | 0.0001 | mg/L | 0.0001 | mg/L | 22:35:42 |
| 2 | Co 228.616† | -406.6 | 6.9 | -0.0007 | mg/L | -0.0007 | mg/L | 22:35:42 |
| 2 | Cr 267.716† | 1950.0 | 51.7 | 0.0006 | mg/L | 0.0006 | mg/L | 22:35:22 |
| 2 | Cu 324.752† | 666.3 | 69.8 | 0.0018 | mg/L | 0.0018 | mg/L | 22:35:22 |
| 2 | Fe 238.204† | 80.6 | 69.7 | 0.0028 | mg/L | 0.0028 | mg/L | 22:35:22 |
| 2 | Mg 279.077† | 216.7 | 98.4 | 0.0004 | mg/L | 0.0004 | mg/L | 22:35:22 |
| 2 | Mn 257.610† | 1594.7 | -265.5 | -0.0010 | mg/L | -0.0010 | mg/L | 22:35:22 |
| 2 | Mo 202.031† | -63.0 | -4.8 | -0.0001 | mg/L | -0.0001 | mg/L | 22:35:42 |
| 2 | Na 330.237† | 4058.2 | 208.2 | 0.7303 | mg/L | 0.7303 | mg/L | 22:35:22 |
| 2 | Ni 231.604† | -324.7 | 3.1 | 0.0000 | mg/L | 0.0000 | mg/L | 22:35:42 |
| 2 | Pb 220.353† | 81.7 | -5.0 | -0.0009 | mg/L | -0.0009 | mg/L | 22:35:42 |
| 2 | Sb 206.836† | 115.0 | 8.6 | 0.0056 | mg/L | 0.0056 | mg/L | 22:35:42 |
| 2 | Se 196.026† | -94.5 | 0.7 | -0.0009 | mg/L | -0.0009 | mg/L | 22:35:42 |
| 2 | Sn 189.927† | -7.5 | -7.8 | -0.0040 | mg/L | -0.0040 | mg/L | 22:35:42 |
| 2 | Ti 337.279† | 1677.0 | 98.0 | 0.0009 | mg/L | 0.0009 | mg/L | 22:35:22 |
| 2 | Tl 190.801† | -11.6 | 4.2 | 0.0109 | mg/L | 0.0109 | mg/L | 22:35:42 |
| 2 | V 292.402† | 2577.6 | -59.8 | 0.0013 | mg/L | 0.0013 | mg/L | 22:35:22 |
| 2 | Zn 213.857† | -139.7 | -7.2 | 0.0007 | mg/L | 0.0007 | mg/L | 22:35:42 |

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**M an Data: ICCB**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2856774.6 | | | | | | 14881.97 | 0.52% |
| Ag 328.068† | 66.4 | 0.0007 | mg/L | 0.00004 | 0.0007 | mg/L | 0.00004 | 5.56% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 18.4 | 0.0117 | mg/L | 0.00041 | 0.0117 | mg/L | 0.00041 | 3.48% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 1.2 | 0.0017 | mg/L | 0.00291 | 0.0017 | mg/L | 0.00291 | 167.68% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |
| B 182.528† | 7.2 | 0.0125 | mg/L | 0.00265 | 0.0125 | mg/L | 0.00265 | 21.13% |
| QC value within limits for B 182.528 Recovery = Not calculated | | | | | | | | |
| Ba 233.527† | 21.3 | -0.0004 | mg/L | 0.00003 | -0.0004 | mg/L | 0.00003 | 7.22% |
| QC value within limits for Ba 233.527 Recovery = Not calculated | | | | | | | | |
| Be 313.107† | -101.4 | 0.0002 | mg/L | 0.00000 | 0.0002 | mg/L | 0.00000 | 0.88% |
| QC value within limits for Be 313.107 Recovery = Not calculated | | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Ca 315.886† | 314.4 | 0.0006 mg/L | 0.00036 | 0.0006 mg/L | 0.00036 | 60.56% |
| QC value within limits for Ca 315.886 Recovery = Not calculated | | | | | | |
| Cd 228.802† | -2.1 | 0.0001 mg/L | 0.00004 | 0.0001 mg/L | 0.00004 | 32.22% |
| QC value within limits for Cd 228.802 Recovery = Not calculated | | | | | | |
| Co 228.616† | -4.1 | -0.0008 mg/L | 0.00024 | -0.0008 mg/L | 0.00024 | 29.15% |
| QC value within limits for Co 228.616 Recovery = Not calculated | | | | | | |
| Cr 267.716† | 30.6 | 0.0004 mg/L | 0.00020 | 0.0004 mg/L | 0.00020 | 46.15% |
| QC value within limits for Cr 267.716 Recovery = Not calculated | | | | | | |
| Cu 324.752† | 82.4 | 0.0019 mg/L | 0.00009 | 0.0019 mg/L | 0.00009 | 4.52% |
| QC value within limits for Cu 324.752 Recovery = Not calculated | | | | | | |
| Fe 238.204† | 58.9 | 0.0027 mg/L | 0.00014 | 0.0027 mg/L | 0.00014 | 4.98% |
| QC value within limits for Fe 238.204 Recovery = Not calculated | | | | | | |
| Mg 279.077† | 39.0 | -0.0023 mg/L | 0.00386 | -0.0023 mg/L | 0.00386 | 167.05% |
| QC value within limits for Mg 279.077 Recovery = Not calculated | | | | | | |
| Mn 257.610† | -262.7 | -0.0010 mg/L | 0.00000 | -0.0010 mg/L | 0.00000 | 0.47% |
| QC value within limits for Mn 257.610 Recovery = Not calculated | | | | | | |
| Mo 202.031† | -6.2 | -0.0002 mg/L | 0.00023 | -0.0002 mg/L | 0.00023 | 106.21% |
| QC value within limits for Mo 202.031 Recovery = Not calculated | | | | | | |
| Na 330.237† | 124.9 | 0.6544 mg/L | 0.10744 | 0.6544 mg/L | 0.10744 | 16.42% |
| QC value within limits for Na 330.237 Recovery = Not calculated | | | | | | |
| Ni 231.604† | 10.2 | 0.0002 mg/L | 0.00023 | 0.0002 mg/L | 0.00023 | 112.81% |
| QC value within limits for Ni 231.604 Recovery = Not calculated | | | | | | |
| Pb 220.353† | -8.1 | -0.0015 mg/L | 0.00081 | -0.0015 mg/L | 0.00081 | 54.59% |
| QC value within limits for Pb 220.353 Recovery = Not calculated | | | | | | |
| Sb 206.836† | 0.9 | 0.0022 mg/L | 0.00485 | 0.0022 mg/L | 0.00485 | 221.63% |
| QC value within limits for Sb 206.836 Recovery = Not calculated | | | | | | |
| Se 196.026† | 2.3 | 0.0043 mg/L | 0.00725 | 0.0043 mg/L | 0.00725 | 170.08% |
| QC value within limits for Se 196.026 Recovery = Not calculated | | | | | | |
| Sn 189.927† | -6.0 | -0.0032 mg/L | 0.00122 | -0.0032 mg/L | 0.00122 | 38.32% |
| QC value within limits for Sn 189.927 Recovery = Not calculated | | | | | | |
| Ti 337.279† | 41.7 | 0.0008 mg/L | 0.00013 | 0.0008 mg/L | 0.00013 | 15.92% |
| QC value within limits for Ti 337.279 Recovery = Not calculated | | | | | | |
| Tl 190.801† | 3.7 | 0.0100 mg/L | 0.00135 | 0.0100 mg/L | 0.00135 | 13.57% |
| QC value within limits for Tl 190.801 Recovery = Not calculated | | | | | | |
| V 292.402† | -60.3 | 0.0013 mg/L | 0.00000 | 0.0013 mg/L | 0.00000 | 0.21% |
| QC value within limits for V 292.402 Recovery = Not calculated | | | | | | |
| Zn 213.857† | -12.8 | 0.0006 mg/L | 0.00018 | 0.0006 mg/L | 0.00018 | 29.49% |
| QC value within limits for Zn 213.857 Recovery = Not calculated | | | | | | |

All analytes passed QC.

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**Sequenc No.: 63** **Autosampler Location: 49**
**Sample ID: 01110414-07** **Date Collected: 11/30/01 10:37:27 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

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**Replicate Data: 01110414-07**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2899150.1 | 2899150.1 | | | | | 22:39:00 |
| 1 | Ag 328.068† | 2617.4 | -23.9 | 0.0003 | mg/L | 0.0003 | mg/L | 22:39:05 |
| 1 | Al 237.313† | 9587.0 | 9239.0 | 1.318 | mg/L | 1.318 | mg/L | 22:39:05 |
| 1 | As 188.979† | -8.3 | 0.4 | 0.0002 | mg/L | 0.0002 | mg/L | 22:39:26 |
| 1 | B 182.528† | 1.9 | 5.7 | 0.0084 | mg/L | 0.0084 | mg/L | 22:39:26 |
| 1 | Ba 233.527† | 2280.5 | 2272.4 | 0.0152 | mg/L | 0.0152 | mg/L | 22:39:26 |
| 1 | Be 313.107† | 7177.7 | 392.4 | 0.0003 | mg/L | 0.0003 | mg/L | 22:39:05 |
| 1 | Ca 315.886† | 404378.7 | 383076.0 | 2.543 | mg/L | 2.543 | mg/L | 22:39:00 |
| 1 | Cd 228.802† | 29.3 | -4.5 | 0.0002 | mg/L | 0.0002 | mg/L | 22:39:26 |
| 1 | Co 228.616† | 1231.1 | 1573.9 | 0.0236 | mg/L | 0.0236 | mg/L | 22:39:26 |
| 1 | Cr 267.716† | 7893.6 | 5678.1 | 0.0379 | mg/L | 0.0379 | mg/L | 22:39:05 |
| 1 | Cu 324.752† | 2221.7 | 1539.4 | 0.0089 | mg/L | 0.0089 | mg/L | 22:39:05 |
| 1 | Fe 238.204† | 221836.5 | 211273.5 | 1.952 | mg/L | 1.952 | mg/L | 22:39:00 |
| 1 | Mg 279.077† | 31902.6 | 30272.9 | 1.385 | mg/L | 1.385 | mg/L | 22:39:05 |
| 1 | Mn 257.610† | 72635.5 | 67367.1 | 0.0789 | mg/L | 0.0789 | mg/L | 22:39:05 |
| 1 | Mo 202.031† | -9.4 | 47.4 | 0.0057 | mg/L | 0.0057 | mg/L | 22:39:26 |
| 1 | Na 330.237† | 6949.6 | 2890.2 | 3.221 | mg/L | 3.221 | mg/L | 22:39:05 |
| 1 | Ni 231.604† | 921.6 | 1195.8 | 0.0271 | mg/L | 0.0271 | mg/L | 22:39:26 |
| 1 | Pb 220.353† | 86.0 | -2.4 | -0.0004 | mg/L | -0.0004 | mg/L | 22:39:26 |
| 1 | Sb 206.836† | 98.3 | -9.4 | -0.0028 | mg/L | -0.0028 | mg/L | 22:39:26 |

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| | | | | | | |
|---|---|---|---|---|---|---|
| 1 | Se 196.026† | -92.8 | 4.0 | 0.0120 mg/L | 0.0120 mg/L | 22:39:26 |
| 1 | Sn 189.927† | -8.7 | -8.8 | -0.0050 mg/L | -0.0050 mg/L | 22:39:26 |
| 1 | Ti 337.279† | 48724.0 | 44876.9 | 0.0750 mg/L | 0.0750 mg/L | 22:39:05 |
| 1 | Tl 190.801† | -17.2 | -0.8 | 0.0028 mg/L | 0.0028 mg/L | 22:39:26 |
| 1 | V 292.402† | 3331.7 | 612.8 | 0.0044 mg/L | 0.0044 mg/L | 22:39:05 |
| 1 | Zn 213.857† | 7348.2 | 7126.9 | 0.1562 mg/L | 0.1562 mg/L | 22:39:05 |
| 2 | Y 360.073 | 2914404.5 | 2914404.5 | | | 22:39:32 |
| 2 | Ag 328.068† | 2635.1 | -20.2 | 0.0003 mg/L | 0.0003 mg/L | 22:39:37 |
| 2 | Al 237.313† | 9570.2 | 9175.3 | 1.309 mg/L | 1.309 mg/L | 22:39:37 |
| 2 | As 188.979† | -8.5 | 0.3 | -0.0001 mg/L | -0.0001 mg/L | 22:39:57 |
| 2 | B 182.528† | 4.8 | 8.5 | 0.0138 mg/L | 0.0138 mg/L | 22:39:57 |
| 2 | Ba 233.527† | 2255.1 | 2237.1 | 0.0149 mg/L | 0.0149 mg/L | 22:39:57 |
| 2 | Be 313.107† | 7204.0 | 381.6 | 0.0003 mg/L | 0.0003 mg/L | 22:39:37 |
| 2 | Ca 315.886† | 404721.8 | 381385.2 | 2.531 mg/L | 2.531 mg/L | 22:39:32 |
| 2 | Cd 228.802† | 33.4 | -0.8 | 0.0003 mg/L | 0.0003 mg/L | 22:39:57 |
| 2 | Co 228.616† | 1199.0 | 1537.3 | 0.0231 mg/L | 0.0231 mg/L | 22:39:57 |
| 2 | Cr 267.716† | 7972.2 | 5713.2 | 0.0381 mg/L | 0.0381 mg/L | 22:39:37 |
| 2 | Cu 324.752† | 2232.1 | 1538.2 | 0.0089 mg/L | 0.0089 mg/L | 22:39:37 |
| 2 | Fe 238.204† | 222338.0 | 210642.8 | 1.946 mg/L | 1.946 mg/L | 22:39:32 |
| 2 | Mg 279.077† | 32100.2 | 30301.1 | 1.387 mg/L | 1.387 mg/L | 22:39:37 |
| 2 | Mn 257.610† | 72919.3 | 67273.9 | 0.0788 mg/L | 0.0788 mg/L | 22:39:37 |
| 2 | Mo 202.031† | -11.5 | 45.4 | 0.0055 mg/L | 0.0055 mg/L | 22:39:57 |
| 2 | Na 330.237† | 7051.2 | 2951.8 | 3.277 mg/L | 3.277 mg/L | 22:39:37 |
| 2 | Ni 231.604† | 924.8 | 1194.3 | 0.0271 mg/L | 0.0271 mg/L | 22:39:57 |
| 2 | Pb 220.353† | 95.2 | 5.9 | 0.0011 mg/L | 0.0011 mg/L | 22:39:57 |
| 2 | Sb 206.836† | 92.5 | -15.3 | -0.0054 mg/L | -0.0054 mg/L | 22:39:57 |
| 2 | Se 196.026† | -93.4 | 3.9 | 0.0117 mg/L | 0.0117 mg/L | 22:39:57 |
| 2 | Sn 189.927† | -6.6 | -6.8 | -0.0041 mg/L | -0.0041 mg/L | 22:39:57 |
| 2 | Ti 337.279† | 47562.0 | 43533.1 | 0.0728 mg/L | 0.0728 mg/L | 22:39:37 |
| 2 | Tl 190.801† | -15.2 | 1.1 | 0.0065 mg/L | 0.0065 mg/L | 22:39:57 |
| 2 | V 292.402† | 3322.3 | 587.3 | 0.0043 mg/L | 0.0043 mg/L | 22:39:37 |
| 2 | Zn 213.857† | 7456.7 | 7193.1 | 0.1577 mg/L | 0.1577 mg/L | 22:39:37 |

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Mean Data: 01110414-07

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2906777.3 | | | | | | 10786.43 | 0.37% |
| Ag 328.068† | -22.1 | 0.0003 | mg/L | 0.00001 | 0.0003 | mg/L | 0.00001 | 4.28% |
| Al 237.313† | 9207.1 | 1.313 | mg/L | 0.0064 | 1.313 | mg/L | 0.0064 | 0.49% |
| As 188.979† | 0.4 | 0.0000 | mg/L | 0.00016 | 0.0000 | mg/L | 0.00016 | 422.82% |
| B 182.528† | 7.1 | 0.0111 | mg/L | 0.00383 | 0.0111 | mg/L | 0.00383 | 34.45% |
| Ba 233.527† | 2254.7 | 0.0151 | mg/L | 0.00017 | 0.0151 | mg/L | 0.00017 | 1.15% |
| Be 313.107† | 387.0 | 0.0003 | mg/L | 0.00000 | 0.0003 | mg/L | 0.00000 | 0.49% |
| Ca 315.886† | 382230.6 | 2.537 | mg/L | 0.0079 | 2.537 | mg/L | 0.0079 | 0.31% |
| Cd 228.802† | -2.7 | 0.0002 | mg/L | 0.00005 | 0.0002 | mg/L | 0.00005 | 20.24% |
| Co 228.616† | 1555.6 | 0.0234 | mg/L | 0.00040 | 0.0234 | mg/L | 0.00040 | 1.72% |
| Cr 267.716† | 5695.6 | 0.0380 | mg/L | 0.00016 | 0.0380 | mg/L | 0.00016 | 0.43% |
| Cu 324.752† | 1538.8 | 0.0089 | mg/L | 0.00000 | 0.0089 | mg/L | 0.00000 | 0.05% |
| Fe 238.204† | 210958.1 | 1.949 | mg/L | 0.0041 | 1.949 | mg/L | 0.0041 | 0.21% |
| Mg 279.077† | 30287.0 | 1.386 | mg/L | 0.0009 | 1.386 | mg/L | 0.0009 | 0.07% |
| Mn 257.610† | 67320.5 | 0.0789 | mg/L | 0.00008 | 0.0789 | mg/L | 0.00008 | 0.10% |
| Mo 202.031† | 46.4 | 0.0056 | mg/L | 0.00016 | 0.0056 | mg/L | 0.00016 | 2.76% |
| Na 330.237† | 2921.0 | 3.249 | mg/L | 0.0400 | 3.249 | mg/L | 0.0400 | 1.23% |
| Ni 231.604† | 1195.0 | 0.0271 | mg/L | 0.00002 | 0.0271 | mg/L | 0.00002 | 0.09% |
| Pb 220.353† | 1.8 | 0.0003 | mg/L | 0.00107 | 0.0003 | mg/L | 0.00107 | 314.65% |
| Sb 206.836† | -12.3 | -0.0041 | mg/L | 0.00188 | -0.0041 | mg/L | 0.00188 | 45.63% |
| Se 196.026† | 3.9 | 0.0119 | mg/L | 0.00022 | 0.0119 | mg/L | 0.00022 | 1.82% |
| Sn 189.927† | -7.8 | -0.0045 | mg/L | 0.00067 | -0.0045 | mg/L | 0.00067 | 14.74% |
| Ti 337.279† | 44205.0 | 0.0739 | mg/L | 0.00157 | 0.0739 | mg/L | 0.00157 | 2.13% |
| Tl 190.801† | 0.1 | 0.0047 | mg/L | 0.00264 | 0.0047 | mg/L | 0.00264 | 56.54% |
| V 292.402† | 600.0 | 0.0044 | mg/L | 0.00009 | 0.0044 | mg/L | 0.00009 | 2.12% |
| Zn 213.857† | 7160.0 | 0.1570 | mg/L | 0.00102 | 0.1570 | mg/L | 0.00102 | 0.65% |

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Sequence No.: 64
Sample ID: 01110414-08
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 11/30/01 10:41:38 PM
Sample Prep Volume:
Data Type: Original

Replicate Data: 01110414-08

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sampl Conc. | Sampl Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2876973.8 | 2876973.8 | | | | | 22:43:11 |
| 1 | Ag 328.068† | 2645.7 | 22.4 | 0.0005 | mg/L | 0.0005 | mg/L | 22:43:17 |
| 1 | Al 237.313† | 9506.6 | 9232.2 | 1.325 | mg/L | 1.325 | mg/L | 22:43:17 |
| 1 | As 188.979† | -6.4 | 2.2 | 0.0040 | mg/L | 0.0040 | mg/L | 22:43:37 |
| 1 | B 182.528† | 5.6 | 9.3 | 0.0158 | mg/L | 0.0158 | mg/L | 22:43:37 |
| 1 | Ba 233.527† | 3653.5 | 3606.9 | 0.0244 | mg/L | 0.0244 | mg/L | 22:43:37 |
| 1 | Be 313.107† | 7711.6 | 957.5 | 0.0004 | mg/L | 0.0004 | mg/L | 22:43:17 |
| 1 | Ca 315.886† | 1055829.7 | 1011283.7 | 6.716 | mg/L | 6.716 | mg/L | 22:43:11 |
| 1 | Cd 228.802† | 38.3 | 4.4 | 0.0003 | mg/L | 0.0003 | mg/L | 22:43:37 |
| 1 | Co 228.616† | -200.4 | 209.0 | 0.0025 | mg/L | 0.0025 | mg/L | 22:43:37 |
| 1 | Cr 267.716† | 4097.8 | 2093.0 | 0.0141 | mg/L | 0.0141 | mg/L | 22:43:17 |
| 1 | Cu 324.752† | 1535.7 | 897.3 | 0.0058 | mg/L | 0.0058 | mg/L | 22:43:17 |
| 1 | Fe 238.204† | 119692.1 | 114867.6 | 1.062 | mg/L | 1.062 | mg/L | 22:43:17 |
| 1 | Mg 279.077† | 22861.6 | 21829.9 | 0.9979 | mg/L | 0.9979 | mg/L | 22:43:17 |
| 1 | Mn 257.610† | 76696.4 | 71797.8 | 0.0842 | mg/L | 0.0842 | mg/L | 22:43:17 |
| 1 | Mo 202.031† | -40.2 | 17.8 | 0.0025 | mg/L | 0.0025 | mg/L | 22:43:37 |
| 1 | Na 330.237† | 6413.5 | 2426.7 | 2.787 | mg/L | 2.787 | mg/L | 22:43:17 |
| 1 | Ni 231.604† | 226.9 | 535.8 | 0.0121 | mg/L | 0.0121 | mg/L | 22:43:37 |
| 1 | Pb 220.353† | 90.5 | 2.6 | 0.0005 | mg/L | 0.0005 | mg/L | 22:43:37 |
| 1 | Sb 206.836† | 102.1 | -5.0 | -0.0006 | mg/L | -0.0006 | mg/L | 22:43:37 |
| 1 | Se 196.026† | -86.1 | 9.7 | 0.0311 | mg/L | 0.0311 | mg/L | 22:43:37 |
| 1 | Sn 189.927† | 9.2 | 8.3 | 0.0007 | mg/L | 0.0007 | mg/L | 22:43:37 |
| 1 | Ti 337.279† | 28882.5 | 26191.5 | 0.0441 | mg/L | 0.0441 | mg/L | 22:43:17 |
| 1 | Tl 190.801† | -14.4 | 1.7 | 0.0070 | mg/L | 0.0070 | mg/L | 22:43:37 |
| 1 | V 292.402† | 2862.0 | 186.5 | 0.0024 | mg/L | 0.0024 | mg/L | 22:43:17 |
| 1 | Zn 213.857† | 5428.7 | 5338.6 | 0.1173 | mg/L | 0.1173 | mg/L | 22:43:17 |
| 2 | Y 360.073 | 2902454.8 | 2902454.8 | | | | | 22:43:43 |
| 2 | Ag 328.068† | 2586.3 | -56.3 | 0.0001 | mg/L | 0.0001 | mg/L | 22:43:48 |
| 2 | Al 237.313† | 9457.9 | 9105.8 | 1.307 | mg/L | 1.307 | mg/L | 22:43:48 |
| 2 | As 188.979† | -1.0 | 7.3 | 0.0148 | mg/L | 0.0148 | mg/L | 22:44:08 |
| 2 | B 182.528† | 2.2 | 6.0 | 0.0092 | mg/L | 0.0092 | mg/L | 22:44:08 |
| 2 | Ba 233.527† | 3605.6 | 3530.6 | 0.0239 | mg/L | 0.0239 | mg/L | 22:44:08 |
| 2 | Be 313.107† | 7625.7 | 810.8 | 0.0004 | mg/L | 0.0004 | mg/L | 22:43:48 |
| 2 | Ca 315.886† | 1061821.6 | 1008087.7 | 6.695 | mg/L | 6.695 | mg/L | 22:43:43 |
| 2 | Cd 228.802† | 35.4 | 1.3 | 0.0001 | mg/L | 0.0001 | mg/L | 22:44:08 |
| 2 | Co 228.616† | -191.0 | 219.6 | 0.0026 | mg/L | 0.0026 | mg/L | 22:44:08 |
| 2 | Cr 267.716† | 4065.5 | 2027.7 | 0.0137 | mg/L | 0.0137 | mg/L | 22:43:48 |
| 2 | Cu 324.752† | 1507.3 | 857.4 | 0.0056 | mg/L | 0.0056 | mg/L | 22:43:48 |
| 2 | Fe 238.204† | 120355.1 | 114489.8 | 1.059 | mg/L | 1.059 | mg/L | 22:43:48 |
| 2 | Mg 279.077† | 23009.1 | 21777.6 | 0.9955 | mg/L | 0.9955 | mg/L | 22:43:48 |
| 2 | Mn 257.610† | 77046.1 | 71484.3 | 0.0838 | mg/L | 0.0838 | mg/L | 22:43:48 |
| 2 | Mo 202.031† | -36.4 | 21.7 | 0.0029 | mg/L | 0.0029 | mg/L | 22:44:08 |
| 2 | Na 330.237† | 6313.9 | 2277.9 | 2.651 | mg/L | 2.651 | mg/L | 22:43:48 |
| 2 | Ni 231.604† | 226.4 | 533.4 | 0.0121 | mg/L | 0.0121 | mg/L | 22:44:08 |
| 2 | Pb 220.353† | 82.0 | -6.3 | -0.0011 | mg/L | -0.0011 | mg/L | 22:44:08 |
| 2 | Sb 206.836† | 106.3 | -1.8 | 0.0008 | mg/L | 0.0008 | mg/L | 22:44:08 |
| 2 | Se 196.026† | -91.4 | 5.5 | 0.0165 | mg/L | 0.0165 | mg/L | 22:44:08 |
| 2 | Sn 189.927† | 5.0 | 4.2 | -0.0012 | mg/L | -0.0012 | mg/L | 22:44:08 |
| 2 | Ti 337.279† | 28490.6 | 25575.3 | 0.0431 | mg/L | 0.0431 | mg/L | 22:43:48 |
| 2 | Tl 190.801† | -18.2 | -1.8 | 0.0001 | mg/L | 0.0001 | mg/L | 22:44:08 |
| 2 | V 292.402† | 2848.4 | 149.4 | 0.0022 | mg/L | 0.0022 | mg/L | 22:43:48 |
| 2 | Zn 213.857† | 5453.0 | 5316.0 | 0.1168 | mg/L | 0.1168 | mg/L | 22:43:48 |

Mean Data: 01110414-08

| Analyt | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2889714.3 | | | | | | 18017.81 | 0.62% |
| Ag 328.068† | -17.0 | 0.0003 | mg/L | 0.00027 | 0.0003 | mg/L | 0.00027 | 85.18% |
| Al 237.313† | 9169.0 | 1.316 | mg/L | 0.0128 | 1.316 | mg/L | 0.0128 | 0.97% |
| As 188.979† | 4.8 | 0.0094 | mg/L | 0.00764 | 0.0094 | mg/L | 0.00764 | 81.69% |
| B 182.528† | 7.7 | 0.0125 | mg/L | 0.00463 | 0.0125 | mg/L | 0.00463 | 36.99% |
| Ba 233.527† | 3568.7 | 0.0242 | mg/L | 0.00037 | 0.0242 | mg/L | 0.00037 | 1.55% |
| Be 313.107† | 884.2 | 0.0004 | mg/L | 0.00002 | 0.0004 | mg/L | 0.00002 | 5.09% |
| Ca 315.886† | 1009685.7 | 6.705 | mg/L | 0.0150 | 6.705 | mg/L | 0.0150 | 0.22% |
| Cd 228.802† | 2.8 | 0.0002 | mg/L | 0.00009 | 0.0002 | mg/L | 0.00009 | 45.51% |
| Co 228.616† | 214.3 | 0.0025 | mg/L | 0.00012 | 0.0025 | mg/L | 0.00012 | 4.58% |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cr 267.716† | 2060.3 | 0.0139 mg/L | 0.00031 | 0.0139 mg/L | 0.00031 | 2.20% |
| Cu 324.752† | 877.4 | 0.0057 mg/L | 0.00014 | 0.0057 mg/L | 0.00014 | 2.37% |
| Fe 238.204† | 114678.7 | 1.060 mg/L | 0.0025 | 1.060 mg/L | 0.0025 | 0.23% |
| Mg 279.077† | 21803.7 | 0.9967 mg/L | 0.00169 | 0.9967 mg/L | 0.00169 | 0.17% |
| Mn 257.610† | 71641.1 | 0.0840 mg/L | 0.00026 | 0.0840 mg/L | 0.00026 | 0.31% |
| Mo 202.031† | 19.8 | 0.0027 mg/L | 0.00031 | 0.0027 mg/L | 0.00031 | 11.53% |
| Na 330.237† | 2352.3 | 2.719 mg/L | 0.0960 | 2.719 mg/L | 0.0960 | 3.53% |
| Ni 231.604† | 534.6 | 0.0121 mg/L | 0.00004 | 0.0121 mg/L | 0.00004 | 0.32% |
| Pb 220.353† | -1.9 | -0.0003 mg/L | 0.00114 | -0.0003 mg/L | 0.00114 | 337.97% |
| Sb 206.836† | -3.4 | 0.0001 mg/L | 0.00099 | 0.0001 mg/L | 0.00099 | 825.50% |
| Se 196.026† | 7.6 | 0.0238 mg/L | 0.01031 | 0.0238 mg/L | 0.01031 | 43.32% |
| Sn 189.927† | 6.2 | -0.0002 mg/L | 0.00134 | -0.0002 mg/L | 0.00134 | 637.58% |
| Ti 337.279† | 25883.4 | 0.0436 mg/L | 0.00072 | 0.0436 mg/L | 0.00072 | 1.65% |
| Tl 190.801† | -0.1 | 0.0035 mg/L | 0.00489 | 0.0035 mg/L | 0.00489 | 139.11% |
| V 292.402† | 167.9 | 0.0023 mg/L | 0.00013 | 0.0023 mg/L | 0.00013 | 5.77% |
| Zn 213.857† | 5327.3 | 0.1171 mg/L | 0.00035 | 0.1171 mg/L | 0.00035 | 0.30% |

**Sequence No.: 65**
**Sample ID: CCV**
**Analyst:**
**Sample Wt:**
**Dilution:**

**Autosampler Location: 3**
**Date Collected: 11/30/01 10:45:50 PM**

**Sample Prep Volume:**
**Data Type: Original**

**Replicate Data: CCV**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2873559.0 | 2873559.0 | | | | | 22:47:26 |
| 1 | Ag 328.068† | 55684.3 | 50990.4 | 0.2453 | mg/L | 0.2453 | mg/L | 22:47:32 |
| 1 | Al 237.313† | 17154.6 | 16592.0 | 2.375 | mg/L | 2.375 | mg/L | 22:47:32 |
| 1 | As 188.979† | 241.5 | 240.4 | 0.5050 | mg/L | 0.5050 | mg/L | 22:47:52 |
| 1 | B 182.528† | 252.3 | 246.4 | 0.4768 | mg/L | 0.4768 | mg/L | 22:47:52 |
| 1 | Ba 233.527† | 72552.4 | 69816.4 | 0.4831 | mg/L | 0.4831 | mg/L | 22:47:32 |
| 1 | Be 313.107† | 273098.5 | 255977.7 | 0.0487 | mg/L | 0.0487 | mg/L | 22:47:26 |
| 1 | Ca 315.886† | 766551.2 | 734519.0 | 4.877 | mg/L | 4.877 | mg/L | 22:47:26 |
| 1 | Cd 228.802† | 13246.7 | 12696.4 | 0.2390 | mg/L | 0.2390 | mg/L | 22:47:32 |
| 1 | Co 228.616† | 32007.9 | 31157.8 | 0.4826 | mg/L | 0.4826 | mg/L | 22:47:32 |
| 1 | Cr 267.716† | 77375.8 | 72510.8 | 0.4806 | mg/L | 0.4806 | mg/L | 22:47:32 |
| 1 | Cu 324.752† | 102083.5 | 97515.9 | 0.4693 | mg/L | 0.4693 | mg/L | 22:47:32 |
| 1 | Fe 238.204† | 270334.8 | 259757.3 | 2.397 | mg/L | 2.397 | mg/L | 22:47:32 |
| 1 | Mg 279.077† | 109320.1 | 104934.3 | 4.818 | mg/L | 4.818 | mg/L | 22:47:32 |
| 1 | Mn 257.610† | 433324.3 | 414570.5 | 0.4894 | mg/L | 0.4894 | mg/L | 22:47:26 |
| 1 | Mo 202.031† | 4472.0 | 4353.6 | 0.4840 | mg/L | 0.4840 | mg/L | 22:47:52 |
| 1 | Na 330.237† | 29815.4 | 24920.9 | 23.41 | mg/L | 23.41 | mg/L | 22:47:32 |
| 1 | Ni 231.604† | 21820.8 | 21285.8 | 0.4830 | mg/L | 0.4830 | mg/L | 22:47:32 |
| 1 | Pb 220.353† | 2852.1 | 2656.3 | 0.4852 | mg/L | 0.4852 | mg/L | 22:47:52 |
| 1 | Sb 206.836† | 1238.0 | 1086.7 | 0.4805 | mg/L | 0.4805 | mg/L | 22:47:52 |
| 1 | Se 196.026† | 212.2 | 296.3 | 1.010 | mg/L | 1.010 | mg/L | 22:47:52 |
| 1 | Sn 189.927† | 1091.3 | 1048.1 | 0.4914 | mg/L | 0.4914 | mg/L | 22:47:52 |
| 1 | Ti 337.279† | 304104.8 | 290686.6 | 0.4817 | mg/L | 0.4817 | mg/L | 22:47:26 |
| 1 | Tl 190.801† | 211.8 | 219.1 | 0.4421 | mg/L | 0.4421 | mg/L | 22:47:52 |
| 1 | V 292.402† | 100022.1 | 93551.3 | 0.4755 | mg/L | 0.4755 | mg/L | 22:47:32 |
| 1 | Zn 213.857† | 23157.5 | 22380.5 | 0.4861 | mg/L | 0.4861 | mg/L | 22:47:32 |
| 2 | Y 360.073 | 2858582.6 | 2858582.6 | | | | | 22:47:59 |
| 2 | Ag 328.068† | 56029.7 | 51604.4 | 0.2482 | mg/L | 0.2482 | mg/L | 22:48:04 |
| 2 | Al 237.313† | 17263.8 | 16783.9 | 2.403 | mg/L | 2.403 | mg/L | 22:48:04 |
| 2 | As 188.979† | 231.6 | 232.0 | 0.4872 | mg/L | 0.4872 | mg/L | 22:48:24 |
| 2 | B 182.528† | 246.8 | 242.3 | 0.4688 | mg/L | 0.4688 | mg/L | 22:48:24 |
| 2 | Ba 233.527† | 73035.4 | 70648.1 | 0.4889 | mg/L | 0.4889 | mg/L | 22:48:04 |
| 2 | Be 313.107† | 271939.9 | 256233.5 | 0.0487 | mg/L | 0.0487 | mg/L | 22:47:59 |
| 2 | Ca 315.886† | 763082.2 | 735027.2 | 4.880 | mg/L | 4.880 | mg/L | 22:47:59 |
| 2 | Cd 228.802† | 13347.8 | 12860.7 | 0.2422 | mg/L | 0.2422 | mg/L | 22:48:04 |
| 2 | Co 228.616† | 32219.0 | 31522.9 | 0.4882 | mg/L | 0.4882 | mg/L | 22:48:04 |
| 2 | Cr 267.716† | 77890.3 | 73397.2 | 0.4865 | mg/L | 0.4865 | mg/L | 22:48:04 |
| 2 | Cu 324.752† | 102867.9 | 98787.4 | 0.4754 | mg/L | 0.4754 | mg/L | 22:48:04 |
| 2 | Fe 238.204† | 271990.7 | 262717.8 | 2.424 | mg/L | 2.424 | mg/L | 22:48:04 |
| 2 | Mg 279.077† | 109875.2 | 106020.9 | 4.868 | mg/L | 4.868 | mg/L | 22:48:04 |
| 2 | Mn 257.610† | 431198.3 | 414698.4 | 0.4895 | mg/L | 0.4895 | mg/L | 22:47:59 |
| 2 | Mo 202.031† | 4456.1 | 4360.7 | 0.4848 | mg/L | 0.4848 | mg/L | 22:48:24 |
| 2 | Na 330.237† | 30036.2 | 25284.3 | 23.74 | mg/L | 23.74 | mg/L | 22:48:04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 2 | Ni 231.604† | 21910.2 | 21481.9 | 0.4875 mg/L | 0.4875 mg/L | 22:48:04 |
| 2 | Pb 220.353† | 2826.4 | 2645.8 | 0.4833 mg/L | 0.4833 mg/L | 22:48:24 |
| 2 | Sb 206.836† | 1220.4 | 1075.9 | 0.4757 mg/L | 0.4757 mg/L | 22:48:24 |
| 2 | Se 196.026† | 210.7 | 296.0 | 1.009 mg/L | 1.009 mg/L | 22:48:24 |
| 2 | Sn 189.927† | 1084.3 | 1046.8 | 0.4908 mg/L | 0.4908 mg/L | 22:48:24 |
| 2 | Ti 337.279† | 301863.4 | 290052.6 | 0.4806 mg/L | 0.4806 mg/L | 22:47:59 |
| 2 | Tl 190.801† | 224.5 | 232.3 | 0.4681 mg/L | 0.4681 mg/L | 22:48:24 |
| 2 | V 292.402† | 100748.3 | 94756.2 | 0.4816 mg/L | 0.4816 mg/L | 22:48:04 |
| 2 | Zn 213.857† | 23295.0 | 22629.9 | 0.4915 mg/L | 0.4915 mg/L | 22:48:04 |

**Mean Data: CCV**

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2866070.8 | | | | | | 10589.87 | 0.37% |
| Ag 328.068† | 51297.4 | 0.2468 | mg/L | 0.00208 | 0.2468 | mg/L | 0.00208 | 0.84% |
| QC value within limits for Ag 328.068 Recovery = 98.71% | | | | | | | | |
| Al 237.313† | 16688.0 | 2.389 | mg/L | 0.0194 | 2.389 | mg/L | 0.0194 | 0.81% |
| QC value within limits for Al 237.313 Recovery = 95.56% | | | | | | | | |
| As 188.979† | 236.2 | 0.4961 | mg/L | 0.01256 | 0.4961 | mg/L | 0.01256 | 2.53% |
| QC value within limits for As 188.979 Recovery = 99.22% | | | | | | | | |
| B 182.528† | 244.4 | 0.4728 | mg/L | 0.00567 | 0.4728 | mg/L | 0.00567 | 1.20% |
| QC value within limits for B 182.528 Recovery = 94.55% | | | | | | | | |
| Ba 233.527† | 70232.2 | 0.4860 | mg/L | 0.00407 | 0.4860 | mg/L | 0.00407 | 0.84% |
| QC value within limits for Ba 233.527 Recovery = 97.20% | | | | | | | | |
| Be 313.107† | 256105.6 | 0.0487 | mg/L | 0.00003 | 0.0487 | mg/L | 0.00003 | 0.07% |
| QC value within limits for Be 313.107 Recovery = 97.38% | | | | | | | | |
| Ca 315.886† | 734773.1 | 4.879 | mg/L | 0.0024 | 4.879 | mg/L | 0.0024 | 0.05% |
| QC value within limits for Ca 315.886 Recovery = 97.57% | | | | | | | | |
| Cd 228.802† | 12778.6 | 0.2406 | mg/L | 0.00229 | 0.2406 | mg/L | 0.00229 | 0.95% |
| QC value within limits for Cd 228.802 Recovery = 96.24% | | | | | | | | |
| Co 228.616† | 31340.4 | 0.4854 | mg/L | 0.00400 | 0.4854 | mg/L | 0.00400 | 0.82% |
| QC value within limits for Co 228.616 Recovery = 97.08% | | | | | | | | |
| Cr 267.716† | 72954.0 | 0.4835 | mg/L | 0.00415 | 0.4835 | mg/L | 0.00415 | 0.86% |
| QC value within limits for Cr 267.716 Recovery = 96.71% | | | | | | | | |
| Cu 324.752† | 98151.7 | 0.4724 | mg/L | 0.00432 | 0.4724 | mg/L | 0.00432 | 0.91% |
| QC value within limits for Cu 324.752 Recovery = 94.47% | | | | | | | | |
| Fe 238.204† | 261237.5 | 2.411 | mg/L | 0.0193 | 2.411 | mg/L | 0.0193 | 0.80% |
| QC value within limits for Fe 238.204 Recovery = 96.42% | | | | | | | | |
| Mg 279.077† | 105477.6 | 4.843 | mg/L | 0.0353 | 4.843 | mg/L | 0.0353 | 0.73% |
| QC value within limits for Mg 279.077 Recovery = 96.86% | | | | | | | | |
| Mn 257.610† | 414634.5 | 0.4894 | mg/L | 0.00011 | 0.4894 | mg/L | 0.00011 | 0.02% |
| QC value within limits for Mn 257.610 Recovery = 97.89% | | | | | | | | |
| Mo 202.031† | 4357.1 | 0.4844 | mg/L | 0.00056 | 0.4844 | mg/L | 0.00056 | 0.12% |
| QC value within limits for Mo 202.031 Recovery = 96.87% | | | | | | | | |
| Na 330.237† | 25102.6 | 23.58 | mg/L | 0.235 | 23.58 | mg/L | 0.235 | 1.00% |
| QC value within limits for Na 330.237 Recovery = 94.31% | | | | | | | | |
| Ni 231.604† | 21383.8 | 0.4853 | mg/L | 0.00315 | 0.4853 | mg/L | 0.00315 | 0.65% |
| QC value within limits for Ni 231.604 Recovery = 97.05% | | | | | | | | |
| Pb 220.353† | 2651.1 | 0.4843 | mg/L | 0.00135 | 0.4843 | mg/L | 0.00135 | 0.28% |
| QC value within limits for Pb 220.353 Recovery = 96.85% | | | | | | | | |
| Sb 206.836† | 1081.3 | 0.4781 | mg/L | 0.00341 | 0.4781 | mg/L | 0.00341 | 0.71% |
| QC value within limits for Sb 206.836 Recovery = 95.62% | | | | | | | | |
| Se 196.026† | 296.1 | 1.010 | mg/L | 0.0008 | 1.010 | mg/L | 0.0008 | 0.08% |
| QC value within limits for Se 196.026 Recovery = 100.98% | | | | | | | | |
| Sn 189.927† | 1047.4 | 0.4911 | mg/L | 0.00041 | 0.4911 | mg/L | 0.00041 | 0.08% |
| QC value within limits for Sn 189.927 Recovery = 98.23% | | | | | | | | |
| Ti 337.279† | 290369.6 | 0.4811 | mg/L | 0.00074 | 0.4811 | mg/L | 0.00074 | 0.15% |
| QC value within limits for Ti 337.279 Recovery = 96.23% | | | | | | | | |
| Tl 190.801† | 225.7 | 0.4551 | mg/L | 0.01838 | 0.4551 | mg/L | 0.01838 | 4.04% |
| QC value within limits for Tl 190.801 Recovery = 91.03% | | | | | | | | |
| V 292.402† | 94153.7 | 0.4786 | mg/L | 0.00432 | 0.4786 | mg/L | 0.00432 | 0.90% |
| QC value within limits for V 292.402 Recovery = 95.71% | | | | | | | | |
| Zn 213.857† | 22505.2 | 0.4888 | mg/L | 0.00383 | 0.4888 | mg/L | 0.00383 | 0.78% |
| QC value within limits for Zn 213.857 Recovery = 97.77% | | | | | | | | |

All analytes passed QC.

Sequence No.: 66 Autosampler Location: 1
Sample ID: ICCB Date Collected: 11/30/01 10:50:10 PM
Analyst:

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Replicate Data: ICCB

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2839614.0 | 2839614.0 | | | | | 22:51:43 |
| 1 | Ag 328.068† | 2667.4 | 76.9 | 0.0008 | mg/L | 0.0008 | mg/L | 22:51:49 |
| 1 | Al 237.313† | -99.8 | 11.0 | 0.0106 | mg/L | 0.0106 | mg/L | 22:52:09 |
| 1 | As 188.979† | -5.1 | 3.4 | 0.0064 | mg/L | 0.0064 | mg/L | 22:52:09 |
| 1 | B 182.528† | 3.6 | 7.4 | 0.0130 | mg/L | 0.0130 | mg/L | 22:52:09 |
| 1 | Ba 233.527† | -85.5 | 17.3 | -0.0004 | mg/L | -0.0004 | mg/L | 22:52:09 |
| 1 | Be 313.107† | 6587.8 | -37.8 | 0.0002 | mg/L | 0.0002 | mg/L | 22:51:49 |
| 1 | Ca 315.886† | 2456.3 | 325.3 | 0.0007 | mg/L | 0.0007 | mg/L | 22:51:49 |
| 1 | Cd 228.802† | 33.8 | 0.4 | 0.0002 | mg/L | 0.0002 | mg/L | 22:52:09 |
| 1 | Co 228.616† | -404.3 | 8.2 | -0.0006 | mg/L | -0.0006 | mg/L | 22:52:09 |
| 1 | Cr 267.716† | 1890.0 | -2.1 | 0.0002 | mg/L | 0.0002 | mg/L | 22:51:49 |
| 1 | Cu 324.752† | 640.6 | 46.4 | 0.0017 | mg/L | 0.0017 | mg/L | 22:51:49 |
| 1 | Fe 238.204† | 93.8 | 82.7 | 0.0030 | mg/L | 0.0030 | mg/L | 22:52:09 |
| 1 | Mg 279.077† | 134.7 | 19.2 | -0.0032 | mg/L | -0.0032 | mg/L | 22:51:49 |
| 1 | Mn 257.610† | 1690.5 | -168.7 | -0.0009 | mg/L | -0.0009 | mg/L | 22:51:49 |
| 1 | Mo 202.031† | -56.4 | 1.5 | 0.0006 | mg/L | 0.0006 | mg/L | 22:52:09 |
| 1 | Na 330.237† | 3832.8 | -1.8 | 0.5390 | mg/L | 0.5390 | mg/L | 22:51:49 |
| 1 | Ni 231.604† | -337.9 | -10.5 | -0.0003 | mg/L | -0.0003 | mg/L | 22:52:09 |
| 1 | Pb 220.353† | 77.4 | -9.0 | -0.0016 | mg/L | -0.0016 | mg/L | 22:52:09 |
| 1 | Sb 206.836† | 100.0 | -5.7 | -0.0007 | mg/L | -0.0007 | mg/L | 22:52:09 |
| 1 | Se 196.026† | -90.1 | 4.8 | 0.0130 | mg/L | 0.0130 | mg/L | 22:52:09 |
| 1 | Sn 189.927† | -1.0 | -1.5 | -0.0011 | mg/L | -0.0011 | mg/L | 22:52:09 |
| 1 | Ti 337.279† | 1626.9 | 53.1 | 0.0008 | mg/L | 0.0008 | mg/L | 22:51:49 |
| 1 | Tl 190.801† | -9.3 | 6.4 | 0.0153 | mg/L | 0.0153 | mg/L | 22:52:09 |
| 1 | V 292.402† | 2550.3 | -80.6 | 0.0011 | mg/L | 0.0011 | mg/L | 22:51:49 |
| 1 | Zn 213.857† | -148.5 | -16.1 | 0.0005 | mg/L | 0.0005 | mg/L | 22:52:09 |
| 2 | Y 360.073 | 2852810.8 | 2852810.8 | | | | | 22:52:15 |
| 2 | Ag 328.068† | 2661.4 | 59.1 | 0.0007 | mg/L | 0.0007 | mg/L | 22:52:20 |
| 2 | Al 237.313† | -88.0 | 23.0 | 0.0123 | mg/L | 0.0123 | mg/L | 22:52:40 |
| 2 | As 188.979† | -10.6 | -1.9 | -0.0047 | mg/L | -0.0047 | mg/L | 22:52:40 |
| 2 | B 182.528† | -2.2 | 1.8 | 0.0020 | mg/L | 0.0020 | mg/L | 22:52:40 |
| 2 | Ba 233.527† | -82.6 | 20.5 | -0.0004 | mg/L | -0.0004 | mg/L | 22:52:40 |
| 2 | Be 313.107† | 6544.5 | -109.4 | 0.0002 | mg/L | 0.0002 | mg/L | 22:52:20 |
| 2 | Ca 315.886† | 2388.7 | 248.8 | 0.0002 | mg/L | 0.0002 | mg/L | 22:52:20 |
| 2 | Cd 228.802† | 23.1 | -10.1 | 0.0000 | mg/L | 0.0000 | mg/L | 22:52:40 |
| 2 | Co 228.616† | -423.8 | -8.9 | -0.0009 | mg/L | -0.0009 | mg/L | 22:52:40 |
| 2 | Cr 267.716† | 1988.7 | 84.9 | 0.0008 | mg/L | 0.0008 | mg/L | 22:52:20 |
| 2 | Cu 324.752† | 572.8 | -22.2 | 0.0014 | mg/L | 0.0014 | mg/L | 22:52:20 |
| 2 | Fe 238.204† | 108.3 | 96.3 | 0.0031 | mg/L | 0.0031 | mg/L | 22:52:40 |
| 2 | Mg 279.077† | 266.5 | 146.1 | 0.0026 | mg/L | 0.0026 | mg/L | 22:52:20 |
| 2 | Mn 257.610† | 1616.5 | -247.9 | -0.0010 | mg/L | -0.0010 | mg/L | 22:52:20 |
| 2 | Mo 202.031† | -53.2 | 4.8 | 0.0010 | mg/L | 0.0010 | mg/L | 22:52:40 |
| 2 | Na 330.237† | 3793.1 | -57.5 | 0.4883 | mg/L | 0.4883 | mg/L | 22:52:20 |
| 2 | Ni 231.604† | -335.9 | -7.1 | -0.0002 | mg/L | -0.0002 | mg/L | 22:52:40 |
| 2 | Pb 220.353† | 74.4 | -12.2 | -0.0022 | mg/L | -0.0022 | mg/L | 22:52:40 |
| 2 | Sb 206.836† | 105.3 | -1.0 | 0.0013 | mg/L | 0.0013 | mg/L | 22:52:40 |
| 2 | Se 196.026† | -90.9 | 4.4 | 0.0117 | mg/L | 0.0117 | mg/L | 22:52:40 |
| 2 | Sn 189.927† | -3.8 | -4.3 | -0.0024 | mg/L | -0.0024 | mg/L | 22:52:40 |
| 2 | Ti 337.279† | 1545.9 | -32.7 | 0.0007 | mg/L | 0.0007 | mg/L | 22:52:20 |
| 2 | Tl 190.801† | -8.3 | 7.4 | 0.0172 | mg/L | 0.0172 | mg/L | 22:52:40 |
| 2 | V 292.402† | 2603.1 | -40.9 | 0.0013 | mg/L | 0.0013 | mg/L | 22:52:20 |
| 2 | Zn 213.857† | -140.7 | -7.9 | 0.0007 | mg/L | 0.0007 | mg/L | 22:52:40 |

Mean Data: ICCB

| Analyte | Mean Corrected Intensity | Calib Conc. | Calib Units | Std.Dev. | Sample Conc. | Sample Units | Std.Dev. | RSD |
|---|---|---|---|---|---|---|---|---|
| Y 360.073 | 2846212.4 | | | | | | 9331.59 | 0.33% |
| Ag 328.068† | 68.0 | 0.0007 | mg/L | 0.00006 | 0.0007 | mg/L | 0.00006 | 8.39% |
| QC value within limits for Ag 328.068 Recovery = Not calculated | | | | | | | | |
| Al 237.313† | 17.0 | 0.0115 | mg/L | 0.00122 | 0.0115 | mg/L | 0.00122 | 10.65% |
| QC value within limits for Al 237.313 Recovery = Not calculated | | | | | | | | |
| As 188.979† | 0.7 | 0.0008 | mg/L | 0.00790 | 0.0008 | mg/L | 0.00790 | 936.23% |
| QC value within limits for As 188.979 Recovery = Not calculated | | | | | | | | |

```
B 182.528†                 4.6      0.0075 mg/L       0.00776      0.0075 mg/L       0.00776 103.38%
   QC value within limits for B 182.528  Recovery = Not calculated
Ba 233.527†               18.9     -0.0004 mg/L       0.00002     -0.0004 mg/L       0.00002   3.64%
   QC value within limits for Ba 233.527  Recovery = Not calculated
Be 313.107†              -73.6      0.0002 mg/L       0.00001      0.0002 mg/L       0.00001   4.68%
   QC value within limits for Be 313.107  Recovery = Not calculated
Ca 315.886†              287.1      0.0004 mg/L       0.00036      0.0004 mg/L       0.00036  86.61%
   QC value within limits for Ca 315.886  Recovery = Not calculated
Cd 228.802†               -4.8      0.0001 mg/L       0.00009      0.0001 mg/L       0.00009  96.84%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†               -0.3     -0.0008 mg/L       0.00019     -0.0008 mg/L       0.00019  24.32%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†               41.4      0.0005 mg/L       0.00041      0.0005 mg/L       0.00041  81.28%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†               12.1      0.0016 mg/L       0.00023      0.0016 mg/L       0.00023  14.94%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 238.204†               89.5      0.0030 mg/L       0.00009      0.0030 mg/L       0.00009   2.81%
   QC value within limits for Fe 238.204  Recovery = Not calculated
Mg 279.077†               82.6     -0.0003 mg/L       0.00413     -0.0003 mg/L       0.00413 >999.9%
   QC value within limits for Mg 279.077  Recovery = Not calculated
Mn 257.610†             -208.3     -0.0010 mg/L       0.00007     -0.0010 mg/L       0.00007   6.84%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†                3.2      0.0008 mg/L       0.00026      0.0008 mg/L       0.00026  31.69%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 330.237†              -29.7      0.5136 mg/L       0.03582      0.5136 mg/L       0.03582   6.97%
   QC value within limits for Na 330.237  Recovery = Not calculated
Ni 231.604†               -8.8     -0.0002 mg/L       0.00005     -0.0002 mg/L       0.00005  23.93%
   QC value within limits for Ni 231.604  Recovery = Not calculated
Pb 220.353†              -10.6     -0.0019 mg/L       0.00042     -0.0019 mg/L       0.00042  21.51%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†               -3.3      0.0003 mg/L       0.00145      0.0003 mg/L       0.00145 491.51%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†                4.6      0.0124 mg/L       0.00095      0.0124 mg/L       0.00095   7.70%
   QC value within limits for Se 196.026  Recovery = Not calculated
Sn 189.927†               -2.9     -0.0017 mg/L       0.00090     -0.0017 mg/L       0.00090  52.60%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 337.279†               10.2      0.0008 mg/L       0.00010      0.0008 mg/L       0.00010  12.94%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†                6.9      0.0162 mg/L       0.00139      0.0162 mg/L       0.00139   8.54%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†               -60.7      0.0012 mg/L       0.00014      0.0012 mg/L       0.00014  11.32%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              -12.0      0.0006 mg/L       0.00013      0.0006 mg/L       0.00013  20.32%
   QC value within limits for Zn 213.857  Recovery = Not calculated
All analytes passed QC.
```

---

**Sequence No.: 67** **Autosampler Location: 51**
**Sample ID: 01110359-01x10** **Date Collected: 11/30/01 10:54:25 PM**
**Analyst:**
**Sample Wt:** **Sample Prep Volume:**
**Dilution:** **Data Type: Original**

---

**R plicate Data: 01110359-01x10**

| Repl# | Analyte | Net Intensity | Corrected Intensity | Calib. Conc. | Calib. Units | Sample Conc. | Sample Units | Analysis Time |
|---|---|---|---|---|---|---|---|---|
| 1 | Y 360.073 | 2638337.9 | 2638337.9 | | | | | 22:56:00 |
| 1 | Ag 328.068† | 2482.9 | 81.8 | 0.0008 | mg/L | 0.0008 | mg/L | 22:56:06 |
| 1 | Al 237.313† | -85.6 | 18.6 | 0.0116 | mg/L | 0.0116 | mg/L | 22:56:26 |
| 1 | As 188.979† | -8.1 | -0.1 | -0.0010 | mg/L | -0.0010 | mg/L | 22:56:26 |
| 1 | B 182.528† | 232.7 | 247.5 | 0.3741 | mg/L | 0.3741 | mg/L | 22:56:26 |
| 1 | Ba 233.527† | 86.7 | 191.2 | 0.0008 | mg/L | 0.0008 | mg/L | 22:56:26 |
| 1 | Be 313.107† | 6216.4 | 62.2 | 0.0002 | mg/L | 0.0002 | mg/L | 22:56:06 |
| 1 | Ca 315.886† | 5242935.7 | 5485054.7 | 36.44 | mg/L | 36.44 | mg/L | 22:56:00 |
| 1 | Cd 228.802† | 14.6 | -17.2 | -0.0001 | mg/L | -0.0001 | mg/L | 22:56:26 |
| 1 | Co 228.616† | -463.0 | -83.2 | -0.0021 | mg/L | -0.0021 | mg/L | 22:56:26 |
| 1 | Cr 267.716† | 1691.7 | -69.5 | -0.0002 | mg/L | -0.0002 | mg/L | 22:56:06 |
| 1 | Cu 324.752† | 570.9 | 21.0 | 0.0016 | mg/L | 0.0016 | mg/L | 22:56:06 |
| 1 | Fe 238.204† | 1017.0 | 1055.9 | -0.0953 | mg/L | -0.0953 | mg/L | 22:56:26 |
| 1 | Mg 279.077† | 2422598.2 | 2535315.3 | 116.6 | mg/L | 116.6 | mg/L | 22:56:00 |

# Autosampler Loading List

Sample Information File: 120301ZA.SIF
Methods: Cd 0.5

| Location | Elements | Solution |
|---|---|---|
| 0 | Cd | Diluent |
| 1 | Cd | Stock Standard: 0.50 µg/L |
| 2 | Cd | Stock Standard: 1.00 µg/L |
| 3 | Cd | Stock Standard: 2.00 µg/L |
| | Cd | STD 3: 2.0000 µg/L |
| | Cd | CCV: 2.0000 µg/L |
| 4 | Cd | Stock Standard: 5.00 µg/L |
| 5 | Cd | Recovery Stock: 10.00 µg/L |
| 6 | Cd | ICV: 2.5000 µg/L |
| 7 | Cd | Sample: 011130pbw |
| 8 | Cd | Sample: 011130lcsw x5 |
| 9 | Cd | Sample: 01110406-02 |
| 10 | Cd | Sample: 01110406-02dup |
| 11 | Cd | Sample: 01110406-02ms x5 |
| 12 | Cd | Sample: 01110406-02sd x5 |
| 13 | Cd | Sample: 01110414-02 |
| 14 | Cd | Sample: 01110414-03 |
| 15 | Cd | Sample: 01110414-04 |
| 16 | Cd | Sample: 01110414-05 |
| 17 | Cd | Sample: 011130pbw2 |
| 18 | Cd | Sample: 011130lcsw2 x100 |
| 19 | Cd | Sample: 01110414-06 |
| 20 | Cd | Sample: 01110414-07 |
| 21 | Cd | Sample: 01110414-08 |
| 22 | Cd | Sample: 01110414-01 |
| 23 | Cd | Sample: 01110414-01dup |
| 24 | Cd | Sample: 01110414-01ms x100 |
| 25 | Cd | Sample: 01110414-01sd x5 |
| 35 | Cd | Standard 0 |
| | Cd | ICB/CCB: 0.0000 µg/L |
| 39 | Cd | Modifier 2 |
| 40 | Cd | CRA 0.20: 0.2000 µg/L |

==========

Method Name: Cd 0.5
Method Description: Cd
Element: Cd

Date: 12/03/2001
Technique:Furnace
Calibration Type:
Cd, Zero Intercept: Linear
Wavelength: 228.8 nm
Energy: 60
Slit Width: 0.7
Lamp Current: 4 mA
Sample Info Name: 120301ZA.SIF Results Data Set Name: 120301zad

==========

Element: Cd Seq. No.: 1 AS Loc.: 35 Date: 12/03/2001
Sample ID: Standard 0
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc | StndConc | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0099 | 0.0099 | 0.0197 | 0.0434 | 0.0321 | 02:35:04 No |
| 2 | | | 0.0082 | 0.0082 | 0.0197 | 0.0449 | 0.0313 | 02:38:46 No |
| Mean: | | | 0.0091 | | | | | |
| SD : | | | 0.0011 | | | | | |
| %RSD: | | | 12.68 | | | | | |

Auto-zero performed.

==========

Element: Cd Seq. No.: 2 AS Loc.: 1 Date: 12/03/2001
Sample ID: Standard 0.5
µL dispensed: 10 from 0, 5 from 39, 15 from 1

| Repl # | SampleConc | StndConc | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0242 | 0.0333 | 0.0552 | 0.0505 | 0.0372 | 02:42:30 No |
| 2 | | | 0.0265 | 0.0356 | 0.0496 | 0.0483 | 0.0347 | 02:46:12 No |
| Mean: | | | 0.0254 | | | | | |
| SD : | | | 0.0016 | | | | | |
| %RSD: | | | 6.39 | | | | | |

[Cd] Standard number 1 applied. [0.50]
Correlation Coefficient: 1.00000 Slope: 0.05071

==========

Element: Cd Seq. No.: 3 AS Loc.: 2 Date: 12/03/2001
Sample ID: Standard 1.0
µL dispensed: 10 from 0, 5 from 39, 15 from 2

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0517 | 0.0607 | 0.0837 | 0.0512 | 0.0410 | 02:49:58 No |
| 2 | | | 0.0465 | 0.0556 | 0.0824 | 0.0512 | 0.0403 | 02:53:43 No |

10

Mean: 0.0491
SD : 0.0036
%RSD: 7.41
[Cd] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99914 Slope: 0.04942

N

==========

Element: Cd Seq. No.: 4 AS Loc.: 3 Date: 12/03/2001
Sample ID: Standard 2.0
µL dispensed: 10 from 0, 5 from 39, 15 from 3

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0505 | 0.0596 | 0.0933 | 0.0468 | 0.0432 | 02:57:31 No |
| 2 | | | 0.0454 | 0.0544 | 0.0838 | 0.0488 | 0.0405 | 03:01:16 No |
| Mean: | | | 0.0479 | | | | | |
| SD : | | | 0.0036 | | | | | |
| %RSD: | | | 7.61 | | | | | |

STD made incorrectly. Store-made + re-run STD 12/3/01

Calibration standard not accepted because standard abs. and conc. values are not in the same order.
Standard number 3 not applied. [-------]

==========

Element: Cd Seq. No.: 5 AS Loc.: 4 Date: 12/03/2001
Sample ID: Standard 5.0
µL dispensed: 10 from 0, 5 from 39, 15 from 4

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.2281 | 0.2372 | 0.3088 | 0.0819 | 0.0851 | 03:05:03 No |
| 2 | | | 0.2293 | 0.2383 | 0.3087 | 0.0819 | 0.0838 | 03:08:47 No |
| Mean: | | | 0.2287 | | | | | |
| SD : | | | 0.0008 | | | | | |
| %RSD: | | | 0.36 | | | | | |

N

[Cd] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99968 Slope: 0.04593

A

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Calibration data for Cd

| Standard ID | Mean Signal (Pk Area) | Entered Concentration (µg/L) | Calculated Concentration (µg/L) | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Standard 0 | 0.0091 | -- | ---- | ---- | ---- |
| Standard 0.5 | 0.0254 | 0.50 | 0.55 | 0.002 | 6.39 |
| Standard 1.0 | 0.0491 | 1.00 | 1.07 | 0.004 | 7.41 |
| Standard 2.0 | 0.0479 | 2.00 | ---- | ---- | ---- |
| Standard 5.0 | 0.2287 | 5.00 | 4.98 | 0.001 | 0.36 |

Correlation Coefficient: 0.99968 Slope: 0.04593 ----

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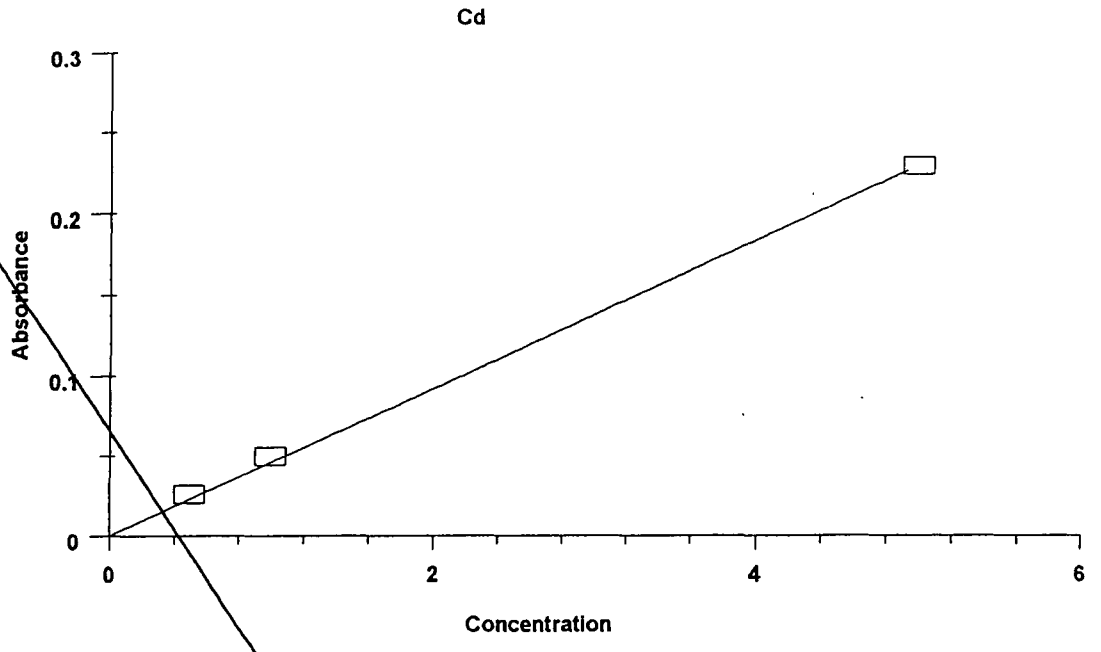


==========

Element: Cd  Seq. No.: 6  AS Loc.: 3  Date: 12/03/2001
Sample ID: STD 3
µL dispensed:  10 from 0, 5 from 39, 15 from 3

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| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.07 | 1.07 | 0.0492 | 0.0583 | 0.0893 | 0.0517 | 0.0423 | 03:12:39 No |
| 2 | 1.00 | 1.00 | 0.0460 | 0.0550 | 0.0879 | 0.0492 | 0.0463 | 03:16:23 No |
| Mean: | 1.04 | 1.04 | 0.0476 | | | | | |
| SD : | 0.050 | 0.050 | 0.0023 | | | | | |
| %RSD: | 4.81 | 4.81 | 4.81 | | | | | |

QC failed, value less than lower limit for Cd.

==========

Element: Cd  Seq. No.: 7  AS Loc.: 3  Date: 12/03/2001
Sample ID: STD 3
µL dispensed:  10 from 0, 5 from 39, 15 from 3

---

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 1.04 | 1.04 | 0.0477 | 0.0567 | 0.0823 | 0.0567 | 0.0462 | 03:20:10 No |
| 2 | 1.03 | 1.03 | 0.0474 | 0.0565 | 0.0914 | 0.0542 | 0.0426 | 03:23:56 No |
| Mean: | 1.04 | 1.04 | 0.0475 | | | | | |
| SD : | 0.004 | 0.004 | 0.0002 | | | | | |
| %RSD: | 0.38 | 0.38 | 0.38 | | | | | |

QC failed, value less than lower limit for Cd.
Current analysis method being continued.

1C

Element: Cd Seq. No.: 8 AS Loc.: 6 Date: 12/03/2001
Sample ID: ICV
µL dispensed: 10 from 0, 5 from 39, 15 from 6

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.60 | 2.60 | 0.1193 | 0.1283 | 0.1677 | 0.0645 | 0.0542 | 03:27:41 No |
| 2 | 2.67 | 2.67 | 0.1224 | 0.1315 | 0.1623 | 0.0605 | 0.0545 | 03:31:23 No |
| Mean: | 2.63 | 2.63 | 0.1208 | | | | | |
| SD : | 0.049 | 0.049 | 0.0023 | | | | | |
| %RSD: | 1.86 | 1.86 | 1.86 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 9 AS Loc.: 35 Date: 12/03/2001
Sample ID: ICB/CCB
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.07 | 0.07 | 0.0030 | 0.0121 | 0.0244 | 0.0513 | 0.0359 | 03:35:06 No |
| 2 | -0.10 | -0.10 | -0.0048 | 0.0042 | 0.0244 | 0.0481 | 0.0311 | 03:38:50 No |
| Mean: | -0.02 | -0.02 | -0.0009 | | | | | |
| SD : | 0.121 | 0.121 | 0.0055 | | | | | |
| %RSD: | 629.9 | 629.9 | 629.93 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 10 AS Loc.: 40 Date: 12/03/2001
Sample ID: CRA 0.20
µL dispensed: 10 from 0, 5 from 39, 15 from 40

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.18 | 0.18 | 0.0083 | 0.0174 | 0.0397 | 0.0537 | 0.0415 | 03:42:32 No |
| 2 | 0.31 | 0.31 | 0.0140 | 0.0231 | 0.0465 | 0.0429 | 0.0373 | 03:46:10 No |

Element: Cd Seq. No.: 11 AS Loc.: 3 Date: 12/03/2001
Sample ID: Standard 2.0
µL dispensed: 10 from 0, 5 from 39, 15 from 3

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0979 | 0.1069 | 0.1080 | 0.0668 | 0.0434 | 03:52:36 No |
| 2 | | | 0.0916 | 0.1006 | 0.1179 | 0.0626 | 0.0447 | 03:56:19 No |
| Mean: | | | 0.0947 | | | | | |
| SD : | | | 0.0045 | | | | | |

%RSD: 4.73
[Cd] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99954 Slope: 0.04612

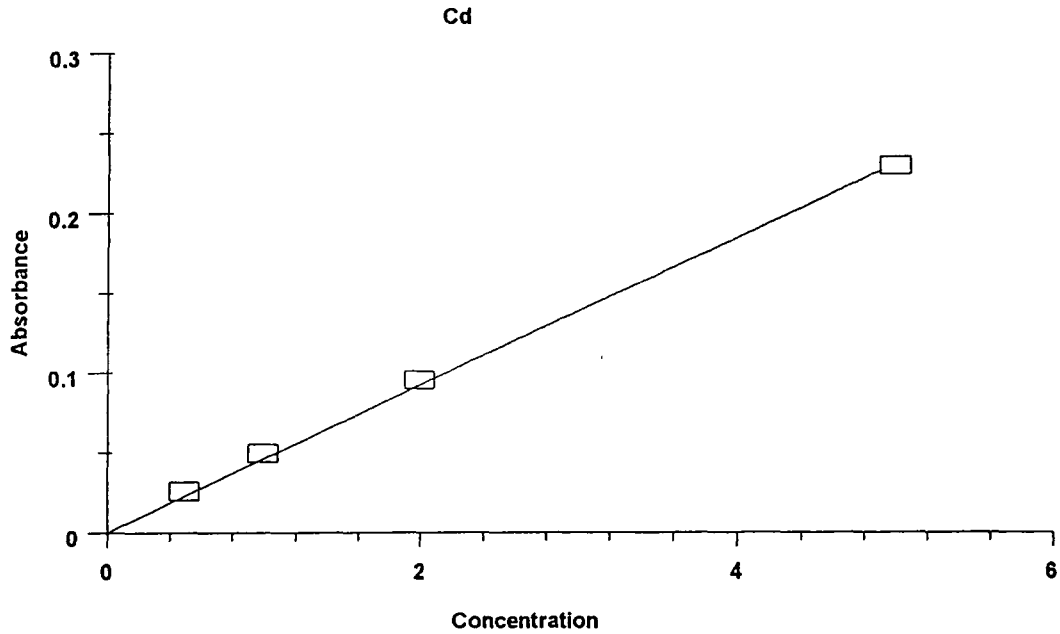
---

Calibration data for Cd

| Standard ID | Mean Signal (Pk Area) | Entered Concentration (µg/L) | Calculated Concentration (µg/L) | Standard Deviation | %RSD |
|---|---|---|---|---|---|
| Standard 0 | 0.0091 | -- | ---- | ---- | ---- |
| Standard 0.5 | 0.0254 | 0.50 | 0.55 | 0.002 | 6.39 |
| Standard 1.0 | 0.0491 | 1.00 | 1.06 | 0.004 | 7.41 |
| Standard 2.0 | 0.0947 | 2.00 | 2.05 | 0.004 | 4.73 |
| Standard 5.0 | 0.2287 | 5.00 | 4.96 | 0.001 | 0.36 |

Correlation Coefficient: 0.99954 Slope: 0.04612 ----

---




---

Element: Cd Seq. No.: 12 AS Loc.: 3 Date: 12/03/2001
Sample ID: STD 3
µL dispensed: 10 from 0, 5 from 39, 15 from 3

---

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time | Peak Stored |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.24 | 2.24 | 0.1032 | 0.1122 | 0.1212 | 0.0626 | 0.0484 | 04:04:24 | No |
| 2 | 1.99 | 1.99 | 0.0919 | 0.1010 | 0.1230 | 0.0607 | 0.0473 | 04:08:09 | No |
| Mean: | 2.11 | 2.11 | 0.0975 | | | | | | |
| SD : | 0.172 | 0.172 | 0.0079 | | | | | | |
| %RSD: | 8.15 | 8.15 | 8.15 | | | | | | |

QC failed, value greater than upper limit for Cd.

---

Element: Cd Seq. No.: 13 AS Loc.: 3 Date: 12/03/2001
Sample ID: STD 3

10

µL dispensed: 10 from 0, 5 from 39, 15 from 3

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.23 | 2.23 | 0.1027 | 0.1118 | 0.1302 | 0.0591 | 0.0480 | 04:11:58 No |
| 2 | 1.90 | 1.90 | 0.0875 | 0.0966 | 0.1121 | 0.0648 | 0.0505 | 04:15:43 No |
| Mean: | 2.06 | 2.06 | 0.0951 | | | | | |
| SD : | 0.234 | 0.234 | 0.0108 | | | | | |
| %RSD: | 11.33 | 11.33 | 11.33 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 14 AS Loc.: 6 Date: 12/03/2001
Sample ID: ICV
µL dispensed: 10 from 0, 5 from 39, 15 from 6

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.78 | 2.78 | 0.1284 | 0.1375 | 0.1654 | 0.0672 | 0.0560 | 04:19:28 No |
| 2 | 2.77 | 2.77 | 0.1279 | 0.1369 | 0.1578 | 0.0599 | 0.0553 | 04:23:09 No |
| Mean: | 2.78 | 2.78 | 0.1281 | | | | | |
| SD : | 0.009 | 0.009 | 0.0004 | | | | | |
| %RSD: | 0.31 | 0.31 | 0.31 | | | | | |

QC failed, value greater than upper limit for Cd.

Element: Cd Seq. No.: 15 AS Loc.: 6 Date: 12/03/2001
Sample ID: ICV
µL dispensed: 10 from 0, 5 from 39, 15 from 6

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.69 | 2.69 | 0.1239 | 0.1329 | 0.1612 | 0.0728 | 0.0540 | 04:26:52 No |
| 2 | 2.79 | 2.79 | 0.1288 | 0.1378 | 0.1507 | 0.0638 | 0.0514 | 04:30:34 No |
| Mean: | 2.74 | 2.74 | 0.1263 | | | | | |
| SD : | 0.075 | 0.075 | 0.0035 | | | | | |
| %RSD: | 2.75 | 2.75 | 2.75 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 16 AS Loc.: 35 Date: 12/03/2001
Sample ID: ICB/CCB
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.14 | 0.14 | 0.0062 | 0.0153 | 0.0286 | 0.0476 | 0.0374 | 04:34:17 No |
| 2 | -0.12 | -0.12 | -0.0056 | 0.0034 | 0.0174 | 0.0514 | 0.0340 | 04:38:00 No |
| Mean: | 0.01 | 0.01 | 0.0003 | | | | | |

```
SD  :      0.182      0.182     0.0084
%RSD:       2814       2814    2814.00
QC value within specified limits.
```

```
==============================================================================
Element: Cd     Seq. No.: 17        AS Loc.: 40    Date: 12/03/2001
Sample ID: CRA 0.20
µL dispensed:  10 from 0, 5 from 39, 15 from 40
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area     Height   Area     Height
Stored
 1        0.34       0.34     0.0157   0.0248   0.0326   0.0477   0.0383 04:41:42
No
 2        0.32       0.32     0.0150   0.0240   0.0336   0.0507   0.0376 04:45:21
No
Mean:     0.33       0.33     0.0153
SD  :    0.012      0.012     0.0005
%RSD:     3.53       3.53       3.53
QC failed, value greater than upper limit for Cd.
```

```
==============================================================================
Element: Cd     Seq. No.: 18        AS Loc.: 40    Date: 12/03/2001
Sample ID: CRA 0.20
µL dispensed:  10 from 0, 5 from 39, 15 from 40
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area     Height   Area     Height
Stored
 1        0.32       0.32     0.0150   0.0240   0.0328   0.0468   0.0323 04:49:01
No
 2        0.25       0.25     0.0114   0.0204   0.0390   0.0523   0.0416 04:52:39
No
Mean:     0.29       0.29     0.0132
SD  :    0.055      0.055     0.0025
%RSD:    19.27      19.27      19.27
QC failed, value greater than upper limit for Cd.
Current analysis method being continued.
```

```
==============================================================================
Element: Cd     Seq. No.: 19        AS Loc.: 7     Date: 12/03/2001
Sample ID: 011130pbw
µL dispensed:  10 from 0, 5 from 39, 15 from 7
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area     Height   Area     Height
Stored
 1       -0.02      -0.02    -0.0007   0.0083   0.0216   0.0484   0.0360 04:56:21
No
 2        0.14       0.14     0.0063   0.0153   0.0248   0.0460   0.0331 05:00:02
No
Mean:     0.06       0.06     0.0028
SD  :    0.107      0.107     0.0049
%RSD:    178.4      178.4     178.36
```

ND

```
==============================================================================
Element: Cd     Seq. No.: 20        AS Loc.: 7     Date: 12/03/2001
Sample ID: 011130pbw
µL dispensed:  7 from 0, 5 from 39, 3 from 5, 15 from 7
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd   Time
Peak
```

11

| # | µg/L | µg/L | Signal | Area | Height | Area | Height | Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.20 | 2.20 | 0.1016 | 0.1106 | 0.0983 | 0.0629 | 0.0405 | 05:03:54 |
| No | | | | | | | | |
| 2 | 2.23 | 2.23 | 0.1029 | 0.1119 | 0.1111 | 0.0576 | 0.0403 | 05:07:45 |
| No | | | | | | | | |
| Mean: | 2.22 | 2.22 | 0.1022 | | | | | |
| SD : | 0.020 | 0.020 | 0.0009 | | | | | |
| %RSD: | 0.90 | 0.90 | 0.90 | | | | | |

Recovery for Cd = 110.8 % within 85 % to 115 % ✓

==========

Element: Cd Seq. No.: 21 AS Loc.: 8 Date: 12/03/2001
Sample ID: 011130lcsw x5
µL dispensed: 10 from 0, 5 from 39, 15 from 8

---

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.23 | 2.23 | 0.1031 | 0.1121 | 0.1288 | 0.0622 | 0.0485 | 05:11:26 |
| No | | | | | | | | |
| 2 | 2.33 | 2.33 | 0.1073 | 0.1164 | 0.1395 | 0.0627 | 0.0492 | 05:15:05 |
| No | | | | | | | | |
| Mean: | 2.28 | 2.28 | 0.1052 | | | | | |
| SD : | 0.065 | 0.065 | 0.0030 | | | | | |
| %RSD: | 2.86 | 2.86 | 2.86 | | | | | |

$114\% = 100\left(\frac{2.28 \times 5}{10}\right)$

==========

Element: Cd Seq. No.: 22 AS Loc.: 9 Date: 12/03/2001
Sample ID: 01110406-02
µL dispensed: 10 from 0, 5 from 39, 15 from 9

---

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.33 | 0.33 | 0.0152 | 0.0242 | 0.0349 | 0.0688 | 0.0473 | 05:18:43 |
| No | | | | | | | | |
| 2 | 0.18 | 0.18 | 0.0084 | 0.0175 | 0.0257 | 0.0772 | 0.0482 | 05:22:22 |
| No | | | | | | | | |
| Mean: | 0.26 | 0.26 | 0.0118 | | | | | |
| SD : | 0.103 | 0.103 | 0.0047 | | | | | |
| %RSD: | 40.23 | 40.23 | 40.23 | | | | | |

ND

==========

Element: Cd Seq. No.: 23 AS Loc.: 9 Date: 12/03/2001
Sample ID: 01110406-02
µL dispensed: 7 from 0, 5 from 39, 3 from 5, 15 from 9

---

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.64 | 2.64 | 0.1220 | 0.1310 | 0.1238 | 0.0886 | 0.0545 | 05:26:13 |
| No | | | | | | | | |
| 2 | 2.53 | 2.53 | 0.1168 | 0.1258 | 0.1082 | 0.0893 | 0.0607 | 05:30:02 |
| No | | | | | | | | |
| Mean: | 2.59 | 2.59 | 0.1194 | | | | | |
| SD : | 0.080 | 0.080 | 0.0037 | | | | | |
| %RSD: | 3.09 | 3.09 | 3.09 | | | | | |

High recovery, sample ND
SD 12/4/01

Recovery for Cd = 129.4 %, greater than upper limit 115 %

==========

Element: Cd Seq. No.: 24 AS Loc.: 9 Date: 12/03/2001

Sample ID: 01110406-02
µL dispensed: 20 from 0, 5 from 39, 5 from 9

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.08 | 0.03 | 0.0013 | 0.0103 | 0.0244 | 0.0556 | 0.0392 | 05:33:42 No |
| 2 | 0.19 | 0.06 | 0.0029 | 0.0119 | 0.0221 | 0.0538 | 0.0394 | 05:37:19 No |
| Mean: | 0.13 | 0.04 | 0.0021 | | | | | |
| SD : | 0.072 | 0.024 | 0.0011 | | | | | |
| %RSD: | 53.70 | 53.70 | 53.70 | | | | | |

Element: Cd Seq. No.: 25 AS Loc.: 9 Date: 12/03/2001
Sample ID: 01110406-02
µL dispensed: 17 from 0, 5 from 39, 3 from 5, 5 from 9

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.74 | 2.25 | 0.1036 | 0.1127 | 0.1086 | 0.0699 | 0.0419 | 05:41:09 No |
| 2 | 6.79 | 2.26 | 0.1043 | 0.1134 | 0.1095 | 0.0757 | 0.0519 | 05:45:00 No |
| Mean: | 6.76 | 2.25 | 0.1040 | | | | | |
| SD : | 0.032 | 0.011 | 0.0005 | | | | | |
| %RSD: | 0.48 | 0.48 | 0.48 | | | | | |

Recovery for Cd = 112.7 % within 85 % to 115 %

Element: Cd Seq. No.: 26 AS Loc.: 10 Date: 12/03/2001
Sample ID: 01110406-02dup
µL dispensed: 10 from 0, 5 from 39, 15 from 10

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.31 | 0.31 | 0.0143 | 0.0233 | 0.0314 | 0.0841 | 0.0530 | 05:48:38 No |
| 2 | 0.24 | 0.24 | 0.0109 | 0.0200 | 0.0298 | 0.0848 | 0.0504 | 05:52:15 No |
| Mean: | 0.27 | 0.27 | 0.0126 | | | | | |
| SD : | 0.052 | 0.052 | 0.0024 | | | | | |
| %RSD: | 18.91 | 18.91 | 18.91 | | | | | |

0%

Element: Cd Seq. No.: 27 AS Loc.: 11 Date: 12/03/2001
Sample ID: 01110406-02ms X5
µL dispensed: 10 from 0, 5 from 39, 15 from 11

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.23 | 2.23 | 0.1028 | 0.1118 | 0.1304 | 0.0780 | 0.0545 | 05:55:51 No |
| 2 | 2.44 | 2.44 | 0.1124 | 0.1215 | 0.1237 | 0.0776 | 0.0549 | 05:59:26 No |
| Mean: | 2.33 | 2.33 | 0.1076 | | | | | |
| SD : | 0.148 | 0.148 | 0.0068 | | | | | |

$116\% = 100\left(\frac{2.33 \times 5}{10}\right)$

11

%RSD: 6.35 6.35 6.35

==========

Element: Cd Seq. No.: 28 AS Loc.: 12 Date: 12/03/2001
Sample ID: 01110406-02sd x5
µL dispensed: 10 from 0, 5 from 39, 15 from 12

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.26 | 0.26 | 0.0120 | 0.0210 | 0.0309 | 0.0575 | 0.0401 | 06:03:02 No |
| 2 | 0.21 | 0.21 | 0.0099 | 0.0189 | 0.0262 | 0.0581 | 0.0398 | 06:06:36 No |
| Mean: | 0.24 | 0.24 | 0.0109 | | | | | |
| SD : | 0.032 | 0.032 | 0.0015 | | | | | |
| %RSD: | 13.58 | 13.58 | 13.58 | | | | | |

ND

==========

Element: Cd Seq. No.: 29 AS Loc.: 13 Date: 12/03/2001
Sample ID: 01110414-02
µL dispensed: 10 from 0, 5 from 39, 15 from 13

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.25 | 0.25 | 0.0113 | 0.0204 | 0.0277 | 0.0561 | 0.0386 | 06:10:10 No |
| 2 | 0.11 | 0.11 | 0.0051 | 0.0141 | 0.0299 | 0.0581 | 0.0400 | 06:13:44 No |
| Mean: | 0.18 | 0.18 | 0.0082 | | | | | |
| SD : | 0.096 | 0.096 | 0.0044 | | | | | |
| %RSD: | 53.86 | 53.86 | 53.86 | | | | | |

ND

==========

Element: Cd Seq. No.: 30 AS Loc.: 14 Date: 12/03/2001
Sample ID: 01110414-03
µL dispensed: 10 from 0, 5 from 39, 15 from 14

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| Result for Cd is greater than 100 percent of calibration range. | | | | | | | | |
| 1 | 15.04 | 15.04 | 0.6938 | 0.7029 | 0.6681 | 0.1927 | 0.1842 | 06:17:20 No |
| Sample absorbance is greater than that of the highest standard. | | | | | | | | |
| Mean: | 15.04 | 15.04 | 0.6938 | | | | | |
| SD : | | | | | | | | |
| %RSD: | | | | | | | | |

Sample absorbance is greater than that of the highest standard.
Result for Cd is greater than 100 percent of calibration range.

==========

Element: Cd Seq. No.: 31 AS Loc.: 35 Date: 12/03/2001
Sample ID: Standard 0
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | | | 0.0163 | 0.0163 | 0.0230 | 0.0583 | 0.0422 | 06:21:01 |

```
 No
 2                          0.0163   0.0163   0.0235   0.0520   0.0375 06:24:46
 No
Mean:                       0.0163
SD  :                       0.0000
%RSD:                         0.08
Auto-zero performed.

==============================================================================
Element: Cd    Seq. No.: 32       AS Loc.: 14   Date: 12/03/2001
Sample ID: 01110414-03
µL dispensed:  20 from 0, 5 from 39, 5 from 14
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area    Height   Area     Height
Stored
Result for Cd is greater than 100 percent of calibration range.
 1        16.55      5.52    0.2545   0.2708   0.3064   0.0773   0.0779 06:28:27
No
Sample absorbance is greater than that of the highest standard.
Mean:     16.55      5.52    0.2545
SD  :
%RSD:
Sample absorbance is greater than that of the highest standard.
Result for Cd is greater than 100 percent of calibration range.
All specified dilutions analysed, result(s) still beyond calibration range.
Analysis continuing.

==============================================================================
Element: Cd    Seq. No.: 33       AS Loc.: 15   Date: 12/03/2001
Sample ID: 01110414-04
µL dispensed:  10 from 0, 5 from 39, 15 from 15
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area    Height   Area     Height
Stored
 1         0.40       0.40    0.0182   0.0273   0.0403   0.0667   0.0416 06:32:04
No
 2         0.47       0.47    0.0216   0.0306   0.0356   0.0542   0.0355 06:35:43
No
Mean:      0.43       0.43    0.0199
SD  :     0.051      0.051    0.0024
%RSD:     11.92      11.92     11.92

==============================================================================
Element: Cd    Seq. No.: 34       AS Loc.: 16   Date: 12/03/2001
Sample ID: 01110414-05
µL dispensed:  10 from 0, 5 from 39, 15 from 16
------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak    Peak     Bkgnd    Bkgnd   Time
Peak
 #     µg/L        µg/L       Signal    Area    Height   Area     Height
Stored
 1         0.47       0.47    0.0218   0.0309   0.0377   0.0568   0.0409 06:39:21
No
 2         0.39       0.39    0.0178   0.0269   0.0380   0.0578   0.0392 06:42:59
No
Mean:      0.43       0.43    0.0198
SD  :     0.061      0.061    0.0028
%RSD:     14.21      14.21     14.21

==============================================================================
Element: Cd    Seq. No.: 35       AS Loc.: 35   Date: 12/03/2001
```

Sample ID: ICB/CCB
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | -0.01 | -0.01 | -0.0003 | 0.0160 | 0.0255 | 0.0455 | 0.0365 | 06:46:40 No |
| 2 | -0.12 | -0.12 | -0.0056 | 0.0107 | 0.0283 | 0.0542 | 0.0419 | 06:50:23 No |
| Mean: | -0.06 | -0.06 | -0.0030 | | | | | |
| SD : | 0.081 | 0.081 | 0.0037 | | | | | |
| %RSD: | 125.4 | 125.4 | 125.45 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 36 AS Loc.: 3 Date: 12/03/2001
Sample ID: CCV
µL dispensed: 10 from 0, 5 from 39, 15 from 3

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.02 | 2.02 | 0.0932 | 0.1095 | 0.1047 | 0.0700 | 0.0478 | 06:54:10 No |
| 2 | 2.08 | 2.08 | 0.0960 | 0.1124 | 0.0995 | 0.0662 | 0.0435 | 06:57:55 No |
| Mean: | 2.05 | 2.05 | 0.0946 | | | | | |
| SD : | 0.044 | 0.044 | 0.0020 | | | | | |
| %RSD: | 2.13 | 2.13 | 2.13 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 37 AS Loc.: 17 Date: 12/03/2001
Sample ID: 011130pbw2
µL dispensed: 10 from 0, 5 from 39, 15 from 17

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | -0.04 | -0.04 | -0.0018 | 0.0073 | 0.0182 | 0.0514 | 0.0329 | 07:01:41 No |
| 2 | 0.06 | 0.06 | 0.0028 | 0.0118 | 0.0224 | 0.0491 | 0.0360 | 07:05:20 No |
| Mean: | 0.01 | 0.01 | 0.0005 | | | | | |
| SD : | 0.069 | 0.069 | 0.0032 | | | | | |
| %RSD: | 637.6 | 637.6 | 637.56 | | | | | |

ND

Element: Cd Seq. No.: 38 AS Loc.: 17 Date: 12/03/2001
Sample ID: 011130pbw2
µL dispensed: 7 from 0, 5 from 39, 3 from 5, 15 from 17

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.24 | 2.24 | 0.1034 | 0.1124 | 0.1075 | 0.0666 | 0.0437 | 07:09:15 No |
| 2 | 2.36 | 2.36 | 0.1090 | 0.1180 | 0.1118 | 0.0691 | 0.0438 | 07:13:09 No |
| Mean: | 2.30 | 2.30 | 0.1062 | | | | | |

SD : 0.086 0.086 0.0040
%RSD: 3.72 3.72 3.72
Recovery for Cd = 115.1 %, greater than upper limit 115 % ✓

==========

Element: Cd Seq. No.: 39 AS Loc.: 17 Date: 12/03/2001
Sample ID: 011130pbw2
µL dispensed: 20 from 0, 5 from 39, 5 from 17

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.02 | 0.01 | 0.0004 | 0.0094 | 0.0191 | 0.0446 | 0.0323 | 07:16:48 No |
| 2 | 0.25 | 0.08 | 0.0039 | 0.0130 | 0.0234 | 0.0426 | 0.0315 | 07:20:27 No |
| Mean: | 0.14 | 0.05 | 0.0021 | | | | | |
| SD : | 0.163 | 0.054 | 0.0025 | | | | | |
| %RSD: | 116.6 | 116.6 | 116.62 | | | | | |

==========

Element: Cd Seq. No.: 40 AS Loc.: 17 Date: 12/03/2001
Sample ID: 011130pbw2
µL dispensed: 17 from 0, 5 from 39, 3 from 5, 5 from 17

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.63 | 2.21 | 0.1019 | 0.1110 | 0.1116 | 0.0648 | 0.0448 | 07:24:22 No |
| 2 | 6.13 | 2.04 | 0.0942 | 0.1033 | 0.1045 | 0.0637 | 0.0427 | 07:28:16 No |
| Mean: | 6.38 | 2.13 | 0.0981 | | | | | |
| SD : | 0.352 | 0.117 | 0.0054 | | | | | |
| %RSD: | 5.52 | 5.52 | 5.52 | | | | | |

Recovery for Cd = 106.3 % within 85 % to 115 %

==========

Element: Cd Seq. No.: 41 AS Loc.: 18 Date: 12/03/2001
Sample ID: 011130lcsw2 x/DO
µL dispensed: 10 from 0, 5 from 39, 15 from 18

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.91 | 2.91 | 0.1344 | 0.1434 | 0.1636 | 0.0815 | 0.0645 | 07:31:56 No |
| 2 | 3.03 | 3.03 | 0.1397 | 0.1488 | 0.1683 | 0.0783 | 0.0611 | 07:35:38 No |
| Mean: | 2.97 | 2.97 | 0.1370 | | | | | |
| SD : | 0.082 | 0.082 | 0.0038 | | | | | |
| %RSD: | 2.76 | 2.76 | 2.76 | | | | | |

$119\% = 100\left(\frac{2.97 \times 100}{250}\right)$

OK per 7000 Series 80–120%
JVD 12/4/01

==========

Element: Cd Seq. No.: 42 AS Loc.: 19 Date: 12/03/2001
Sample ID: 01110414-06
µL dispensed: 10 from 0, 5 from 39, 15 from 19

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.67 | 0.67 | 0.0307 | 0.0397 | 0.0452 | 0.0649 | 0.0420 | 07:39:19 |
| No | | | | | | | | |
| 2 | 0.68 | 0.68 | 0.0313 | 0.0404 | 0.0466 | 0.0625 | 0.0396 | 07:43:04 |
| No | | | | | | | | |
| Mean: | 0.67 | 0.67 | 0.0310 | | | | | |
| SD : | 0.010 | 0.010 | 0.0005 | | | | | |
| %RSD: | 1.51 | 1.51 | 1.51 | | | | | |

==========

Element: Cd Seq. No.: 43 AS Loc.: 20 Date: 12/03/2001
Sample ID: 01110414-07
µL dispensed: 10 from 0, 5 from 39, 15 from 20

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.36 | 0.36 | 0.0167 | 0.0257 | 0.0389 | 0.0575 | 0.0393 | 07:46:46 |
| No | | | | | | | | |
| 2 | 0.26 | 0.26 | 0.0121 | 0.0212 | 0.0359 | 0.0547 | 0.0422 | 07:50:29 |
| No | | | | | | | | |
| Mean: | 0.31 | 0.31 | 0.0144 | | | | | |
| SD : | 0.070 | 0.070 | 0.0032 | | | | | |
| %RSD: | 22.31 | 22.31 | 22.31 | | | | | |

ND

==========

Element: Cd Seq. No.: 44 AS Loc.: 21 Date: 12/03/2001
Sample ID: 01110414-08
µL dispensed: 10 from 0, 5 from 39, 15 from 21

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.40 | 0.40 | 0.0183 | 0.0273 | 0.0359 | 0.0572 | 0.0432 | 07:54:14 |
| No | | | | | | | | |
| 2 | 0.34 | 0.34 | 0.0157 | 0.0247 | 0.0365 | 0.0628 | 0.0485 | 07:57:59 |
| No | | | | | | | | |
| Mean: | 0.37 | 0.37 | 0.0170 | | | | | |
| SD : | 0.040 | 0.040 | 0.0018 | | | | | |
| %RSD: | 10.79 | 10.79 | 10.79 | | | | | |

ND

==========

Element: Cd Seq. No.: 45 AS Loc.: 22 Date: 12/03/2001
Sample ID: 01110414-01
µL dispensed: 10 from 0, 5 from 39, 15 from 22

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.15 | 0.15 | 0.0070 | 0.0161 | 0.0269 | 0.0578 | 0.0394 | 08:01:45 |
| No | | | | | | | | |
| 2 | 0.12 | 0.12 | 0.0056 | 0.0147 | 0.0285 | 0.0642 | 0.0387 | 08:05:31 |
| No | | | | | | | | |
| Mean: | 0.14 | 0.14 | 0.0063 | | | | | |
| SD : | 0.021 | 0.021 | 0.0010 | | | | | |
| %RSD: | 15.62 | 15.62 | 15.62 | | | | | |

ND

==========

Element: Cd Seq. No.: 46 AS Loc.: 22 Date: 12/03/2001
Sample ID: 01110414-01
µL dispensed: 7 from 0, 5 from 39, 3 from 5, 15 from 22

| Repl | SampleConc | StndConc | BlnkCorr | Peak | Peak | Bkgnd | Bkgnd | Time |
|---|---|---|---|---|---|---|---|---|

| Peak # | µg/L | µg/L | Signal | Area | Height | Area | Height | Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.55 | 2.55 | 0.1174 | 0.1265 | 0.1174 | 0.0705 | 0.0527 | 08:09:28 |
| No | | | | | | | | |
| 2 | 2.66 | 2.66 | 0.1226 | 0.1316 | 0.1273 | 0.0616 | 0.0465 | 08:13:24 |
| No | | | | | | | | |
| Mean: | 2.60 | 2.60 | 0.1200 | | | | | |
| SD : | 0.079 | 0.079 | 0.0037 | | | | | |
| %RSD: | 3.05 | 3.05 | 3.05 | | | | | |

High recovery sample ID
SD 12/4/01

Recovery for Cd = 130.1 %, greater than upper limit 115 %

==========

Element: Cd Seq. No.: 47 AS Loc.: 22 Date: 12/03/2001
Sample ID: 01110414-01
µL dispensed: 20 from 0, 5 from 39, 5 from 22

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.16 | 0.05 | 0.0025 | 0.0115 | 0.0206 | 0.0420 | 0.0354 | 08:17:11 |
| No | | | | | | | | |
| 2 | -0.19 | -0.06 | -0.0029 | 0.0062 | 0.0183 | 0.0467 | 0.0350 | 08:20:57 |
| No | | | | | | | | |
| Mean: | -0.01 | 0.00 | -0.0002 | | | | | |
| SD : | 0.247 | 0.082 | 0.0038 | | | | | |
| %RSD: | 1920 | 1920 | 1920.00 | | | | | |

==========

Element: Cd Seq. No.: 48 AS Loc.: 22 Date: 12/03/2001
Sample ID: 01110414-01
µL dispensed: 17 from 0, 5 from 39, 3 from 5, 5 from 22

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 6.38 | 2.13 | 0.0981 | 0.1072 | 0.1100 | 0.0670 | 0.0445 | 08:24:53 |
| No | | | | | | | | |
| 2 | 6.52 | 2.17 | 0.1002 | 0.1093 | 0.1086 | 0.0635 | 0.0479 | 08:28:48 |
| No | | | | | | | | |
| Mean: | 6.45 | 2.15 | 0.0992 | | | | | |
| SD : | 0.096 | 0.032 | 0.0015 | | | | | |
| %RSD: | 1.50 | 1.50 | 1.50 | | | | | |

Recovery for Cd = 107.5 % within 85 % to 115 %

==========

Element: Cd Seq. No.: 49 AS Loc.: 23 Date: 12/03/2001
Sample ID: 01110414-01dup
µL dispensed: 10 from 0, 5 from 39, 15 from 23

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.19 | 0.19 | 0.0089 | 0.0179 | 0.0259 | 0.0532 | 0.0330 | 08:32:36 |
| No | | | | | | | | |
| 2 | 0.14 | 0.14 | 0.0065 | 0.0155 | 0.0303 | 0.0571 | 0.0369 | 08:36:19 |
| No | | | | | | | | |
| Mean: | 0.17 | 0.17 | 0.0077 | | | | | |
| SD : | 0.037 | 0.037 | 0.0017 | | | | | |
| %RSD: | 22.09 | 22.09 | 22.09 | | | | | |

01

==========

Element: Cd Seq. No.: 50 AS Loc.: 24 Date: 12/03/2001
Sample ID: 01110414-01ms X100
µL dispensed: 10 from 0, 5 from 39, 15 from 24

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 3.00 | 3.00 | 0.1385 | 0.1475 | 0.1955 | 0.0812 | 0.0648 | 08:40:03 No |
| 2 | 3.20 | 3.20 | 0.1474 | 0.1564 | 0.1819 | 0.0851 | 0.0714 | 08:43:46 No |
| Mean: | 3.10 | 3.10 | 0.1429 | | | | | |
| SD : | 0.136 | 0.136 | 0.0063 | | | | | |
| %RSD: | 4.39 | 4.39 | 4.39 | | | | | |

$\left(\frac{3.10 \times 100}{250}\right) 100 = 124\ \%$

Element: Cd Seq. No.: 51 AS Loc.: 25 Date: 12/03/2001
Sample ID: 01110414-01sd x5
µL dispensed: 10 from 0, 5 from 39, 15 from 25

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.15 | 0.15 | 0.0069 | 0.0160 | 0.0243 | 0.0566 | 0.0385 | 08:47:29 No |
| 2 | 0.15 | 0.15 | 0.0071 | 0.0161 | 0.0268 | 0.0527 | 0.0354 | 08:51:10 No |
| Mean: | 0.15 | 0.15 | 0.0070 | | | | | |
| SD : | 0.002 | 0.002 | 0.0001 | | | | | |
| %RSD: | 1.44 | 1.44 | 1.44 | | | | | |

ND

Element: Cd Seq. No.: 52 AS Loc.: 35 Date: 12/03/2001
Sample ID: ICB/CCB
µL dispensed: 10 from 0, 5 from 39, 15 from 35

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | -0.07 | -0.07 | -0.0034 | 0.0129 | 0.0296 | 0.0580 | 0.0407 | 08:54:52 No |
| 2 | -0.07 | -0.07 | -0.0033 | 0.0130 | 0.0286 | 0.0563 | 0.0446 | 08:58:36 No |
| Mean: | -0.07 | -0.07 | -0.0033 | | | | | |
| SD : | 0.001 | 0.001 | 0.0000 | | | | | |
| %RSD: | 1.26 | 1.26 | 1.26 | | | | | |

QC value within specified limits.

Element: Cd Seq. No.: 53 AS Loc.: 3 Date: 12/03/2001
Sample ID: CCV
µL dispensed: 10 from 0, 5 from 39, 15 from 3

| Repl # | SampleConc µg/L | StndConc µg/L | BlnkCorr Signal | Peak Area | Peak Height | Bkgnd Area | Bkgnd Height | Time Peak Stored |
|---|---|---|---|---|---|---|---|---|
| 1 | 2.17 | 2.17 | 0.1003 | 0.1166 | 0.1054 | 0.0642 | 0.0463 | 09:02:20 No |
| 2 | 2.14 | 2.14 | 0.0989 | 0.1152 | 0.1260 | 0.0640 | 0.0522 | 09:06:06 No |
| Mean: | 2.16 | 2.16 | 0.0996 | | | | | |

| | | | |
|---|---|---|---|
| SD : | 0.022 | 0.022 | 0.0010 |
| %RSD: | 1.01 | 1.01 | 1.01 |

QC value within specified limits.

120

# Section IV
# Metals Log Books

ESC LABORATORY

# METALS PREP LOGBOOK

ANALYST: SVD

DATE: 11/30/01

SOP . Aqueous- 30_3005A

Soil - 30_3050B

$HNO_3$ Reagent - AR#: 011127A

1:1 HCl Reagent- WR#: 011029A

1:1 $HNO_3$ Reagent- WR#: NA

$H_2O_2$ Reagent- AR#: NA

| Sample ID | matrix | pH | Initial wgt/vol | Final wgt/vol | QC ID/Lot # | QC wgt/vol | Method | Hot Plate Number | Temp. (°C) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 011130PBW | AQ | <2 | 50ml | 50ml | NA | NA | 3005 | HB#1 | 95 | |
| 011130LCSW | | | | | 011102STD | 0.25mL | | | | |
| 011130LCSWLL | | | | | W011130C | 1mL | | | | |
| 01110397·18 | | | | | NA | NA | | | | |
| 18Dup | | | | | NA | NA | | | | |
| 18MS | | | | | 011102STD | 0.25mL | | | | |
| 18MSLL | | | 50ml | | W011130C | 1mL | | | | |
| 01110400·01 | | | 5ml | | NA | NA | | | | |
| ·02 | | | 50ml | | | | | | | |
| 01110401·01 | | | 5ml | | | | | | | |
| ·02 | | | 50ml | | | | | | | |
| 01110402·01 | | | 5ml | | | | | | | |
| ·02 | | | 50ml | | | | | | | |
| 01110403·01 | | | 5ml | | | | | | | |
| ·02 | | | 50ml | | | | | | | |
| 01110406·01 | | | 50ml | | | | | | | |
| ·02 | AQ | <2 | 50ml | 50ml | NA | NA | 3005 | HB#1 | 95 | |

CONTROL# 30.0014-0108A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

# ESS LABORATORY
## METALS PREP LOGBOOK

ANALYST. SLD
DATE 11/30/01
SOP Aqueous- 30_3005A
Soil - 30_3050B

$HNO_3$ Reagent - AR#: 011127A
1:1 HCl Reagent- WR#: 011129A
1:1 $HNO_3$ Reagent- WR#: NA
$H_2O_2$ Reagent- AR#: NA

| Sample ID | matrix | pH | Initial wgt/vol | Final wgt/vol | QC ID/Lot # | QC wgt/vol | Method | Hot Plate Number | Temp. (°C) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 01110Y06-02Dup | AQ | <2 | 50 ml | 50 ml | NA | NA | 3005 | HB #1 | 95 | |
| -02MS | | | | | 011102 STD | 0.25 mL | | | | |
| -02MSD | | | | | W011130C | 1 mL | | | | |
| 01110369-01 | AQ | | | 50 ml | NA | NA | 3005 | HB#1 | 95 | |
| 01110397-01 | AQ | | 50 ml | 50 ml | NA | NA | 3005 | HB#1 | 95 | |
| 011130DISPBW | | | | | | | | | | |
| 01110408-01DS | | | | | | | | | | |
| -02DS | | | | | | | | | | |
| -03DS | | | | | | | | | | |
| 01110414-02 | | | | | | | | | | |
| -03 | | | | | | | | | | |
| -04 | | | | | | | | | | |
| -05 | | | | | | | | | | |
| 011130PBW2 | | | | | NA | NA | | | | |
| LCSW2 | | | | | 011130C1 ~~W011130C~~ 011102STD | 0.25 | | | | |
| 01110414-06 | | | | | NA | NA | | | | |
| -07 | AQ | CL | 50 m | 50 m | NA | NA | 3005 | HB#1 | 95 | |

CONTROL# 30.0014-0108A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

# ESS LABORATORY

## METALS PREP LOGBOOK

ANALYST. MM (CMT)

DATE:

SOP Aqueous- 30_3005A

Soil - 30_3050B

$HNO_3$ Reagent - AR# :

1:1 HCl Reagent- WR#:

1:1 $HNO_3$ Reagent- WR#:

$H_2O_2$ Reagent- AR#:

| Sample ID | matrix | pH | Initial wgt/vol | Final wgt/vol | QC ID/Lot # | QC wgt/vol | Method | Hot Plate Number | Temp. (°C) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 01110414-05 | AQ | CL | 50.0m | 50.0mL | NA | NA | 3005 | HBH1 | 95 | |
| -01 | | | | | | | | | | |
| -01DUP | | | | | NA | NA | | | | |
| -01MS | AQ | CL | 50.0m | 50.0m | ~~[illegible]~~ 01110250) M 113401 | 0.25 | 3005 | HBH1 | 95 | |
| | | | | | | N | | | | |
| | | | | | | A | | | | |

CONTROL# 30.0014-0108A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

# ESS LABORATORY
# ICP II TRAY SEQUENCE LOGBOOK

STD 0/ICCB ID: WR 011058D
STD1 ID: ~~W011130A~~ ~~W011130F~~ WR 11/30/11 MS 11/30/11 W011130A
STD2 ID: W011130B
STD3 ID: W011130C

ICSAB ID: W011130F
ICSA ID: W011130E
ICCV ID: W011130D
WASH ID: WR011058D
IS ID: W011130E

| # | SAMPLE | # | SAMPLE | # | SAMPLE | # | SAMPLE |
|---|---|---|---|---|---|---|---|
| 1 | STD 0/ICCB | 31 | 01110369-01 | 61 | | 91 | |
| 2 | STD 1 | 32 | 01110399-01 | 62 | | 92 | |
| 3 | STD 2 | 33 | 011130DIS PBW | 63 | | 93 | |
| 4 | STD 3 | 34 | 01110408-01 MS | 64 | | 94 | |
| 5 | ICCV | 35 | -02 MS | 65 | | 95 | |
| 6 | CRI 1 | 36 | -03MS | 66 | | 96 | |
| 7 | CRI 2 | 37 | 01110417-02 | 67 | | 97 | |
| 8 | CRI 3 | 38 | -03 | 68 | | 98 | |
| 9 | 011130PBW | 39 | -04 | 69 | | 99 | |
| 10 | LCSW | 40 | -05 | 70 | | 100 | |
| 11 | FILBLK | 41 | 011130PBW2 | 71 | | 101 | |
| 12 | 01110397-18 | 42 | LCSW2 | 72 | | 102 | |
| 13 | -18DUP | 43 | 01110417-01 | 73 | | 103 | |
| 14 | -18MS | 44 | -01DUP | 74 | | 104 | |
| 15 | -18SDILF | 45 | -01MS | 75 | | 105 | ICSAB |
| 16 | -18PDS | 46 | -01SDILF | 76 | | 106 | ICSA |
| 17 | 01110400-01 | 47 | -01PDS | 77 | | | |
| 18 | -02 | 48 | -06 | 78 | | | |
| 19 | 01110401-01 ~~01110402-01~~ MS 11/30/11 | 49 | -07 | 79 | | | |
| 20 | -02 | 50 | -08 | 80 | | | |
| 21 | 01110402-01 | 51 | 01110359-01 X10 | 81 | | | |
| 22 | -02 | 52 | | 82 | | | |
| 23 | 01110403-01 | 53 | | 83 | | | |
| 24 | -02 | 54 | | 84 | | | |
| 25 | 01110406-01 | 55 | | 85 | | | |
| 26 | -02 | 56 | | 86 | | | |
| 27 | -02DUP | 57 | | 87 | | | |
| 28 | -02MS | 58 | | 88 | | | |
| 29 | -02SDILF | 59 | | 89 | | | |
| 30 | -02PDS | 60 | | 90 | | | |

SIF: 113001xa
RDS: 113001xal
METHOD: Everything X
METHOD: MA
ANALYST: KAB
DATE: 11/30/11

CRI 1 = 25mL Std 1 + 25mL ICP Solution = 50mL / Intl. KAB
CRI 2 = 10mL Std. 1 + 40mL ICP Solution = 50mL / Intl. KAB
CRI 3 = 5mL Std 1 + 45mL ICP Solution = 50mL / Intl. KAB

CONTROL# 30.0006-0105A

Page_____

ESS Laboratory | Graphite Furnace | Run Logbook

| | |
|---|---|
| DATE: | |
| ANALYTE: | METHODS: |
| ANALYST: | |
| STD ID: | |
| ICV ID: | |
| BLK/ICCB ID: | |
| SIF: | |
| RDS: | |

| | |
|---|---|
| DATE: | 12/3/01 |
| ANALYTE: Cd | METHODS: Cd 0.5 |
| ANALYST: | SUD |
| STD ID: | W011203 C |
| ICV ID: | W011203 D |
| BLK/ICCB ID: | WR011126D |
| SIF: | 120301 ZA |
| RDS: | 120301 ZAD |

| # | SAMPLE ID | DIL | ELEMENTS | # | SAMPLE ID | DIL | ELEMENTS |
|---|---|---|---|---|---|---|---|
| 1 | STD 5 | 0.05\10 | | 1 | STD 5 | 0.05\10 | Cd |
| 2 | STD 10 | 0.10\10 | | 2 | STD 10 | 0.10\10 | |
| 3 | STD 25 | 0.25\10 | | 3 | STD 25 | 0.25\10 | |
| 4 | STD 50 | 0.50\10 | | 4 | STD 50 | 0.50\10 | |
| 5 | STD100 | 1.0\10 | | 5 | STD100 | 1.0\10 | |
| 6 | ICV | 0.50\10 | | 6 | ICV | 0.50\10 | |
| 7 | 011130PBW | | | 7 | 011130PBW | | |
| 8 | 011130LCSW cd X | | | 8 | 011130LCSW LL ~~X5~~ SUD 12/4/01 | SUD 12/4/01 ~~1/8~~ 1/5 | |
| 9 | 01110406·02 | | | 9 | 01110406·02 | | |
| 10 | ·02Dup | | | 10 | ·02Dup | | |
| 11 | ·02 MSLL X | | | 11 | ·02 MSLL X5 ~~X5~~ SUD 12/4/01 | SUD 12/4/01 ~~1/8~~ 1/5 | |
| 12 | ·02 SD X5 | 2/10 | | 12 | 01110406 ·02SD X5 | 2/10 | |
| 13 | 01110414·02 | | | 13 | 01110414·02 | | |
| 14 | ·03 | | | 14 | ·03 | | |
| 15 | ·04 | | | 15 | ·04 | | |
| 16 | 011130PBW2 | | | 16 | 01110414 ·05 | | |
| 17 | 011130LCSW2 LL X | | | 17 | 011130PBW2 | | |
| 18 | 01110414·06 | | | 18 | 011130LCSW2 ~~X2 X100 X5~~ SUD 12/4/01 | SUD 12/4/01 ~~1/8~~ SUD 12/4/01 ~~X5~~ | |
| 19 | ·07 | | | 19 | 01110414 ·06 | | |
| 20 | ·08 | | | 20 | ·07 | | |
| 21 | ·01 | | | 21 | ·08 | | |
| 22 | ·01Dup | | | 22 | ·01 | | |
| 23 | ·01MSLL X | | | 23 | ·01Dup | | |
| 24 | ·01SD X5 | 2/10 | | 24 | ·01 MSLL ~~X5 X100~~ SUD 12/4/01 | SUD 12/4/01 ~~1/8~~ SUD 12/4/01 ~~X5~~ | |
| 25 | | | | 25 | 01110414 ·01SD X5 | 2/10 | Cd |
| 26 | | | | 26 | | | |
| 27 | | | | 27 | | | |
| 28 | | | | 28 | | | |
| 29 | | | | 29 | | | |
| 30 | | | | 30 | | | |
| 31 | | | | 31 | | | |
| 32 | | | | 32 | | | |
| 33 | | | | 33 | | | |
| 34 | | | | 34 | | | |
| 35 | Blank | | Cd | 35 | Blank | | Cd |
| 36 | NA/Modifier: | | | 36 | NA/Modifier: | | |
| 37 | | | | 37 | | | |
| 38 | | | | 38 | | | |
| 39 | NA/Modifier: | WR011023A | Cd | 39 | NA/Modifier: | WR011023A | Cd |
| 40 | CRA 2-0 / NA | | Cd | 40 | CRA 2-0 / NA | | Cd |

CONTROL# 30.0003-0102A

Page

# ESS LABORATORY
# METALS WORKING STANDARDS LOGBOOK

| Prep Date | Secondary ID | Type of Working STD | Primary Lab ID | Primary Expiration Date | Amount Added | Final Volume | Final Conc. | Diluent | Diluent ID | Secondary Expiration Date | Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11/28/01 | W011128D | ICV | 010327ICCVA | 9/15/02 | 0.5m | 100m | NA | ICP | WR011126D | NA | M |
| 11/28/01 | W011128D | ICV | 010327ICCVB | 9/15/02 | 0.5m | 100m | NA | ICP | WR011126D | NA | M |
| 11/29/01 | W011129A ~~W011128~~ M 11/29/01 | STD1 | 011102STD | 10/02 | 0.2m | 200m | NA | ICP | WR011126D ~~WR011126D~~ 11/29/01 | NA | M |
| 11/29/01 | W011129B | STD2 | | | 1.0m | 200m | | | WR011126D | | |
| 11/29/01 | W011129C | STD3 | 011102STD | 10/02 | 1.0m | 100m | | | | | |
| 11/29/01 | W011129D | ICV | 010327ICCVA | 9/15/02 | 0.5m | | | | | | |
| 11/29/01 | W011129D | ICV | 010327ICCVB | 9/15/02 | 0.5m | 100m | NA | ICP | WR011126D | NA | M |
| 11/30/01 | W011130A ~~W011130~~ MS 11/30/01 | STD1 | 011102STD | 10/02 | 0.2-1 | 200-1 | m | ICP 50m | WR011128D | NA | KAB |
| | W011130B | STD2 | | | 1.0-1 | 200-1 | | | | | |
| | W011130C | STD3 | 011102STD | 10/02 | 1.0-1 | 100-1 | | | | | |
| | W011130D | ICV | 010327ICCVA | 9/15/02 | 0.5-1 | 100-1 | | | | | |
| 11/30/01 | | | 010327ICCVB | 9/15/02 | 0.5-1 | | m | 100m | WR011128D | NA | KAB |
| 11/30/01 | W011130E | YSS | 010203Y | 7/16/02 | 5-0-1 | 1-0L | 5ppm | ICP 50m | WR011128D | 3/1/02 | KAB |
| 12/3/01 | W011203A | STD1 | 011102STD | 10/02 | 0.2m | 200mL | NA | ICP | WR011128D | NA | M |
| | W011203B | STD2 | 011102STD | | 1.0m | 200mL | | | | | |
| 12/3/01 | W011203C | STD3 | 011102STD | 10/02 | 1.0m | 100mL | NA | ICP | WR011128D | NA | M |

1. All containers must be labeled with secondary ID, concentration, initials and expiration date.
2. Specify all units of measure 1mL=1000uL 1ug/L=1 ng/mL

CONTROL# 30.0019-0104A

Page _____

# ESS LABORATORY
# METALS WORKING STANDARDS LOGBOOK

| Prep Date | Secondary ID | Type of Working STD | Primary Lab ID | Primary Expiration Date | Amount Added | Final Volume | Final Conc. | Diluent | Diluent ID | Secondary Expiration Date | Initials |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12/3/01 | W011203D | ICV | 010327ICLUA | 5/15/02 | 0.5ML | 100ML | NA | ICP | WR011128D | NA | MM |
| 12/3/01 | W011203D | ICV | 010327ICCUB | 5/15/02 | 0.5ML | 100ML | NA | ICP | WR011128D | NA | MM |
| | | | | | | | | | | | |
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1. All containers must be labeled with secondary ID, concentration, initials and expiration date.
2. Specify all units of measure 1mL=1000uL 1ug/L=1 ng/mL

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Page _____

Attachment B
SOP 10_0001

## Sample and Cooler Receipt Checklist

Client: Ed Eng

ESS Project ID: 61110416

Client Project ID:

Date Project Due:

Shipped/Delivered Via: (circle one) **Fed Ex** **UPS** **ESS Courier** **Client** **Other**

**Items to be checked upon receipt:**

| | Yes | No | N/A |
|---|---|---|---|
| 1.Airbill/Manifest present? | | ✓ | |
| Air No.: | | | |
| 2.Were custody seals present? | | ✓ | |
| 3.Were custody seals intact? | | | ✓ |
| 4.Is radiation count < 100 CPM? | ✓ | | |
| 5.Is a cooler present? | | | |
| Cooler Temp: 3.4 | | | |
| Iced With: (circle one) Ice , Ice Pack, None | | | |
| 6.Was COC included with samples? | ✓ | | |
| 7.Was COC signed and dated by client? | ✓ | | |
| 8.Does the COC match sample labels? | ✓ | | |
| 9. Is COC complete and correct? | ✓ | | |

| | Yes | No | N/A |
|---|---|---|---|
| 10. Are samples properly preserved? | ✓ | | |
| 11. Proper sample containers used? | ✓ | | |
| 12. Any air bubbles in the voa vials? | | | ✓ |
| 13. Holding times exceeded? | | ✓ | |
| 14. Sufficient sample volumes? | ✓ | | |
| 15. Any Subcontracting needed? | | ✓ | |
| 16.Are ESS labels on correct containers? | ✓ | | |
| 17. Were samples received intact? | ✓ | | |

ESS Sample IDs:

Sub Lab:

Analysis:

TAT:

16. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?:

By Whom?

| Sample ID | Analysis | pH | | | Preservative added/Volume(ml) | Final pH |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Completed by: [signature] Date/Time: 11/30/01

Reviewed by: [signature] Date/Time: 11/30/01 11:30 AM

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.thielsch.com

# CHAIN OF CUSTODY

Page 1 of 1

Turn Time ___ Standard (2 Weeks) Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA RI CT NH NJ NY (ME) USACE Other _____

Electronic Deliverables ___ Yes ___ No
Formats _____

ESS LAB PROJECT ID 01110414
Special Detection Limits

| Co. Name | Project # | Project Name (20 Char. or less) |
|---|---|---|
| EA Engineering, Science, | 29600.82 | NASB Site 07 |

| Contact Person | Address |
|---|---|
| Al Easterday | 175 Middlesex Trnpk Ste 301 |

| City | State | Zip | PO# |
|---|---|---|---|
| Bedford | MA | 01730 | |

| Telephone # | Fax # | Email Address |
|---|---|---|
| (781) 275-8846 | (781) 275-7253 | aeasterd@eaest.com |

| ESS LAB Sample# | Date | Collection Time | COMP | GRAB | MATRIX | Sample Identification (20 Char. or less) | Number of Containers | Type of Containers | Analysis Required: Cd (Total) 6010 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 11/28/01 | 1520 | | X | GW | BN-S7-MW092 MS/MSD | 3 | P | X | | | | | | | | | | | | |
| 2 | 11/28/01 | 1140 | | X | GW | BN-S7-MW095 | 1 | P | X | | | | | | | | | | | | |
| 3 | 11/28/01 | 1145 | | X | GW | BN-S7-MW099 | 1 | P | X | | | | | | | | | | | | |
| 4 | 11/28/01 | 1505 | | X | GW | BN-S7-MW228 | 1 | P | X | | | | | | | | | | | | |
| 5 | 11/28/01 | — | | X | GW | BN-S7-DUP1 | 1 | P | X | | | | | | | | | | | | |
| 6 | 11/29/01 | 1050 | | X | GW | BN-S7-MW091 | 1 | P | X | | | | | | | | | | | | |
| 7 | 11/29/01 | 1200 | | X | GW | BN-S7-MW093 | 1 | P | X | | | | | | | | | | | | |
| 8 | 11/29/01 | 1035 | | X | GW | BN-S7-MW096 | 1 | P | X | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 3.4°C

Internal Use Only
[ ✓ ] Pickup
[ ] Technicians _____

Comments:

| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|---|---|
| Jim Amlanett | 11/30/01 0900 | [signature] | 11/30/01 0920 | [signature] | 11/30/01 0950 | [signature] | 11/30/01 1115 |
| Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Date/Time | Received by: (Signature) | Date/Time |
| | | | | | | | |

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt