US EPA RECORDS CENTER REGION 5

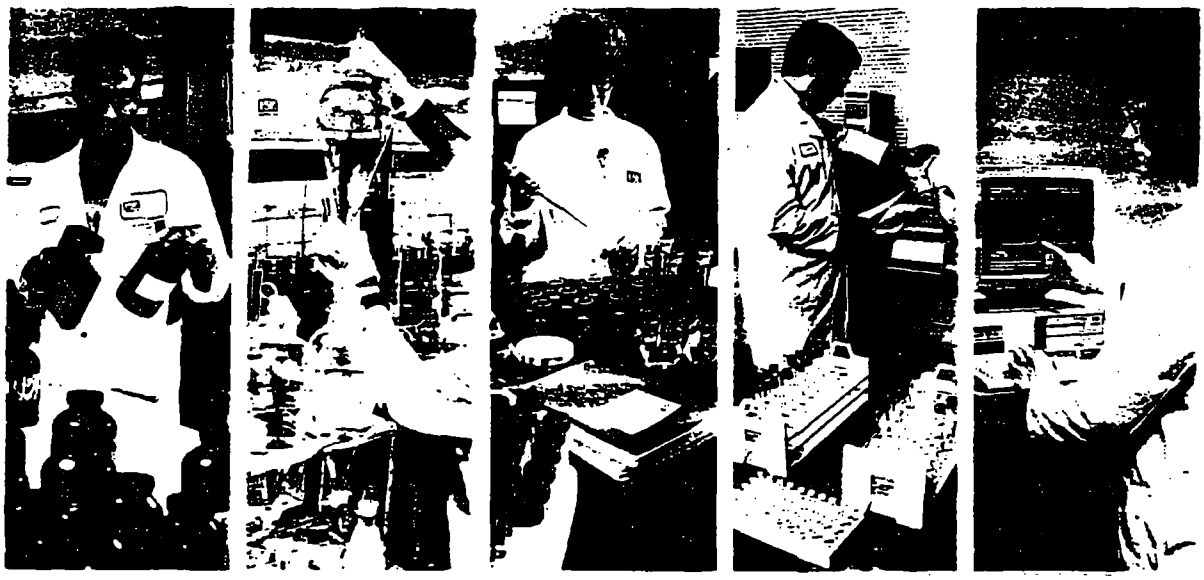
1000736

# ANALYTICAL DATA REPORT

submitted to

## TECHLAW

SDG TL.7



July 10, 1998

QST

Gainesville, Florida Laboratory

# RESULTS OF ANALYSIS

Techlaw Project #
R05-020
CIHI/Brick Project

Prepared for:
TECHLAW
122 East 42nd Street
Suite 2200
New York, NY 10168

Prepared by:
QST Environmental Inc.
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July 10, 1998

QST Lab Project No. 1298522V L204

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# Case Narrative

QST ENVIRONMENTAL

**CASE NARRATIVE - SDG TL.7**

Sixty-Five soil and fourteen water samples were collected on May 28 and 29, 1998. All samples were received at QST Environmental on June 2, 1998 at 3 degrees Centigrade. All samples were analyzed as requested in the traffic forms. All samples were extracted and analyzed within EPA holding time.

**TECHLAW**

| Analysis | Lab Batch |
|---|---|
| ICAP Metals (6010) | G91185 |
| ICAP Metals (6010) | G91184 |
| Mercury (7471) | G91286 |
| Mercury (7470) | G91043 |

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness except as detailed in this case narrative.

July 10, 1998

QST ENVIRONMENTAL

Andrew G. Weitz
Chemistry Project Manager

P.O. Box 1703, Gainesville, FL 32602-1703, Phone 352•332•3318, FAX 352•333•6622
A CILCORP COMPANY
Formerly Environmental Science & Engineering, Inc.

# Sample History Report

Lab Sample Cross Reference and Date Report

| Client ID | Lab ID | Method | Collect Date | Receipt Date | Extract Date | HT Days | Analysis Date | HT Days | Batch |
|---|---|---|---|---|---|---|---|---|---|
| ZO-001 | TBRKS1*17 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| ZO-001 | TBRKS1*17 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| ZO-101 | TBRKS1*18 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| ZO-101 | TBRKS1*18 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| ZO-002 | TBRKS1*19 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| ZO-002 | TBRKS1*19 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| ZO-003 | TBRKS1*20 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| ZO-003 | TBRKS1*20 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| ZO-004 | TBRKS1*21 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| ZO-004 | TBRKS1*21 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| SD-001 | TBRKS1*22 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-001 | TBRKS1*22 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-101 | TBRKS1*23 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-101 | TBRKS1*23 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-002 | TBRKS1*24 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-002 | TBRKS1*24 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-003 | TBRKS1*25 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-003 | TBRKS1*25 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-008 | TBRKS1*26 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-008 | TBRKS1*26 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| BK-001 | TBRKS1*30 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| BK-001 | TBRKS1*30 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| BK-002 | TBRKS1*31 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| BK-002 | TBRKS1*31 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| BK-003 | TBRKS1*32 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/18/98 | 0(20) | G91185 |
| BK-003 | TBRKS1*32 | Mercury(7471) | 05/29/98 | 06/02/98 | NA | NA | 06/23/98 | 28(25) | G91286 |
| SS-009 | TBRKS1*33 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-009 | TBRKS1*33 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-010 | TBRKS1*34 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-010 | TBRKS1*34 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-011 | TBRKS1*35 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-011 | TBRKS1*35 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-111 | TBRKS1*36 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-111 | TBRKS1*36 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-012 | TBRKS1*37 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-012 | TBRKS1*37 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-013 | TBRKS1*38 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-013 | TBRKS1*38 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-006 | TBRKS1*53 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-006 | TBRKS1*53 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-007 | TBRKS1*54 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-007 | TBRKS1*54 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-001 | TBRKS1*55 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-001 | TBRKS1*55 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-101 | TBRKS1*56 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-101 | TBRKS1*56 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-002 | TBRKS1*57 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-002 | TBRKS1*57 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-003 | TBRKS1*58 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-003 | TBRKS1*58 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-004 | TBRKS1*59 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-004 | TBRKS1*59 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-005 | TBRKS1*60 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-005 | TBRKS1*60 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-006 | TBRKS1*61 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-006 | TBRKS1*61 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-007 | TBRKS1*62 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-007 | TBRKS1*62 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SS-008 | TBRKS1*63 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SS-008 | TBRKS1*63 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-004 | TBRKS1*64 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-004 | TBRKS1*64 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SD-005 | TBRKS1*65 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/18/98 | 0(21) | G91185 |
| SD-005 | TBRKS1*65 | Mercury(7471) | 05/28/98 | 06/02/98 | NA | NA | 06/23/98 | 28(26) | G91286 |
| SW-001 | TBRKW1*1 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-001 | TBRKW1*1 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-101 | TBRKW1*2 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-101 | TBRKW1*2 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-002 | TBRKW1*3 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-002 | TBRKW1*3 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-003 | TBRKW1*4 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-003 | TBRKW1*4 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-008 | TBRKW1*5 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-008 | TBRKW1*5 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-006 | TBRKW1*6 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-006 | TBRKW1*6 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SD-306 | TBRKW1*7 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SD-306 | TBRKW1*7 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-007 | TBRKW1*8 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-007 | TBRKW1*8 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SL-301 | TBRKW1*9 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/16/98 | 180(18) | G91184 |
| SL-301 | TBRKW1*9 | Mercury(7470) | 05/29/98 | 06/02/98 | NA | NA | 06/09/98 | 28(11) | G91043 |
| SL-311 | TBRKW1*10 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/16/98 | 180(18) | G91184 |
| SL-311 | TBRKW1*10 | Mercury(7470) | 05/29/98 | 06/02/98 | NA | NA | 06/09/98 | 28(11) | G91043 |
| SS-301 | TBRKW1*11 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/16/98 | 180(18) | G91184 |
| SS-301 | TBRKW1*11 | Mercury(7470) | 05/29/98 | 06/02/98 | NA | NA | 06/09/98 | 28(11) | G91043 |
| SW-004 | TBRKW1*12 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-004 | TBRKW1*12 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SW-005 | TBRKW1*13 | ICAP Metals(6010) | 05/28/98 | 06/02/98 | NA | NA | 06/16/98 | 180(19) | G91184 |
| SW-005 | TBRKW1*13 | Mercury(7470) | 05/28/98 | 06/02/98 | NA | NA | 06/09/98 | 28(12) | G91043 |
| SS-311 | TBRKW1*14 | ICAP Metals(6010) | 05/29/98 | 06/02/98 | NA | NA | 06/16/98 | 180(18) | G91184 |
| SS-311 | TBRKW1*14 | Mercury(7470) | 05/29/98 | 06/02/98 | NA | NA | 06/09/98 | 28(11) | G91043 |

Actual days in parentheses

G91185: ICAP Metals

GENERAL COMMENTS:

PROBLEM:
Sample matrix spike not within acceptance criteria:
AG
CD
CR
PB
SE

EXPLANATION:
AG - SAMPLE CONC. >4Xs SPIKE CONC.
CD " " " " "
CR " " " " "
PB " " " " "
SE - POSSIBLE MATRIX EFFECT PRESENT.

PROBLEM:
Sample matrix spike duplicate not within acceptance criteria:
CD
CR
PB
SE

EXPLANATION: SAME AS ABOVE.

PROBLEM:
Analytical spike not within acceptance criteria:
CD
PB

EXPLANATION: SAMPLE CONC. >4Xs SPIKE CONC.

G91184: ICAP Metals

PROBLEM:
Standard matrix spike not within acceptance criteria:
AG

EXPLANATION: RECOVERY HIGH DUE TO POSSIBLE SPIKING ERROR. SEPARATE SOLUTION. RECOVERY OUTSIDE OF HISTORICAL @ 116.2%.

G91286: Mercury

PROBLEM:
Sample matrix spike duplicate not within acceptance criteria:
71921*7471-G

EXPLANATION: LACK OF SAMPLE HOMOGENEITY.

# Chains of Custody (copies)

TechLaw KRH 6/1/98

A.T. KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11101

| | | | | |
|---|---|---|---|---|
| Project Code: R05-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: Doug Updike, Kevin Higgins | 1) Sample description (Enter in column A) | 2) Preservatives (Enter in column B) |
| Project (site) Name: CIHI | | | 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Rinsate<br>5. Soil/Sediment<br>6. Oil<br>7. Waste<br>8. Other (specify) | 1. HCl<br>2. $HNO_3$<br>3. $NaHSO_4$<br>4. $H_2SO_4$<br>5. NaOH<br>6. Other (specify)<br>7. Ice only<br>N. Not preserved |
| City, State, Zip Code | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | | |
| Date Shipped: 6/1/98 | Air Bill Number: 8059744432 76 | | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: TCLP Metals | TBRKS1 | TBRKS2 | MS/MSD | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|
| RB-001 | 7 | 7 | G | 1 | 5/29/98, 14:30 | ✓ | | | *1 | 5-176917 |
| RB-002 | 7 | 7 | G | 1 | 5/29/98, 14:35 | ✓ | | | *2 | 5-176918 |
| RB-003 | 7 | 7 | G | 1 | 5/29/98, 14:40 | ✓ | | | *3 | 5-176919 |
| RB-004 | 7 | 7 | G | 1 | 5/29/98, 14:45 | ✓ | | | *4 | 5-176920 |
| RB-005 | 7 | 7 | G | 1 | 5/29/98, 14:50 | ✓ | | | *5 | 5-176921 |
| RB-006 | 7 | 7 | G | 1 | 5/29/98, 15:05 | ✓ | | | *6 | 5-176922 |

KRH 6/1/98

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 18:00 | 6/1/98 | Jerry Long QST | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |

Remarks: Cooler temp = 3°C

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 1 of 1

NN 6/3/98 18:30

A.T. Kearney 1/3907/1 TR

0007

Tech Law 6/1/98 KRH

A.T. KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11109

| | | | |
|---|---|---|---|
| Project Code: R05-020 | Samples Shipped To: QST Environmental, 404 SW. 104th Terrace, Newberry, FL 32669 | Samplers Names: Kevin Higgins, Doug Updike | 1) Sample description (Enter in column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Rinsate, 5. Soil/Sediment, 6. Oil, 7. Waste, 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl, 2. $HNO_3$, 3. Na $HSO_4$, 4. $H_2SO_4$, 5. Na OH, 6. Other (specify), 7. Ice only, N. Not preserved |
| City, State, Zip Code | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | |
| Date Shipped: 6/1/98 | Air Bill Number: 805974443276 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | TCLP Metals | | | | | | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | TBRK51 | | | | | | |
| SL-003 | 7 | 7 | G | 1 | 5/28/98, 17:30 | | ✓ | TBRK52 | | | | | *7 | 5-176895 |
| SL-004 | 7 | 7 | G | 1 | 5/28/98, 17:45 | | ✓ | | | | | | *8 | 5-176896 |
| SL-005 | 7 | 7 | G | 1 | 5/28/98, 17:45 | | ✓ | | | | | | *9 | 5-176898 |
| SL-006 | 7 | 7 | G | 1 | 5/29/98, 12:03 | | ✓ | | | | | | *10 | 5-176899 |
| SL-007 | 7 | 7 | G | 1 | 5/29/98, 10:46 | | ✓ | | | | | *11 | ~~*10~~ | 5-176897 |
| SL-008 | 7 | 7 | G | 1 | 5/29/98, 11:06 | | ✓ | | | | | | *12 | 5-176900 |
| SL-009 | 7 | 7 | G | 1 | 5/29/98, 12:42 | | ✓ | | | | | | *13 | 5-176901 |
| SL-010 | 7 | 7 | G | 1 | 5/29/98, 12:48 | | ✓ | | | | | | *14 | 5-176902 |
| SL-011 | 7 | 7 | G | 3 | 5/29/98, 12:30 | | ✓ | | | | MS/MSD | | *15 | MS/MSD: 5-176905, 5-176904, 5-176903 |
| SL-111 | 7 | 7 | G | 1 | 5/29/98, 12:30 | | ✓ | | | | | | *16 | 5-176906 |

KRH 6/1/98

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 13:15 | 6/1/98 | [illegible] QST | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Cooler temp = 4°C

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

NP 6/3/98 18:35



A.T. Kearney 1/3907/1 TR

0008

Tech Law 6/1/98 KRH

**A.T. KEARNEY**

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11099

| | | | |
|---|---|---|---|
| Project Code: R05-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: Kevin Higgins | 1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl 2. $HNO_3$ 3. $NaHSO_4$ 4. $H_2SO_4$ 5. NaOH 6. Other (specify) 7. Ice only N. Not preserved |
| City, State, Zip Code: | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | |
| Date Shipped: 6/1/98 | Air Bill Number: 805974443276 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | Analysis: TCLP Metals | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|
| TBRKS1 | | | | | | | | | |
| ZO-001 MS/MSD 17 | 7 | 7 | G | 3 | 5/29/98, 09:50 | ✓ | ✓ | SL=TBRKS1.1 | MS/MSD: 5-176963, 5-176961, 5-176962 |
| ZO-101 18 | 7 | 7 | G | 1 | 5/29/98, 09:50 | ✓ | ✓ | ↓ | 5-176964 |
| ZO-002 19 | 7 | 7 | G | 1 | 5/29/98, 09:50 | ✓ | ✓ | ↓ | 5-176965 |
| ZO-003 20 | 7 | 7 | G | 1 | 5/29/98, 9:45 | ✓ | ✓ | ↓ | 5-176966 |
| ZO-004 21 | 7 | 7 | G | 1 | 5/29/98, 9:55 | ✓ | ✓ | ↓ | 5-176967 |
| ~~ZO-005~~ | ~~7~~ | ~~7~~ | ~~G~~ | ~~1~~ | ~~5/29/98,~~ | ~~✓~~ | ~~✓~~ | | ~~5-176968~~ KRH |
| SD-001 MS/MSD 22 | 5 | 7 | G | 3 | 5/28/98, 10:40 | ✓ | | TBRKS1.2 | MS/MSD: 5-176969, 5-176970, 5-176968 |
| SD-101 23 | 5 | 7 | G | 1 | 5/28/98, 10:40 | ✓ | | ↓ | 5-176971 |
| SD-002 24 | 5 | 7 | G | 1 | 5/28/98, 11:20 | ✓ | | ↓ | 5-176972 |
| SD-003 25 | 5 | 7 | G | 1 | 5/28/98, 12:15 | ✓ | | ↓ | 5-176973 |
| SD-008 26 | 5 | 7 | G | 1 | 5/28/98, 18:55 | ✓ | | ↓ | 5-176974 |
| SL-001 MS/MSD 27 | 7 | 7 | G | 3 | 5/28/98, 17:07 | | ✓ | TBRKS1 | MS/MSD: 5-176893, 5-176891, 5-176890 |
| SL-101 28 | 7 | 7 | G | 1 | 5/28/98, 17:07 | | ✓ | ↓ | 5-176892 |
| SL-002 29 | 7 | 7 | G | 1 | 5/28/98, 17:19 | | ✓ | ↓ | 5-176894 |

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 18:00 | 6/1/98 | [signature] QST | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Perform RCRA Metals and RCRA TCLP Metals Analyses on all "ZO" samples

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc. Cooler Temp = 4°C
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

NM 6/3/98 18:40



A.T. Kearney 1/3907/1 TR

6000

Techlaw 6/1/98

KRH

A.T. KEARNEY

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11104

| | | | |
|---|---|---|---|
| Project Code: R05-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: Kevin Higgins, Doug Updike | 1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl 2. $HNO_3$ 3. $NaHSO_4$ 4. $H_2SO_4$ 5. NaOH 6. Other (specify) 7. Ice only N. Not preserved |
| City, State, Zip Code: | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | |
| Date Shipped: 6/1/98 | Air Bill Number: 805974443276 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | Analysis: TCLP Metals | | | | | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TBRKS1 | | | | | | | | | | | | | |
| BK-001 *30 | 5 | 7 | G | 1 | 5/28/98, 11:40 | ✓ | | | TBRKS1-2 | | | | KRH ~~MS/MSD~~ 5-176944, |
| BK-002 31 | 5 | 7 | G | 1 | 5/29/98, 16:10 | ✓ | | | | | | | 5-176945 |
| BK-003 32 | 5 | 7 | G | 1 | 5/29/98, 16:25 | ✓ | | | | | | | 5-176946 |
| SS-009 33 | 5 | 7 | G | 1 | 5/28/98, 18:25 | ✓ | | | | | | | 5-176947 |
| SS-010 34 | 5 | 7 | G | 1 | 5/28/98, 18:30 | ✓ | | | | | | | 5-176948 |
| SS-011 MS/MSD 35 | 5 | 7 | G | ~~3~~ KRH 2 | 5/28/98, 18:35 | ✓ | | | | | | | 5-176949, 5-176950 MS/MSD |
| SS-~~0~~ KRH 111 36 | 5 | 7 | G | 1 | 5/28/98, 18:35 | ✓ | | | | | | | 5-176951 |
| SS-012 37 | 5 | 7 | G | 1 | 5/28/98, 18:55 | ✓ | | | | | | 6/2/98 | 5-176952 |
| SS-013 38 | 5 | 7 | G | 1 | 5/28/98, 19:02 | ✓ | | | | | | | 5-176953 |
| BD-001 MS/MSD 39 | 7 | 7 | G | 3 | 5/29/98, 10:25 | ~~KRH~~ | ✓ | | TBRKS1 | | ~~TBRKS1~~ | | 5-176954, 5-176956, 5-176955, MS/MSD |
| BD-101 40 | 7 | 7 | G | 1 | 5/29/98, 10:25 | | ✓ | | | | | | 5-176957 |
| BD-002 41 | 7 | 7 | G | 1 | 5/29/98, 10:15 | | ✓ | | | | | | 5-176958 |
| BD-003 42 | 7 | 7 | G | 1 | 5/29/98, 10:45 | | ✓ | | | | | | 5-176959 |
| BD-004 43 | 7 | 7 | G | 1 | 5/29/98, 10:55 | | ✓ | | | | | | 5-176960 |

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 18:00 | 6/1/98 | [signature] QST | 2000 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Archive all "SS" samples after performing RCRA Metals Analysis

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc. Cooler Temp = 4°C
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 1 of 3

[initials] 6/3/98 18:45

A.T. Kearney 1/3907/1 TR

00010

Techlaw KRH 6/1/98

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11103

| | | | |
|---|---|---|---|
| Project Code: R05-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: Kevin Higgins | 1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl 2. $HNO_3$ 3. $NaHSO_4$ 4. $H_2SO_4$ 5. NaOH 6. Other (specify) 7. Ice only N. Not preserved |
| City, State, Zip Code: | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | |
| Date Shipped: 6/1/98 | Air Bill Number: 805774443276 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | Analysis: TCLP Metals | | | | | | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-012 TBRKS1 ~~*14~~ ~~*30~~ | 7 | 7 | G | 1 | 5/29/98, 12:25 | | ✓ | TBRKS1 | | | | | | 5-176908 |
| SL-013 *45 ~~31~~ | 7 | 7 | G | 1 | 5/29/98, 12:14 | | ✓ | | | | | | | 5-176909 |
| SL-014 *46 ~~3~~ | 7 | 7 | G | 1 | 5/29/98, 12:13 | | ✓ | | | | | | | 5-176910 |
| SL-015 *47 | 7 | 7 | G | 1 | 5/29/98, 10:57 | | ✓ | | | | | | | 5-176911 |
| SL-016 *48 | 7 | 7 | G | 1 | 5/29/98, 11:15 | | ✓ | | | | | | | 5-176912 |
| SL-017 *49 | 7 | 7 | G | 1 | 5/29/98, 11:23 | | ✓ | | | | | | | 5-176913 |
| SL-018 *50 | 7 | 7 | G | 1 | 5/29/98, 11:48 | | ✓ | | | | | | | 5-176914 |
| SL-019 *51 | 7 | 7 | G | 1 | 5/29/98, 11:45 | | ✓ | | | | | | | 5-176915 |
| SL-020 *52 | 7 | 7 | G | 1 | 5/29/98, 11:50 | | ✓ | | | | | | | 5-176916 |
| MS/MSD SW-001 TBRKW1 *1 | 1 | 2,7 | G | 3 | 5/28/98, 10:20 | ✓ | | TBRKW1 | | | | | | MS/MSD 5-176924, 5-176925, 5-176926 |
| SW-101 *2 | 1 | 2,7 | G | 1 | 5/28/98, 10:20 | ✓ | | | | | | | | 5-176923 |
| SW-002 *3 | 1 | 2,7 | G | 1 | 5/28/98, 11:15 | ✓ | | | | | | | | 5-176927 |
| SW-003 *4 | 1 | 2,7 | G | 1 | 5/28/98, 12:15 | ✓ | | | | | | | | 5-176931 |
| SW-008 *5 | 1 | 2,7 | G | 1 | 5/28/98, 18:50 | ✓ | | | | | | | | 5-176928 |

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 18:00 | 6/1/98 | [signature] | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Cooler Temp = 5°C

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 1 of 2

A.T. Kearney 1/3907/1 TR

[signature] 6/3/98 18:50

00011

TECHLAW

~~AT KEARNEY~~ DJH 6-28-98

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11112

| Project Code | Samples Shipped To | Samplers Names | 1) Sample description (Enter in column A) | 2) Preservatives (Enter in column B) |
|---|---|---|---|---|
| R75-020 | QST Environmental<br>404 SW 104th Terrace<br>Newberry, FL 32669 | Douglas J. Updike<br>John Koehnen<br>Kevin Higgins | 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Rinsate<br>5. Soil/Sediment<br>6. Oil<br>7. Waste<br>8. Other (specify) | 1. HCl<br>2. $HNO_3$<br>3. $NaHSO_4$<br>4. $H_2SO_4$<br>5. NaOH<br>6. Other (specify)<br>7. Ice only<br>N. Not preserved |
| Project (site) Name: CIHI | | | | |
| City, State, Zip Code: - | Carrier: FEDEX | Samplers Signatures: Douglas J. Updike, Kevin Higgins | | |
| Date Shipped: 6/1/98 | Air Bill Number: 8051744443276 | | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA METALS | | | | | | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SW-006 TBRKW1#6 | 1 | 2 | G | 1 | 5-28-98/1530 | X | TBRKW1 | | | | | | #5-176939 |
| SD-006 TBRKS1#53 | 5 | 7 | G | 1 | 5-28-98/1540 | X | TBRKS1.2 | | | | | | #5-176940 |
| SD-306 TBRKW1#7 | 4 | 2 | G | 1 | 5-28-98/1605 | X | TBRKW1 | | | | | | #5-176941 |
| SW-007 TBRKW1#8 | 1 | 2 | G | 1 | 5-28-98/1710 | X | TBRKW1 | | | | | | #5-176943 |
| TBRKS1#54 SD-007 TBRKS1#54 | 5 | 7 | G | 1 | 5-28-98/1720 | X | TBRKS1.2 | | | | | | #5-176942 |

KRH 6/1/98

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 8:00 | 6/1/98 | [illegible] | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Cooler Temp = 3°C

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 2 of 2

A.T. Kearney 1/3907/1 TR

00012

KH 6/3/98 18:55

Techlaw

~~A.T. KEARNEY~~

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11106

| | | | |
|---|---|---|---|
| Project Code: RDS-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: Kevin Higgins | 1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl 2. $HNO_3$ 3. Na $HSO_4$ 4. $H_2SO_4$ 5. Na OH 6. Other (specify) 7. Ice only N. Not preserved |
| City, State, Zip Code | Carrier: FEDEX | Samplers Signatures: Kevin Higgins | |
| Date Shipped: 6/1/98 | Air Bill Number: 8059744 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | TCLP Metals | | | | | | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL-301 TBRKW1 *9 | 4 | 2,7 | G | 1 | 5/29/98, 15:10 | ✓ | | TBRKW1 | | | | | | 5-176730 |
| SL-311 *10 | 4 | 2,7 | G | 1 | 5/29/98, 15:10 | ✓ | | ↓ | | | | | | 5-176907 |
| ~~SL~~ RH SS-301 *11 | 4 | 2,7 | G | 1 | 5/28/98, 14:35 | ✓ | | ↓ | | | | | | 5-176729 |

KRH 6/1/98

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Kevin Higgins | 1800 | 6/1/98 | [illegible] QST | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc.
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 2 of 2

NIP 6/3/98 18:55

A.T. Kearney 1/3907/1 TR

00013

TECHLAW

~~ATKEARNEY~~ DTU 5-28-98

A.T. Kearney Inc.
222 West Adams
Chicago, IL 60606
312/648-0111

# Chain of Custody Record

11111

| | | | |
|---|---|---|---|
| Project Code: RD5-020 | Samples Shipped To: QST Environmental, 404 SW 104th Terrace, Newberry, FL 32669 | Samplers Names: DOUGLAS J. UPDIKE, JOHN KOEHNEN, Kevin Higgins | 1) Sample description (Enter in column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil 7. Waste 8. Other (specify) |
| Project (site) Name: CIHI | | | 2) Preservatives (Enter in column B): 1. HCl 2. $HNO_3$ 3. $NaHSO_4$ 4. $H_2SO_4$ 5. NaOH 6. Other (specify) 7. Ice only N. Not preserved |
| City, State, Zip Code: | Carrier: FEDEX | Samplers Signatures: [signature] | |
| Date Shipped: 6/1/98 | Air Bill Number: 805974443276 | | |

| Sample Identification Numbers | A. Matrix enter from Box 1 | B. Preser. enter from Box 2 | Grab or Comp | Number of Sample Containers | MM/DD/YY Time sample collection | Analysis: RCRA Metals | | Remarks/ Tag Numbers |
|---|---|---|---|---|---|---|---|---|
| SS-001 TBRKS1*55 | 5 | 7 | G | 3 | 5-28-98/1002 | X | SL= TBRKS1.2 | 5-176889 #5-176999 MS/MSD 5-176888 |
| SS-101 56 | 5 | 7 | G | 1 | 5-28-98/1002 | X | | #5-176993 |
| SS-002 57 | 5 | 7 | G | 1 | 5-28-98/1025 | X | | #5-176994 |
| SS-003 58 | 5 | 7 | G | 1 | 5-28-98/1037 | X | | #5-176997 |
| SS-004 59 | 5 | 7 | G | 1 | 5-28-98/1102 | X | | #5-176998 |
| SS-005 60 | 5 | 7 | G | 1 | 5-28-98/1117 | X | | #5-176996 |
| SS-006 61 | 5 | 7 | G | 1 | 5-28-98/1129 | X | | #5-176995 |
| SS-007 62 | 5 | 7 | G | 1 | 5-28-98/1138 | X | | #5-176932 |
| SS-008 63 | 5 | 7 | G | 1 | 5-28-98/1148 | X | | #5-176933 |
| SW-004 TBRKW1*12 | 1 | 2 | G | 1 | 5-28-98/1400 | X | TBRKW1 | #5-176934 |
| SD-004 TBRKS1*64 | 5 | 7 | G | 1 | 5-28-98/1410 | X | TBRKS1.2 | #5-176935 |
| SW-005 TBRKW1*13 | 1 | 2 | G | 1 | 5-28-98/1440 | X | TBRKW1 | #5-176936 |
| SD-005 TBRKS1*65 | 5 | 7 | G | 1 | 5-28-98/1450 | X | TBRKS1.2 | #5-176937 |
| SS-311 TBRKW1*14 | 4 | 2 | G | 1 | 5-29-98/0825 | X | TBRKW1 | #5-176938 |

| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
|---|---|---|---|---|---|---|---|---|---|---|---|
| [signature] | 1800 | 6/1/98 | [signature] QST | 1200 | 6-2-98 | | | | | | |
| Relinquished By | Time | Date | Received By | Time | Date | Received By | Time | Date | Received By | Time | Date |
| | | | | | | | | | | | |

Remarks: Archive all "SS" samples after performing RCRA Metals Analyses

Split Samples — Accepted — Declined (Signature)

Distribution: Original — A.T. Kearney, Inc. Cooler Temp = 5°C
Carbon copies — Laboratory, work assignment manager, client (as appropriate)

Page 1 of 2

NP 6/3/98 19:00

A.T. Kearney 1/3907/1 TR

00014

# QST COOLER RECEIPT FORM



THIS FORM IS TO BE EXECUTED BY THE QST SAMPLE RECEIPT CUSTODIAN WHEN PROCESSING SHIPPING CONTAINERS. ANY *No IS TO BE DESCRIBED IN *DETAILS/COMMENTS. IMMEDIATE DOCUMENTATION OF PROBLEMS TO THE ANALYTICAL PROJECT MANAGER WILL FACILITATE COMMUNICATION WITH THE CLIENT TO RESOLVE ANY PROBLEMS. REFER TO ACTUAL CHAIN-OF-CUSTODY AND AIRBILL (IF APPLICABLE) FOR ADDITIONAL SAMPLE DOCUMENTATION.

Project: Tech Load Shipping Container # (QST / Other): 2089
Received (mm/dd/yr/hr): 6-2-98 1200 By: [illegible]
Opened (if different) : By: [illegible]

**Preliminary Examination Checklist**

Did the shipping container arrive with an airbill/shipping slip? . . . . . No Yes
If applicable, carrier name & airbill #: Airbills where removed - FedEx

Were custody seals on the outside of the container? . . . . . *No Yes
If Yes, a: were custody seals intact upon arrival? . . . . . *No Yes
b: enter Seal Date and Name (or enter "NA" if not available): 6-1-98 KRH

When the container was scanned for radioactivity, were readings within criteria? . . . *No Yes

Was Chain of Custody (COC) documentation provided with the shipment? . . . . . *No Yes
If Yes, a: was COC fully executed by the shipper (in ink)? . . . . . *No Yes
b: did you sign the COC in the appropriate field? . . . . . *No Yes
c: was the project identifiable from the COC? . . . . . *No Yes
If No, how was this determined?

Were samples received within criteria of 2-6° C? . . . . . *No Yes

**Sample Examination & Check-In Checklist** Sample Temperature 5 °C

Were samples packaged in conformance to generally accepted practices? . . . . . *No Yes

Did all sample containers arrive intact and sealed? . . . . . *No Yes
Did all sample containers have secure and completed labels? . . . . . *No Yes
If sample containers possessed tags, circle: Tags only Tags + Labels
Were individual bottles/vials sealed with custody tape or seals? . . . . . No Yes
Did all labels and/or tags agree with COC? . . . . . *No Yes
Did volumes, containers, & preservations seem appropriate to indicated tests? . . . . . *No Yes

Did pH checks of all preserved water samples confirm indicated preservations? . . . . *No Yes N/A
(If not document sample ID, fraction and pH below)
Were any containers for cyanide analysis (B fractions) not basified (pH>7)? . . . . . *No Yes N/A
If Yes, did they pass the lead acetate test indicating no sulfides present . . . . *No Yes N/A
Were VOA vials (waters) free from bubbles? . . . . . *No Yes N/A

Was this checklist free from deficiencies requiring notification of the Lab Project Manager?
If No, note who was contacted & when in Details/Comments below) . . . . . *No Yes

Was a Multiple Cooler Supplement form used for this shipment? . . . . . No Yes

***Details/Comments:**(note sample numbers)

Source: QST, September 1997 f:\admin\common\forms\1213\crf9.97

# QST COOLER RECEIPT FORM



Multiple-Cooler Supplement

**Project Name:** Techlaw **Date Received:** 6-2-98

THIS FORM IS TO BE EXECUTED BY THE QST SAMPLE RECEIPT CUSTODIAN WHEN PROCESSING MULTIPLE COOLERS (TWO-TEN) FOR THE SAME SET OF SHIPPING CONTAINERS FOR A GIVEN PROJECT. IT IS DESIGNED TO DOCUMENT THE IDENTITY OF EACH COOLER IN THE SHIPMENT, AND MUST ACCOMPANY THE STANDARD QST COOLER RECEIPT FORM (CRF) AND BE CLEARLY REFERENCED ON THE CRF.

EACH COOLER INCLUDED IN THIS RECEIPT IS TO BE DOCUMENTED BELOW. ANY *NO NOTED ON THE CRF IS TO BE DESCRIBED IN DETAILS/COMMENTS AND IS TO BE REFERENCED TO THE CRF COOLER # NOTED BELOW.

| CRF Cooler # | Shipping Container # | Temp (°C) | pH Checked | | |
|---|---|---|---|---|---|
| 1. | 2089 | 4 | N | Y | N/A |
| 2. | 1266 | 5 | N | Y | N/A |
| 3. | 1483 | 3 | N | Y | N/A |
| 4. | NA | 4 | N | Y | N/A |
| 5. | | | N | Y | N/A |
| 6. | | | N | Y | N/A |
| 8. | | | N | Y | N/A |
| 9. | | | N | Y | N/A |
| 10. | | | N | Y | N/A |

**Details/Comments:** (note cooler and sample numbers)

DATE: 6-2-98 CRFS#: 2089

f:\admin\common\forms\1213\crf9.97

# Results of Analysis

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 1
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | RB-001 | RB-002 | RB-003 | RB-004 | RB-005 | RB-006 | SL-003 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DATE COLLECTED: | | | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/28/98 |
| TIME COLLECTED: | | | 14:30 | 14:35 | 14:40 | 14:45 | 14:50 | 15:05 | 17:30 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | . | EPA 1311 | 06/18/98 | 06/18/98 | 06/18/98 | 06/18/98 | 06/18/98 | 06/18/98 | 06/18/98 |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 2
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SL-004 | SL-005 | SL-006 | SL-007 | SL-008 | SL-009 | SL-010 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 |
| TIME COLLECTED: | | | 17:45 | 17:45 | 12:08 | 10:46 | 11:06 | 12:42 | 12:48 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | . | EPA 1311 | 06/18/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 3
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SL-011 | SL-111 | ZO-001 | ZO-101 | ZO-002 | ZO-003 | ZO-004 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| DATE COLLECTED: | | | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 |
| TIME COLLECTED: | | | 12:30 | 12:30 | 09:50 | 09:50 | 09:50 | 08:45 | 09:55 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 | 06/26/98 |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | NRQ | 50.6 | 49.6 | 49.8 | 12.8 | 28.0 |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 359 | 280 | <193 | <110 | <130 |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 1190 | 1050 | 1580 | 3100 | 1280 |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 2890 | 2530 | 3280 | 704 | 3010 |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 100 | 28.3 | 56.6 | 50.4 | 76.9 |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 40000 | 34500 | 32000 | 18200 | 25400 |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | NRQ | 15.9 | 15.5 | 30.3 | 3.61 | 20.7 |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | <198 | <196 | <193 | <110 | <130 |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | NRQ | 43.7 | 38.8 | 55.5 | 25.8 | 105 |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 4
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SD-001 | SD-101 | SD-002 | SD-003 | SD-008 | SL-001 | SL-101 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 10:40 | 10:40 | 11:20 | 12:15 | 18:55 | 17:07 | 17:07 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | NRQ | NRQ | NRQ | NRQ | NRQ | 06/26/98 | 06/26/98 |
| MOISTURE | %WET WT | ASTM D2216 | 63.3 | 66.8 | 58.4 | 35.3 | 35.9 | NRQ | NRQ |
| ARSENIC | MG/KG-DRY | EPA 6010 | <23.9 | <23.7 | <18.9 | <15.2 | <12.6 | NRQ | NRQ |
| BARIUM | MG/KG-DRY | EPA 6010 | 225 | 318 | 210 | 239 | 313 | NRQ | NRQ |
| CADMIUM | MG/KG-DRY | EPA 6010 | 566 | 519 | 308 | 98.1 | 8.69 | NRQ | NRQ |
| CHROMIUM | MG/KG-DRY | EPA 6010 | 14.0 | 26.3 | 14.4 | 16.4 | 23.8 | NRQ | NRQ |
| LEAD | MG/KG-DRY | EPA 6010 | 1100 | 826 | 383 | 652 | 1490 | NRQ | NRQ |
| MERCURY | MG/KG-DRY | EPA 7470A | 0.380 | 0.869 | 0.261 | 0.148 | 0.080 | NRQ | NRQ |
| SELENIUM | MG/KG-DRY | EPA 6010 | <23.9 | <23.7 | <18.9 | <15.2 | <12.6 | NRQ | NRQ |
| SILVER | MG/KG-DRY | EPA 6010 | 1.94 | 1.48 | <0.946 | 1.63 | <0.629 | NRQ | NRQ |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 5
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SL-002 | BK-001 | BK-002 | BK-003 | SS-009 | SS-010 | SS-011 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 29 | 30 | 31 | 32 | 33 | 34 | 35 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/29/98 | 05/29/98 | 05/28/98 | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 17:19 | 11:40 | 16:10 | 16:25 | 18:25 | 18:30 | 18:35 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | 06/26/98 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | 33.2 | 24.3 | 24.3 | 15.3 | 33.6 | 18.3 |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | 17.9 | 16.5 | 15.4 | 21.1 | 24.1 | 13.7 |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | 193 | 242 | 247 | 265 | 549 | 282 |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | 1.82 | 1.29 | 1.36 | 18.8 | 16.0 | 4.96 |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | 18.6 | 19.0 | 16.1 | 14.4 | 25.7 | 14.8 |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | 112 | 55.5 | 56.3 | 1120 | 2380 | 358 |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | 0.071 | 0.037 | 0.033 | 0.127 | 0.191 | 0.075 |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | <13.2 | <12.3 | <9.71 | <11.7 | 15.4 | <9.56 |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | <0.662 | <0.617 | <0.486 | 1.11 | 0.699 | <0.478 |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 6
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SS-111 | SS-012 | SS-013 | BD-001 | BD-101 | BD-002 | BD-003 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 36 | 37 | 38 | 39 | 40 | 41 | 42 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/28/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 |
| TIME COLLECTED: | | | 18:35 | 18:55 | 19:02 | 10:25 | 10:25 | 10:15 | 10:45 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | NRQ | NRQ | NRQ | 06/26/98 | 07/09/98 | 07/09/98 | 07/09/98 |
| MOISTURE | %WET WT | ASTM D2216 | 14.9 | 15.6 | 19.9 | NRQ | NRQ | NRQ | NRQ |
| ARSENIC | MG/KG-DRY | EPA 6010 | 15.5 | 14.1 | <10.8 | NRQ | NRQ | NRQ | NRQ |
| BARIUM | MG/KG-DRY | EPA 6010 | 275 | 250 | 244 | NRQ | NRQ | NRQ | NRQ |
| CADMIUM | MG/KG-DRY | EPA 6010 | 3.14 | 2.95 | 2.13 | NRQ | NRQ | NRQ | NRQ |
| CHROMIUM | MG/KG-DRY | EPA 6010 | 13.0 | 12.8 | 11.1 | NRQ | NRQ | NRQ | NRQ |
| LEAD | MG/KG-DRY | EPA 6010 | 156 | 179 | 124 | NRQ | NRQ | NRQ | NRQ |
| MERCURY | MG/KG-DRY | EPA 7470A | 0.059 | 0.048 | 0.037 | NRQ | NRQ | NRQ | NRQ |
| SELENIUM | MG/KG-DRY | EPA 6010 | <10.0 | <9.79 | <10.8 | NRQ | NRQ | NRQ | NRQ |
| SILVER | MG/KG-DRY | EPA 6010 | <0.502 | <0.490 | <0.538 | NRQ | NRQ | NRQ | NRQ |

NRQ - Analysis not requested.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE ID'S: | | | BD-004 | SL-012 | SL-013 | SL-014 | SL-015 | SL-016 | SL-017 |
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 43 | 44 | 45 | 46 | 47 | 48 | 49 |
| DATE COLLECTED: | | | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/29/98 |
| TIME COLLECTED: | | | 10:55 | 12:25 | 12:14 | 12:13 | 10:57 | 11:15 | 11:23 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | 07/09/98 | 07/09/98 | 07/09/98 | 07/09/98 | 07/09/98 | 07/09/98 | 07/09/98 |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 8
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK PROJ
FIELD GROUP TBRKS1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SL-018 | SL-019 | SL-020 | SD-006 | SD-007 | SS-001 | SS-101 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| DATE COLLECTED: | | | 05/29/98 | 05/29/98 | 05/29/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 11:48 | 11:45 | 11:50 | 15:40 | 17:20 | 10:02 | 10:02 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | 07/09/98 | 07/09/98 | 06/26/98 | NRQ | NRQ | NRQ | NRQ |
| MOISTURE | %WET WT | ASTM D2216 | NRQ | NRQ | NRQ | 37.9 | 37.9 | 13.1 | 14.2 |
| ARSENIC | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | 18.8 | 167 | 24.7 | 21.9 |
| BARIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | 214 | 2430 | 310 | 369 |
| CADMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | 4.65 | 3450 | 51.4 | 63.6 |
| CHROMIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | 16.7 | 110 | 21.4 | 29.0 |
| LEAD | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | 79.8 | 22800 | 3880 | 3650 |
| MERCURY | MG/KG-DRY | EPA 7470A | NRQ | NRQ | NRQ | 0.070 | 8.45 | 0.459 | 0.352 |
| SELENIUM | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | <14.8 | <144 | 15.4 | 13.9 |
| SILVER | MG/KG-DRY | EPA 6010 | NRQ | NRQ | NRQ | <0.739 | 62.8 | 1.91 | 2.77 |

NRQ - Analysis not requested.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CLIENT SAMPLE ID'S: | | | SS-002 | SS-003 | SS-004 | SS-005 | SS-006 | SS-007 | SS-008 |
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 57 | 58 | 59 | 60 | 61 | 62 | 63 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 10:25 | 10:37 | 11:02 | 11:17 | 11:29 | 11:38 | 11:48 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| TCLP EXTRACTION-METALS | - | EPA 1311 | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ | NRQ |
| MOISTURE | %WET WT | ASTM D2216 | 5.2 | 8.2 | 17.7 | 16.9 | 18.5 | 25.6 | 27.3 |
| ARSENIC | MG/KG-DRY | EPA 6010 | <68.1 | <200 | 22.1 | 14.9 | 17.6 | 46.2 | <131 |
| BARIUM | MG/KG-DRY | EPA 6010 | 481 | 253 | 173 | 194 | 260 | 261 | 482 |
| CADMIUM | MG/KG-DRY | EPA 6010 | 27.5 | 30.8 | 46.6 | 5.91 | 13.9 | 60.1 | 45.0 |
| CHROMIUM | MG/KG-DRY | EPA 6010 | 37.7 | 488 | 38.8 | 11.5 | 19.1 | 20.8 | 31.4 |
| LEAD | MG/KG-DRY | EPA 6010 | 2300 | 23200 | 4690 | 639 | 2450 | 3280 | 8510 |
| MERCURY | MG/KG-DRY | EPA 7470A | 0.199 | 0.460 | 0.399 | 0.076 | 0.102 | 0.255 | 0.412 |
| SELENIUM | MG/KG-DRY | EPA 6010 | <68.1 | <200 | 20.4 | <11.5 | 11.2 | 12.3 | <131 |
| SILVER | MG/KG-DRY | EPA 6010 | <3.40 | 40.4 | 0.967 | <0.573 | 2.51 | 16.3 | 14.0 |

NRQ - Analysis not requested.

| | | | | |
|---|---|---|---|---|
| CLIENT SAMPLE ID'S: | | | SD-004 | SD-005 |
| QST FIELD GROUP: | | | TBRKS1 | TBRKS1 |
| QST SEQUENCE #: | | | 64 | 65 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 14:10 | 14:50 |
| PARAMETERS | UNITS | METHOD | | |
| TCLP EXTRACTION-METALS | | EPA 1311 | NRQ | NRQ |
| MOISTURE | %WET WT | ASTM D2216 | 48.9 | 59.0 |
| ARSENIC | MG/KG-DRY | EPA 6010 | 19.1 | <22.4 |
| BARIUM | MG/KG-DRY | EPA 6010 | 201 | 246 |
| CADMIUM | MG/KG-DRY | EPA 6010 | 8.69 | 6.95 |
| CHROMIUM | MG/KG-DRY | EPA 6010 | 18.2 | 17.0 |
| LEAD | MG/KG-DRY | EPA 6010 | 298 | 433 |
| MERCURY | MG/KG-DRY | EPA 7470A | 0.057 | 0.102 |
| SELENIUM | MG/KG-DRY | EPA 6010 | <17.8 | <22.4 |
| SILVER | MG/KG-DRY | EPA 6010 | <0.890 | <1.12 |

NRQ - Analysis not requested.

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 1
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK F
FIELD GROUP TBRKW1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SW-001 | SW-101 | SW-002 | SW-003 | SW-008 | SW-006 | SD-306 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 |
| QST SEQUENCE #: | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| DATE COLLECTED: | | | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 | 05/28/98 |
| TIME COLLECTED: | | | 10:20 | 10:20 | 11:15 | 12:15 | 18:50 | 15:30 | 16:05 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| ARSENIC, TOTAL | UG/L | EPA 6010 | <100 | <100 | <100 | <100 | <100 | 153 | <100 |
| BARIUM, TOTAL | UG/L | EPA 6010 | 83.0 | 84.9 | 78.3 | 83.8 | 494 | 2150 | <20.0 |
| CADMIUM | UG/L | EPA 6010 | 12.4 | 7.4 | 9.9 | 9.4 | 19.7 | 352 | <5.0 |
| CHROMIUM | UG/L | EPA 6010 | <10.0 | <10.0 | <10.0 | <10.0 | 82.8 | 104 | <10.0 |
| LEAD, TOTAL | UG/L | EPA 6010 | <50.0 | <50.0 | <50.0 | <50.0 | 4350 | 14600 | <50.0 |
| MERCURY | UG/L | EPA 7470A | <0.20 | <0.20 | <0.20 | <0.20 | 3.65 | 1.83 | <0.20 |
| SELENIUM, TOTAL | UG/L | EPA 6010 | <100 | <100 | <100 | <100 | 284 | 107 | <100 |
| SILVER | UG/L | EPA 6010 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 45.1 | <5.0 |

QST Environmental Inc. 07/10/98 STATUS :FINAL PAGE 2
PROJECT NUMBER 1298522V L204 PROJECT NAME TECHLAW BRICK F
FIELD GROUP TBRKW1 LAB COORDINATOR ANDREW WEITZ

| CLIENT SAMPLE ID'S: | | | SW-007 | SL-301 | SL-311 | SS-301 | SW-004 | SW-005 | SS-311 |
|---|---|---|---|---|---|---|---|---|---|
| QST FIELD GROUP: | | | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 | TBRKW1 |
| QST SEQUENCE #: | | | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| DATE COLLECTED: | | | 05/28/98 | 05/29/98 | 05/29/98 | 05/29/98 | 05/28/98 | 05/28/98 | 05/29/98 |
| TIME COLLECTED: | | | 17:10 | 15:10 | 15:10 | 14:35 | 14:00 | 14:40 | 08:25 |
| PARAMETERS | UNITS | METHOD | | | | | | | |
| ARSENIC, TOTAL | UG/L | EPA 6010 | <100 | <100 | <100 | <100 | <100 | <100 | <100 |
| BARIUM, TOTAL | UG/L | EPA 6010 | 76.8 | <20.0 | <20.0 | <20.0 | 1110 | 154 | <20.0 |
| CADMIUM | UG/L | EPA 6010 | 405 | <5.0 | <5.0 | <5.0 | 467 | 54.2 | <5.0 |
| CHROMIUM | UG/L | EPA 6010 | 12.9 | <10.0 | <10.0 | <10.0 | 52.1 | <10.0 | <10.0 |
| LEAD, TOTAL | UG/L | EPA 6010 | 9040 | <50.0 | <50.0 | <50.0 | 12500 | 481 | <50.0 |
| MERCURY | UG/L | EPA 7470A | 8.28 | <0.20 | <0.20 | <0.20 | 1.50 | <0.20 | <0.20 |
| SELENIUM, TOTAL | UG/L | EPA 6010 | 348 | <100 | <100 | <100 | <100 | <100 | <100 |
| SILVER | UG/L | EPA 6010 | <5.0 | <5.0 | <5.0 | <5.0 | 16.5 | <5.0 | <5.0 |

**ICAP Metals - Batch G91185**

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91185 Matrix: SOIL/SED

Analysis: G91185 = EPA 3050,6010

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| ICV1 | ICV*QCS26*1 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1100 |
| ICB1 | ICB*QC*1 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1101 |
| ICS1 | ICS*A*1 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1103 |
| ICS2 | ICS*AB*1 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1108 |
| LCS1 | LCS*ERA237*1 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1122 |
| LCS2 | LCS*ERA237*2 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1124 |
| ZO-001 | TBRKS1*17 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1131 |
| ZO-001L | SD*TBRKS1*17 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1135 |
| ZO-001A | SPX*TBRKS1*17 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1137 |
| ZO-001MS | SPM1*TBRKS1*17 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1139 |
| ZO-001MSD | SPM2*TBRKS1*17 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1142 |
| ZO-101 | TBRKS1*18 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1144 |
| ZO-002 | TBRKS1*19 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1146 |
| ZO-003 | TBRKS1*20 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1149 |
| ZO-004 | TBRKS1*21 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1152 |
| SD-001 | TBRKS1*22 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1202 |
| SD-001L | SD*TBRKS1*22 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1204 |
| SD-001A | SPX*TBRKS1*22 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1206 |
| SD-001MS | SPM1*TBRKS1*22 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1211 |
| SD-001MSD | SPM2*TBRKS1*22 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1213 |
| SD-101 | TBRKS1*23 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1215 |
| SD-002 | TBRKS1*24 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1217 |
| SD-003 | TBRKS1*25 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1220 |
| SD-008 | TBRKS1*26 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1223 |
| BK-001 | TBRKS1*30 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1240 |
| BK-002 | TBRKS1*31 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1243 |
| BK-003 | TBRKS1*32 | G91185 | 05/29/98 | 06/02/98 | 06/18/98 | 1246 |
| SS-009 | TBRKS1*33 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1248 |
| SS-010 | TBRKS1*34 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1251 |
| SS-011 | TBRKS1*35 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1254 |
| SS-011L | SD*TBRKS1*35 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1257 |
| SS-011A | SPX*TBRKS1*35 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1259 |
| SS-011MS | SPM1*TBRKS1*35 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1301 |
| SS-011MSD | SPM2*TBRKS1*35 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1303 |
| SS-111 | TBRKS1*36 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1309 |
| SS-012 | TBRKS1*37 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1312 |
| SS-013 | TBRKS1*38 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1314 |
| SD-006 | TBRKS1*53 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1316 |
| SD-007 | TBRKS1*54 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1322 |
| SS-001 | TBRKS1*55 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1326 |
| SS-001L | SD*TBRKS1*55 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1330 |

Comments:
11 SDG: G91185-1 Sample List: TL.7

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91185 Matrix: SOIL/SED

Analysis: G91185 = EPA 3050,6010

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| SS-001A | SPX*TBRKS1*55 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1332 |
| SS-001MS | SPM1*TBRKS1*55 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1334 |
| SS-001MSD | SPM2*TBRKS1*55 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1337 |
| SS-101 | TBRKS1*56 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1357 |
| SS-002 | TBRKS1*57 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1402 |
| SS-003 | TBRKS1*58 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1405 |
| SS-004 | TBRKS1*59 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1408 |
| SS-005 | TBRKS1*60 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1412 |
| SS-006 | TBRKS1*61 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1415 |
| SS-007 | TBRKS1*62 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1417 |
| SS-008 | TBRKS1*63 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1423 |
| SD-004 | TBRKS1*64 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1425 |
| SD-005 | TBRKS1*65 | G91185 | 05/28/98 | 06/02/98 | 06/18/98 | 1432 |
| ICS3 | ICS*A*2 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1442 |
| ICS4 | ICS*AB*2 | G91185 | 00/00/00 | 00/00/00 | 06/18/98 | 1446 |

Comments:
. 1 SDG: G91185-1 Sample List: TL.7

Batch Narrative - G91185 Analysis: EPA 3050,6010

Updated by 1522, 1522, 1522, 3216, 3216

GENERAL COMMENTS:

PROBLEM:
Sample matrix spike not within acceptance criteria:
AG
CD
CR
PB
SE

EXPLANATION:
AG - SAMPLE CONC. >4Xs SPIKE CONC.
CD " " " " "
CR " " " " "
PB " " " " "
SE - POSSIBLE MATRIX EFFECT PRESENT.

PROBLEM:
Sample matrix spike duplicate not within acceptance criteria:
CD
CR
PB
SE

EXPLANATION: SAME AS ABOVE.

PROBLEM:
Analytical spike not within acceptance criteria:
CD
PB

EXPLANATION: SAMPLE CONC. >4Xs SPIKE CONC.

Analyst Kent Brakefield DATE 6/22/98
Reviewer [illegible] DATE 6/22/98

## Sample Data

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*17

Sample wt/vol: 1.02. G Lab File ID: G91185

%Moisture: 50.6 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1131 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 43.7 | D10 |
| 7440-38-2 | ARSENIC | 359. | D10 |
| 7440-39-3 | BARIUM | 1190. | D10 |
| 7440-43-9 | CADMIUM | 2890. | D10 |
| 7440-47-3 | CHROMIUM | 100. | D10 |
| 7439-92-1 | LEAD | 40000. | D10 |
| 7782-49-2 | SELENIUM | 198. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-101

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*18

Sample wt/vol: 1.01. G Lab File ID: G91185

%Moisture: 49.6 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1144 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 38.8 | D10 |
| 7440-38-2 | ARSENIC | 280. | D10 |
| 7440-39-3 | BARIUM | 1050. | D10 |
| 7440-43-9 | CADMIUM | 2530. | D10 |
| 7440-47-3 | CHROMIUM | 28.3 | D10 |
| 7439-92-1 | LEAD | 34500. | D10 |
| 7782-49-2 | SELENIUM | 196. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-002

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*19

Sample wt/vol: 1.03. G Lab File ID: G91185

%Moisture: 49.8 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1146 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 55.5 | D10 |
| 7440-38-2 | ARSENIC | 193. | UD10 |
| 7440-39-3 | BARIUM | 1580. | D10 |
| 7440-43-9 | CADMIUM | 3280. | D10 |
| 7440-47-3 | CHROMIUM | 56.6 | D10 |
| 7439-92-1 | LEAD | 32000. | D10 |
| 7782-49-2 | SELENIUM | 193. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-003

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*20

Sample wt/vol: 1.04. G Lab File ID: G91185

%Moisture: 12.8 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1149 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 25.8 | D10 |
| 7440-38-2 | ARSENIC | 110. | UD10 |
| 7440-39-3 | BARIUM | 3100. | D10 |
| 7440-43-9 | CADMIUM | 704. | D10 |
| 7440-47-3 | CHROMIUM | 50.4 | D10 |
| 7439-92-1 | LEAD | 18200. | D10 |
| 7782-49-2 | SELENIUM | 110. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-004

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*21

Sample wt/vol: 1.07. G Lab File ID: G91185

%Moisture: 28.0 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1152 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 105. | D10 |
| 7440-38-2 | ARSENIC | 130. | UD10 |
| 7440-39-3 | BARIUM | 1280. | D10 |
| 7440-43-9 | CADMIUM | 3010. | D10 |
| 7440-47-3 | CHROMIUM | 76.9 | D10 |
| 7439-92-1 | LEAD | 25400. | D10 |
| 7782-49-2 | SELENIUM | 130. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*22

Sample wt/vol: 1.14. G Lab File ID: G91185

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1202 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.94 | |
| 7440-38-2 | ARSENIC | 23.9 | U |
| 7440-39-3 | BARIUM | 225. | |
| 7440-43-9 | CADMIUM | 566. | |
| 7440-47-3 | CHROMIUM | 14.0 | |
| 7439-92-1 | LEAD | 1100. | |
| 7782-49-2 | SELENIUM | 23.9 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-101

Lab Name: QST  Project No.: 1298522V  SDG No.: G91185

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*23

Sample wt/vol: 1.27. G  Lab File ID: G91185

%Moisture: 66.8  Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1215  Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.48 | |
| 7440-38-2 | ARSENIC | 23.7 | U |
| 7440-39-3 | BARIUM | 318. | |
| 7440-43-9 | CADMIUM | 519. | |
| 7440-47-3 | CHROMIUM | 26.3 | |
| 7439-92-1 | LEAD | 826. | |
| 7782-49-2 | SELENIUM | 23.7 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-002

Lab Name: QST  Project No.: 1298522V  SDG No.: G91185

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*24

Sample wt/vol: 1.27. G  Lab File ID: G91185

%Moisture: 58.4  Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1217  Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.946 | U |
| 7440-38-2 | ARSENIC | 18.9 | U |
| 7440-39-3 | BARIUM | 210. | |
| 7440-43-9 | CADMIUM | 308. | |
| 7440-47-3 | CHROMIUM | 14.4 | |
| 7439-92-1 | LEAD | 383. | |
| 7782-49-2 | SELENIUM | 18.9 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-003

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*25

Sample wt/vol: 1.02. G Lab File ID: G91185

%Moisture: 35.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1220 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.63 | |
| 7440-38-2 | ARSENIC | 15.2 | U |
| 7440-39-3 | BARIUM | 239. | |
| 7440-43-9 | CADMIUM | 98.1 | |
| 7440-47-3 | CHROMIUM | 16.4 | |
| 7439-92-1 | LEAD | 652. | |
| 7782-49-2 | SELENIUM | 15.2 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-008

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*26

Sample wt/vol: 1.24. G Lab File ID: G91185

%Moisture: 35.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1223 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.629 | U |
| 7440-38-2 | ARSENIC | 12.6 | U |
| 7440-39-3 | BARIUM | 313. | |
| 7440-43-9 | CADMIUM | 8.69 | |
| 7440-47-3 | CHROMIUM | 23.8 | |
| 7439-92-1 | LEAD | 1490. | |
| 7782-49-2 | SELENIUM | 12.6 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-001

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*30

Sample wt/vol: 1.13. G Lab File ID: G91185

%Moisture: 33.2 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1240 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.662 | U |
| 7440-38-2 | ARSENIC | 17.9 | |
| 7440-39-3 | BARIUM | 193. | |
| 7440-43-9 | CADMIUM | 1.82 | |
| 7440-47-3 | CHROMIUM | 18.6 | |
| 7439-92-1 | LEAD | 112. | |
| 7782-49-2 | SELENIUM | 13.2 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-002

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*31

Sample wt/vol: 1.07. G Lab File ID: G91185

%Moisture: 24.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1243 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.617 | U |
| 7440-38-2 | ARSENIC | 16.5 | |
| 7440-39-3 | BARIUM | 242. | |
| 7440-43-9 | CADMIUM | 1.29 | |
| 7440-47-3 | CHROMIUM | 19.0 | |
| 7439-92-1 | LEAD | 55.5 | |
| 7782-49-2 | SELENIUM | 12.3 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-003.

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*32

Sample wt/vol: 1.36. G Lab File ID: G91185

%Moisture: 24.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1246 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.486 | U |
| 7440-38-2 | ARSENIC | 15.4 | |
| 7440-39-3 | BARIUM | 247. | |
| 7440-43-9 | CADMIUM | 1.36 | |
| 7440-47-3 | CHROMIUM | 16.1 | |
| 7439-92-1 | LEAD | 56.3 | |
| 7782-49-2 | SELENIUM | 9.71 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-009

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*33

Sample wt/vol: 1.01. G Lab File ID: G91185

%Moisture: 15.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1248 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.11 | |
| 7440-38-2 | ARSENIC | 21.1 | |
| 7440-39-3 | BARIUM | 265. | |
| 7440-43-9 | CADMIUM | 18.8 | |
| 7440-47-3 | CHROMIUM | 14.4 | |
| 7439-92-1 | LEAD | 1120. | |
| 7782-49-2 | SELENIUM | 11.7 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-010

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*34

Sample wt/vol: 1.21. G Lab File ID: G91185

%Moisture: 33.6 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1251 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.699 | |
| 7440-38-2 | ARSENIC | 24.1 | |
| 7440-39-3 | BARIUM | 549. | |
| 7440-43-9 | CADMIUM | 16.0 | |
| 7440-47-3 | CHROMIUM | 25.7 | |
| 7439-92-1 | LEAD | 2380. | |
| 7782-49-2 | SELENIUM | 15.4 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*35

Sample wt/vol: 1.28. G Lab File ID: G91185

%Moisture: 18.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1254 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.478 | U |
| 7440-38-2 | ARSENIC | 13.7 | |
| 7440-39-3 | BARIUM | 282. | |
| 7440-43-9 | CADMIUM | 4.96 | |
| 7440-47-3 | CHROMIUM | 14.8 | |
| 7439-92-1 | LEAD | 358. | |
| 7782-49-2 | SELENIUM | 9.56 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-111

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*36

Sample wt/vol: 1.17. G Lab File ID: G91185

%Moisture: 14.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1309 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.502 | U |
| 7440-38-2 | ARSENIC | 15.5 | |
| 7440-39-3 | BARIUM | 275. | |
| 7440-43-9 | CADMIUM | 3.14 | |
| 7440-47-3 | CHROMIUM | 13.0 | |
| 7439-92-1 | LEAD | 156. | |
| 7782-49-2 | SELENIUM | 10.0 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-012

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*37

Sample wt/vol: 1.21. G Lab File ID: G91185

%Moisture: 15.6 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1312 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.490 | U |
| 7440-38-2 | ARSENIC | 14.1 | |
| 7440-39-3 | BARIUM | 250. | |
| 7440-43-9 | CADMIUM | 2.95 | |
| 7440-47-3 | CHROMIUM | 12.8 | |
| 7439-92-1 | LEAD | 179. | |
| 7782-49-2 | SELENIUM | 9.79 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-013

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*38

Sample wt/vol: 1.16. G Lab File ID: G91185

%Moisture: 19.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1314 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.538 | U |
| 7440-38-2 | ARSENIC | 10.8 | U |
| 7440-39-3 | BARIUM | 244. | |
| 7440-43-9 | CADMIUM | 2.13 | |
| 7440-47-3 | CHROMIUM | 11.1 | |
| 7439-92-1 | LEAD | 124. | |
| 7782-49-2 | SELENIUM | 10.8 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-006

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*53

Sample wt/vol: 1.09. G Lab File ID: G91185

%Moisture: 37.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1316 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.739 | U |
| 7440-38-2 | ARSENIC | 18.8 | |
| 7440-39-3 | BARIUM | 214. | |
| 7440-43-9 | CADMIUM | 4.65 | |
| 7440-47-3 | CHROMIUM | 16.7 | |
| 7439-92-1 | LEAD | 79.8 | |
| 7782-49-2 | SELENIUM | 14.8 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-007

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*54

Sample wt/vol: 1.12. G Lab File ID: G91185

%Moisture: 37.9 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1322 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 62.8 | D10 |
| 7440-38-2 | ARSENIC | 167. | D10 |
| 7440-39-3 | BARIUM | 2430. | D10 |
| 7440-43-9 | CADMIUM | 3450. | D10 |
| 7440-47-3 | CHROMIUM | 110. | D10 |
| 7439-92-1 | LEAD | 22800. | D10 |
| 7782-49-2 | SELENIUM | 144. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*55

Sample wt/vol: 1.07. G Lab File ID: G91185

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1326 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.91 | |
| 7440-38-2 | ARSENIC | 24.7 | |
| 7440-39-3 | BARIUM | 310. | |
| 7440-43-9 | CADMIUM | 51.4 | |
| 7440-47-3 | CHROMIUM | 21.4 | |
| 7439-92-1 | LEAD | 3880. | |
| 7782-49-2 | SELENIUM | 15.4 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-101

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*56

Sample wt/vol: 1.21. G Lab File ID: G91185

%Moisture: 14.2 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1357 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 2.77 | |
| 7440-38-2 | ARSENIC | 21.9 | |
| 7440-39-3 | BARIUM | 369. | |
| 7440-43-9 | CADMIUM | 63.6 | |
| 7440-47-3 | CHROMIUM | 29.0 | |
| 7439-92-1 | LEAD | 3650. | |
| 7782-49-2 | SELENIUM | 13.9 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-002

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*57

Sample wt/vol: 1.55. G Lab File ID: G91185

%Moisture: 5.2 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1402 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 3.40 | UD10 |
| 7440-38-2 | ARSENIC | 68.1 | UD10 |
| 7440-39-3 | BARIUM | 481. | D10 |
| 7440-43-9 | CADMIUM | 27.5 | D10 |
| 7440-47-3 | CHROMIUM | 37.7 | D10 |
| 7439-92-1 | LEAD | 2300. | D10 |
| 7782-49-2 | SELENIUM | 68.1 | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-003

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*58

Sample wt/vol: 1.09. G Lab File ID: G91185

%Moisture: 8.2 Dilution Factor: 20.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1405 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 40.4 | D20 |
| 7440-38-2 | ARSENIC | 200. | UD20 |
| 7440-39-3 | BARIUM | 253. | D20 |
| 7440-43-9 | CADMIUM | 30.8 | D20 |
| 7440-47-3 | CHROMIUM | 488. | D20 |
| 7439-92-1 | LEAD | 23200. | D20 |
| 7782-49-2 | SELENIUM | 200. | UD20 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-004

Lab Name: QST  Project No.: 1298522V  SDG No.: G91185

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*59

Sample wt/vol: 1.12. G  Lab File ID: G91185

%Moisture: 17.7  Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1408  Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.967 | |
| 7440-38-2 | ARSENIC | 22.1 | |
| 7440-39-3 | BARIUM | 173. | |
| 7440-43-9 | CADMIUM | 46.6 | |
| 7440-47-3 | CHROMIUM | 38.8 | |
| 7439-92-1 | LEAD | 4690. | |
| 7782-49-2 | SELENIUM | 20.4 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-005

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*60

Sample wt/vol: 1.05. G Lab File ID: G91185

%Moisture: 16.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1412 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.573 | U |
| 7440-38-2 | ARSENIC | 14.9 | |
| 7440-39-3 | BARIUM | 194. | |
| 7440-43-9 | CADMIUM | 5.91 | |
| 7440-47-3 | CHROMIUM | 11.5 | |
| 7439-92-1 | LEAD | 639. | |
| 7782-49-2 | SELENIUM | 11.5 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-006

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*61

Sample wt/vol: 1.16. G Lab File ID: G91185

%Moisture: 18.5 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1415 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 2.51 | |
| 7440-38-2 | ARSENIC | 17.6 | |
| 7440-39-3 | BARIUM | 260. | |
| 7440-43-9 | CADMIUM | 13.9 | |
| 7440-47-3 | CHROMIUM | 19.1 | |
| 7439-92-1 | LEAD | 2450. | |
| 7782-49-2 | SELENIUM | 11.2 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-007

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*62

Sample wt/vol: 1.13. G Lab File ID: G91185

%Moisture: 25.6 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1417 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 16.3 | |
| 7440-38-2 | ARSENIC | 46.2 | |
| 7440-39-3 | BARIUM | 261. | |
| 7440-43-9 | CADMIUM | 60.1 | |
| 7440-47-3 | CHROMIUM | 20.8 | |
| 7439-92-1 | LEAD | 3280. | |
| 7782-49-2 | SELENIUM | 12.3 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-008

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*63

Sample wt/vol: 1.05. G Lab File ID: G91185

%Moisture: 27.3 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1423 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 14.0 | D10 |
| 7440-38-2 | ARSENIC | 131. | UD10 |
| 7440-39-3 | BARIUM | 482. | D10 |
| 7440-43-9 | CADMIUM | 45.0 | D10 |
| 7440-47-3 | CHROMIUM | 31.4 | D10 |
| 7439-92-1 | LEAD | 8510. | D10 |
| 7782-49-2 | SELENIUM | 131. | UD10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-004.

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*64

Sample wt/vol: 1.10. G Lab File ID: G91185

%Moisture: 48.9 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1425 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.890 | U |
| 7440-38-2 | ARSENIC | 19.1 | |
| 7440-39-3 | BARIUM | 201. | |
| 7440-43-9 | CADMIUM | 8.69 | |
| 7440-47-3 | CHROMIUM | 18.2 | |
| 7439-92-1 | LEAD | 298. | |
| 7782-49-2 | SELENIUM | 17.8 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-005

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*65

Sample wt/vol: 1.09. G Lab File ID: G91185

%Moisture: 59.0 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1432 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 1.12 | U |
| 7440-38-2 | ARSENIC | 22.4 | U |
| 7440-39-3 | BARIUM | 246. | |
| 7440-43-9 | CADMIUM | 6.95 | |
| 7440-47-3 | CHROMIUM | 17.0 | |
| 7439-92-1 | LEAD | 433. | |
| 7782-49-2 | SELENIUM | 22.4 | U |

# QC Data

Client ID

ZO-001MS

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91185

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC | # | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| SILVER | 9.55 | 43.7 | 55.9 | 127.7 | * | 74-116 |
| ARSENIC | 382 | 359 | 678 | 83.5 | | 75-125 |
| BARIUM | 382 | 1190 | 1660 | 123.0 | | 64-126 |
| CADMIUM | 9.55 | 2890 | 3020 | 1361 | * | 52-144 |
| CHROMIUM | 38.2 | 100 | 67.0 | 0 | * | 46-150 |
| LEAD | 95.5 | 40000 | 50000 | 10470 | * | 67-123 |
| SELENIUM | 382 | 0.0 | 469 | 122.8 | * | 78-110 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC | # | % RPD | # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|---|---|
| SILVER | 8.80 | 52.8 | 103.4 | | 21.0 | | 21 | 74-116 |
| ARSENIC | 352 | 672 | 88.9 | | 6.3 | | 25 | 75-125 |
| BARIUM | 352 | 1550 | 102.3 | | 18.4 | | 31 | 64-126 |
| CADMIUM | 8.80 | 2960 | 795.5 | * | 52.4 | * | 46 | 52-144 |
| CHROMIUM | 35.2 | 65.9 | 0 | * | 0 | | 52 | 46-150 |
| LEAD | 88.0 | 40600 | 681.8 | * | 175.5 | * | 28 | 67-123 |
| SELENIUM | 352 | 392 | 111.4 | * | 9.7 | | 16 | 78-110 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 7 outside limits
Spike Recovery: 9 out of 14 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*17

Sample wt/vol: 1.06. G Lab File ID: G91185

%Moisture: 50.6 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1139 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 55.9 | D10 |
| 7440-38-2 | ARSENIC | 678. | D10 |
| 7440-39-3 | BARIUM | 1660. | D10 |
| 7440-43-9 | CADMIUM | 3020. | D10 |
| 7440-47-3 | CHROMIUM | 67.0 | D10 |
| 7439-92-1 | LEAD | 50000. | D10 |
| 7782-49-2 | SELENIUM | 469. | D10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*17

Sample wt/vol: 1.15. G Lab File ID: G91185

%Moisture: 50.6 Dilution Factor: 10.0

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1142 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 52.8 | D10 |
| 7440-38-2 | ARSENIC | 672. | D10 |
| 7440-39-3 | BARIUM | 1550. | D10 |
| 7440-43-9 | CADMIUM | 2960. | D10 |
| 7440-47-3 | CHROMIUM | 65.9 | D10 |
| 7439-92-1 | LEAD | 40600. | D10 |
| 7782-49-2 | SELENIUM | 392. | D10 |

Client ID

SD-001MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91185

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC | # | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| SILVER | 12.3 | 1.94 | 14.4 | 101.6 | | 74-116 |
| ARSENIC | 491 | 0.0 | 440 | 89.6 | | 75-125 |
| BARIUM | 491 | 225 | 725 | 101.8 | | 64-126 |
| CADMIUM | 12.3 | 566 | 761 | 1585 | * | 52-144 |
| CHROMIUM | 49.1 | 14.0 | 61.7 | 97.1 | | 46-150 |
| LEAD | 123 | 1100 | 1390 | 235.8 | * | 67-123 |
| SELENIUM | 491 | 0.0 | 501 | 102.0 | | 78-110 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC | # | % RPD | # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|---|---|
| SILVER | 12.3 | 13.5 | 94.3 | | 7.5 | | 21 | 74-116 |
| ARSENIC | 491 | 435 | 88.6 | | 1.1 | | 25 | 75-125 |
| BARIUM | 491 | 733 | 103.5 | | 1.7 | | 31 | 64-126 |
| CADMIUM | 12.3 | 502 | 0 | * | 200.0 | * | 46 | 52-144 |
| CHROMIUM | 49.1 | 63.7 | 101.2 | | 4.1 | | 52 | 46-150 |
| LEAD | 123 | 984 | 0 | * | 200.0 | * | 28 | 67-123 |
| SELENIUM | 491 | 495 | 100.8 | | 1.2 | | 16 | 78-110 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 7 outside limits
Spike Recovery: 4 out of 14 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*22

Sample wt/vol: 1.11. G Lab File ID: G91185

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1211 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 14.4 | |
| 7440-38-2 | ARSENIC | 440. | |
| 7440-39-3 | BARIUM | 725. | |
| 7440-43-9 | CADMIUM | 761. | |
| 7440-47-3 | CHROMIUM | 61.7 | |
| 7439-92-1 | LEAD | 1390. | |
| 7782-49-2 | SELENIUM | 501. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*22

Sample wt/vol: 1.11. G Lab File ID: G91185

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1213 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 13.5 | |
| 7440-38-2 | ARSENIC | 435. | |
| 7440-39-3 | BARIUM | 733. | |
| 7440-43-9 | CADMIUM | 502. | |
| 7440-47-3 | CHROMIUM | 63.7 | |
| 7439-92-1 | LEAD | 984. | |
| 7782-49-2 | SELENIUM | 495. | |

Client ID

SS-011MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91185

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| SILVER | 5.14 | 0.0 | 5.63 | 109.5 | 74-116 |
| ARSENIC | 206 | 13.7 | 199 | 89.8 | 75-125 |
| BARIUM | 206 | 282 | 504 | 107.8 | 64-126 |
| CADMIUM | 5.14 | 4.96 | 10.6 | 109.7 | 52-144 |
| CHROMIUM | 20.6 | 14.8 | 36.9 | 107.3 | 46-150 |
| LEAD | 51.4 | 358 | 629 | 527.2 * | 67-123 |
| SELENIUM | 206 | 0.0 | 207 | 100.5 | 78-110 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| SILVER | 5.14 | 5.61 | 109.1 | 0.4 | 21 | 74-116 |
| ARSENIC | 206 | 200 | 90.3 | 0.6 | 25 | 75-125 |
| BARIUM | 206 | 495 | 103.4 | 4.2 | 31 | 64-126 |
| CADMIUM | 5.14 | 10.5 | 107.8 | 1.7 | 46 | 52-144 |
| CHROMIUM | 20.6 | 35.5 | 100.5 | 6.5 | 52 | 46-150 |
| LEAD | 51.4 | 508 | 291.8 * | 57.5 * | 28 | 67-123 |
| SELENIUM | 206 | 210 | 101.9 | 1.4 | 16 | 78-110 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 7 outside limits
Spike Recovery: 2 out of 14 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011MS

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*35

Sample wt/vol: 1.19. G Lab File ID: G91185

%Moisture: 18.3 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1301 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.63 | |
| 7440-38-2 | ARSENIC | 199. | |
| 7440-39-3 | BARIUM | 504. | |
| 7440-43-9 | CADMIUM | 10.6 | |
| 7440-47-3 | CHROMIUM | 36.9 | |
| 7439-92-1 | LEAD | 629. | |
| 7782-49-2 | SELENIUM | 207. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011MSD

Lab Name: QST  Project No.: 1298522V  SDG No.: G91185

Matrix: (soil/water) SOIL/  Lab Sample ID: SPM2*TBRKS1*35

Sample wt/vol: 1.19. G  Lab File ID: G91185

%Moisture: 18.3  Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1303  Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.61 | |
| 7440-38-2 | ARSENIC | 200. | |
| 7440-39-3 | BARIUM | 495. | |
| 7440-43-9 | CADMIUM | 10.5 | |
| 7440-47-3 | CHROMIUM | 35.5 | |
| 7439-92-1 | LEAD | 508. | |
| 7782-49-2 | SELENIUM | 210. | |

Client ID

SS-001MS

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91185

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC | # | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| SILVER | 5.23 | 1.91 | 8.03 | 117.0 | * | 74-116 |
| ARSENIC | 209 | 24.7 | 198 | 82.8 | | 75-125 |
| BARIUM | 209 | 310 | 553 | 116.3 | | 64-126 |
| CADMIUM | 5.23 | 51.4 | 71.9 | 392.0 | * | 52-144 |
| CHROMIUM | 20.9 | 21.4 | 50.4 | 138.8 | | 46-150 |
| LEAD | 52.3 | 3880 | 4400 | 994.3 | * | 67-123 |
| SELENIUM | 209 | 15.4 | 209 | 92.8 | | 78-110 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC | # | % RPD | # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|---|---|
| SILVER | 4.96 | 7.45 | 111.7 | | 4.6 | | 21 | 74-116 |
| ARSENIC | 198 | 190 | 83.3 | | 0.6 | | 25 | 75-125 |
| BARIUM | 198 | 498 | 94.9 | | 20.3 | | 31 | 64-126 |
| CADMIUM | 4.96 | 55.7 | 86.7 | | 127.6 | * | 46 | 52-144 |
| CHROMIUM | 19.8 | 37.2 | 79.8 | | 54.0 | * | 52 | 46-150 |
| LEAD | 49.6 | 3170 | 0 | * | 200.0 | * | 28 | 67-123 |
| SELENIUM | 198 | 198 | 92.4 | | 0.4 | | 16 | 78-110 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 7 outside limits
Spike Recovery: 4 out of 14 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*55

Sample wt/vol: 1.10. G Lab File ID: G91185

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1334 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 8.03 | |
| 7440-38-2 | ARSENIC | 198. | |
| 7440-39-3 | BARIUM | 553. | |
| 7440-43-9 | CADMIUM | 71.9 | |
| 7440-47-3 | CHROMIUM | 50.4 | |
| 7439-92-1 | LEAD | 4400. | |
| 7782-49-2 | SELENIUM | 209. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*55

Sample wt/vol: 1.16. G Lab File ID: G91185

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1337 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 7.45 | |
| 7440-38-2 | ARSENIC | 190. | |
| 7440-39-3 | BARIUM | 498. | |
| 7440-43-9 | CADMIUM | 55.7 | |
| 7440-47-3 | CHROMIUM | 37.2 | |
| 7439-92-1 | LEAD | 3170. | |
| 7782-49-2 | SELENIUM | 198. | |

Client ID

BLK2

# QST METHOD BLANK SUMMARY

Lab Name: QST | Project No: 1298522V | SDG No.: G91185

Lab Sample ID: MB*QC*2 | Lab File ID: G91185

Matrix: SOIL/SED | Instrument ID: JA61

Date Analyzed: 06/18/98 | Date Extracted: 06/10/98

Time Analysed: 1121

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| ZO-001 | TBRKS1*17 | 06/18/98 |
| ZO-001MS | SPM1*TBRKS1*17 | 06/18/98 |
| ZO-001MSD | SPM2*TBRKS1*17 | 06/18/98 |
| ZO-101 | TBRKS1*18 | 06/18/98 |
| ZO-002 | TBRKS1*19 | 06/18/98 |
| ZO-003 | TBRKS1*20 | 06/18/98 |
| ZO-004 | TBRKS1*21 | 06/18/98 |
| SD-001 | TBRKS1*22 | 06/18/98 |
| SD-001MS | SPM1*TBRKS1*22 | 06/18/98 |
| SD-001MSD | SPM2*TBRKS1*22 | 06/18/98 |
| SD-101 | TBRKS1*23 | 06/18/98 |
| SD-002 | TBRKS1*24 | 06/18/98 |
| SD-003 | TBRKS1*25 | 06/18/98 |
| SD-008 | TBRKS1*26 | 06/18/98 |
| BK-001 | TBRKS1*30 | 06/18/98 |
| BK-002 | TBRKS1*31 | 06/18/98 |
| BK-003 | TBRKS1*32 | 06/18/98 |
| SS-009 | TBRKS1*33 | 06/18/98 |
| SS-010 | TBRKS1*34 | 06/18/98 |
| SS-011 | TBRKS1*35 | 06/18/98 |
| SS-011MS | SPM1*TBRKS1*35 | 06/18/98 |
| SS-011MSD | SPM2*TBRKS1*35 | 06/18/98 |
| SS-111 | TBRKS1*36 | 06/18/98 |
| SS-012 | TBRKS1*37 | 06/18/98 |
| SS-013 | TBRKS1*38 | 06/18/98 |
| SD-006 | TBRKS1*53 | 06/18/98 |

COMMENTS:

Client ID

BLK2

# QST METHOD BLANK SUMMARY

Lab Name: QST | Project No: 1298522V | SDG No.: G91185

Lab Sample ID: MB*QC*2 | Lab File ID: G91185

Matrix: SOIL/SED | Instrument ID: JA61

Date Analyzed: 06/18/98 | Date Extracted: 06/10/98

Time Analysed: 1121

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| SD-007 | TBRKS1*54 | 06/18/98 |
| SS-001 | TBRKS1*55 | 06/18/98 |
| SS-001MS | SPM1*TBRKS1*55 | 06/18/98 |
| SS-001MSD | SPM2*TBRKS1*55 | 06/18/98 |
| SS-101 | TBRKS1*56 | 06/18/98 |
| SS-002 | TBRKS1*57 | 06/18/98 |
| SS-003 | TBRKS1*58 | 06/18/98 |
| SS-004 | TBRKS1*59 | 06/18/98 |
| SS-005 | TBRKS1*60 | 06/18/98 |
| SS-006 | TBRKS1*61 | 06/18/98 |
| SS-007 | TBRKS1*62 | 06/18/98 |
| SS-008 | TBRKS1*63 | 06/18/98 |
| SD-004 | TBRKS1*64 | 06/18/98 |
| SD-005 | TBRKS1*65 | 06/18/98 |

COMMENTS:

FORM 1
ANALYSIS DATA SHEET

Client ID

BLK2

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: MB*QC*2

Sample wt/vol: . G Lab File ID: G91185

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: ML Date Received: 00/00/00

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1121 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 0.005 | U |
| 7440-38-2 | ARSENIC | 0.100 | U |
| 7440-39-3 | BARIUM | 0.020 | U |
| 7440-43-9 | CADMIUM | 0.005 | U |
| 7440-47-3 | CHROMIUM | 0.010 | U |
| 7439-92-1 | LEAD | 0.100 | U |
| 7782-49-2 | SELENIUM | 0.100 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

LCS1

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: LCS*ERA237*1

Sample wt/vol: 1.09. G Lab File ID: G91185

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 00/00/00

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1122 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 68.2 | |
| 7440-38-2 | ARSENIC | 55.1 | |
| 7440-39-3 | BARIUM | 77.4 | |
| 7440-43-9 | CADMIUM | 51.9 | |
| 7440-47-3 | CHROMIUM | 84.3 | |
| 7439-92-1 | LEAD | 74.7 | |
| 7782-49-2 | SELENIUM | 51.9 | |

Client ID

LCS2

REFERENCE STANDARD

Lab Name: QST

SDG No: G91185

Lab Sample ID: LCS*ERA237*2

Date Analyzed: 06/18/98

Instrument ID: JA61

| Analyte | True (MG/KG) | Found (MG/KG) | # | %Recv | Limits % |
|---|---|---|---|---|---|
| SILVER | 70.6 | 70.4 | | 99.7 | 70-130 |
| ARSENIC | 60.2 | 59.1 | | 98.2 | 70-130 |
| BARIUM | 83.4 | 79.6 | | 95.4 | 75-125 |
| CADMIUM | 52.4 | 52.7 | | 100.6 | 75-125 |
| CHROMIUM | 88.2 | 85.5 | | 96.9 | 75-125 |
| LEAD | 75.1 | 77.0 | | 102.5 | 70-130 |
| SELENIUM | 51.5 | 52.4 | | 101.7 | 75-125 |

# Column to be used to flag recovery outside of QC limits
* Values outside of QC limits

Comments:

FORM V QST

FORM 1
ANALYSIS DATA SHEET

Client ID

LCS2

Lab Name: QST Project No.: 1298522V SDG No.: G91185

Matrix: (soil/water) SOIL/ Lab Sample ID: LCS*ERA237*2

Sample wt/vol: 1.08. G Lab File ID: G91185

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: 100 ML Date Received: 00/00/00

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1124 Date Analyzed: 06/18/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 70.4 | |
| 7440-38-2 | ARSENIC | 59.1 | |
| 7440-39-3 | BARIUM | 79.6 | |
| 7440-43-9 | CADMIUM | 52.7 | |
| 7440-47-3 | CHROMIUM | 85.5 | |
| 7439-92-1 | LEAD | 77.0 | |
| 7782-49-2 | SELENIUM | 52.4 | |

Client ID

ICB1

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: ICB*QC*1 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 0.005 | U | 0.005 |
| AS | 0.011 | J | 0.100 |
| BA | 0.0004 | J | 0.020 |
| CD | -.0001 | J | 0.005 |
| CR | 0.0005 | J | 0.010 |
| PB | 0.009 | J | 0.100 |
| SE | 0.004 | J | 0.100 |



FORM VII QST

Client ID

CCB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*1 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -.001 | J | 0.005 |
| AS | 0.008 | J | 0.100 |
| BA | -.001 | J | 0.020 |
| CD | -.0001 | J | 0.005 |
| CR | -.0005 | J | 0.010 |
| PB | -.004 | J | 0.100 |
| SE | 0.017 | J | 0.100 |



FORM VII QST

Client ID

CCB2

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*2 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 0.0002 | J | 0.005 |
| AS | -.002 | J | 0.100 |
| BA | 0.020 | U | 0.020 |
| CD | 0.0008 | J | 0.005 |
| CR | -.0008 | J | 0.010 |
| PB | 0.013 | J | 0.100 |
| SE | 0.011 | J | 0.100 |



FORM VII QST

Client ID

CCB3

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*3 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 0.0005 | J | 0.005 |
| AS | -.003 | J | 0.100 |
| BA | -.001 | J | 0.020 |
| CD | 0.002 | J | 0.005 |
| CR | -.0005 | J | 0.010 |
| PB | -.013 | J | 0.100 |
| SE | 0.030 | J | 0.100 |



FORM VII QST

Client ID

CCB4

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*4 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -.0002 | J | 0.005 |
| AS | 0.002 | J | 0.100 |
| BA | -.0009 | J | 0.020 |
| CD | 0.0004 | J | 0.005 |
| CR | -.003 | J | 0.010 |
| PB | 0.100 | U | 0.100 |
| SE | 0.013 | J | 0.100 |



FORM VII QST

Client ID

CCB5

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*5 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 0.0007 | J | 0.005 |
| AS | 0.009 | J | 0.100 |
| BA | -.0009 | J | 0.020 |
| CD | 0.001 | J | 0.005 |
| CR | 0.001 | J | 0.010 |
| PB | -.004 | J | 0.100 |
| SE | 0.020 | J | 0.100 |



FORM VII QST

Client ID

CCB6

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*6 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -.0007 | J | 0.005 |
| AS | -.006 | J | 0.100 |
| BA | -.0009 | J | 0.020 |
| CD | 0.0005 | J | 0.005 |
| CR | -.0005 | J | 0.010 |
| PB | 0.002 | J | 0.100 |
| SE | -.0007 | J | 0.100 |



FORM VII QST

Client ID

CCB7

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91185

Lab Sample ID: CCB*QC*7 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -.0005 | J | 0.005 |
| AS | -.0006 | J | 0.100 |
| BA | -.0004 | J | 0.020 |
| CD | 0.001 | J | 0.005 |
| CR | -.001 | J | 0.010 |
| PB | -.0006 | J | 0.100 |
| SE | 0.002 | J | 0.100 |



FORM VII QST

Client ID

ICV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: ICV*QCS26*1  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1100

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.987 | 1.00 | | 1.3 |
| AS | | | | 0.976 | 1.00 | | 2.4 |
| BA | | | | 0.990 | 1.00 | | 1.0 |
| CD | | | | 0.987 | 1.00 | | 1.3 |
| CR | | | | 0.996 | 1.00 | | 0.4 |
| PB | | | | 1.01 | 1.00 | | 1.0 |
| SE | | | | 1.02 | 1.00 | | 2.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*STD2*1  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1056

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AS | | | | 0.970 | 1.00 | | 3.0 |
| BA | | | | 1.00 | 1.00 | | 0.0 |
| CD | | | | 0.994 | 1.00 | | 0.6 |
| CR | | | | 0.998 | 1.00 | | 0.2 |
| PB | | | | 0.994 | 1.00 | | 0.6 |
| SE | | | | 1.02 | 1.00 | | 2.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV2

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*STD4*1  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1058

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.999 | 1.00 | | 0.1 |

QC LIMITS:



FORM VIII QST

Client ID

CCV3

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*1  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1127

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.489 | 0.500 | | 2.2 |
| AS | | | | 0.507 | 0.500 | | 1.4 |
| BA | | | | 0.502 | 0.500 | | 0.4 |
| CD | | | | 0.497 | 0.500 | | 0.6 |
| CR | | | | 0.494 | 0.500 | | 1.2 |
| PB | | | | 0.494 | 0.500 | | 1.2 |
| SE | | | | 0.528 | 0.500 | | 5.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV4

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*2  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1154

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.492 | 0.500 | | 1.6 |
| AS | | | | 0.519 | 0.500 | | 3.8 |
| BA | | | | 0.506 | 0.500 | | 1.2 |
| CD | | | | 0.499 | 0.500 | | 0.2 |
| CR | | | | 0.498 | 0.500 | | 0.4 |
| PB | | | | 0.504 | 0.500 | | 0.8 |
| SE | | | | 0.493 | 0.500 | | 1.4 |

QC LIMITS:



FORM VIII QST

Client ID

CCV5

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*3  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1226

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.488 | 0.500 | | 2.4 |
| AS | | | | 0.475 | 0.500 | | 5.0 |
| BA | | | | 0.504 | 0.500 | | 0.8 |
| CD | | | | 0.493 | 0.500 | | 1.4 |
| CR | | | | 0.493 | 0.500 | | 1.4 |
| PB | | | | 0.501 | 0.500 | | 0.2 |
| SE | | | | 0.508 | 0.500 | | 1.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV6

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*4  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1305

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.488 | 0.500 | | 2.4 |
| AS | | | | 0.496 | 0.500 | | 0.8 |
| BA | | | | 0.508 | 0.500 | | 1.6 |
| CD | | | | 0.493 | 0.500 | | 1.4 |
| CR | | | | 0.494 | 0.500 | | 1.2 |
| PB | | | | 0.482 | 0.500 | | 3.6 |
| SE | | | | 0.515 | 0.500 | | 3.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV7

# CALIBRATION VERIFICATION

Lab Name: QST | Project No: 1298522V | SDG No: G91185

Lab Sample ID: CCV*QC*5 | Date Analyzed: 06/18/98

Instrument ID: JA61 | Time Analyzed: 1340

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.492 | 0.500 | | 1.6 |
| AS | | | | 0.492 | 0.500 | | 1.6 |
| BA | | | | 0.509 | 0.500 | | 1.8 |
| CD | | | | 0.497 | 0.500 | | 0.6 |
| CR | | | | 0.496 | 0.500 | | 0.8 |
| PB | | | | 0.507 | 0.500 | | 1.4 |
| SE | | | | 0.530 | 0.500 | | 6.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV8

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*6  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1428

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.485 | 0.500 | | 3.0 |
| AS | | | | 0.485 | 0.500 | | 3.0 |
| BA | | | | 0.505 | 0.500 | | 1.0 |
| CD | | | | 0.489 | 0.500 | | 2.2 |
| CR | | | | 0.485 | 0.500 | | 3.0 |
| PB | | | | 0.487 | 0.500 | | 2.6 |
| SE | | | | 0.490 | 0.500 | | 2.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV9

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91185

Lab Sample ID: CCV*QC*7  Date Analyzed: 06/18/98

Instrument ID: JA61  Time Analyzed: 1448

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/ML) | True (UG/ML) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 0.482 | 0.500 | | 3.6 |
| AS | | | | 0.472 | 0.500 | | 5.6 |
| BA | | | | 0.503 | 0.500 | | 0.6 |
| CD | | | | 0.491 | 0.500 | | 1.8 |
| CR | | | | 0.484 | 0.500 | | 3.2 |
| PB | | | | 0.489 | 0.500 | | 2.2 |
| SE | | | | 0.491 | 0.500 | | 1.8 |

QC LIMITS:



FORM VIII QST

Client ID

REFERENCE STANDARD

LCS1

Lab Name: QST

SDG No: G91185

Lab Sample ID: LCS*ERA237*1

Date Analyzed: 06/18/98

Instrument ID: JA61

| Analyte | True (MG/KG) | Found (MG/KG) | # | %Recv | Limits % |
|---|---|---|---|---|---|
| SILVER | 70.6 | 68.2 | | 96.6 | 70-130 |
| ARSENIC | 60.2 | 55.1 | | 91.5 | 70-130 |
| BARIUM | 83.4 | 77.4 | | 92.8 | 75-125 |
| CADMIUM | 52.4 | 51.9 | | 99.0 | 75-125 |
| CHROMIUM | 88.2 | 84.3 | | 95.6 | 75-125 |
| LEAD | 75.1 | 74.7 | | 99.5 | 70-130 |
| SELENIUM | 51.5 | 51.9 | | 100.8 | 75-125 |

# Column to be used to flag recovery outside of QC limits
* Values outside of QC limits

Comments:

FORM V QST

**Raw Data**

**JA 61 ICAP Instrument Log**
**QST Environmental**

Analyst: Kent Brakefield Date: 6/18/98

| | PROFILING | | |
|---|---|---|---|
| | Initial | Final | OPTIMIZATION |
| Temperature: | 72°F | | Cu/Mn 1180/864 = 1.3657 |
| Humidity: | 75% | | Coolant flow (LPM): 15.0 |
| Entr. Slit: | 788 | | Coolant mass flow: 15.0 |
| Ele.: CQ | — | | Nebulizer flow (LPM): 0.75 |
| Element File Used: RCRA | | | Nebulizer mass flow: 0.54 |
| | | | Forward power: 1.1 KW |
| | | | Reflected power: ~ 6W |
| File Name: 618KSB | | | Peristaltic pump: 850 |
| | | | Viewing height 15 mm above coil |
| | | | Y tongue 0 mm above torch |
| Method No.: SW6010B | | | |
| | | | |
| | | | |
| | | | |

Maintenance/Comments:

Samples Analyzed: TBRKS1 # 17-26, 30-38, 53-57

Read & Understood By: [signature] 6/18/98

f:\admin\common\forms\1233\ja61icap.log BOOK # 1576 PAGE #

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 1 | STD1-Blank | 618KSB | RCRA | 06/18/98 | 10:45 | | X | IR |
| 2 | STD2 | 618KSB | RCRA | 06/18/98 | 10:47 | | X | IR |
| 3 | STD3 | 618KSB | RCRA | 06/18/98 | 10:49 | | X | IR |
| 4 | STD4 | 618KSB | RCRA | 06/18/98 | 10:52 | | X | IR |
| 5 | STD5 | 618KSB | RCRA | 06/18/98 | 10:53 | | X | IR |
| 6 | CCV*STD2*1 | 618KSB | RCRA | 06/18/98 | 10:56 | KSB | S | CONC |
| 7 | CCV*STD4*1 | 618KSB | RCRA | 06/18/98 | 10:58 | KSB | S | CONC |
| 8 | ICV*QCS26*1 | 618KSB | RCRA | 06/18/98 | 11:00 | KSB | S | CONC |
| 9 | ICB*QC*1 | 618KSB | RCRA | 06/18/98 | 11:01 | KSB | S | CONC |
| 10 | ICS*A*1 | 618KSB | RCRA | 06/18/98 | 11:03 | KSB | S | CONC |
| 11 | ICS*AB*1 | 618KSB | RCRA | 06/18/98 | 11:08 | KSB | S | CONC |
| 12 | MB*QC*1 | 618KSB | RCRA | 06/18/98 | 11:19 | KSB | S | CONC |
| 13 | MB*QC*2 | 618KSB | RCRA | 06/18/98 | 11:21 | KSB | S | CONC |
| 14 | LCS*ERA237*1 | 618KSB | RCRA | 06/18/98 | 11:22 | KSB | S | CONC |
| 15 | LCS*ERA237*2 | 618KSB | RCRA | 06/18/98 | 11:24 | KSB | S | CONC |
| 16 | CCV*QC*1 | 618KSB | RCRA | 06/18/98 | 11:27 | KSB | S | CONC |
| 17 | CCB*QC*1 | 618KSB | RCRA | 06/18/98 | 11:29 | KSB | S | CONC |
| (A) 18 | TBRKS1*17 (1:10) | 618KSB | RCRA | 06/18/98 | 11:31 | KSB | S | CONC |
| (B) 19 | SD*TBRKS1*17 | 618KSB | RCRA | 06/18/98 | 11:35 | KSB | S | CONC |
| (C) 20 | SPX*TBRKS1*17 | 618KSB | RCRA | 06/18/98 | 11:37 | KSB | S | CONC |
| (A) 21 | SPM1*TBRKS1*17 (1:10) | 618KSB | RCRA | 06/18/98 | 11:39 | KSB | S | CONC |
| 22 | SPM2*TBRKS1*17 | 618KSB | RCRA | 06/18/98 | 11:42 | KSB | S | CONC |
| 23 | TBRKS1*18 | 618KSB | RCRA | 06/18/98 | 11:44 | KSB | S | CONC |
| 24 | TBRKS1*19 | 618KSB | RCRA | 06/18/98 | 11:46 | KSB | S | CONC |
| 25 | TBRKS1*20 | 618KSB | RCRA | 06/18/98 | 11:49 | KSB | S | CONC |
| 26 | TBRKS1*21 | 618KSB | RCRA | 06/18/98 | 11:52 | KSB | S | CONC |
| 27 | CCV*QC*2 | 618KSB | RCRA | 06/18/98 | 11:54 | KSB | S | CONC |
| 28 | CCB*QC*2 | 618KSB | RCRA | 06/18/98 | 11:56 | KSB | S | CONC |
| (A) 29 | TBRKS1*22-Not used (1:10) | 618KSB | RCRA | 06/18/98 | 11:59 | KSB | S | CONC |
| (D) 30 | TBRKS1*22 | 618KSB | RCRA | 06/18/98 | 12:02 | KSB | S | CONC |
| 31 | SD*TBRKS1*22 | 618KSB | RCRA | 06/18/98 | 12:04 | KSB | S | CONC |
| 32 | SPX*TBRKS1*22 | 618KSB | RCRA | 06/18/98 | 12:06 | KSB | S | CONC |
| 33 | SPM1*TBRKS1*22 | 618KSB | RCRA | 06/18/98 | 12:11 | KSB | S | CONC |
| 34 | SPM2*TBRKS1*22 | 618KSB | RCRA | 06/18/98 | 12:13 | KSB | S | CONC |
| 35 | TBRKS1*23 | 618KSB | RCRA | 06/18/98 | 12:15 | KSB | S | CONC |
| 36 | TBRKS1*24 | 618KSB | RCRA | 06/18/98 | 12:17 | KSB | S | CONC |
| 37 | TBRKS1*25 | 618KSB | RCRA | 06/18/98 | 12:20 | KSB | S | CONC |
| 38 | TBRKS1*26 | 618KSB | RCRA | 06/18/98 | 12:23 | KSB | S | CONC |
| 39 | CCV*QC*3 | 618KSB | RCRA | 06/18/98 | 12:26 | KSB | S | CONC |
| 40 | CCB*QC*3 | 618KSB | RCRA | 06/18/98 | 12:29 | KSB | S | CONC |
| (D) 41 | TBRKS1*30 | 618KSB | RCRA | 06/18/98 | 12:40 | KSB | S | CONC |
| 42 | TBRKS1*31 | 618KSB | RCRA | 06/18/98 | 12:43 | KSB | S | CONC |
| 43 | TBRKS1*32 | 618KSB | RCRA | 06/18/98 | 12:46 | KSB | S | CONC |
| 44 | TBRKS1*33 | 618KSB | RCRA | 06/18/98 | 12:48 | KSB | S | CONC |
| 45 | TBRKS1*34 | 618KSB | RCRA | 06/18/98 | 12:51 | KSB | S | CONC |
| 46 | TBRKS1*35 | 618KSB | RCRA | 06/18/98 | 12:54 | KSB | S | CONC |
| 47 | SD*TBRKS1*35 | 618KSB | RCRA | 06/18/98 | 12:57 | KSB | S | CONC |
| 48 | SPX*TBRKS1*35 | 618KSB | RCRA | 06/18/98 | 12:59 | KSB | S | CONC |
| 49 | SPM1*TBRKS1*35 | 618KSB | RCRA | 06/18/98 | 13:01 | KSB | S | CONC |
| 50 | SPM2*TBRKS1*35 | 618KSB | RCRA | 06/18/98 | 13:03 | KSB | S | CONC |
| 51 | CCV*QC*4 | 618KSB | RCRA | 06/18/98 | 13:05 | KSB | S | CONC |
| 52 | CCB*QC*4 | 618KSB | RCRA | 06/18/98 | 13:07 | KSB | S | CONC |
| (D) 53 | TBRKS1*36 | 618KSB | RCRA | 06/18/98 | 13:09 | KSB | S | CONC |

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| (D)54 | TBRKS1*37 | 618KSB | RCRA | 06/18/98 | 13:12 | KSB | S | CONC |
| 55 | TBRKS1*38 | 618KSB | RCRA | 06/18/98 | 13:14 | KSB | S | CONC |
| 56 | TBRKS1*53 | 618KSB | RCRA | 06/18/98 | 13:16 | KSB | S | CONC |
| (A)57 | TBRKS1*54 (1:10) | 618KSB | RCRA | 06/18/98 | 13:22 | KSB | S | CONC |
| (D)58 | TBRKS1*55 | 618KSB | RCRA | 06/18/98 | 13:26 | KSB | S | CONC |
| 59 | SD*TBRKS1*55 | 618KSB | RCRA | 06/18/98 | 13:30 | KSB | S | CONC |
| 60 | SPX*TBRKS1*55 | 618KSB | RCRA | 06/18/98 | 13:32 | KSB | S | CONC |
| 61 | SPM1*TBRKS1*55 | 618KSB | RCRA | 06/18/98 | 13:34 | KSB | S | CONC |
| 62 | SPM2*TBRKS1*55 | 618KSB | RCRA | 06/18/98 | 13:37 | KSB | S | CONC |
| 63 | CCV*QC*5 | 618KSB | RCRA | 06/18/98 | 13:40 | KSB | S | CONC |
| 64 | CCB*QC*5 | 618KSB | RCRA | 06/18/98 | 13:42 | KSB | S | CONC |
| (D)65 | TBRKS1*56 | 618KSB | RCRA | 06/18/98 | 13:57 | KSB | S | CONC |
| (A)66 | TBRKS1*57 (1:10) | 618KSB | RCRA | 06/18/98 | 14:02 | KSB | S | CONC |
| (E)67 | TBRKS1*58 (1:20) | 618KSB | RCRA | 06/18/98 | 14:05 | KSB | S | CONC |
| (D)68 | TBRKS1*59 | 618KSB | RCRA | 06/18/98 | 14:08 | KSB | S | CONC |
| 69 | TBRKS1*60 | 618KSB | RCRA | 06/18/98 | 14:12 | KSB | S | CONC |
| 70 | TBRKS1*61 | 618KSB | RCRA | 06/18/98 | 14:15 | KSB | S | CONC |
| 71 | TBRKS1*62 | 618KSB | RCRA | 06/18/98 | 14:17 | KSB | S | CONC |
| (F)72 | TBRKS1*63 - Not used. | 618KSB | RCRA | 06/18/98 | 14:20 | KSB | S | CONC |
| (A)73 | TBRKS1*63 (1:10) | 618KSB | RCRA | 06/18/98 | 14:23 | KSB | S | CONC |
| (D)74 | TBRKS1*64 | 618KSB | RCRA | 06/18/98 | 14:25 | KSB | S | CONC |
| 75 | CCV*QC*6 | 618KSB | RCRA | 06/18/98 | 14:28 | KSB | S | CONC |
| 76 | CCB*QC*6 | 618KSB | RCRA | 06/18/98 | 14:30 | KSB | S | CONC |
| (D)77 | TBRKS1*65 | 618KSB | RCRA | 06/18/98 | 14:32 | KSB | S | CONC |
| 78 | ICS*A*2 | 618KSB | RCRA | 06/18/98 | 14:42 | KSB | S | CONC |
| 79 | ICS*AB*2 | 618KSB | RCRA | 06/18/98 | 14:46 | KSB | S | CONC |
| 80 | CCV*QC*7 | 618KSB | RCRA | 06/18/98 | 14:48 | KSB | S | CONC |
| 81 | CCB*QC*7 | 618KSB | RCRA | 06/18/98 | 14:50 | KSB | S | CONC |

(A) - 10X dilution
(B) - Serial dilution of 10X dilution
(C) - SPX on 10X dilution
(D) - No dilution required
(E) - 20X dilution
(F) - Data not used. See diluted data.

Note:
Samples were predilutted based on appearance (color) of the digestates. Greenish tint indicates potential for high Copper concentrations.
KSB 6/18/98

QST - ICAP (TJA01)
Kent Bakefield

Method: RCRA Standard: STD1-Blank

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Avge | .0028 | .0394 | -.0048 | .0002 | .0012 | .0002 | .0004 |
| SDev | .0003 | .0031 | .0040 | .0000 | .0000 | .0000 | .0006 |
| %RSD | 10.10 | 7.897 | 82.50 | .0000 | .0000 | .0000 | 141.4 |
| #1 | .0026 | .0372 | -.0076 | .0002 | .0012 | .0002 | .0000 |
| #2 | .0030 | .0416 | -.0020 | .0002 | .0012 | .0002 | .0008 |

| Elem | Cr2677 | Cu3247 | Fe | Fe | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|
| Avge | .0012 | .0024 | .0012 | .0006 | .0001 | .0110 | .0006 |
| SDev | .0014 | .0003 | .0014 | .0000 | .0001 | .0000 | .0003 |
| %RSD | 117.9 | 11.79 | 117.9 | .0000 | 141.4 | .0000 | 47.14 |
| #1 | .0002 | .0022 | .0002 | .0006 | .0000 | .0110 | .0004 |
| #2 | .0022 | .0026 | .0022 | .0006 | .0002 | .0110 | .0008 |

| Elem | Ni2316 | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|
| Avge | .0009 | .0034 | .1598 | .0000 | -.0012 | .0014 |
| SDev | .0015 | .0020 | .0017 | .0000 | .0003 | .0003 |
| %RSD | 174.7 | 58.23 | 1.062 | .0000 | 23.57 | 20.20 |
| #1 | -.0002 | .0020 | .1586 | .0000 | -.0014 | .0016 |
| #2 | .0019 | .0048 | .1610 | .0000 | -.0010 | .0012 |

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Method: RCRA Standard: STD2

| Elem | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 | Cr2677 | Cu3247 |
|---|---|---|---|---|---|---|---|
| Avge | .2044 | .2272 | .2161 | .2437 | .2492 | .3847 | .3946 |
| SDev | .0065 | .0003 | .0010 | .0007 | .0011 | .0021 | .0008 |
| %RSD | 3.183 | .1245 | .4581 | .2902 | .4540 | .5514 | .2150 |
| #1 | .2090 | .2274 | .2168 | .2432 | .2500 | .3862 | .3952 |
| #2 | .1998 | .2270 | .2154 | .2442 | .2484 | .3832 | .3940 |

| Elem | Mn2576 | Ni2316 | Pb2203 | Se1960 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|
| Avge | .3334 | .2075 | .1758 | .3259 | .2513 | .4567 |
| SDev | .0017 | .0028 | .0008 | .0024 | .0018 | .0010 |
| %RSD | .5090 | 1.363 | .4827 | .7377 | .7316 | .2168 |
| #1 | .3346 | .2095 | .1752 | .3242 | .2526 | .4574 |
| #2 | .3322 | .2055 | .1764 | .3276 | .2500 | .4560 |

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Method: RCRA Standard: STD3

| Elem | Al3082 | Fe | Fe | Mg2790 |
|---|---|---|---|---|
| Avge | 2.743 | .3429 | 2.435 | .4663 |
| SDev | .002 | .0018 | .001 | .0007 |
| %RSD | .0722 | .5362 | .0523 | .1516 |
| #1 | 2.744 | .3442 | 2.436 | .4668 |
| #2 | 2.742 | .3416 | 2.434 | .4658 |

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Method: RCRA Standard: STD4

| Elem | Ag3280 |
|---|---|
| Avge | .4173 |
| SDev | .0018 |
| %RSD | .4406 |
| #1 | .4186 |
| #2 | .4160 |

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Method: RCRA Standard: STD5

| Elem | Mo2020 | Ti3349 |
|---|---|---|
| Avge | .1649 | .2563 |
| SDev | .0013 | .0010 |
| %RSD | .7719 | .3862 |
| #1 | .1640 | .2556 |
| #2 | .1658 | .2570 |

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Method: RCRA Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std | Slope | Y-intercept | Date Standardizec |
|---|---|---|---|---|---|---|
| Ag3280 | 328.068 | STD4 | STD1-Blank | 2.41255 | -.006755 | 06/18/98 10:53:35 |
| Al3082 | 308.215 | STD3 | STD1-Blank | 3.69877 | -.145732 | 06/18/98 10:53:35 |
| As1936 | 193.696 | STD2 | STD1-Blank | 4.78011 | .022945 | 06/18/98 10:53:35 |
| Ba4934 | 493.409 | STD2 | STD1-Blank | 4.40529 | -.000881 | 06/18/98 10:53:35 |
| Be3130 | 313.042 | STD2 | STD1-Blank | 4.65333 | -.005584 | 06/18/98 10:53:35 |
| Cd2288 | 228.802 | STD2 | STD1-Blank | 4.10678 | -.000821 | 06/18/98 10:53:35 |
| Co2286 | 228.616 | STD2 | STD1-Blank | 4.01929 | -.001608 | 06/18/98 10:53:35 |
| Cr2677 | 267.716 | STD2 | STD1-Blank | 2.60756 | -.003129 | 06/18/98 10:53:35 |
| Cu3247 | 324.754 | STD2 | STD1-Blank | 2.54972 | -.006119 | 06/18/98 10:53:35 |
| Fe | 259.940 | STD3 | STD1-Blank | 4.10728 | -.002464 | 06/18/98 10:53:35 |
| Fe | 271.441 | STD3 | STD1-Blank | 29.2654 | -.035119 | 06/18/98 10:53:35 |
| Mg2790 | 279.079 | STD3 | STD1-Blank | 21.4500 | -.002145 | 06/18/98 10:53:35 |
| Mn2576 | 257.610 | STD2 | STD1-Blank | 3.10174 | -.034119 | 06/18/98 10:53:35 |
| Mo2020 | 202.030 | STD5 | STD1-Blank | 6.08643 | -.003652 | 06/18/98 10:53:35 |
| Ni2316 | 231.604 | STD2 | STD1-Blank | 4.83910 | -.004113 | 06/18/98 10:53:35 |
| Pb2203 | 220.353 | STD2 | STD1-Blank | 5.80046 | -.019722 | 06/18/98 10:53:35 |
| Se1960 | 196.026 | STD2 | STD1-Blank | 6.02047 | -.962071 | 06/18/98 10:53:35 |
| Ti3349 | 334.941 | STD5 | STD1-Blank | 3.90168 | .000000 | 06/18/98 10:53:35 |
| V_2924 | 292.402 | STD2 | STD1-Blank | 3.96040 | .004752 | 06/18/98 10:53:35 |
| Zn2138 | 213.856 | STD2 | STD1-Blank | 2.19635 | -.003075 | 06/18/98 10:53:35 |

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Method: RCRA Slope = IR/Conc(SIR)

| Element | Wavelen | High std | Low std | Slope | BEC | Date Standardizec |
|---|---|---|---|---|---|---|
| Ag3280 | 328.068 | STD4 | STD1-Blank | .414500 | .006755 | 06/18/98 10:53:35 |
| Al3082 | 308.215 | STD3 | STD1-Blank | .270360 | .145732 | 06/18/98 10:53:35 |
| As1936 | 193.696 | STD2 | STD1-Blank | .209200 | .022945 | 06/18/98 10:53:35 |
| Ba4934 | 493.409 | STD2 | STD1-Blank | .227000 | .000881 | 06/18/98 10:53:35 |
| Be3130 | 313.042 | STD2 | STD1-Blank | .214900 | .005584 | 06/18/98 10:53:35 |
| Cd2288 | 228.802 | STD2 | STD1-Blank | .243500 | .000821 | 06/18/98 10:53:35 |

| Element | Wavelen | High std | Low std | Slope | BEC | Date Standardizec |
|---|---|---|---|---|---|---|
| Co2286 | 228.616 | STD2 | STD1-Blank | .248800 | .001608 | 06/18/98 10:53:35 |
| Cr2677 | 267.716 | STD2 | STD1-Blank | .383500 | .003129 | 06/18/98 10:53:35 |
| Cu3247 | 324.754 | STD2 | STD1-Blank | .392200 | .006119 | 06/18/98 10:53:35 |
| Fe | 259.940 | STD3 | STD1-Blank | .243470 | .002464 | 06/18/98 10:53:35 |
| Fe | 271.441 | STD3 | STD1-Blank | .034170 | .035119 | 06/18/98 10:53:35 |
| Mg2790 | 279.079 | STD3 | STD1-Blank | .046620 | .002145 | 06/18/98 10:53:35 |
| Mn2576 | 257.610 | STD2 | STD1-Blank | .322400 | .034119 | 06/18/98 10:53:35 |
| Mo2020 | 202.030 | STD5 | STD1-Blank | .164300 | .003652 | 06/18/98 10:53:35 |
| Ni2316 | 231.604 | STD2 | STD1-Blank | .206650 | .004113 | 06/18/98 10:53:35 |
| Pb2203 | 220.353 | STD2 | STD1-Blank | .172400 | .019722 | 06/18/98 10:53:35 |
| Se1960 | 196.026 | STD2 | STD1-Blank | .166100 | .962071 | 06/18/98 10:53:35 |
| Ti3349 | 334.941 | STD5 | STD1-Blank | .256300 | .000000 | 06/18/98 10:53:35 |
| V_2924 | 292.402 | STD2 | STD1-Blank | .252500 | .004752 | 06/18/98 10:53:35 |
| Zn2138 | 213.856 | STD2 | STD1-Blank | .455300 | .003075 | 06/18/98 10:53:35 |

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Method: RCRA Sample Name: CCV*STD2*1 Operator: KSB
Run Time: 06/18/98 10:56:18
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0007 | -.0084 | .9705 | 1.000 | .9949 | .9940 | .9941 |
| SDev | .0017 | .0077 | .0108 | .004 | .0066 | .0069 | .0119 |
| %RSD | 233.5 | 91.41 | 1.117 | .4049 | .6583 | .6898 | 1.200 |
| #1 | .0005 | -.0030 | .9628 | .9974 | .9903 | .9891 | .9856 |
| #2 | -.0019 | -.0138 | .9782 | 1.003 | .9995 | .9988 | 1.003 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9984 | .9982 | .0041 | -.0044 | .9991 | -.0053 | .9978 |
| SDev | .0040 | .0047 | .0000 | .0091 | .0057 | .0026 | .0021 |
| %RSD | .4052 | .4698 | .0031 | 205.2 | .5708 | 49.13 | .2061 |
| #1 | .9955 | .9949 | .0041 | -.0109 | .9950 | -.0034 | .9993 |
| #2 | 1.001 | 1.002 | .0041 | .0020 | 1.003 | -.0071 | .9964 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .9944 | 1.015 | -.0007 | .9970 | .9934 |
| SDev | .0140 | .007 | .0006 | .0067 | .0015 |
| %RSD | 1.406 | .6674 | 84.21 | .6743 | .1555 |
| #1 | .9845 | 1.011 | -.0003 | .9922 | .9923 |
| #2 | 1.004 | 1.020 | -.0010 | 1.002 | .9945 |

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Method: RCRA Sample Name: CCV*STD4*1 Operator: KSB
Run Time: 06/18/98 10:58:18
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9990 | -.0103 | .0077 | -.0013 | .0019 | -.0001 | -.0008 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0037 | .0136 | .0107 | .0006 | .0000 | .0011 | .0011 |
| %RSD | .3756 | 132.4 | 138.1 | 47.14 | .1387 | 1548. | 142.5 |
| #1 | 1.002 | -.0200 | .0002 | -.0018 | .0019 | -.0008 | -.0016 |
| #2 | .9964 | -.0007 | .0153 | -.0009 | .0019 | .0007 | .0000 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0042 | -.0018 | .0025 | -.0108 | .0000 | -.0043 | -.0029 |
| SDev | .0015 | .0004 | .0000 | .0121 | .0000 | .0026 | .0031 |
| %RSD | 35.10 | 20.30 | .0197 | 112.3 | 153.3 | 60.65 | 106.1 |
| #1 | -.0052 | -.0020 | .0025 | -.0193 | .0000 | -.0024 | -.0007 |
| #2 | -.0031 | -.0015 | .0025 | -.0022 | -.0000 | -.0061 | -.0051 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0029 | -.0138 | -.0016 | -.0004 | .0055 |
| SDev | .0090 | .0043 | .0011 | .0006 | .0003 |
| %RSD | 309.2 | 31.30 | 70.74 | 144.0 | 5.783 |
| #1 | .0093 | -.0107 | -.0023 | -.0008 | .0053 |
| #2 | -.0035 | -.0168 | -.0008 | .0000 | .0057 |

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Method: RCRA Sample Name: ICV*QCS26*1 Operator: KSB
Run Time: 06/18/98 11:00:15
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9872 | .9787 | .9764 | .9903 | .9967 | .9869 | .9854 |
| SDev | .0003 | .0058 | .0209 | .0000 | .0013 | .0074 | .0034 |
| %RSD | .0343 | .5910 | 2.135 | .0000 | .1307 | .7474 | .3460 |
| #1 | .9875 | .9746 | .9616 | .9903 | .9958 | .9817 | .9830 |
| #2 | .9870 | .9828 | .9911 | .9903 | .9976 | .9922 | .9878 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9960 | 1.001 | .9882 | 1.011 | .9986 | 1.015 | 1.006 |
| SDev | .0015 | .001 | .0023 | .052 | .0026 | .000 | .010 |
| %RSD | .1479 | .0720 | .2353 | 5.103 | .2634 | .0014 | .9863 |
| #1 | .9950 | 1.002 | .9898 | .9746 | .9968 | 1.015 | 1.013 |
| #2 | .9970 | 1.001 | .9865 | 1.048 | 1.000 | 1.015 | .9991 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.014 | 1.018 | 1.001 | 1.009 | .9788 |
| SDev | .004 | .032 | .001 | .003 | .0021 |
| %RSD | .4046 | 3.172 | .0551 | .2775 | .2186 |
| #1 | 1.011 | .9951 | 1.001 | 1.007 | .9803 |
| #2 | 1.016 | 1.041 | 1.002 | 1.011 | .9773 |

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Method: RCRA Sample Name: ICB*QC*1 Operator: KSB
Run Time: 06/18/98 11:01:48
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0000 | .0008 | .0110 | .0004 | .0019 | -.0001 | .0036 |
| SDev | .0014 | .0084 | .0074 | .0006 | .0000 | .0001 | .0006 |
| %RSD | 76940. | 1094. | 67.05 | 141.4 | .2794 | 60.66 | 15.69 |
| #1 | .0010 | .0067 | .0162 | .0009 | .0019 | -.0001 | .0040 |
| #2 | -.0010 | -.0052 | .0058 | .0000 | .0019 | -.0001 | .0032 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0005 | .0008 | .0004 | .0279 | .0006 | .0024 | -.0036 |
| SDev | .0007 | .0018 | .0006 | .0182 | .0009 | .0017 | .0007 |
| %RSD | 138.7 | 236.3 | 142.0 | 65.13 | 141.5 | 70.82 | 18.84 |
| #1 | .0010 | .0020 | -.0000 | .0408 | .0012 | .0012 | -.0031 |
| #2 | .0000 | -.0005 | .0008 | .0151 | -.0000 | .0036 | -.0041 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0093 | .0042 | -.0000 | -.0008 | .0002 |
| SDev | .0033 | .0195 | .0000 | .0011 | .0009 |
| %RSD | 35.30 | 468.2 | 138.7 | 141.1 | 401.3 |
| #1 | .0116 | .0180 | -.0000 | -.0000 | .0009 |
| #2 | .0070 | -.0096 | -.0000 | -.0016 | -.0004 |

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Method: RCRA Sample Name: ICS*A*1 Operator: KSB
Run Time: 06/18/98 11:03:58
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0058 | 492.3 | -.1658 | .0086 | .0009 | .0013 | -.0027 |
| SDev | .0014 | .7 | .0274 | .0003 | .0000 | .0009 | .0039 |
| %RSD | 23.63 | .1413 | 16.55 | 3.626 | .4789 | 72.20 | 144.0 |
| #1 | -.0048 | 492.8 | -.1852 | .0088 | .0009 | .0006 | .0000 |
| #2 | -.0067 | 491.8 | -.1464 | .0084 | .0009 | .0020 | -.0055 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0037 | -.0033 | 174.4 | 486.3 | .0106 | -.0027 | -.0046 |
| SDev | .0029 | .0011 | .8 | .6 | .0003 | .0008 | .0007 |
| %RSD | 80.51 | 32.62 | .4521 | .1178 | 3.292 | 30.69 | 14.90 |
| #1 | -.0057 | -.0025 | 174.9 | 486.7 | .0109 | -.0021 | -.0051 |
| #2 | -.0016 | -.0041 | 173.8 | 485.9 | .0104 | -.0033 | -.0041 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0075 | -.0022 | .0035 | .0079 | .0142 |
| SDev | .0006 | .0173 | .0006 | .0009 | .0001 |
| %RSD | 7.984 | 801.1 | 15.73 | 11.68 | .7507 |
| #1 | .0079 | -.0144 | .0039 | .0086 | .0141 |
| #2 | .0071 | .0101 | .0031 | .0072 | .0143 |

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Method: RCRA Sample Name: ICS*AB*1 Operator: KSB
Run Time: 06/18/98 11:08:28
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9402 | 495.6 | .8826 | .4861 | .4687 | .9216 | .4349 |
| SDev | .0021 | 1.0 | .0630 | .0016 | .0000 | .0059 | .0023 |
| %RSD | .2178 | .2065 | 7.134 | .3204 | .0006 | .6392 | .5255 |
| #1 | .9416 | 496.3 | .9271 | .4872 | .4687 | .9258 | .4366 |
| #2 | .9388 | 494.9 | .8380 | .4850 | .4687 | .9174 | .4333 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4464 | .4704 | 176.1 | 488.4 | .4635 | -.0064 | .8772 |
| SDev | .0011 | .0004 | .2 | .9 | .0008 | .0060 | .0024 |
| %RSD | .2443 | .0758 | .1204 | .1907 | .1785 | 94.33 | .2727 |
| #1 | .4471 | .4702 | 175.9 | 489.1 | .4641 | -.0106 | .8789 |
| #2 | .4456 | .4707 | 176.2 | 487.8 | .4629 | -.0021 | .8755 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8984 | .9361 | .0034 | .4774 | .9124 |
| SDev | .0114 | .0315 | .0017 | .0006 | .0019 |
| %RSD | 1.265 | 3.366 | 48.80 | .1299 | .2039 |
| #1 | .8904 | .9138 | .0022 | .4779 | .9137 |
| #2 | .9065 | .9584 | .0046 | .4770 | .9110 |

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Method: RCRA Sample Name: MB*QC*1 Operator: KSB
Run Time: 06/18/98 11:19:36
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0007 | .0015 | .0091 | -.0011 | -.0000 | -.0005 | .0000 |
| SDev | .0024 | .0031 | .0060 | .0003 | .0000 | .0018 | .0011 |
| %RSD | 331.2 | 203.0 | 66.59 | 28.28 | 234.6 | 370.8 | 28140. |
| #1 | .0010 | .0037 | .0133 | -.0009 | -.0000 | -.0017 | .0008 |
| #2 | -.0024 | -.0007 | .0048 | -.0013 | .0000 | .0008 | -.0008 |

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .7435 | 45.00 | .6007 | .8441 | .4714 | .5656 | .4812 |
| SDev | .0021 | .34 | .0110 | .0062 | .0039 | .0028 | .0006 |
| %RSD | .2763 | .7601 | 1.837 | .7381 | .8333 | .4953 | .1302 |
| #1 | .7421 | 44.75 | .5929 | .8396 | .4686 | .5636 | .4817 |
| #2 | .7450 | 45.24 | .6085 | .8485 | .4742 | .5676 | .4808 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9192 | 1.154 | 53.39 | 12.81 | 1.230 | .7465 | .5707 |
| SDev | .0048 | .009 | .46 | .15 | .008 | .0017 | .0003 |
| %RSD | .5217 | .8119 | .8671 | 1.160 | .6387 | .2286 | .0601 |
| #1 | .9158 | 1.148 | 53.06 | 12.70 | 1.224 | .7453 | .5704 |
| #2 | .9226 | 1.161 | 53.72 | 12.91 | 1.235 | .7477 | .5709 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8141 | .5662 | 1.505 | .4948 | 1.020 |
| SDev | .0063 | .0071 | .010 | .0044 | .009 |
| %RSD | .7673 | 1.252 | .6967 | .8802 | .9056 |
| #1 | .8185 | .5612 | 1.497 | .4918 | 1.013 |
| #2 | .8097 | .5712 | 1.512 | .4979 | 1.026 |

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Method: RCRA Sample Name: LCS*ERA237*2 Operator: KSB
Run Time: 06/18/98 11:24:44
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .7608 | 48.31 | .6384 | .8595 | .4759 | .5690 | .4788 |
| SDev | .0017 | .03 | .0072 | .0006 | .0000 | .0011 | .0051 |
| %RSD | .2238 | .0684 | 1.120 | .0725 | .0016 | .1938 | 1.069 |
| #1 | .7596 | 48.28 | .6334 | .8599 | .4759 | .5682 | .4752 |
| #2 | .7620 | 48.33 | .6435 | .8590 | .4759 | .5698 | .4824 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9232 | 1.165 | 59.19 | 13.26 | 1.282 | .7761 | .5874 |
| SDev | .0007 | .002 | .00 | .04 | .002 | .0009 | .0048 |
| %RSD | .0798 | .1857 | .0079 | .2745 | .1709 | .1118 | .8158 |
| #1 | .9227 | 1.166 | 59.19 | 13.24 | 1.281 | .7767 | .5908 |
| #2 | .9237 | 1.163 | 59.19 | 13.29 | 1.284 | .7755 | .5840 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8311 | .5655 | 1.734 | .5213 | .9807 |
| SDev | .0254 | .0109 | .001 | .0017 | .0009 |
| %RSD | 3.054 | 1.929 | .0318 | .3220 | .0972 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | .8131 | .5578 | 1.734 | .5225 | .9801 |
| #2 | .8490 | .5733 | 1.734 | .5202 | .9814 |

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Method: RCRA Sample Name: CCV*QC*1 Operator: KSB
Run Time: 06/18/98 11:27:15
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4886 | 4.924 | .5074 | .5022 | .4979 | .4968 | .4948 |
| SDev | .0007 | .001 | .0095 | .0006 | .0006 | .0012 | .0017 |
| %RSD | .1403 | .0120 | 1.870 | .1241 | .1306 | .2490 | .3446 |
| #1 | .4891 | 4.925 | .5141 | .5018 | .4984 | .4959 | .4960 |
| #2 | .4882 | 4.924 | .5007 | .5026 | .4975 | .4977 | .4936 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4944 | .4922 | 4.950 | 4.867 | .4932 | .5051 | .4965 |
| SDev | .0029 | .0014 | .014 | .024 | .0000 | .0043 | .0072 |
| %RSD | .5943 | .2925 | .2817 | .4978 | .0000 | .8499 | 1.447 |
| #1 | .4964 | .4911 | 4.940 | 4.884 | .4932 | .5021 | .5016 |
| #2 | .4923 | .4932 | 4.960 | 4.850 | .4932 | .5082 | .4915 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4940 | .5284 | .4880 | .4948 | .4883 |
| SDev | .0131 | .0034 | .0006 | .0017 | .0047 |
| %RSD | 2.655 | .6447 | .1132 | .3410 | .9584 |
| #1 | .4848 | .5308 | .4876 | .4960 | .4850 |
| #2 | .5033 | .5260 | .4884 | .4937 | .4916 |

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Method: RCRA Sample Name: CCB*QC*1 Operator: KSB
Run Time: 06/18/98 11:29:49
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0010 | .0007 | .0081 | -.0011 | -.0000 | -.0001 | .0024 |
| SDev | .0000 | .0157 | .0022 | .0003 | .0000 | .0023 | .0011 |
| %RSD | .0523 | 2098. | 26.57 | 28.28 | 142.7 | 3534. | 47.07 |
| #1 | -.0010 | -.0104 | .0096 | -.0013 | -.0000 | .0016 | .0016 |
| #2 | -.0010 | .0119 | .0066 | -.0009 | .0000 | -.0017 | .0032 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0005 | -.0003 | .0058 | -.0043 | -.0000 | .0018 | -.0027 |
| SDev | .0007 | .0004 | .0012 | .0030 | .0000 | .0009 | .0021 |
| %RSD | 143.1 | 140.8 | 20.20 | 71.41 | 295.2 | 47.40 | 77.14 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | -.0010 | -.0005 | .0049 | -.0064 | .0000 | .0012 | -.0041 |
| #2 | .0000 | -.0000 | .0066 | -.0021 | -.0000 | .0024 | -.0012 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0041 | .0168 | -.0008 | .0004 | .0009 |
| SDev | .0057 | .0067 | .0000 | .0006 | .0006 |
| %RSD | 140.7 | 40.03 | .0252 | 142.7 | 70.78 |
| #1 | -.0081 | .0121 | -.0008 | .0008 | .0013 |
| #2 | -.0000 | .0216 | -.0008 | -.0000 | .0004 |

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Method: RCRA Sample Name: TBRKS1*17 Operator: KSB
Run Time: 06/18/98 11:31:49
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0220 | 3.595 | .1809 | .5996 | .0074 | 1.457 | .0267 |
| SDev | .0007 | .000 | .0081 | .0006 | .0000 | .006 | .0000 |
| %RSD | 3.103 | .0005 | 4.492 | .1039 | .0709 | .3943 | .0329 |
| #1 | .0215 | 3.595 | .1866 | .6000 | .0074 | 1.461 | .0267 |
| #2 | .0225 | 3.595 | .1751 | .5991 | .0074 | 1.453 | .0268 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0506 | 26.08 | 17.35 | 3.266 | .4314 | .1225 | 2.228 |
| SDev | .0011 | .04 | .05 | .018 | .0004 | .0008 | .006 |
| %RSD | 2.188 | .1479 | .2912 | .5566 | .1008 | .6966 | .2764 |
| #1 | .0499 | 26.11 | 17.39 | 3.279 | .4317 | .1219 | 2.233 |
| #2 | .0514 | 26.06 | 17.32 | 3.253 | .4311 | .1231 | 2.224 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 20.18 | .0527 | .1010 | .0089 | H67.26 |
| SDev | .02 | .0230 | .0006 | .0011 | .13 |
| %RSD | .0894 | 43.59 | .5458 | 12.67 | .1877 |
| #1 | 20.17 | .0365 | .1006 | .0081 | H67.17 |
| #2 | 20.19 | .0690 | .1014 | .0097 | H67.34 |

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Method: RCRA Sample Name: SD*TBRKS1*17 Operator: KSB
Run Time: 06/18/98 11:35:09
Comment: SW6010B - Soils (SD OF 10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0030 | .7096 | .0305 | .1181 | .0019 | .2898 | .0073 |
| SDev | .0027 | .0037 | .0135 | .0013 | .0000 | .0022 | .0023 |
| %RSD | 92.26 | .5207 | 44.32 | 1.055 | .0023 | .7659 | 31.06 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0010 | .7122 | .0401 | .1189 | .0019 | .2914 | .0089 |
| #2 | .0049 | .7070 | .0210 | .1172 | .0019 | .2883 | .0057 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0102 | 5.154 | 3.469 | .6605 | .0863 | .0212 | .4438 |
| SDev | .0004 | .030 | .035 | .0152 | .0004 | .0000 | .0127 |
| %RSD | 3.608 | .5737 | 1.005 | 2.296 | .5051 | .0803 | 2.853 |
| #1 | .0105 | 5.175 | 3.494 | .6712 | .0866 | .0212 | .4527 |
| #2 | .0100 | 5.133 | 3.444 | .6498 | .0860 | .0212 | .4348 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.032 | .0021 | .0191 | .0023 | 13.68 |
| SDev | .014 | .0019 | .0006 | .0000 | .09 |
| %RSD | .3457 | 89.69 | 2.886 | .4043 | .6324 |
| #1 | 4.042 | .0008 | .0195 | .0023 | 13.74 |
| #2 | 4.022 | .0034 | .0187 | .0023 | 13.62 |

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Method: RCRA Sample Name: SPX*TBRKS1*17 Operator: KSB
Run Time: 06/18/98 11:37:33
Comment: SW6010B - Soils (SPX ON 10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0767 | 5.385 | 1.898 | 2.509 | .0494 | 1.460 | .4911 |
| SDev | .0010 | .013 | .023 | .000 | .0006 | .000 | .0000 |
| %RSD | 1.344 | .2323 | 1.214 | .0124 | 1.307 | .0270 | .0024 |
| #1 | .0760 | 5.376 | 1.914 | 2.509 | .0489 | 1.461 | .4911 |
| #2 | .0774 | 5.394 | 1.882 | 2.510 | .0498 | 1.460 | .4911 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2354 | 25.55 | 17.66 | 12.55 | .8888 | .6020 | 2.596 |
| SDev | .0037 | .01 | .01 | .04 | .0004 | .0018 | .022 |
| %RSD | 1.568 | .0198 | .0822 | .3143 | .0497 | .2911 | .8438 |
| #1 | .2328 | 25.55 | 17.65 | 12.52 | .8891 | .6008 | 2.580 |
| #2 | .2380 | 25.56 | 17.67 | 12.58 | .8885 | .6033 | 2.611 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 20.01 | 1.988 | 1.035 | .4937 | H65.54 |
| SDev | .04 | .029 | .001 | .0028 | .05 |
| %RSD | .1884 | 1.465 | .0534 | .5660 | .0837 |
| #1 | 19.99 | 2.009 | 1.035 | .4917 | H65.50 |
| #2 | 20.04 | 1.967 | 1.035 | .4957 | H65.58 |

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Method: RCRA Sample Name: SPM1*TBRKS1*17 Operator: KSB

Run Time: 06/18/98 11:39:48
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0293 | 3.879 | .3550 | .8674 | .0118 | 1.579 | .0625 |
| SDev | .0007 | .024 | .0002 | .0019 | .0000 | .003 | .0006 |
| %RSD | 2.331 | .6202 | .0573 | .2155 | .0224 | .1841 | .9249 |
| #1 | .0288 | 3.896 | .3549 | .8687 | .0118 | 1.581 | .0621 |
| #2 | .0298 | 3.862 | .3551 | .8661 | .0118 | 1.577 | .0630 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0351 | 24.16 | 13.14 | 4.232 | .4782 | .0825 | 1.784 |
| SDev | .0007 | .04 | .04 | .006 | .0004 | .0000 | .004 |
| %RSD | 2.101 | .1642 | .3095 | .1436 | .0911 | .0055 | .2301 |
| #1 | .0356 | 24.19 | 13.17 | 4.228 | .4785 | .0825 | 1.787 |
| #2 | .0346 | 24.13 | 13.11 | 4.237 | .4778 | .0825 | 1.782 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 26.21 | .2457 | .2037 | .0587 | H77.56 |
| SDev | .04 | .0002 | .0011 | .0006 | .10 |
| %RSD | .1376 | .0969 | .5418 | .9733 | .1240 |
| #1 | 26.23 | .2456 | .2044 | .0583 | H77.63 |
| #2 | 26.18 | .2459 | .2029 | .0591 | H77.50 |

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Method: RCRA Sample Name: SPM2*TBRKS1*17 Operator: KSB
Run Time: 06/18/98 11:42:01
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0300 | 4.098 | .3819 | .8824 | .0128 | 1.683 | .0628 |
| SDev | .0010 | .015 | .0040 | .0044 | .0000 | .003 | .0023 |
| %RSD | 3.402 | .3578 | 1.043 | .4942 | .0204 | .2054 | 3.602 |
| #1 | .0307 | 4.088 | .3791 | .8793 | .0128 | 1.681 | .0612 |
| #2 | .0293 | 4.109 | .3848 | .8855 | .0128 | 1.685 | .0644 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0375 | 25.25 | 13.87 | 4.477 | .5597 | .0820 | 1.893 |
| SDev | .0004 | .11 | .01 | .024 | .0018 | .0009 | .013 |
| %RSD | .9894 | .4326 | .1047 | .5427 | .3134 | 1.074 | .7049 |
| #1 | .0372 | 25.18 | 13.88 | 4.460 | .5584 | .0814 | 1.884 |
| #2 | .0377 | 25.33 | 13.86 | 4.494 | .5609 | .0826 | 1.903 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 23.08 | .2227 | .2068 | .0577 | H82.91 |

| | | | | | |
|---|---|---|---|---|---|
| SDev | .06 | .0163 | .0011 | .0006 | .13 |
| %RSD | .2522 | 7.343 | .5336 | .9741 | .1543 |
| #1 | 23.04 | .2342 | .2060 | .0573 | H82.82 |
| #2 | 23.12 | .2111 | .2076 | .0581 | H83.00 |

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Method: RCRA Sample Name: TBRKS1*18 Operator: KSB
Run Time: 06/18/98 11:44:07
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0197 | 3.043 | .1423 | .5326 | .0074 | 1.288 | .0112 |
| SDev | .0010 | .023 | .0053 | .0006 | .0000 | .009 | .0006 |
| %RSD | 5.174 | .7566 | 3.721 | .1170 | .0354 | .6735 | 5.217 |
| #1 | .0205 | 3.027 | .1386 | .5322 | .0074 | 1.282 | .0117 |
| #2 | .0190 | 3.059 | .1461 | .5330 | .0074 | 1.295 | .0108 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0144 | 21.29 | 11.07 | 2.709 | .3673 | .0303 | 1.463 |
| SDev | .0004 | .10 | .02 | .036 | .0022 | .0008 | .022 |
| %RSD | 2.571 | .4692 | .2152 | 1.344 | .5969 | 2.734 | 1.520 |
| #1 | .0147 | 21.22 | 11.05 | 2.734 | .3658 | .0309 | 1.448 |
| #2 | .0142 | 21.36 | 11.08 | 2.683 | .3689 | .0298 | 1.479 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 17.57 | .0427 | .0948 | .0063 | H67.04 |
| SDev | .05 | .0122 | .0006 | .0006 | .24 |
| %RSD | .2846 | 28.65 | .5821 | 9.045 | .3553 |
| #1 | 17.54 | .0513 | .0944 | .0067 | H66.87 |
| #2 | 17.61 | .0340 | .0952 | .0059 | H67.21 |

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Method: RCRA Sample Name: TBRKS1*19 Operator: KSB
Run Time: 06/18/98 11:46:37
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0287 | 4.130 | .0774 | .8181 | .0130 | 1.696 | .0199 |
| SDev | .0021 | .028 | .0118 | .0031 | .0000 | .006 | .0011 |
| %RSD | 7.163 | .6846 | 15.31 | .3808 | .1006 | .3819 | 5.715 |
| #1 | .0301 | 4.110 | .0858 | .8159 | .0130 | 1.691 | .0207 |
| #2 | .0272 | 4.150 | .0690 | .8203 | .0130 | 1.700 | .0191 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0293 | 46.42 | 9.657 | 1.566 | .4468 | .0337 | 1.635 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0007 | .32 | .077 | .015 | .0022 | .0018 | .025 |
| %RSD | 2.528 | .6921 | .7999 | .9664 | .4895 | 5.224 | 1.506 |
| #1 | .0298 | 46.19 | 9.603 | 1.555 | .4453 | .0349 | 1.653 |
| #2 | .0288 | 46.65 | 9.712 | 1.577 | .4484 | .0324 | 1.618 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 16.56 | .0213 | .1576 | .0058 | 100.7 |
| SDev | .02 | .0038 | .0000 | .0028 | .3 |
| %RSD | .0939 | 17.83 | .0001 | 48.86 | .2928 |
| #1 | 16.55 | .0186 | .1576 | .0078 | 100.5 |
| #2 | 16.57 | .0239 | .1576 | .0038 | 100.9 |

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Method: RCRA Sample Name: TBRKS1*20 Operator: KSB
Run Time: 06/18/98 11:49:30
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0234 | 4.190 | .0834 | 2.813 | .0167 | .6389 | .0261 |
| SDev | .0014 | .003 | .0082 | .007 | .0000 | .0001 | .0000 |
| %RSD | 5.832 | .0753 | 9.837 | .2326 | .0151 | .0097 | .0297 |
| #1 | .0244 | 4.192 | .0776 | 2.817 | .0167 | .6389 | .0261 |
| #2 | .0224 | 4.188 | .0892 | 2.808 | .0167 | .6388 | .0261 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0457 | H79.24 | 32.94 | 2.650 | .5831 | .0234 | 1.770 |
| SDev | .0033 | .25 | .06 | .009 | .0031 | .0017 | .009 |
| %RSD | 7.254 | .3195 | .1957 | .3427 | .5259 | 7.433 | .5220 |
| #1 | .0480 | H79.42 | 32.98 | 2.657 | .5852 | .0221 | 1.764 |
| #2 | .0433 | H79.06 | 32.89 | 2.644 | .5809 | .0246 | 1.777 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 16.46 | .0539 | .1346 | .0103 | 42.61 |
| SDev | .00 | .0002 | .0006 | .0005 | .11 |
| %RSD | .0150 | .4018 | .4093 | 5.306 | .2520 |
| #1 | 16.47 | .0537 | .1350 | .0106 | 42.69 |
| #2 | 16.46 | .0540 | .1342 | .0099 | 42.53 |

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Method: RCRA Sample Name: TBRKS1*21 Operator: KSB
Run Time: 06/18/98 11:52:02
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0812 | 4.081 | .0931 | .9885 | .0805 | 2.320 | .0256 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0000 | .008 | .0028 | .0025 | .0007 | .003 | .0000 |
| %RSD | .0009 | .2059 | 2.968 | .2521 | .8244 | .1493 | .0281 |
| #1 | .0812 | 4.087 | .0912 | .9903 | .0809 | 2.317 | .0256 |
| #2 | .0812 | 4.075 | .0951 | .9868 | .0800 | 2.322 | .0257 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0592 | H69.41 | 15.67 | 1.800 | .5814 | .1226 | .9875 |
| SDev | .0000 | .18 | .06 | .000 | .0009 | .0017 | .0062 |
| %RSD | .0063 | .2655 | .3745 | .0017 | .1503 | 1.398 | .6237 |
| #1 | .0592 | H69.54 | 15.71 | 1.800 | .5820 | .1214 | .9918 |
| #2 | .0592 | H69.28 | 15.62 | 1.800 | .5808 | .1238 | .9831 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 19.59 | .0420 | .1518 | .0077 | H170.7 |
| SDev | .06 | .0116 | .0006 | .0011 | .3 |
| %RSD | .3266 | 27.55 | .3636 | 14.66 | .1647 |
| #1 | 19.64 | .0501 | .1521 | .0069 | H170.9 |
| #2 | 19.54 | .0338 | .1514 | .0085 | H170.5 |

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Method: RCRA Sample Name: CCV*QC*2 Operator: KSB
Run Time: 06/18/98 11:54:43
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4918 | 4.925 | .5189 | .5057 | .4993 | .4992 | .4956 |
| SDev | .0017 | .002 | .0041 | .0006 | .0013 | .0000 | .0006 |
| %RSD | .3474 | .0442 | .7904 | .1232 | .2625 | .0070 | .1153 |
| #1 | .4930 | 4.923 | .5218 | .5062 | .5003 | .4992 | .4952 |
| #2 | .4906 | 4.926 | .5160 | .5053 | .4984 | .4992 | .4960 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4980 | .5885 | 4.947 | 4.863 | .4935 | .5021 | .5060 |
| SDev | .0022 | .0137 | .019 | .018 | .0022 | .0052 | .0082 |
| %RSD | .4418 | 2.328 | .3757 | .3728 | .4448 | 1.031 | 1.623 |
| #1 | .4964 | .5982 | 4.934 | 4.850 | .4950 | .5057 | .5118 |
| #2 | .4995 | .5789 | 4.961 | 4.876 | .4919 | .4984 | .5002 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5039 | .4935 | .4884 | .4968 | .5238 |
| SDev | .0156 | .0256 | .0000 | .0011 | .0155 |
| %RSD | 3.093 | 5.181 | .0001 | .2254 | 2.953 |
| #1 | .4929 | .5115 | .4884 | .4976 | .5347 |
| #2 | .5149 | .4754 | .4884 | .4960 | .5128 |

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Method: RCRA Sample Name: CCB*QC*2 Operator: KSB
Run Time: 06/18/98 11:56:58
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | .0155 | -.0021 | .0000 | -.0000 | .0008 | .0004 |
| SDev | .0010 | .0063 | .0028 | .0000 | .0000 | .0012 | .0006 |
| %RSD | 422.0 | 40.30 | 133.0 | .0000 | 141.5 | 141.6 | 139.7 |
| #1 | -.0005 | .0199 | -.0041 | .0000 | -.0000 | .0017 | .0000 |
| #2 | .0010 | .0111 | -.0001 | .0000 | .0000 | -.0000 | .0008 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0008 | .0533 | .0053 | .0022 | -.0000 | .0012 | -.0092 |
| SDev | .0004 | .0047 | .0017 | .0061 | .0000 | .0000 | .0038 |
| %RSD | 47.10 | 8.796 | 32.63 | 281.1 | 62.25 | .4537 | 40.94 |
| #1 | -.0005 | .0566 | .0066 | .0064 | -.0000 | .0012 | -.0119 |
| #2 | -.0010 | .0500 | .0041 | -.0021 | -.0000 | .0012 | -.0065 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0133 | .0114 | -.0012 | .0016 | .0069 |
| SDev | .0123 | .0247 | .0006 | .0022 | .0006 |
| %RSD | 92.33 | 217.5 | 47.14 | 141.5 | 8.976 |
| #1 | .0220 | -.0061 | -.0008 | .0032 | .0073 |
| #2 | .0046 | .0288 | -.0016 | -.0000 | .0065 |

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Method: RCRA Sample Name: TBRKS1*22 Operator: KSB
Run Time: 06/18/98 11:59:21
Comment: SW6010B - Soils (10X DILUTION) Data not used.
Mode: CONC Corr. Factor: 1 See undiluted data below. KSB 6/18/98

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | 3.649 | .0184 | .0910 | .0018 | .2323 | .0024 |
| SDev | .0003 | .006 | .0094 | .0003 | .0000 | .0012 | .0011 |
| %RSD | 45.12 | .1719 | 51.08 | .3424 | .4321 | .5327 | 46.97 |
| #1 | .0010 | 3.645 | .0117 | .0912 | .0018 | .2332 | .0032 |
| #2 | .0005 | 3.654 | .0250 | .0907 | .0018 | .2315 | .0016 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0039 | .5242 | 5.340 | 1.149 | .1186 | -.0000 | .1164 |
| SDev | .0011 | .0022 | .013 | .009 | .0000 | .0000 | .0055 |
| %RSD | 28.31 | .4127 | .2502 | .7927 | .0005 | 91.30 | 4.704 |
| #1 | .0047 | .5257 | 5.330 | 1.155 | .1186 | -.0000 | .1203 |
| #2 | .0031 | .5227 | 5.349 | 1.143 | .1186 | -.0000 | .1125 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4379 | .0224 | .0995 | .0117 | 1.496 |
| SDev | .0115 | .0204 | .0006 | .0017 | .002 |
| %RSD | 2.620 | 91.00 | .5543 | 14.42 | .1261 |
| #1 | .4297 | .0080 | .0999 | .0129 | 1.494 |
| #2 | .4460 | .0368 | .0991 | .0105 | 1.497 |

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Method: RCRA Sample Name: TBRKS1*22 Operator: KSB
Run Time: 06/18/98 12:02:21
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0081 | 37.65 | .0707 | .9410 | .0065 | 2.368 | .0243 |
| SDev | .0014 | .05 | .0100 | .0013 | .0006 | .002 | .0006 |
| %RSD | 16.90 | .1388 | 14.07 | .1324 | 9.951 | .0768 | 2.304 |
| #1 | .0071 | 37.69 | .0637 | .9401 | .0061 | 2.369 | .0239 |
| #2 | .0091 | 37.61 | .0777 | .9419 | .0070 | 2.367 | .0247 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0584 | 5.084 | 54.09 | 11.94 | 1.216 | .0286 | 1.226 |
| SDev | .0000 | .003 | .04 | .01 | .001 | .0043 | .014 |
| %RSD | .0313 | .0568 | .0677 | .1012 | .0720 | 14.99 | 1.172 |
| #1 | .0584 | 5.082 | 54.07 | 11.93 | 1.215 | .0316 | 1.216 |
| #2 | .0584 | 5.086 | 54.12 | 11.95 | 1.217 | .0256 | 1.237 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.586 | .0637 | 1.027 | .1015 | 15.23 |
| SDev | .021 | .0240 | .000 | .0022 | .01 |
| %RSD | .4671 | 37.61 | .0000 | 2.203 | .0371 |
| #1 | 4.570 | .0468 | 1.027 | .0999 | 15.24 |
| #2 | 4.601 | .0807 | 1.027 | .1030 | 15.23 |

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Method: RCRA Sample Name: SD*TBRKS1*22 Operator: KSB
Run Time: 06/18/98 12:04:30
Comment: SW6010B - Soils (SD OF UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0018 | 7.365 | .0133 | .1850 | .0018 | .4653 | .0072 |
| SDev | .0017 | .022 | .0002 | .0013 | .0000 | .0006 | .0011 |
| %RSD | 96.70 | .2984 | 1.639 | .6734 | .4465 | .1248 | 15.67 |
| #1 | .0030 | 7.349 | .0134 | .1841 | .0018 | .4657 | .0064 |
| #2 | .0006 | 7.380 | .0131 | .1859 | .0018 | .4649 | .0080 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0112 | 1.030 | 10.80 | 2.339 | .2404 | .0024 | .2427 |
| SDev | .0019 | .001 | .05 | .012 | .0009 | .0017 | .0041 |
| %RSD | 16.50 | .1048 | .4624 | .5195 | .3633 | 70.63 | 1.692 |
| #1 | .0099 | 1.030 | 10.77 | 2.330 | .2398 | .0012 | .2456 |
| #2 | .0125 | 1.031 | 10.84 | 2.347 | .2410 | .0036 | .2398 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8965 | .0274 | .2009 | .0213 | 3.022 |
| SDev | .0016 | .0172 | .0016 | .0017 | .006 |
| %RSD | .1789 | 62.77 | .8236 | 7.950 | .2057 |
| #1 | .8954 | .0396 | .1998 | .0225 | 3.018 |
| #2 | .8976 | .0153 | .2021 | .0201 | 3.027 |

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Method: RCRA Sample Name: SPX*TBRKS1*22 Operator: KSB
Run Time: 06/18/98 12:06:27
Comment: SW6010B - Soils (SPX ON UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0623 | 38.15 | 1.809 | 2.870 | .0475 | 2.315 | .4932 |
| SDev | .0010 | .42 | .014 | .030 | .0000 | .018 | .0022 |
| %RSD | 1.668 | 1.091 | .7603 | 1.042 | .0804 | .7982 | .4376 |
| #1 | .0616 | 37.86 | 1.799 | 2.848 | .0476 | 2.302 | .4917 |
| #2 | .0631 | 38.44 | 1.819 | 2.891 | .0475 | 2.328 | .4947 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2456 | 5.131 | 53.16 | 20.86 | 1.644 | .5113 | 1.666 |
| SDev | .0008 | .052 | .57 | .20 | .018 | .0060 | .017 |
| %RSD | .3047 | 1.012 | 1.077 | .9600 | 1.118 | 1.179 | 1.006 |
| #1 | .2450 | 5.094 | 52.75 | 20.72 | 1.631 | .5070 | 1.654 |
| #2 | .2461 | 5.168 | 53.56 | 21.00 | 1.657 | .5156 | 1.678 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.861 | 2.015 | 1.943 | .5850 | 15.05 |
| SDev | .052 | .024 | .019 | .0082 | .16 |
| %RSD | 1.068 | 1.205 | .9655 | 1.409 | 1.094 |
| #1 | 4.824 | 1.998 | 1.930 | .5791 | 14.93 |
| #2 | 4.897 | 2.032 | 1.956 | .5908 | 15.16 |

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Method: RCRA Sample Name: SPM1*TBRKS1*22 Operator: KSB
Run Time: 06/18/98 12:11:33
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0586 | 48.85 | 1.792 | 2.953 | .0475 | 3.099 | .4781 |
| SDev | .0007 | .01 | .013 | .007 | .0013 | .013 | .0022 |
| %RSD | 1.170 | .0224 | .7115 | .2532 | 2.752 | .4276 | .4707 |
| #1 | .0591 | 48.86 | 1.801 | 2.958 | .0485 | 3.109 | .4797 |
| #2 | .0581 | 48.84 | 1.782 | 2.948 | .0466 | 3.090 | .4765 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2513 | 5.300 | 63.70 | 22.54 | 1.746 | .5006 | 1.648 |
| SDev | .0008 | .004 | .06 | .02 | .001 | .0034 | .009 |
| %RSD | .2967 | .0816 | .0912 | .0671 | .0752 | .6900 | .5397 |
| #1 | .2518 | 5.303 | 63.74 | 22.52 | 1.746 | .5030 | 1.655 |
| #2 | .2507 | 5.297 | 63.66 | 22.55 | 1.745 | .4981 | 1.642 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 5.661 | 2.041 | 1.577 | .5849 | 18.31 |
| SDev | .014 | .008 | .000 | .0017 | .01 |
| %RSD | .2460 | .4091 | .0000 | .2841 | .0642 |
| #1 | 5.671 | 2.046 | 1.577 | .5861 | 18.32 |
| #2 | 5.651 | 2.035 | 1.577 | .5838 | 18.30 |

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Method: RCRA Sample Name: SPM2*TBRKS1*22 Operator: KSB
Run Time: 06/18/98 12:13:03
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0550 | 55.63 | 1.773 | 2.985 | .0461 | 2.044 | .4766 |
| SDev | .0010 | .34 | .006 | .016 | .0006 | .008 | .0067 |
| %RSD | 1.849 | .6170 | .3206 | .5427 | 1.402 | .3673 | 1.416 |
| #1 | .0557 | 55.39 | 1.769 | 2.973 | .0456 | 2.039 | .4718 |
| #2 | .0543 | 55.88 | 1.777 | 2.996 | .0465 | 2.049 | .4813 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2593 | 3.709 | 71.91 | 24.08 | 1.745 | .4873 | 1.512 |
| SDev | .0018 | .020 | .48 | .12 | .013 | .0008 | .017 |
| %RSD | .7096 | .5444 | .6736 | .5163 | .7266 | .1750 | 1.109 |
| #1 | .2580 | 3.694 | 71.57 | 23.99 | 1.736 | .4879 | 1.500 |
| #2 | .2606 | 3.723 | 72.25 | 24.17 | 1.754 | .4867 | 1.524 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.007 | 2.018 | 1.598 | .6035 | 12.28 |
| SDev | .013 | .029 | .008 | .0027 | .05 |
| %RSD | .3357 | 1.444 | .5180 | .4432 | .4184 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | 3.998 | 1.997 | 1.592 | .6016 | 12.24 |
| #2 | 4.017 | 2.039 | 1.604 | .6054 | 12.32 |

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Method: RCRA Sample Name: TBRKS1*23 Operator: KSB
Run Time: 06/18/98 12:15:14
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0063 | 83.97 | .0663 | 1.340 | .0075 | 2.187 | .0366 |
| SDev | .0000 | .47 | .0164 | .007 | .0000 | .006 | .0005 |
| %RSD | .0403 | .5632 | 24.69 | .5579 | .0173 | .2594 | 1.310 |
| #1 | .0063 | 84.30 | .0779 | 1.345 | .0075 | 2.191 | .0369 |
| #2 | .0063 | 83.63 | .0547 | 1.335 | .0075 | 2.183 | .0363 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1108 | 3.537 | 95.60 | 21.54 | 1.476 | .0182 | 1.335 |
| SDev | .0004 | .020 | 1.10 | .17 | .010 | .0001 | .013 |
| %RSD | .3329 | .5607 | 1.155 | .7875 | .7073 | .2995 | .9483 |
| #1 | .1105 | 3.551 | 96.38 | 21.66 | 1.484 | .0182 | 1.326 |
| #2 | .1110 | 3.523 | 94.81 | 21.42 | 1.469 | .0183 | 1.344 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 3.482 | .0870 | .9372 | .1933 | 12.77 |
| SDev | .004 | .0056 | .0055 | .0003 | .06 |
| %RSD | .1215 | 6.471 | .5888 | .1444 | .4514 |
| #1 | 3.485 | .0830 | .9411 | .1931 | 12.81 |
| #2 | 3.479 | .0910 | .9333 | .1935 | 12.72 |

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Method: RCRA Sample Name: TBRKS1*24 Operator: KSB
Run Time: 06/18/98 12:17:33
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0043 | 52.00 | .0777 | 1.112 | .0063 | 1.627 | .0209 |
| SDev | .0014 | .10 | .0023 | .002 | .0007 | .010 | .0023 |
| %RSD | 31.62 | .1911 | 3.015 | .1961 | 10.43 | .6077 | 10.79 |
| #1 | .0033 | 51.93 | .0794 | 1.110 | .0059 | 1.620 | .0193 |
| #2 | .0053 | 52.07 | .0760 | 1.113 | .0068 | 1.634 | .0225 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0761 | 2.961 | 61.37 | 14.95 | .9236 | .0165 | 1.438 |
| SDev | .0007 | .007 | .16 | .04 | .0009 | .0043 | .017 |
| %RSD | .9543 | .2313 | .2574 | .2842 | .0935 | 25.95 | 1.166 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0766 | 2.956 | 61.26 | 14.92 | .9230 | .0135 | 1.450 |
| #2 | .0756 | 2.966 | 61.48 | 14.98 | .9242 | .0195 | 1.426 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 2.025 | .0559 | .7273 | .1382 | 9.460 |
| SDev | .011 | .0024 | .0022 | .0006 | .023 |
| %RSD | .5189 | 4.322 | .3035 | .4377 | .2432 |
| #1 | 2.017 | .0576 | .7257 | .1387 | 9.444 |
| #2 | 2.032 | .0542 | .7288 | .1378 | 9.476 |

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Method: RCRA Sample Name: TBRKS1*25 Operator: KSB
Run Time: 06/18/98 12:20:43
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0108 | 76.06 | .0574 | 1.576 | .0085 | .6474 | .0253 |
| SDev | .0003 | .03 | .0010 | .001 | .0000 | .0017 | .0000 |
| %RSD | 3.163 | .0433 | 1.775 | .0791 | .0610 | .2683 | .0099 |
| #1 | .0110 | 76.08 | .0567 | 1.577 | .0085 | .6462 | .0253 |
| #2 | .0105 | 76.04 | .0581 | 1.575 | .0085 | .6487 | .0253 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1081 | 4.827 | 85.92 | 18.26 | 1.180 | .0106 | .8998 |
| SDev | .0004 | .001 | .02 | .05 | .005 | .0017 | .0096 |
| %RSD | .3376 | .0150 | .0264 | .2661 | .4084 | 16.06 | 1.065 |
| #1 | .1079 | 4.827 | 85.94 | 18.29 | 1.184 | .0118 | .8931 |
| #2 | .1084 | 4.828 | 85.90 | 18.22 | 1.177 | .0094 | .9066 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.306 | .0599 | .7405 | .1816 | 7.596 |
| SDev | .004 | .0253 | .0000 | .0011 | .015 |
| %RSD | .0943 | 42.25 | .0000 | .6128 | .1926 |
| #1 | 4.309 | .0778 | .7405 | .1824 | 7.607 |
| #2 | 4.303 | .0420 | .7405 | .1808 | 7.586 |

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Method: RCRA Sample Name: TBRKS1*26 Operator: KSB
Run Time: 06/18/98 12:23:22
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0028 | 63.25 | .0948 | 2.484 | .0574 | .0691 | .1659 |
| SDev | .0024 | .24 | .0132 | .016 | .0007 | .0001 | .0038 |
| %RSD | 86.06 | .3862 | 13.95 | .6270 | 1.142 | .1482 | 2.283 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0011 | 63.42 | .0854 | 2.495 | .0579 | .0692 | .1686 |
| #2 | .0045 | 63.08 | .1041 | 2.473 | .0569 | .0690 | .1632 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1889 | 10.07 | 247.7 | 18.06 | 7.261 | .0777 | .8809 |
| SDev | .0030 | .04 | 2.3 | .08 | .027 | .0060 | .0021 |
| %RSD | 1.570 | .4297 | .9366 | .4345 | .3785 | 7.661 | .2332 |
| #1 | .1910 | 10.10 | 249.3 | 18.12 | 7.281 | .0819 | .8824 |
| #2 | .1868 | 10.04 | 246.1 | 18.01 | 7.242 | .0735 | .8795 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 11.85 | .0666 | 1.353 | .1661 | H65.15 |
| SDev | .02 | .0010 | .009 | .0005 | .13 |
| %RSD | .1979 | 1.464 | .6930 | .3178 | .1925 |
| #1 | 11.87 | .0660 | 1.360 | .1664 | H65.24 |
| #2 | 11.84 | .0673 | 1.347 | .1657 | H65.06 |

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Method: RCRA Sample Name: CCV*QC*3 Operator: KSB
Run Time: 06/18/98 12:26:43
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4877 | 4.895 | .4752 | .5040 | .4966 | .4926 | .4888 |
| SDev | .0007 | .000 | .0095 | .0000 | .0000 | .0040 | .0000 |
| %RSD | .1397 | .0085 | 1.996 | .0000 | .0005 | .8100 | .0007 |
| #1 | .4872 | 4.896 | .4685 | .5040 | .4966 | .4897 | .4888 |
| #2 | .4882 | 4.895 | .4819 | .5040 | .4966 | .4954 | .4888 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4933 | .5245 | 4.907 | 4.790 | .4895 | .4990 | .4978 |
| SDev | .0044 | .0032 | .024 | .067 | .0009 | .0077 | .0021 |
| %RSD | .9010 | .6178 | .4971 | 1.395 | .1784 | 1.553 | .4130 |
| #1 | .4964 | .5268 | 4.924 | 4.837 | .4901 | .5045 | .4992 |
| #2 | .4902 | .5223 | 4.890 | 4.743 | .4888 | .4936 | .4963 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5010 | .5076 | .4852 | .4901 | .5181 |
| SDev | .0049 | .0075 | .0000 | .0005 | .0158 |
| %RSD | .9801 | 1.484 | .0002 | .1112 | 3.055 |
| #1 | .5045 | .5129 | .4852 | .4905 | .5292 |
| #2 | .4976 | .5023 | .4852 | .4897 | .5069 |

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Method: RCRA Sample Name: CCB*QC*3 Operator: KSB

Run Time: 06/18/98 12:29:08
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0005 | -.0026 | -.0033 | -.0011 | .0009 | .0017 | .0000 |
| SDev | .0007 | .0005 | .0115 | .0003 | .0013 | .0001 | .0011 |
| %RSD | 141.3 | 21.18 | 344.5 | 28.28 | 141.4 | 5.809 | 29360. |
| #1 | .0000 | -.0022 | .0048 | -.0009 | .0019 | .0016 | .0008 |
| #2 | .0010 | -.0030 | -.0114 | -.0013 | -.0000 | .0017 | -.0008 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0005 | .0201 | .0082 | .0172 | .0003 | -.0006 | -.0010 |
| SDev | .0015 | .0004 | .0023 | .0091 | .0004 | .0009 | .0017 |
| %RSD | 281.4 | 1.793 | 28.28 | 53.00 | 142.1 | 141.5 | 176.8 |
| #1 | .0005 | .0204 | .0099 | .0236 | -.0000 | -.0012 | -.0022 |
| #2 | -.0016 | .0199 | .0066 | .0107 | .0006 | .0000 | .0002 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0128 | .0301 | -.0023 | .0004 | .0057 |
| SDev | .0213 | .0017 | .0000 | .0006 | .0013 |
| %RSD | 167.2 | 5.720 | .0168 | 141.4 | 22.04 |
| #1 | -.0278 | .0289 | -.0023 | .0008 | .0065 |
| #2 | .0023 | .0313 | -.0023 | .0000 | .0048 |

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Method: RCRA Sample Name: TBRKS1*30 Operator: KSB
Run Time: 06/18/98 12:40:43
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0007 | 112.9 | .1350 | 1.454 | .0095 | .0137 | .0624 |
| SDev | .0003 | .4 | .0063 | .006 | .0006 | .0011 | .0016 |
| %RSD | 49.55 | .3558 | 4.669 | .4284 | 6.918 | 8.094 | 2.598 |
| #1 | .0004 | 112.6 | .1305 | 1.450 | .0090 | .0130 | .0612 |
| #2 | .0009 | 113.2 | .1394 | 1.459 | .0099 | .0145 | .0635 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1406 | 1.676 | 153.8 | 32.74 | 4.775 | -.0017 | .2013 |
| SDev | .0015 | .009 | 1.0 | .17 | .025 | .0026 | .0092 |
| %RSD | 1.053 | .5161 | .6343 | .5279 | .5311 | 146.9 | 4.590 |
| #1 | .1396 | 1.670 | 153.2 | 32.62 | 4.758 | -.0036 | .1948 |
| #2 | .1417 | 1.683 | 154.5 | 32.86 | 4.793 | .0001 | .2078 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8486 | .0498 | 1.010 | .2690 | 1.730 |

| | | | | | |
|---|---|---|---|---|---|
| SDev | .0118 | .0068 | .004 | .0009 | .007 |
| %RSD | 1.384 | 13.61 | .3824 | .3237 | .4207 |
| #1 | .8403 | .0450 | 1.007 | .2684 | 1.725 |
| #2 | .8569 | .0546 | 1.013 | .2696 | 1.735 |

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Method: RCRA Sample Name: TBRKS1*31 Operator: KSB
Run Time: 06/18/98 12:43:13
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0011 | 123.0 | .1339 | 1.959 | .0103 | .0105 | .0788 |
| SDev | .0017 | .7 | .0148 | .004 | .0007 | .0010 | .0011 |
| %RSD | 149.9 | .5433 | 11.06 | .2227 | 6.513 | 9.977 | 1.386 |
| #1 | -.0023 | 122.5 | .1443 | 1.956 | .0107 | .0112 | .0780 |
| #2 | .0001 | 123.4 | .1234 | 1.962 | .0098 | .0097 | .0796 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1539 | .6235 | 171.1 | 36.96 | 7.013 | .0001 | .2098 |
| SDev | .0026 | .0022 | .6 | .27 | .027 | .0008 | .0055 |
| %RSD | 1.678 | .3468 | .3311 | .7305 | .3869 | 623.7 | 2.610 |
| #1 | .1521 | .6220 | 170.7 | 36.77 | 6.994 | -.0005 | .2136 |
| #2 | .1558 | .6250 | 171.5 | 37.15 | 7.032 | .0007 | .2059 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4493 | .0788 | .5669 | .2974 | 1.317 |
| SDev | .0105 | .0234 | .0028 | .0021 | .007 |
| %RSD | 2.345 | 29.73 | .4866 | .7045 | .5614 |
| #1 | .4419 | .0623 | .5649 | .2960 | 1.312 |
| #2 | .4568 | .0954 | .5688 | .2989 | 1.322 |

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Method: RCRA Sample Name: TBRKS1*32 Operator: KSB
Run Time: 06/18/98 12:46:35
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0003 | 132.6 | .1587 | 2.540 | .0119 | .0140 | .0970 |
| SDev | .0017 | .1 | .0177 | .004 | .0006 | .0016 | .0005 |
| %RSD | 569.1 | .0970 | 11.16 | .1717 | 5.500 | 11.50 | .5192 |
| #1 | .0009 | 132.7 | .1462 | 2.543 | .0124 | .0128 | .0974 |
| #2 | -.0015 | 132.5 | .1713 | 2.537 | .0114 | .0151 | .0967 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1661 | .8792 | 195.4 | 38.47 | 8.489 | -.0073 | .2366 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0030 | .0004 | .9 | .02 | .024 | .0034 | .0038 |
| %RSD | 1.781 | .0413 | .4405 | .0393 | .2835 | 46.53 | 1.590 |
| #1 | .1682 | .8790 | 196.0 | 38.48 | 8.506 | -.0049 | .2339 |
| #2 | .1640 | .8795 | 194.8 | 38.46 | 8.472 | -.0097 | .2393 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5795 | .0842 | .6113 | .3460 | 1.662 |
| SDev | .0067 | .0046 | .0016 | .0009 | .002 |
| %RSD | 1.158 | 5.475 | .2706 | .2600 | .1362 |
| #1 | .5748 | .0809 | .6125 | .3466 | 1.660 |
| #2 | .5842 | .0875 | .6102 | .3454 | 1.663 |

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Method: RCRA Sample Name: TBRKS1*33 Operator: KSB
Run Time: 06/18/98 12:48:55
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0095 | 71.06 | .1807 | 2.267 | .0196 | .1609 | .0863 |
| SDev | .0000 | .04 | .0118 | .002 | .0000 | .0018 | .0011 |
| %RSD | .0167 | .0582 | 6.533 | .0962 | .0000 | 1.142 | 1.315 |
| #1 | .0095 | 71.09 | .1891 | 2.265 | .0196 | .1596 | .0871 |
| #2 | .0095 | 71.03 | .1724 | 2.268 | .0196 | .1622 | .0855 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1236 | 11.19 | 121.6 | 18.87 | 5.253 | .0308 | .4984 |
| SDev | .0029 | .00 | .0 | .05 | .014 | .0034 | .0031 |
| %RSD | 2.380 | .0000 | .0043 | .2574 | .2672 | 11.20 | .6182 |
| #1 | .1256 | 11.19 | 121.6 | 18.91 | 5.263 | .0283 | .4962 |
| #2 | .1215 | 11.19 | 121.6 | 18.84 | 5.243 | .0332 | .5006 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 9.566 | .0380 | 1.183 | .1851 | 25.57 |
| SDev | .005 | .0223 | .004 | .0000 | .00 |
| %RSD | .0518 | 58.83 | .3263 | .0010 | .0013 |
| #1 | 9.562 | .0222 | 1.186 | .1851 | 25.57 |
| #2 | 9.569 | .0538 | 1.181 | .1851 | 25.57 |

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Method: RCRA Sample Name: TBRKS1*34 Operator: KSB
Run Time: 06/18/98 12:51:33
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0056 | 77.24 | .1938 | 4.411 | .0437 | .1284 | .1536 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0007 | .37 | .0146 | .028 | .0013 | .0013 | .0015 |
| %RSD | 12.24 | .4775 | 7.552 | .6427 | 3.023 | 1.000 | .9716 |
| #1 | .0051 | 77.50 | .2042 | 4.431 | .0447 | .1275 | .1547 |
| #2 | .0061 | 76.98 | .1835 | 4.391 | .0428 | .1293 | .1525 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2063 | 21.03 | 353.4 | 21.09 | 6.562 | .0677 | 1.040 |
| SDev | .0004 | .10 | 2.6 | .17 | .036 | .0016 | .005 |
| %RSD | .1764 | .4630 | .7437 | .8176 | .5454 | 2.402 | .4936 |
| #1 | .2061 | 21.10 | 355.2 | 21.21 | 6.588 | .0689 | 1.036 |
| #2 | .2066 | 20.96 | 351.5 | 20.97 | 6.537 | .0666 | 1.044 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 19.10 | .1239 | 1.416 | .2042 | H86.14 |
| SDev | .07 | .0106 | .007 | .0012 | .31 |
| %RSD | .3797 | 8.528 | .5066 | .5990 | .3628 |
| #1 | 19.15 | .1314 | 1.421 | .2033 | H86.36 |
| #2 | 19.05 | .1165 | 1.411 | .2050 | H85.92 |

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Method: RCRA Sample Name: TBRKS1*35 Operator: KSB
Run Time: 06/18/98 12:54:43
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0041 | 95.89 | .1432 | 2.950 | .0188 | .0519 | .1209 |
| SDev | .0003 | .11 | .0227 | .007 | .0007 | .0008 | .0000 |
| %RSD | 8.439 | .1184 | 15.88 | .2323 | 3.538 | 1.454 | .0195 |
| #1 | .0038 | 95.97 | .1271 | 2.955 | .0193 | .0524 | .1209 |
| #2 | .0043 | 95.81 | .1592 | 2.945 | .0184 | .0514 | .1210 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1551 | 4.375 | 153.7 | 24.68 | 8.892 | .0320 | .4188 |
| SDev | .0004 | .013 | .2 | .03 | .002 | .0017 | .0109 |
| %RSD | .2356 | .3050 | .1523 | .1225 | .0199 | 5.445 | 2.615 |
| #1 | .1553 | 4.384 | 153.8 | 24.70 | 8.891 | .0308 | .4111 |
| #2 | .1548 | 4.365 | 153.5 | 24.66 | 8.894 | .0333 | .4265 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 3.744 | .0461 | 1.485 | .2541 | 16.93 |
| SDev | .004 | .0111 | .004 | .0017 | .02 |
| %RSD | .1048 | 24.05 | .2600 | .6845 | .1374 |
| #1 | 3.747 | .0383 | 1.488 | .2529 | 16.95 |
| #2 | 3.741 | .0540 | 1.483 | .2553 | 16.91 |

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Method: RCRA Sample Name: SD*TBRKS1*35 Operator: KSB
Run Time: 06/18/98 12:57:29
Comment: SW6010B - Soils (SD OF UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0009 | 18.94 | .0424 | .5837 | .0044 | .0087 | .0242 |
| SDev | .0007 | .06 | .0296 | .0037 | .0000 | .0002 | .0023 |
| %RSD | 78.99 | .3096 | 69.79 | .6404 | .0617 | 2.693 | 9.339 |
| #1 | .0004 | 18.90 | .0634 | .5811 | .0044 | .0085 | .0226 |
| #2 | .0013 | 18.98 | .0215 | .5863 | .0044 | .0089 | .0258 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0292 | .8989 | 31.18 | 4.909 | 1.773 | .0015 | .0774 |
| SDev | .0000 | .0029 | .11 | .015 | .004 | .0017 | .0003 |
| %RSD | .0140 | .3209 | .3484 | .3094 | .2223 | 113.7 | .4405 |
| #1 | .0292 | .8969 | 31.10 | 4.920 | 1.770 | .0027 | .0772 |
| #2 | .0292 | .9010 | 31.26 | 4.899 | 1.775 | .0003 | .0777 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .7552 | .0067 | .2926 | .0510 | 3.400 |
| SDev | .0042 | .0115 | .0033 | .0006 | .008 |
| %RSD | .5537 | 170.7 | 1.131 | 1.151 | .2368 |
| #1 | .7582 | -.0014 | .2903 | .0514 | 3.395 |
| #2 | .7522 | .0149 | .2950 | .0506 | 3.406 |

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Method: RCRA Sample Name: SPX*TBRKS1*35 Operator: KSB
Run Time: 06/18/98 12:59:18
Comment: SW6010B - Soils (SPX ON UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0598 | 94.92 | 1.944 | 4.811 | .0604 | .0971 | .5765 |
| SDev | .0007 | .19 | .021 | .009 | .0006 | .0010 | .0028 |
| %RSD | 1.142 | .2045 | 1.076 | .1813 | 1.083 | 1.029 | .4804 |
| #1 | .0603 | 95.06 | 1.929 | 4.817 | .0608 | .0964 | .5784 |
| #2 | .0593 | 94.78 | 1.959 | 4.804 | .0599 | .0978 | .5745 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3373 | 4.459 | 148.7 | 33.27 | 9.057 | .5143 | .8655 |
| SDev | .0015 | .009 | .7 | .06 | .024 | .0026 | .0014 |
| %RSD | .4352 | .2102 | .4952 | .1729 | .2610 | .5072 | .1583 |
| #1 | .3383 | 4.466 | 149.3 | 33.31 | 9.074 | .5124 | .8645 |
| #2 | .3362 | 4.452 | 148.2 | 33.23 | 9.041 | .5161 | .8665 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.089 | 2.047 | 2.384 | .7299 | 16.79 |
| SDev | .013 | .016 | .010 | .0009 | .05 |
| %RSD | .3270 | .7711 | .4166 | .1278 | .2787 |
| #1 | 4.079 | 2.036 | 2.391 | .7306 | 16.82 |
| #2 | 4.098 | 2.058 | 2.377 | .7292 | 16.75 |

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Method: RCRA Sample Name: SPM1*TBRKS1*35 Operator: KSB
Run Time: 06/18/98 13:01:21
Comment: SW6010B - Soils (~~SPX ON~~ UNDILUTED)
Mode: CONC Corr. Factor: 1 KSB 6/18/98

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0547 | 98.80 | 1.936 | 4.897 | .0659 | .1034 | .5677 |
| SDev | .0000 | .34 | .011 | .023 | .0006 | .0030 | .0027 |
| %RSD | .0016 | .3447 | .5672 | .4644 | .9855 | 2.892 | .4760 |
| #1 | .0547 | 99.04 | 1.929 | 4.913 | .0664 | .1035 | .5696 |
| #2 | .0547 | 98.56 | 1.944 | 4.881 | .0654 | .1012 | .5658 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3589 | 6.392 | 175.7 | 34.06 | 7.700 | .5282 | .9821 |
| SDev | .0011 | .025 | 1.5 | .21 | .044 | .0043 | .0034 |
| %RSD | .3110 | .3835 | .8312 | .6058 | .5740 | .8066 | .3485 |
| #1 | .3597 | 6.409 | 176.7 | 34.20 | 7.732 | .5312 | .9846 |
| #2 | .3581 | 6.374 | 174.7 | 33.91 | 7.669 | .5252 | .9797 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 6.118 | 2.012 | 2.605 | .7412 | 25.74 |
| SDev | .036 | .007 | .010 | .0019 | .11 |
| %RSD | .5963 | .3412 | .3813 | .2516 | .4080 |
| #1 | 6.143 | 2.017 | 2.612 | .7425 | 25.82 |
| #2 | 6.092 | 2.007 | 2.598 | .7399 | 25.67 |

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Method: RCRA Sample Name: SPM2*TBRKS1*35 Operator: KSB
Run Time: 06/18/98 13:03:22
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0546 | 98.42 | 1.946 | 4.808 | .0631 | .1016 | .5540 |
| SDev | .0010 | .09 | .012 | .005 | .0007 | .0018 | .0000 |
| %RSD | 1.871 | .0893 | .6258 | .1037 | 1.042 | 1.809 | .0005 |
| #1 | .0538 | 98.49 | 1.955 | 4.811 | .0636 | .1003 | .5540 |
| #2 | .0553 | 98.36 | 1.937 | 4.804 | .0627 | .1029 | .5540 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3453 | 5.765 | 160.1 | 34.48 | 7.234 | .5079 | .9347 |
| SDev | .0004 | .002 | .1 | .01 | .007 | .0008 | .0068 |
| %RSD | .1061 | .0375 | .0882 | .0264 | .0969 | .1666 | .7321 |
| #1 | .3456 | 5.767 | 160.0 | 34.49 | 7.230 | .5073 | .9395 |
| #2 | .3451 | 5.764 | 160.2 | 34.47 | 7.239 | .5085 | .9299 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.943 | 2.042 | 2.625 | .7333 | 19.67 |
| SDev | .034 | .002 | .004 | .0000 | .03 |
| %RSD | .6834 | .0798 | .1471 | .0046 | .1296 |
| #1 | 4.919 | 2.043 | 2.628 | .7333 | 19.65 |
| #2 | 4.967 | 2.041 | 2.623 | .7332 | 19.68 |

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Method: RCRA Sample Name: CCV*QC*4 Operator: KSB
Run Time: 06/18/98 13:05:42
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4879 | 4.893 | .4958 | .5081 | .5017 | .4932 | .4880 |
| SDev | .0010 | .020 | .0009 | .0022 | .0046 | .0006 | .0045 |
| %RSD | .2105 | .4085 | .1768 | .4291 | .9198 | .1207 | .9310 |
| #1 | .4872 | 4.908 | .4952 | .5097 | .5049 | .4928 | .4912 |
| #2 | .4886 | 4.879 | .4964 | .5066 | .4984 | .4936 | .4848 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4944 | .5205 | 4.878 | 4.784 | .4888 | .5039 | .5082 |
| SDev | .0022 | .0040 | .038 | .045 | .0026 | .0026 | .0086 |
| %RSD | .4464 | .7623 | .7859 | .9509 | .5375 | .5151 | 1.684 |
| #1 | .4959 | .5233 | 4.905 | 4.816 | .4907 | .5021 | .5021 |
| #2 | .4928 | .5177 | 4.851 | 4.751 | .4870 | .5058 | .5142 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4825 | .5155 | .4876 | .4909 | .4917 |
| SDev | .0082 | .0151 | .0022 | .0017 | .0040 |
| %RSD | 1.705 | 2.934 | .4526 | .3441 | .8233 |
| #1 | .4767 | .5262 | .4891 | .4897 | .4945 |
| #2 | .4883 | .5048 | .4860 | .4921 | .4888 |

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Method: RCRA Sample Name: CCB*QC*4 Operator: KSB
Run Time: 06/18/98 13:07:38
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0002 | .0104 | .0023 | -.0009 | .0009 | .0004 | -.0008 |
| SDev | .0003 | .0126 | .0116 | .0000 | .0013 | .0018 | .0011 |
| %RSD | 140.8 | 121.4 | 505.7 | .0000 | 140.3 | 471.0 | 142.4 |
| #1 | -.0000 | .0193 | -.0059 | -.0009 | .0019 | .0017 | .0000 |
| #2 | -.0005 | .0015 | .0105 | -.0009 | .0000 | -.0009 | -.0016 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0029 | .0209 | .0131 | .0107 | .0003 | -.0012 | -.0019 |
| SDev | .0004 | .0022 | .0023 | .0061 | .0004 | .0017 | .0017 |
| %RSD | 13.02 | 10.35 | 17.68 | 56.88 | 142.2 | 141.3 | 88.42 |
| #1 | -.0031 | .0224 | .0148 | .0064 | -.0000 | -.0024 | -.0031 |
| #2 | -.0026 | .0194 | .0115 | .0150 | .0006 | -.0000 | -.0007 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0000 | .0132 | -.0020 | -.0008 | .0043 |
| SDev | .0049 | .0188 | .0006 | .0011 | .0000 |
| %RSD | 40820. | 142.5 | 28.29 | 141.6 | .0351 |
| #1 | .0035 | -.0001 | -.0023 | .0000 | .0043 |
| #2 | -.0035 | .0265 | -.0016 | -.0016 | .0043 |

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Method: RCRA Sample Name: TBRKS1*36 Operator: KSB
Run Time: 06/18/98 13:09:36
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0020 | 88.42 | .1540 | 2.737 | .0119 | .0313 | .1021 |
| SDev | .0007 | .59 | .0164 | .021 | .0000 | .0019 | .0022 |
| %RSD | 35.14 | .6668 | 10.65 | .7510 | .0332 | 5.980 | 2.123 |
| #1 | .0015 | 88.83 | .1424 | 2.752 | .0119 | .0326 | .1036 |
| #2 | .0024 | 88.00 | .1656 | 2.723 | .0119 | .0299 | .1005 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1290 | 2.193 | 134.2 | 24.81 | 7.782 | .0173 | .2620 |
| SDev | .0011 | .017 | 1.1 | .16 | .041 | .0008 | .0096 |
| %RSD | .8557 | .7563 | .8569 | .6477 | .5287 | 4.690 | 3.657 |
| #1 | .1282 | 2.205 | 135.0 | 24.93 | 7.811 | .0178 | .2552 |
| #2 | .1298 | 2.181 | 133.3 | 24.70 | 7.753 | .0167 | .2688 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.555 | .0652 | 1.238 | .2362 | 6.337 |
| SDev | .016 | .0028 | .009 | .0008 | .040 |
| %RSD | 1.056 | 4.273 | .7134 | .3613 | .6299 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | 1.566 | .0632 | 1.244 | .2356 | 6.365 |
| #2 | 1.543 | .0671 | 1.231 | .2368 | 6.308 |

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Method: RCRA Sample Name: TBRKS1*37 Operator: KSB
Run Time: 06/18/98 13:12:00
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | 86.36 | .1442 | 2.554 | .0120 | .0301 | .0763 |
| SDev | .0007 | .19 | .0283 | .006 | .0000 | .0009 | .0035 |
| %RSD | 452.2 | .2223 | 19.61 | .2317 | .0369 | 3.112 | 4.538 |
| #1 | -.0003 | 86.50 | .1242 | 2.558 | .0120 | .0294 | .0738 |
| #2 | .0006 | 86.23 | .1643 | 2.550 | .0120 | .0308 | .0787 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1308 | 2.013 | 123.2 | 21.96 | 6.889 | .0206 | .2451 |
| SDev | .0008 | .004 | .7 | .06 | .017 | .0069 | .0021 |
| %RSD | .5777 | .2151 | .5540 | .2893 | .2476 | 33.47 | .8370 |
| #1 | .1303 | 2.016 | 123.7 | 22.00 | 6.901 | .0157 | .2465 |
| #2 | .1314 | 2.010 | 122.7 | 21.91 | 6.877 | .0255 | .2436 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.826 | .0788 | 1.339 | .2171 | 7.999 |
| SDev | .012 | .0088 | .000 | .0010 | .012 |
| %RSD | .6606 | 11.17 | .0000 | .4408 | .1462 |
| #1 | 1.835 | .0726 | 1.339 | .2177 | 8.008 |
| #2 | 1.818 | .0850 | 1.339 | .2164 | 7.991 |

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Method: RCRA Sample Name: TBRKS1*38 Operator: KSB
Run Time: 06/18/98 13:14:10
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0009 | 68.65 | .0919 | 2.270 | .0098 | .0198 | .0654 |
| SDev | .0010 | .16 | .0222 | .007 | .0006 | .0025 | .0006 |
| %RSD | 115.5 | .2294 | 24.15 | .3018 | 6.628 | 12.58 | .9299 |
| #1 | .0016 | 68.77 | .1076 | 2.275 | .0094 | .0181 | .0650 |
| #2 | .0002 | 68.54 | .0762 | 2.266 | .0103 | .0216 | .0659 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1034 | 1.302 | 110.1 | 19.65 | 6.024 | .0064 | .2226 |
| SDev | .0004 | .004 | .4 | .01 | .020 | .0034 | .0051 |
| %RSD | .3644 | .3047 | .3266 | .0616 | .3345 | 53.66 | 2.305 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .1032 | 1.305 | 110.3 | 19.66 | 6.038 | .0040 | .2262 |
| #2 | .1037 | 1.299 | 109.8 | 19.64 | 6.009 | .0089 | .2190 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.153 | .0481 | 1.055 | .1849 | 5.806 |
| SDev | .025 | .0106 | .006 | .0012 | .027 |
| %RSD | 2.150 | 22.12 | .5751 | .6544 | .4642 |
| #1 | 1.136 | .0556 | 1.060 | .1840 | 5.825 |
| #2 | 1.171 | .0405 | 1.051 | .1857 | 5.787 |

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Method: RCRA Sample Name: TBRKS1*53 Operator: KSB
Run Time: 06/18/98 13:16:53
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0019 | 85.94 | .1269 | 1.447 | .0079 | .0315 | .0500 |
| SDev | .0014 | .32 | .0209 | .005 | .0007 | .0004 | .0000 |
| %RSD | 71.89 | .3683 | 16.49 | .3659 | 8.370 | 1.314 | .0206 |
| #1 | .0029 | 85.71 | .1121 | 1.444 | .0074 | .0312 | .0500 |
| #2 | .0009 | 86.16 | .1417 | 1.451 | .0083 | .0318 | .0500 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1130 | 1.320 | 127.4 | 30.93 | 3.536 | .0022 | .2042 |
| SDev | .0007 | .001 | .1 | .11 | .007 | .0034 | .0031 |
| %RSD | .6446 | .1094 | .0424 | .3432 | .2104 | 158.1 | 1.508 |
| #1 | .1125 | 1.319 | 127.3 | 30.85 | 3.531 | .0046 | .2020 |
| #2 | .1136 | 1.321 | 127.4 | 31.00 | 3.542 | -.0003 | .2064 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5399 | .0719 | .6160 | .2109 | 1.740 |
| SDev | .0029 | .0465 | .0006 | .0000 | .005 |
| %RSD | .5399 | 64.73 | .0895 | .0050 | .3021 |
| #1 | .5420 | .1048 | .6157 | .2109 | 1.736 |
| #2 | .5378 | .0390 | .6164 | .2109 | 1.743 |

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Method: RCRA Sample Name: TBRKS1*54 Operator: KSB
Run Time: 06/18/98 13:22:35
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0437 | 6.835 | .1161 | 1.690 | .0292 | 2.398 | .0420 |
| SDev | .0010 | .009 | .0066 | .006 | .0007 | .000 | .0011 |
| %RSD | 2.347 | .1303 | 5.706 | .3687 | 2.269 | .0024 | 2.680 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0430 | 6.841 | .1208 | 1.694 | .0297 | 2.398 | .0427 |
| #2 | .0444 | 6.829 | .1114 | 1.685 | .0288 | 2.398 | .0412 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0766 | 39.91 | 50.82 | 4.203 | .7906 | .0813 | .5945 |
| SDev | .0004 | .12 | .11 | .030 | .0018 | .0008 | .0048 |
| %RSD | .4777 | .2918 | .2114 | .7216 | .2209 | 1.045 | .8058 |
| #1 | .0763 | 39.99 | 50.90 | 4.224 | .7918 | .0819 | .5911 |
| #2 | .0769 | 39.83 | 50.74 | 4.181 | .7894 | .0807 | .5979 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 15.83 | .0580 | .2185 | .0180 | H66.52 |
| SDev | .02 | .0056 | .0011 | .0011 | .07 |
| %RSD | .1088 | 9.751 | .5052 | 6.397 | .1055 |
| #1 | 15.84 | .0620 | .2193 | .0171 | H66.57 |
| #2 | 15.82 | .0540 | .2177 | .0188 | H66.47 |

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Method: RCRA Sample Name: TBRKS1*55 Operator: KSB
Run Time: 06/18/98 13:26:09
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0178 | 64.98 | .2294 | 2.880 | .0932 | .4783 | .2296 |
| SDev | .0021 | .23 | .0262 | .021 | .0000 | .0033 | .0004 |
| %RSD | 11.55 | .3615 | 11.41 | .7356 | .0168 | .6863 | .1649 |
| #1 | .0163 | 64.81 | .2109 | 2.865 | .0933 | .4759 | .2293 |
| #2 | .0192 | 65.15 | .2479 | 2.895 | .0932 | .4806 | .2298 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1989 | 39.66 | 434.8 | 38.04 | 7.186 | .1231 | 2.446 |
| SDev | .0044 | .19 | 2.2 | .13 | .032 | .0035 | .014 |
| %RSD | 2.219 | .4746 | .5034 | .3417 | .4436 | 2.840 | .5875 |
| #1 | .1958 | 39.53 | 433.3 | 37.95 | 7.163 | .1255 | 2.436 |
| #2 | .2020 | 39.79 | 436.4 | 38.13 | 7.208 | .1206 | 2.456 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 36.09 | .1435 | 1.458 | .1615 | H176.2 |
| SDev | .19 | .0065 | .008 | .0034 | .7 |
| %RSD | .5242 | 4.519 | .5296 | 2.087 | .3814 |
| #1 | 35.96 | .1389 | 1.453 | .1592 | H175.7 |
| #2 | 36.23 | .1481 | 1.464 | .1639 | H176.7 |

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Method: RCRA Sample Name: SD*TBRKS1*55 Operator: KSB

Run Time: 06/18/98 13:30:21
Comment: SW6010B - Soils (SD OF UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0026 | 13.13 | .0451 | .5879 | .0208 | .0979 | .0485 |
| SDev | .0017 | .18 | .0067 | .0084 | .0007 | .0018 | .0027 |
| %RSD | 65.00 | 1.391 | 14.90 | 1.431 | 3.211 | 1.839 | 5.677 |
| #1 | .0014 | 13.26 | .0499 | .5938 | .0213 | .0966 | .0504 |
| #2 | .0038 | 13.00 | .0404 | .5819 | .0203 | .0991 | .0465 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0405 | 8.175 | 88.90 | 7.756 | 1.489 | .0246 | .5064 |
| SDev | .0004 | .107 | 1.18 | .109 | .020 | .0018 | .0048 |
| %RSD | .9197 | 1.310 | 1.324 | 1.405 | 1.320 | 7.192 | .9462 |
| #1 | .0402 | 8.251 | 89.73 | 7.833 | 1.503 | .0233 | .5030 |
| #2 | .0407 | 8.099 | 88.07 | 7.679 | 1.475 | .0258 | .5098 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 7.518 | .0502 | .2973 | .0342 | 38.72 |
| SDev | .076 | .0407 | .0033 | .0020 | .44 |
| %RSD | 1.012 | 81.05 | 1.114 | 5.774 | 1.127 |
| #1 | 7.572 | .0214 | .2996 | .0328 | 39.03 |
| #2 | 7.465 | .0790 | .2950 | .0356 | 38.42 |

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Method: RCRA Sample Name: SPX*TBRKS1*55 Operator: KSB
Run Time: 06/18/98 13:32:15
Comment: SW6010B - Soils (SPX ON UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0756 | 64.68 | 1.992 | 4.773 | .1320 | .5090 | .6769 |
| SDev | .0000 | .55 | .013 | .036 | .0013 | .0007 | .0077 |
| %RSD | .0011 | .8436 | .6627 | .7505 | .9938 | .1348 | 1.138 |
| #1 | .0756 | 65.06 | 1.982 | 4.798 | .1329 | .5095 | .6823 |
| #2 | .0756 | 64.29 | 2.001 | 4.748 | .1310 | .5085 | .6714 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3795 | 38.28 | 420.8 | 46.12 | 7.416 | .6092 | 2.835 |
| SDev | .0026 | .33 | 2.7 | .38 | .052 | .0042 | .021 |
| %RSD | .6828 | .8722 | .6450 | .8148 | .6954 | .6966 | .7242 |
| #1 | .3814 | 38.52 | 422.7 | 46.39 | 7.452 | .6122 | 2.850 |
| #2 | .3777 | 38.04 | 418.9 | 45.86 | 7.379 | .6062 | 2.821 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 35.47 | 2.172 | 2.360 | .6408 | H170.7 |

| | | | | | |
|---|---|---|---|---|---|
| SDev | .17 | .011 | .017 | .0010 | .8 |
| %RSD | .4767 | .4975 | .7013 | .1540 | .4770 |
| #1 | 35.59 | 2.180 | 2.372 | .6415 | H171.3 |
| #2 | 35.35 | 2.164 | 2.349 | .6401 | H170.1 |

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Method: RCRA Sample Name: SPM1*TBRKS1*55 Operator: KSB
Run Time: 06/18/98 13:34:23
Comment: SW6010B - Soils (~~SPX-BN~~ UNDILUTED)
Mode: CONC Corr. Factor: 1 WC KSB 6/18/98

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0768 | 85.03 | 1.897 | 5.285 | .1496 | .6877 | .6285 |
| SDev | .0017 | .07 | .018 | .008 | .0000 | .0004 | .0022 |
| %RSD | 2.218 | .0873 | .9659 | .1532 | .0066 | .0625 | .3556 |
| #1 | .0756 | 85.09 | 1.884 | 5.280 | .1496 | .6874 | .6301 |
| #2 | .0780 | 84.98 | 1.910 | 5.291 | .1496 | .6881 | .6270 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4822 | 41.72 | 366.7 | 55.92 | 8.525 | .5682 | 2.273 |
| SDev | .0055 | .03 | .4 | .09 | .025 | .0017 | .018 |
| %RSD | 1.148 | .0622 | .1037 | .1520 | .2878 | .3053 | .7827 |
| #1 | .4861 | 41.74 | 366.9 | 55.98 | 8.542 | .5694 | 2.286 |
| #2 | .4782 | 41.70 | 366.4 | 55.86 | 8.507 | .5669 | 2.261 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 42.03 | 1.997 | 3.021 | .6615 | H114.9 |
| SDev | .11 | .008 | .006 | .0021 | .2 |
| %RSD | .2653 | .4020 | .1826 | .3233 | .1361 |
| #1 | 42.11 | 1.991 | 3.024 | .6630 | H115.0 |
| #2 | 41.95 | 2.002 | 3.017 | .6600 | H114.8 |

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Method: RCRA Sample Name: SPM2*TBRKS1*55 Operator: KSB
Run Time: 06/18/98 13:37:01
Comment: SW6010B - Soils (~~SPX-BN~~ UNDILUTED)
Mode: CONC Corr. Factor: 1 WC KSB 6/18/98

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0751 | 77.10 | 1.917 | 5.017 | .0924 | .5610 | .6261 |
| SDev | .0014 | .42 | .011 | .030 | .0006 | .0013 | .0061 |
| %RSD | 1.811 | .5503 | .5629 | .5960 | .6912 | .2229 | .9769 |
| #1 | .0741 | 77.40 | 1.909 | 5.038 | .0928 | .5619 | .6305 |
| #2 | .0761 | 76.80 | 1.924 | 4.996 | .0919 | .5602 | .6218 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3754 | 46.48 | 271.8 | 53.47 | 7.677 | .5408 | 2.679 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0015 | .27 | 1.0 | .30 | .061 | .0043 | .021 |
| %RSD | .3952 | .5833 | .3737 | .5562 | .7988 | .7950 | .7664 |
| #1 | .3765 | 46.67 | 272.5 | 53.68 | 7.721 | .5439 | 2.693 |
| #2 | .3744 | 46.29 | 271.1 | 53.26 | 7.634 | .5378 | 2.664 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 31.93 | 1.996 | 2.436 | .6492 | H88.40 |
| SDev | .14 | .010 | .018 | .0042 | .46 |
| %RSD | .4325 | .5167 | .7476 | .6487 | .5207 |
| #1 | 32.03 | 2.003 | 2.449 | .6521 | H88.72 |
| #2 | 31.84 | 1.989 | 2.423 | .6462 | H88.07 |

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Method: RCRA Sample Name: CCV*QC*5 Operator: KSB
Run Time: 06/18/98 13:40:25
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4918 | 4.896 | .4919 | .5093 | .5040 | .4969 | .4904 |
| SDev | .0010 | .018 | .0072 | .0031 | .0026 | .0034 | .0034 |
| %RSD | .2094 | .3629 | 1.471 | .6117 | .5182 | .6875 | .6933 |
| #1 | .4925 | 4.909 | .4971 | .5115 | .5058 | .4993 | .4928 |
| #2 | .4911 | 4.884 | .4868 | .5070 | .5022 | .4945 | .4880 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4962 | .6561 | 4.876 | 4.732 | .4867 | .5027 | .5060 |
| SDev | .0033 | .0061 | .015 | .009 | .0031 | .0026 | .0014 |
| %RSD | .6697 | .9340 | .2978 | .1934 | .6306 | .5132 | .2705 |
| #1 | .4985 | .6604 | 4.886 | 4.739 | .4888 | .5045 | .5050 |
| #2 | .4938 | .6518 | 4.865 | 4.726 | .4845 | .5009 | .5070 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5074 | .5305 | .4899 | .4913 | .6306 |
| SDev | .0058 | .0146 | .0022 | .0045 | .0121 |
| %RSD | 1.136 | 2.756 | .4503 | .9103 | 1.919 |
| #1 | .5033 | .5201 | .4915 | .4945 | .6391 |
| #2 | .5115 | .5408 | .4884 | .4881 | .6220 |

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Method: RCRA Sample Name: CCB*QC*5 Operator: KSB
Run Time: 06/18/98 13:42:54
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0007 | .0104 | .0095 | -.0009 | .0009 | .0012 | .0008 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0003 | .0021 | .0256 | .0000 | .0013 | .0008 | .0011 |
| %RSD | 47.09 | 20.00 | 270.9 | .0000 | 142.0 | 68.68 | 141.6 |
| #1 | .0005 | .0089 | -.0087 | -.0009 | -.0000 | .0017 | -.0000 |
| #2 | .0010 | .0118 | .0276 | -.0009 | .0018 | .0006 | .0016 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0010 | .1466 | .0123 | -.0022 | -.0000 | -.0012 | .0002 |
| SDev | .0037 | .0011 | .0012 | .0061 | .0000 | .0017 | .0103 |
| %RSD | 355.3 | .7384 | 9.426 | 282.1 | 38.73 | 140.2 | 4253. |
| #1 | -.0016 | .1474 | .0115 | -.0065 | -.0000 | -.0024 | .0075 |
| #2 | .0036 | .1458 | .0131 | .0021 | -.0000 | -.0000 | -.0070 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0035 | .0203 | -.0020 | .0020 | .1026 |
| SDev | .0098 | .0000 | .0006 | .0017 | .0059 |
| %RSD | 281.9 | .0762 | 28.33 | 84.76 | 5.716 |
| #1 | -.0104 | .0203 | -.0016 | .0008 | .1067 |
| #2 | .0035 | .0203 | -.0023 | .0032 | .0984 |

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Method: RCRA Sample Name: TBRKS1*56 Operator: KSB
Run Time: 06/18/98 13:57:43
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0287 | 98.38 | .2277 | 3.832 | .0888 | .6601 | .2110 |
| SDev | .0010 | .01 | .0325 | .003 | .0006 | .0026 | .0016 |
| %RSD | 3.558 | .0144 | 14.26 | .0813 | .7311 | .4004 | .7713 |
| #1 | .0294 | 98.37 | .2047 | 3.834 | .0883 | .6583 | .2099 |
| #2 | .0280 | 98.39 | .2507 | 3.830 | .0892 | .6620 | .2122 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3008 | H58.30 | 358.7 | 64.04 | 7.971 | .1269 | 2.111 |
| SDev | .0004 | .02 | 1.2 | .17 | .001 | .0008 | .004 |
| %RSD | .1223 | .0315 | .3379 | .2648 | .0175 | .6420 | .1946 |
| #1 | .3011 | H58.29 | 357.8 | 63.92 | 7.972 | .1263 | 2.113 |
| #2 | .3006 | H58.31 | 359.5 | 64.16 | 7.970 | .1275 | 2.108 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 37.87 | .1448 | 2.247 | .2209 | H120.9 |
| SDev | .00 | .0022 | .002 | .0019 | .1 |
| %RSD | .0108 | 1.550 | .0737 | .8772 | .0700 |
| #1 | 37.86 | .1464 | 2.248 | .2195 | H120.9 |
| #2 | 37.87 | .1432 | 2.246 | .2222 | H120.8 |

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Method: RCRA Sample Name: TBRKS1*57 Operator: KSB
Run Time: 06/18/98 14:02:39
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0033 | 25.48 | .0413 | .7064 | .1092 | .0404 | .0512 |
| SDev | .0007 | .04 | .0105 | .0016 | .0007 | .0011 | .0011 |
| %RSD | 20.92 | .1580 | 25.50 | .2205 | .6030 | 2.676 | 2.230 |
| #1 | .0028 | 25.50 | .0487 | .7075 | .1087 | .0412 | .0521 |
| #2 | .0037 | 25.45 | .0338 | .7053 | .1096 | .0396 | .0504 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0554 | 17.65 | 124.0 | 21.28 | 2.869 | .0504 | .2553 |
| SDev | .0029 | .02 | .1 | .02 | .004 | .0026 | .0000 |
| %RSD | 5.315 | .1308 | .1096 | .1143 | .1527 | 5.128 | .0002 |
| #1 | .0533 | 17.66 | 123.9 | 21.29 | 2.866 | .0523 | .2553 |
| #2 | .0575 | 17.63 | 124.1 | 21.26 | 2.872 | .0486 | .2553 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 3.385 | .0564 | .8482 | .0413 | 38.58 |
| SDev | .012 | .0025 | .0011 | .0000 | .03 |
| %RSD | .3613 | 4.367 | .1302 | .0762 | .0807 |
| #1 | 3.394 | .0547 | .8490 | .0413 | 38.55 |
| #2 | 3.376 | .0581 | .8474 | .0413 | 38.60 |

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Method: RCRA Sample Name: TBRKS1*58 Operator: KSB
Run Time: 06/18/98 14:05:21
Comment: SW6010B - Soils (20X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0202 | 3.970 | .0165 | .1267 | .0106 | .0154 | .0638 |
| SDev | .0000 | .027 | .0106 | .0009 | .0007 | .0018 | .0011 |
| %RSD | .0095 | .6722 | 64.20 | .7379 | 6.214 | 11.84 | 1.803 |
| #1 | .0202 | 3.989 | .0240 | .1273 | .0111 | .0141 | .0630 |
| #2 | .0202 | 3.951 | .0090 | .1260 | .0101 | .0167 | .0647 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2444 | H106.7 | 40.21 | 3.682 | 1.995 | .0210 | 1.149 |
| SDev | .0019 | .3 | .12 | .003 | .005 | .0017 | .018 |
| %RSD | .7563 | .2858 | .2875 | .0816 | .2415 | 8.088 | 1.548 |
| #1 | .2431 | H107.0 | 40.29 | 3.684 | 1.998 | .0198 | 1.162 |
| #2 | .2457 | H106.5 | 40.13 | 3.680 | 1.991 | .0222 | 1.136 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 11.62 | .0722 | .1263 | .0238 | 17.83 |
| SDev | .00 | .0055 | .0000 | .0000 | .05 |
| %RSD | .0139 | 7.570 | .0004 | .1117 | .2735 |
| #1 | 11.62 | .0684 | .1263 | .0238 | 17.86 |
| #2 | 11.62 | .0761 | .1263 | .0239 | 17.79 |

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Method: RCRA Sample Name: TBRKS1*59 Operator: KSB
Run Time: 06/18/98 14:08:32
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0089 | 61.58 | .2037 | 1.591 | .1212 | .4296 | .3410 |
| SDev | .0007 | .50 | .0079 | .012 | .0013 | .0005 | .0036 |
| %RSD | 7.762 | .8045 | 3.873 | .7244 | 1.084 | .1183 | 1.067 |
| #1 | .0084 | 61.93 | .2093 | 1.599 | .1221 | .4300 | .3436 |
| #2 | .0094 | 61.23 | .1982 | 1.583 | .1202 | .4292 | .3384 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .3579 | 29.09 | 448.0 | 41.13 | 8.115 | .2893 | 2.821 |
| SDev | .0037 | .20 | 4.7 | .46 | .072 | .0010 | .014 |
| %RSD | 1.030 | .6756 | 1.056 | 1.119 | .8826 | .3584 | .4973 |
| #1 | .3605 | 29.23 | 451.4 | 41.46 | 8.165 | .2886 | 2.811 |
| #2 | .3553 | 28.95 | 444.7 | 40.81 | 8.064 | .2901 | 2.831 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 43.19 | .1880 | 1.136 | .1622 | H126.3 |
| SDev | .34 | .0011 | .007 | .0005 | .8 |
| %RSD | .7868 | .5770 | .6315 | .3043 | .6413 |
| #1 | 43.43 | .1872 | 1.141 | .1625 | H126.9 |
| #2 | 42.95 | .1887 | 1.131 | .1618 | H125.7 |

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Method: RCRA Sample Name: TBRKS1*60 Operator: KSB
Run Time: 06/18/98 14:12:33
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0046 | 61.23 | .1300 | 1.692 | .0379 | .0515 | .0888 |
| SDev | .0003 | .01 | .0173 | .000 | .0006 | .0010 | .0005 |
| %RSD | 7.463 | .0102 | 13.30 | .0184 | 1.714 | 1.989 | .5708 |
| #1 | .0044 | 61.22 | .1177 | 1.692 | .0374 | .0508 | .0891 |
| #2 | .0049 | 61.23 | .1422 | 1.692 | .0383 | .0523 | .0884 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1006 | 8.831 | 142.7 | 24.19 | 3.884 | .0216 | .5037 |
| SDev | .0000 | .016 | 1.0 | .01 | .008 | .0001 | .0092 |
| %RSD | .0010 | .1837 | .6997 | .0260 | .2130 | .2142 | 1.834 |
| #1 | .1006 | 8.820 | 143.4 | 24.19 | 3.890 | .0215 | .4972 |
| #2 | .1006 | 8.843 | 142.0 | 24.19 | 3.878 | .0216 | .5103 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 5.579 | .0581 | 1.363 | .1619 | 16.89 |
| SDev | .001 | .0162 | .001 | .0019 | .01 |
| %RSD | .0152 | 27.87 | .0809 | 1.192 | .0696 |
| #1 | 5.580 | .0467 | 1.362 | .1605 | 16.90 |
| #2 | 5.579 | .0696 | 1.364 | .1632 | 16.88 |

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Method: RCRA Sample Name: TBRKS1*61 Operator: KSB
Run Time: 06/18/98 14:15:50
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0237 | 89.23 | .1661 | 2.457 | .0255 | .1313 | .1119 |
| SDev | .0027 | .18 | .0229 | .010 | .0006 | .0002 | .0001 |
| %RSD | 11.52 | .1981 | 13.77 | .4184 | 2.552 | .1410 | .0712 |
| #1 | .0256 | 89.11 | .1823 | 2.449 | .0260 | .1311 | .1119 |
| #2 | .0218 | 89.36 | .1499 | 2.464 | .0251 | .1314 | .1118 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1809 | 40.14 | 173.6 | 37.97 | 4.339 | .0181 | 1.360 |
| SDev | .0015 | .12 | 1.0 | .00 | .001 | .0017 | .004 |
| %RSD | .8126 | .2911 | .5669 | .0074 | .0187 | 9.346 | .3021 |
| #1 | .1819 | 40.05 | 172.9 | 37.96 | 4.338 | .0169 | 1.357 |
| #2 | .1798 | 40.22 | 174.3 | 37.97 | 4.339 | .0193 | 1.362 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 23.20 | .1057 | .7366 | .2135 | 32.81 |
| SDev | .00 | .0036 | .0011 | .0014 | .03 |
| %RSD | .0094 | 3.390 | .1499 | .6407 | .0923 |
| #1 | 23.20 | .1032 | .7358 | .2145 | 32.83 |
| #2 | 23.20 | .1082 | .7374 | .2126 | 32.79 |

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Method: RCRA Sample Name: TBRKS1*62 Operator: KSB
Run Time: 06/18/98 14:17:56
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1371 | 66.48 | .3888 | 2.198 | .0453 | .5049 | .1092 |
| SDev | .0021 | .25 | .0037 | .005 | .0007 | .0017 | .0018 |
| %RSD | 1.496 | .3776 | .9522 | .2409 | 1.475 | .3358 | 1.644 |
| #1 | .1386 | 66.66 | .3862 | 2.202 | .0448 | .5037 | .1080 |
| #2 | .1357 | 66.31 | .3914 | 2.195 | .0457 | .5061 | .1105 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1749 | H72.74 | 138.5 | 32.72 | 5.131 | .0315 | 5.644 |
| SDev | .0055 | .29 | .8 | .21 | .040 | .0000 | .044 |
| %RSD | 3.161 | .3931 | .6124 | .6304 | .7767 | .1138 | .7881 |
| #1 | .1789 | H72.94 | 139.1 | 32.87 | 5.159 | .0316 | 5.676 |
| #2 | .1710 | H72.54 | 137.9 | 32.58 | 5.103 | .0315 | 5.613 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 27.53 | .1037 | .9574 | .1730 | 45.82 |
| SDev | .18 | .0063 | .0044 | .0020 | .24 |
| %RSD | .6424 | 6.077 | .4609 | 1.170 | .5264 |
| #1 | 27.66 | .0992 | .9605 | .1745 | 45.99 |
| #2 | 27.41 | .1082 | .9543 | .1716 | 45.65 |

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Method: RCRA Sample Name: TBRKS1*63 Operator: KSB
Run Time: 06/18/98 14:20:14
Comment: SW6010B - Soils (UNDILUTED) Data not used.
Mode: CONC Corr. Factor: 1 See dilution below. KSB 6/18/98

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1079 | 69.78 | .2542 | 3.702 | .0718 | .3341 | .2321 |
| SDev | .0024 | .08 | .0187 | .004 | .0000 | .0051 | .0045 |
| %RSD | 2.217 | .1108 | 7.346 | .1178 | .0088 | 1.520 | 1.933 |
| #1 | .1096 | 69.84 | .2674 | 3.705 | .0718 | .3377 | .2289 |
| #2 | .1062 | 69.73 | .2410 | 3.699 | .0718 | .3305 | .2353 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2413 | H167.2 | 241.9 | 34.77 | 5.276 | .0994 | 5.266 |
| SDev | .0026 | .2 | 1.0 | .03 | .012 | .0000 | .000 |
| %RSD | 1.070 | .1326 | .4094 | .0954 | .2233 | .0329 | .0000 |
| #1 | .2395 | H167.4 | 241.2 | 34.75 | 5.268 | .0994 | 5.266 |
| #2 | .2432 | H167.1 | 242.6 | 34.79 | 5.285 | .0994 | 5.266 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | H63.33 | .1547 | 1.211 | .1802 | H78.70 |
| SDev | .12 | .0065 | .001 | .0014 | .08 |
| %RSD | .1941 | 4.229 | .0912 | .7590 | .0972 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | H63.42 | .1593 | 1.212 | .1812 | H78.75 |
| #2 | H63.24 | .1501 | 1.210 | .1793 | H78.64 |

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Method: RCRA Sample Name: TBRKS1*63 Operator: KSB
Run Time: 06/18/98 14:23:30
Comment: SW6010B - Soils (10X DILUTION)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0107 | 6.932 | .0318 | .3676 | .0083 | .0344 | .0240 |
| SDev | .0000 | .015 | .0034 | .0016 | .0000 | .0011 | .0034 |
| %RSD | .0134 | .2123 | 10.74 | .4237 | .0339 | 3.295 | 14.24 |
| #1 | .0107 | 6.943 | .0294 | .3687 | .0083 | .0336 | .0264 |
| #2 | .0107 | 6.922 | .0342 | .3665 | .0083 | .0352 | .0216 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0240 | 15.78 | 25.19 | 3.467 | .5363 | .0048 | .5405 |
| SDev | .0000 | .02 | .17 | .015 | .0004 | .0017 | .0058 |
| %RSD | .0090 | .1029 | .6850 | .4365 | .0838 | 35.47 | 1.076 |
| #1 | .0240 | 15.79 | 25.06 | 3.456 | .5366 | .0036 | .5446 |
| #2 | .0240 | 15.77 | 25.31 | 3.478 | .5360 | .0060 | .5364 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 6.495 | .0113 | .1194 | .0178 | 8.447 |
| SDev | .011 | .0155 | .0011 | .0006 | .047 |
| %RSD | .1771 | 137.9 | .9244 | 3.406 | .5621 |
| #1 | 6.487 | .0223 | .1186 | .0182 | 8.480 |
| #2 | 6.503 | .0003 | .1202 | .0174 | 8.413 |

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Method: RCRA Sample Name: TBRKS1*64 Operator: KSB
Run Time: 06/18/98 14:25:38
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0022 | 75.99 | .1072 | 1.131 | .0084 | .0489 | .0533 |
| SDev | .0003 | .34 | .0082 | .004 | .0000 | .0028 | .0005 |
| %RSD | 15.64 | .4439 | 7.683 | .3857 | .0192 | 5.808 | .9372 |
| #1 | .0024 | 76.23 | .1130 | 1.134 | .0084 | .0509 | .0537 |
| #2 | .0019 | 75.76 | .1014 | 1.128 | .0084 | .0469 | .0530 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1021 | 2.892 | 111.9 | 22.55 | 3.117 | .0069 | .1948 |
| SDev | .0030 | .020 | .8 | .13 | .012 | .0026 | .0007 |
| %RSD | 2.895 | .6857 | .7373 | .5646 | .3919 | 36.83 | .3510 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .1042 | 2.906 | 112.5 | 22.64 | 3.126 | .0087 | .1943 |
| #2 | .1000 | 2.878 | 111.3 | 22.46 | 3.109 | .0051 | .1952 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.676 | .0421 | .6235 | .1954 | 4.442 |
| SDev | .020 | .0031 | .0033 | .0003 | .031 |
| %RSD | 1.195 | 7.313 | .5309 | .1783 | .6957 |
| #1 | 1.690 | .0442 | .6258 | .1956 | 4.464 |
| #2 | 1.662 | .0399 | .6211 | .1951 | 4.421 |

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Method: RCRA Sample Name: CCV*QC*6 Operator: KSB
Run Time: 06/18/98 14:28:09
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4845 | 4.827 | .4850 | .5048 | .4915 | .4892 | .4772 |
| SDev | .0003 | .005 | .0129 | .0000 | .0006 | .0040 | .0017 |
| %RSD | .0703 | .1084 | 2.668 | .0000 | .1323 | .8115 | .3592 |
| #1 | .4848 | 4.823 | .4942 | .5048 | .4910 | .4920 | .4759 |
| #2 | .4843 | 4.831 | .4759 | .5048 | .4919 | .4864 | .4784 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4849 | .7160 | 4.738 | 4.648 | .4749 | .4942 | .5036 |
| SDev | .0015 | .0065 | .028 | .024 | .0004 | .0008 | .0123 |
| %RSD | .3039 | .9066 | .6007 | .5226 | .0925 | .1708 | 2.446 |
| #1 | .4860 | .7206 | 4.759 | 4.631 | .4746 | .4936 | .5123 |
| #2 | .4839 | .7114 | 4.718 | 4.665 | .4752 | .4948 | .4949 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4866 | .4897 | .4798 | .4822 | .5669 |
| SDev | .0090 | .0051 | .0011 | .0017 | .0062 |
| %RSD | 1.853 | 1.046 | .2301 | .3497 | 1.085 |
| #1 | .4802 | .4860 | .4790 | .4811 | .5713 |
| #2 | .4930 | .4933 | .4806 | .4834 | .5626 |

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Method: RCRA Sample Name: CCB*QC*6 Operator: KSB
Run Time: 06/18/98 14:30:10
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0007 | .0115 | -.0063 | -.0009 | .0009 | .0005 | .0000 |
| SDev | .0003 | .0015 | .0210 | .0000 | .0000 | .0031 | .0011 |
| %RSD | 46.84 | 13.15 | 330.6 | .0000 | .2783 | 675.4 | 23100. |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | -.0005 | .0104 | .0085 | -.0009 | .0009 | -.0017 | .0008 |
| #2 | -.0010 | .0126 | -.0212 | -.0009 | .0009 | .0026 | -.0008 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0005 | .2177 | .0148 | .0064 | -.0000 | -.0031 | -.0077 |
| SDev | .0007 | .0043 | .0046 | .0061 | .0000 | .0026 | .0031 |
| %RSD | 138.2 | 1.988 | 31.43 | 95.32 | .4412 | 84.68 | 39.78 |
| #1 | -.0000 | .2208 | .0181 | .0021 | -.0000 | -.0049 | -.0099 |
| #2 | -.0010 | .2147 | .0115 | .0107 | -.0000 | -.0012 | -.0056 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0017 | -.0007 | -.0008 | -.0004 | .0855 |
| SDev | .0041 | .0162 | .0000 | .0006 | .0062 |
| %RSD | 237.7 | 2204. | .0253 | 141.1 | 7.261 |
| #1 | .0046 | -.0122 | -.0008 | -.0008 | .0899 |
| #2 | -.0012 | .0107 | -.0008 | -.0000 | .0811 |

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Method: RCRA Sample Name: TBRKS1*65 Operator: KSB
Run Time: 06/18/98 14:32:30
Comment: SW6010B - Soils (UNDILUTED)
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0011 | 52.77 | .0752 | 1.101 | .0086 | .0310 | .0440 |
| SDev | .0003 | .32 | .0369 | .002 | .0000 | .0009 | .0029 |
| %RSD | 30.79 | .6075 | 49.09 | .2263 | .0539 | 2.812 | 6.548 |
| #1 | .0013 | 53.00 | .1013 | 1.103 | .0086 | .0304 | .0420 |
| #2 | .0009 | 52.55 | .0491 | 1.100 | .0086 | .0317 | .0460 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0758 | 3.783 | 85.94 | 18.65 | 3.347 | .0078 | .1834 |
| SDev | .0004 | .018 | .48 | .12 | .026 | .0009 | .0010 |
| %RSD | .4902 | .4671 | .5630 | .6507 | .7850 | 11.30 | .5595 |
| #1 | .0755 | 3.795 | 86.28 | 18.73 | 3.366 | .0072 | .1827 |
| #2 | .0761 | 3.770 | 85.60 | 18.56 | 3.329 | .0084 | .1841 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.937 | .0252 | .5560 | .1532 | 3.574 |
| SDev | .013 | .0099 | .0028 | .0010 | .023 |
| %RSD | .6572 | 39.22 | .4963 | .6518 | .6487 |
| #1 | 1.928 | .0182 | .5579 | .1539 | 3.591 |
| #2 | 1.946 | .0322 | .5540 | .1525 | 3.558 |

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Method: RCRA Sample Name: ICS*A*2 Operator: KSB

Run Time: 06/18/98 14:42:50
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0055 | 478.4 | .0894 | .0088 | -.0001 | -.0032 | -.0032 |
| SDev | .0010 | 1.2 | .0586 | .0006 | .0000 | .0005 | .0023 |
| %RSD | 18.51 | .2512 | 65.51 | 7.071 | .7698 | 14.65 | 71.36 |
| #1 | -.0063 | 477.6 | .0480 | .0084 | -.0001 | -.0028 | -.0049 |
| #2 | -.0048 | 479.3 | .1308 | .0093 | -.0001 | -.0035 | -.0016 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0021 | .1889 | 164.2 | 461.0 | .0126 | -.0060 | -.0056 |
| SDev | .0015 | .0061 | .5 | .9 | .0004 | .0043 | .0021 |
| %RSD | 69.37 | 3.246 | .2953 | .1876 | 3.200 | 71.51 | 36.87 |
| #1 | -.0011 | .1933 | 164.6 | 460.4 | .0123 | -.0091 | -.0041 |
| #2 | -.0031 | .1846 | 163.9 | 461.6 | .0129 | -.0030 | -.0070 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0001 | -.0157 | .0020 | .0152 | .0404 |
| SDev | .0236 | .0014 | .0006 | .0001 | .0012 |
| %RSD | 21980. | 9.205 | 28.30 | .7698 | 2.909 |
| #1 | -.0168 | -.0167 | .0016 | .0151 | .0412 |
| #2 | .0166 | -.0146 | .0023 | .0153 | .0396 |

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Method: RCRA Sample Name: ICS*AB*2 Operator: KSB
Run Time: 06/18/98 14:46:00
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9204 | 481.1 | 1.034 | .4870 | .4557 | .9011 | .4155 |
| SDev | .0062 | 1.6 | .014 | .0016 | .0026 | .0022 | .0045 |
| %RSD | .6682 | .3356 | 1.328 | .3198 | .5722 | .2449 | 1.076 |
| #1 | .9161 | 480.0 | 1.025 | .4859 | .4539 | .8996 | .4124 |
| #2 | .9248 | 482.3 | 1.044 | .4881 | .4576 | .9027 | .4187 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4352 | .6267 | 166.3 | 462.4 | .4426 | -.0079 | .8709 |
| SDev | .0052 | .0000 | 1.0 | 2.5 | .0033 | .0000 | .0086 |
| %RSD | 1.186 | .0000 | .5954 | .5320 | .7481 | .2585 | .9821 |
| #1 | .4315 | .6267 | 165.6 | 460.6 | .4402 | -.0079 | .8649 |
| #2 | .4388 | .6267 | 167.0 | 464.1 | .4449 | -.0079 | .8770 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8592 | .9824 | .0034 | .4684 | .8827 |

| | | | | | |
|---|---|---|---|---|---|
| SDev | .0296 | .0138 | .0006 | .0053 | .0045 |
| %RSD | 3.443 | 1.400 | 16.29 | 1.143 | .5056 |
| #1 | .8383 | .9727 | .0038 | .4646 | .8795 |
| #2 | .8801 | .9921 | .0030 | .4722 | .8858 |

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Method: RCRA Sample Name: CCV*QC*7 Operator: KSB
Run Time: 06/18/98 14:48:35
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4816 | 4.852 | .4722 | .5031 | .4859 | .4906 | .4748 |
| SDev | .0010 | .033 | .0058 | .0019 | .0007 | .0012 | .0029 |
| %RSD | .2125 | .6894 | 1.229 | .3715 | .1349 | .2453 | .5995 |
| #1 | .4823 | 4.876 | .4763 | .5044 | .4855 | .4897 | .4727 |
| #2 | .4809 | 4.828 | .4681 | .5018 | .4864 | .4914 | .4768 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4839 | .5942 | 4.727 | 4.676 | .4709 | .4881 | .4939 |
| SDev | .0015 | .0043 | .019 | .033 | .0018 | .0008 | .0048 |
| %RSD | .3052 | .7283 | .3932 | .7133 | .3719 | .1751 | .9700 |
| #1 | .4828 | .5972 | 4.740 | 4.700 | .4721 | .4875 | .4973 |
| #2 | .4849 | .5911 | 4.714 | 4.652 | .4696 | .4887 | .4905 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4895 | .4914 | .4755 | .4767 | .4792 |
| SDev | .0098 | .0049 | .0006 | .0006 | .0009 |
| %RSD | 2.002 | 1.002 | .1161 | .1183 | .1879 |
| #1 | .4964 | .4949 | .4759 | .4763 | .4799 |
| #2 | .4825 | .4879 | .4751 | .4771 | .4786 |

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Method: RCRA Sample Name: CCB*QC*7 Operator: KSB
Run Time: 06/18/98 14:50:49
Comment: SW6010B - Soils
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0005 | .0104 | -.0006 | -.0004 | .0005 | .0012 | .0004 |
| SDev | .0014 | .0156 | .0005 | .0000 | .0007 | .0006 | .0006 |
| %RSD | 283.3 | 150.7 | 87.53 | .0000 | 143.7 | 47.24 | 140.1 |
| #1 | -.0014 | -.0007 | -.0010 | -.0004 | .0009 | .0016 | .0008 |
| #2 | .0005 | .0214 | -.0002 | -.0004 | -.0000 | .0008 | .0000 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0010 | .1094 | .0152 | .0150 | -.0003 | -.0018 | -.0031 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0000 | .0018 | .0006 | .0000 | .0004 | .0026 | .0021 |
| %RSD | .5680 | 1.650 | 3.822 | .1786 | 140.7 | 140.9 | 65.22 |
| #1 | -.0011 | .1107 | .0156 | .0150 | -.0000 | -.0037 | -.0017 |
| #2 | -.0010 | .1081 | .0148 | .0150 | -.0006 | -.0000 | -.0046 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0006 | .0023 | -.0020 | .0008 | .0124 |
| SDev | .0025 | .0086 | .0006 | .0011 | .0000 |
| %RSD | 421.3 | 368.9 | 28.29 | 141.1 | .1069 |
| #1 | .0012 | .0084 | -.0023 | .0000 | .0124 |
| #2 | -.0024 | -.0037 | -.0016 | .0016 | .0124 |

# Other Relevant Documentation

QST BATCH : G91185

QC TYPE : FDER/SW
ANALYST : KENT BRAKEFIELD
EXTRACTOR : JULIE FASANO
DATA ENTRY : ICAP UPLOAD

REPORT DATE/TIME : 06/22/98 15:14
ANALYSIS DATE/TIME : 06/18/98
EXTRACT DATE : 06/10/98

STATUS :

METHOD BLANK CORRECTION METHOD : NONE

| FIELD GRP | QC TYPE | PROJECT NUMBER | PROJECT NAME | LAB COORDINATOR |
|---|---|---|---|---|
| TBRKS1 | FDER | 1298522V L204 | TECHLAN BRICK PROJ | ANDREW WEITZ |

Sample Specific Raw Data

| SAMPLE CODE | EXTRACT DATE | ANALYSIS DATE | ANALYSIS TIME | SAMPLE WEIGHT (G) | EXTRACT VOLUME (ML) | INJECTION VOLUME (NA) | %MOISTURE |
|---|---|---|---|---|---|---|---|
| CCV*STD2*1 | 06/10/98 | 06/18/98 | 10:56AM | | | 1 | |
| CCV*STD4*1 | 06/10/98 | 06/18/98 | 10:58AM | | | 1 | |
| ICV*QCS26*1 | 06/10/98 | 06/18/98 | 11:00AM | | | 1 | |
| ICB*QC*1 | 06/10/98 | 06/18/98 | 11:01AM | | | 1 | |
| ICS*A*1 | 06/10/98 | 06/18/98 | 11:03AM | | | 1 | |
| ICS*AB*1 | 06/10/98 | 06/18/98 | 11:08AM | | | 1 | |
| MB*QC*1 | 06/10/98 | 06/18/98 | 11:19AM | | | 1 | |
| MB*QC*2 | 06/10/98 | 06/18/98 | 11:21AM | | | 1 | |
| LCS*ERA237*1 | 06/10/98 | 06/18/98 | 11:22AM | 1.09 | 100 | 1 | |
| LCS*ERA237*2 | 06/10/98 | 06/18/98 | 11:24AM | 1.08 | 100 | 1 | |
| CCV*QC*1 | 06/10/98 | 06/18/98 | 11:27AM | | | 1 | |
| CCB*QC*1 | 06/10/98 | 06/18/98 | 11:29AM | | | 1 | |
| DA*TBRKS1*17 | 06/10/98 | 06/18/98 | 11:31AM | 1.02 | 100 | 1 | 50.6 |
| SD*TBRKS1*17 | 06/10/98 | 06/18/98 | 11:35AM | 1.02 | 100 | 1 | 50.6 |
| SPX*TBRKS1*17 | 06/10/98 | 06/18/98 | 11:37AM | 1.02 | 100 | 1 | 50.6 |
| SPM1*TBRKS1*17 | 06/10/98 | 06/18/98 | 11:39AM | 1.06 | 100 | 1 | 50.6 |
| SPM2*TBRKS1*17 | 06/10/98 | 06/18/98 | 11:42AM | 1.15 | 100 | 1 | 50.6 |
| DA*TBRKS1*18 | 06/10/98 | 06/18/98 | 11:44AM | 1.01 | 100 | 1 | 49.6 |
| DA*TBRKS1*19 | 06/10/98 | 06/18/98 | 11:46AM | 1.03 | 100 | 1 | 49.8 |
| DA*TBRKS1*20 | 06/10/98 | 06/18/98 | 11:49AM | 1.04 | 100 | 1 | 12.8 |
| DA*TBRKS1*21 | 06/10/98 | 06/18/98 | 11:52AM | 1.07 | 100 | 1 | 28.0 |
| CCV*QC*2 | 06/10/98 | 06/18/98 | 11:54AM | | | 1 | |
| CCB*QC*2 | 06/10/98 | 06/18/98 | 11:56AM | | | 1 | |
| DA*TBRKS1*22 | 06/10/98 | 06/18/98 | 12:02PM | 1.14 | 100 | 1 | 63.3 |
| SD*TBRKS1*22 | 06/10/98 | 06/18/98 | 12:04PM | 1.14 | 100 | 1 | 63.3 |
| SPX*TBRKS1*22 | 06/10/98 | 06/18/98 | 12:06PM | 1.14 | 100 | 1 | 63.3 |
| SPM1*TBRKS1*22 | 06/10/98 | 06/18/98 | 12:11PM | 1.11 | 100 | 1 | 63.3 |
| SPM2*TBRKS1*22 | 06/10/98 | 06/18/98 | 12:13PM | 1.11 | 100 | 1 | 63.3 |
| DA*TBRKS1*23 | 06/10/98 | 06/18/98 | 12:15PM | 1.27 | 100 | 1 | 66.8 |
| DA*TBRKS1*24 | 06/10/98 | 06/18/98 | 12:17PM | 1.27 | 100 | 1 | 58.4 |
| DA*TBRKS1*25 | 06/10/98 | 06/18/98 | 12:20PM | 1.02 | 100 | 1 | 35.3 |
| DA*TBRKS1*26 | 06/10/98 | 06/18/98 | 12:23PM | 1.24 | 100 | 1 | 35.9 |
| CCV*QC*3 | 06/10/98 | 06/18/98 | 12:26PM | | | 1 | |
| CCB*QC*3 | 06/10/98 | 06/18/98 | 12:29PM | | | 1 | |
| DA*TBRKS1*30 | 06/10/98 | 06/18/98 | 12:40PM | 1.13 | 100 | 1 | 33.2 |
| DA*TBRKS1*31 | 06/10/98 | 06/18/98 | 12:43PM | 1.07 | 100 | 1 | 24.3 |
| DA*TBRKS1*32 | 06/10/98 | 06/18/98 | 12:46PM | 1.36 | 100 | 1 | 24.3 |
| DA*TBRKS1*33 | 06/10/98 | 06/18/98 | 12:48PM | 1.01 | 100 | 1 | 15.3 |
| DA*TBRKS1*34 | 06/10/98 | 06/18/98 | 12:51PM | 1.21 | 100 | 1 | 33.6 |
| DA*TBRKS1*35 | 06/10/98 | 06/18/98 | 12:54PM | 1.28 | 100 | 1 | 18.3 |
| SD*TBRKS1*35 | 06/10/98 | 06/18/98 | 12:57PM | 1.28 | 100 | 1 | 18.3 |
| SPX*TBRKS1*35 | 06/10/98 | 06/18/98 | 12:59PM | 1.28 | 100 | 1 | 18.3 |
| SPM1*TBRKS1*35 | 06/10/98 | 06/18/98 | 01:01PM | 1.19 | 100 | 1 | 18.3 |
| SPM2*TBRKS1*35 | 06/10/98 | 06/18/98 | 01:03PM | 1.19 | 100 | 1 | 18.3 |
| CCV*QC*4 | 06/10/98 | 06/18/98 | 01:05PM | | | 1 | |
| CCB*QC*4 | 06/10/98 | 06/18/98 | 01:07PM | | | 1 | |
| DA*TBRKS1*36 | 06/10/98 | 06/18/98 | 01:09PM | 1.17 | 100 | 1 | 14.9 |
| DA*TBRKS1*37 | 06/10/98 | 06/18/98 | 01:12PM | 1.21 | 100 | 1 | 15.6 |
| DA*TBRKS1*38 | 06/10/98 | 06/18/98 | 01:14PM | 1.16 | 100 | 1 | 19.9 |
| DA*TBRKS1*53 | 06/10/98 | 06/18/98 | 01:16PM | 1.09 | 100 | 1 | 37.9 |
| DA*TBRKS1*54 | 06/10/98 | 06/18/98 | 01:22PM | 1.12 | 100 | 1 | 37.9 |
| DA*TBRKS1*55 | 06/10/98 | 06/18/98 | 01:26PM | 1.07 | 100 | 1 | 13.1 |
| SD*TBRKS1*55 | 06/10/98 | 06/18/98 | 01:30PM | 1.07 | 100 | 1 | 13.1 |
| SPX*TBRKS1*55 | 06/10/98 | 06/18/98 | 01:32PM | 1.07 | 100 | 1 | 13.1 |
| SPM1*TBRKS1*55 | 06/10/98 | 06/18/98 | 01:34PM | 1.10 | 100 | 1 | 13.1 |
| SPM2*TBRKS1*55 | 06/10/98 | 06/18/98 | 01:37PM | 1.16 | 100 | 1 | 13.1 |
| CCV*QC*5 | 06/10/98 | 06/18/98 | 01:40PM | | | 1 | |
| CCB*QC*5 | 06/10/98 | 06/18/98 | 01:42PM | | | 1 | |
| DA*TBRKS1*56 | 06/10/98 | 06/18/98 | 01:57PM | 1.21 | 100 | 1 | 14.2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DA*TBRKS1*57 | 06/10/98 | 06/18/98 | 02:02PM | 1.55 | 100 | 1 | 5.2 |
| DA*TBRKS1*58 | 06/10/98 | 06/18/98 | 02:05PM | 1.09 | 100 | 1 | 8.2 |
| DA*TBRKS1*59 | 06/10/98 | 06/18/98 | 02:08PM | 1.12 | 100 | 1 | 17.7 |
| DA*TBRKS1*60 | 06/10/98 | 06/18/98 | 02:12PM | 1.05 | 100 | 1 | 16.9 |
| DA*TBRKS1*61 | 06/10/98 | 06/18/98 | 02:15PM | 1.16 | 100 | 1 | 18.5 |
| DA*TBRKS1*62 | 06/10/98 | 06/18/98 | 02:17PM | 1.13 | 100 | 1 | 25.6 |
| DA*TBRKS1*63 | 06/10/98 | 06/18/98 | 02:23PM | 1.05 | 100 | 1 | 27.3 |
| DA*TBRKS1*64 | 06/10/98 | 06/18/98 | 02:25PM | 1.10 | 100 | 1 | 48.9 |
| CCV*QC*6 | 06/10/98 | 06/18/98 | 02:28PM | | | 1 | |
| CCB*QC*6 | 06/10/98 | 06/18/98 | 02:30PM | | | 1 | |
| DA*TBRKS1*65 | 06/10/98 | 06/18/98 | 02:32PM | 1.09 | 100 | 1 | 59.0 |
| ICS*A*2 | 06/10/98 | 06/18/98 | 02:42PM | | | 1 | |
| ICS*AB*2 | 06/10/98 | 06/18/98 | 02:46PM | | | 1 | |
| CCV*QC*7 | 06/10/98 | 06/18/98 | 02:48PM | | | 1 | |
| CCB*QC*7 | 06/10/98 | 06/18/98 | 02:50PM | | | 1 | |

Parameter Specific Raw Data

| SAMPLE CODE | STORET NAME | STAT | RESP (UG/ML) | UNC CONC (UG/ML) | DIL | TYPE | CRV | RET TIME | SPIKE SOL CONC (UG/ML) | SPIKE SAMP VOL (NA) | SPIKE VOLUME (NA) | DIL CODE | CALC'D TARGET (UG/ML) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CCV*STD2*1 | AS | OK | .97049 | 0.970 | 1 | FINAL | | | | | | | 1 |
| | BA | OK | 1.00022 | 1.00 | 1 | FINAL | | | | | | | 1 |
| | CD | OK | .99397 | 0.994 | 1 | FINAL | | | | | | | 1 |
| | CR | OK | .99835 | 0.998 | 1 | FINAL | | | | | | | 1 |
| | PB | OK | .9944 | 0.994 | 1 | FINAL | | | | | | | 1 |
| | SE | OK | 1.01539 | 1.02 | 1 | FINAL | | | | | | | 1 |
| CCV*STD4*1 | AG | OK | .99903 | 0.999 | 1 | FINAL | | | | | | | 1 |
| ICV*QCS26*1 | AG | OK | .98721 | 0.987 | 1 | FINAL | | | | | | | 1 |
| | AS | OK | .97637 | 0.976 | 1 | FINAL | | | | | | | 1 |
| | BA | OK | .9903 | 0.990 | 1 | FINAL | | | | | | | 1 |
| | CD | OK | .98694 | 0.987 | 1 | FINAL | | | | | | | 1 |
| | CR | OK | .996 | 0.996 | 1 | FINAL | | | | | | | 1 |
| | PB | OK | 1.01356 | 1.01 | 1 | FINAL | | | | | | | 1 |
| | SE | OK | 1.01789 | 1.02 | 1 | FINAL | | | | | | | 1 |
| ICB*QC*1 | AG | OK | .0000 | 0.0 | 1 | FINAL | | | | | | | |
| | AS | OK | .01097 | 0.011 | 1 | FINAL | | | | | | | |
| | BA | OK | .0004 | 0.0004 | 1 | FINAL | | | | | | | |
| | CD | OK | -.0001 | -.0001 | 1 | FINAL | | | | | | | |
| | CR | OK | .0005 | 0.0005 | 1 | FINAL | | | | | | | |
| | PB | OK | .00927 | 0.009 | 1 | FINAL | | | | | | | |
| | SE | OK | .00417 | 0.004 | 1 | FINAL | | | | | | | |
| ICS*A*1 | AG | OK | -.0058 | -.006 | 1 | FINAL | | | | | | | |
| | AS | OK | -.1658 | -.166 | 1 | FINAL | | | | | | | |
| | BA | OK | .00859 | 0.009 | 1 | FINAL | | | | | | | |
| | CD | OK | .0013 | 0.001 | 1 | FINAL | | | | | | | |
| | CR | OK | -.0037 | -.004 | 1 | FINAL | | | | | | | |
| | PB | OK | .00747 | 0.007 | 1 | FINAL | | | | | | | |
| | SE | OK | -.0022 | -.002 | 1 | FINAL | | | | | | | |
| ICS*AB*1 | AG | OK | .94019 | 0.940 | 1 | FINAL | | | | | | | 1 |
| | AS | OK | .88256 | 0.883 | 1 | FINAL | | | | | | | 1 |
| | BA | OK | .48612 | 0.486 | 1 | FINAL | | | | | | | 0.5 |
| | CD | OK | .9216 | 0.922 | 1 | FINAL | | | | | | | 1 |
| | CR | OK | .44637 | 0.446 | 1 | FINAL | | | | | | | 0.5 |
| | PB | OK | .89841 | 0.898 | 1 | FINAL | | | | | | | 1 |
| | SE | OK | .93609 | 0.936 | 1 | FINAL | | | | | | | 1 |
| MB*QC*1 | AG | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | AS | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | BA | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CD | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CR | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | PB | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | SE | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| MB*QC*2 | AG | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | AS | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | BA | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CD | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CR | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | PB | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | SE | OK | .0000 | 0.0 | 1 | FINAL | | | | | | | |
| LCS*ERA237*1 | AG | OK | .74354 | 0.744 | 1 | FINAL | | | | | | | 70.6 |
| | AS | OK | .60068 | 0.601 | 1 | FINAL | | | | | | | 60.2 |
| | BA | OK | .84405 | 0.844 | 1 | FINAL | | | | | | | 83.4 |
| | CD | OK | .5656 | 0.566 | 1 | FINAL | | | | | | | 52.4 |
| | CR | OK | .91922 | 0.919 | 1 | FINAL | | | | | | | 88.2 |
| | PB | OK | .8141 | 0.814 | 1 | FINAL | | | | | | | 75.1 |
| | SE | OK | .56619 | 0.566 | 1 | FINAL | | | | | | | 51.5 |
| LCS*ERA237*2 | AG | OK | .76076 | 0.761 | 1 | FINAL | | | | | | | 70.6 |
| | AS | OK | .63843 | 0.638 | 1 | FINAL | | | | | | | 60.2 |
| | BA | OK | .85947 | 0.859 | 1 | FINAL | | | | | | | 83.4 |
| | CD | OK | .56899 | 0.569 | 1 | FINAL | | | | | | | 52.4 |
| | CR | OK | .92319 | 0.923 | 1 | FINAL | | | | | | | 88.2 |
| | PB | OK | .83106 | 0.831 | 1 | FINAL | | | | | | | 75.1 |
| | SE | OK | .56553 | 0.566 | 1 | FINAL | | | | | | | 51.5 |
| CCV*QC*1 | AG | OK | .48864 | 0.489 | 1 | FINAL | | | | | | | 0.5 |
| | AS | OK | .50736 | 0.507 | 1 | FINAL | | | | | | | 0.5 |
| | BA | OK | .5022 | 0.502 | 1 | FINAL | | | | | | | 0.5 |
| | CD | OK | .49681 | 0.497 | 1 | FINAL | | | | | | | 0.5 |
| | CR | OK | .49435 | 0.494 | 1 | FINAL | | | | | | | 0.5 |
| | PB | OK | .49403 | 0.494 | 1 | FINAL | | | | | | | 0.5 |
| | SE | OK | .52841 | 0.528 | 1 | FINAL | | | | | | | 0.5 |
| CCB*QC*1 | AG | OK | -.0010 | -.001 | 1 | FINAL | | | | | | | |
| | AS | OK | .0081 | 0.008 | 1 | FINAL | | | | | | | |
| | BA | OK | -.0011 | -.001 | 1 | FINAL | | | | | | | |
| | CD | OK | -.0001 | -.0001 | 1 | FINAL | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | CR | OK | -.0005 | -.0005 | 1 | FINAL | | | | |
| | PB | OK | -.0041 | -.004 | 1 | FINAL | | | | |
| | SE | OK | .01684 | 0.017 | 1 | FINAL | | | | |
| DA*TBRKS1*17 | AG | OK | .02201 | 0.220 | 10 | FINAL | | | | |
| | AS | OK | .18089 | 1.81 | 10 | FINAL | | | | |
| | BA | OK | .59955 | 6.00 | 10 | FINAL | | | | |
| | CD | OK | 1.45717 | 14.6 | 10 | FINAL | | | | |
| | CR | OK | .05063 | 0.506 | 10 | FINAL | | | | |
| | PB | OK | 20.17966 | 202 | 10 | FINAL | | | | |
| | SE | OK | 0 | 0.0 | 10 | FINAL | | | | |
| SD*TBRKS1*17 | AG | OK | .00295 | 0.148 | 50 | FINAL | | | | |
| | AS | OK | .03051 | 1.53 | 50 | FINAL | | | | |
| | BA | OK | .11806 | 5.90 | 50 | FINAL | | | | |
| | CD | OK | .28983 | 14.5 | 50 | FINAL | | | | |
| | CR | OK | .01022 | 0.511 | 50 | FINAL | | | | |
| | PB | OK | 4.03212 | 202 | 50 | FINAL | | | | |
| | SE | OK | .00209 | 0.105 | 50 | FINAL | | | | |
| SPX*TBRKS1*17 | AG | OK | .07671 | 0.077 | 1 | FINAL | 0.05 | | C | 9.9230 |
| | AS | OK | 1.89784 | 1.90 | 1 | FINAL | 2.0 | | C | 396.92 |
| | BA | OK | 2.50947 | 2.51 | 1 | FINAL | 2.0 | | C | 396.92 |
| | CD | OK | 1.46032 | 1.46 | 1 | FINAL | 0.05 | | C | 9.9230 |
| | CR | OK | .23541 | 0.235 | 1 | FINAL | 0.2 | | C | 39.692 |
| | PB | OK | 20.01325 | 20.0 | 1 | FINAL | 0.5 | | C | 99.230 |
| | SE | OK | 1.98797 | 1.99 | 1 | FINAL | 2.0 | | C | 396.92 |
| SPM1*TBRKS1*17 | AG | OK | .02927 | 0.293 | 10 | FINAL | 0.05 | | C | 9.5485 |
| | AS | OK | .355 | 3.55 | 10 | FINAL | 2.0 | | C | 381.94 |
| | BA | OK | .8674 | 8.67 | 10 | FINAL | 2.0 | | C | 381.94 |
| | CD | OK | 1.57923 | 15.8 | 10 | FINAL | 0.05 | | C | 9.5485 |
| | CR | OK | .03511 | 0.351 | 10 | FINAL | 0.2 | | C | 38.194 |
| | PB | OK | 26.20721 | 262 | 10 | FINAL | 0.5 | | C | 95.485 |
| | SE | OK | .24573 | 2.46 | 10 | FINAL | 2.0 | | C | 381.94 |
| SPM2*TBRKS1*17 | AG | OK | .03 | 0.300 | 10 | FINAL | 0.05 | | C | 8.8013 |
| | AS | OK | .38193 | 3.82 | 10 | FINAL | 2.0 | | C | 352.05 |
| | BA | OK | .88237 | 8.82 | 10 | FINAL | 2.0 | | C | 352.05 |
| | CD | OK | 1.68295 | 16.8 | 10 | FINAL | 0.05 | | C | 8.8013 |
| | CR | OK | .03746 | 0.375 | 10 | FINAL | 0.2 | | C | 35.205 |
| | PB | OK | 23.08349 | 231 | 10 | FINAL | 0.5 | | C | 88.013 |
| | SE | OK | .22268 | 2.23 | 10 | FINAL | 2.0 | | C | 352.05 |
| DA*TBRKS1*18 | AG | OK | .01973 | 0.197 | 10 | FINAL | | | | |
| | AS | OK | .14232 | 1.42 | 10 | FINAL | | | | |
| | BA | OK | .53259 | 5.33 | 10 | FINAL | | | | |
| | CD | OK | 1.28843 | 12.9 | 10 | FINAL | | | | |
| | CR | OK | .01441 | 0.144 | 10 | FINAL | | | | |
| | PB | OK | 17.57437 | 176 | 10 | FINAL | | | | |
| | SE | OK | .04267 | 0.427 | 10 | FINAL | | | | |
| DA*TBRKS1*19 | AG | OK | .02869 | 0.287 | 10 | FINAL | | | | |
| | AS | OK | .07738 | 0.774 | 10 | FINAL | | | | |
| | BA | OK | .81806 | 8.18 | 10 | FINAL | | | | |
| | CD | OK | 1.69555 | 17.0 | 10 | FINAL | | | | |
| | CR | OK | .02928 | 0.293 | 10 | FINAL | | | | |
| | PB | OK | 16.56008 | 166 | 10 | FINAL | | | | |
| | SE | OK | .02125 | 0.213 | 10 | FINAL | | | | |
| DA*TBRKS1*20 | AG | OK | .02338 | 0.234 | 10 | FINAL | | | | |
| | AS | OK | .0834 | 0.834 | 10 | FINAL | | | | |
| | BA | OK | 2.81255 | 28.1 | 10 | FINAL | | | | |
| | CD | OK | .63886 | 6.39 | 10 | FINAL | | | | |
| | CR | OK | .04568 | 0.457 | 10 | FINAL | | | | |
| | PB | OK | 16.46403 | 165 | 10 | FINAL | | | | |
| | SE | OK | .05387 | 0.539 | 10 | FINAL | | | | |
| DA*TBRKS1*21 | AG | OK | .08117 | 0.812 | 10 | FINAL | | | | |
| | AS | OK | .09314 | 0.931 | 10 | FINAL | | | | |
| | BA | OK | .98854 | 9.89 | 10 | FINAL | | | | |
| | CD | OK | 2.31959 | 23.2 | 10 | FINAL | | | | |
| | CR | OK | .05924 | 0.592 | 10 | FINAL | | | | |
| | PB | OK | 19.58987 | 196 | 10 | FINAL | | | | |
| | SE | OK | .04195 | 0.420 | 10 | FINAL | | | | |
| CCV*QC*2 | AG | OK | .49178 | 0.492 | 1 | FINAL | | 0.5 | | |
| | AS | OK | .51886 | 0.519 | 1 | FINAL | | 0.5 | | |
| | BA | OK | .50572 | 0.506 | 1 | FINAL | | 0.5 | | |
| | CD | OK | .49918 | 0.499 | 1 | FINAL | | 0.5 | | |
| | CR | OK | .49799 | 0.498 | 1 | FINAL | | 0.5 | | |
| | PB | OK | .5039 | 0.504 | 1 | FINAL | | 0.5 | | |
| | SE | OK | .49346 | 0.493 | 1 | FINAL | | 0.5 | | |
| CCB*QC*2 | AG | OK | .0002 | 0.0002 | 1 | FINAL | | | | |
| | AS | OK | -.0021 | -.002 | 1 | FINAL | | | | |
| | BA | OK | .0000 | 0.0 | 1 | FINAL | | | | |
| | CD | OK | .0008 | 0.0008 | 1 | FINAL | | | | |
| | CR | OK | -.0008 | -.0008 | 1 | FINAL | | | | |
| | PB | OK | .01331 | 0.013 | 1 | FINAL | | | | |
| | SE | OK | .01136 | 0.011 | 1 | FINAL | | | | |

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|---|---|---|---|---|---|---|---|---|---|
| DA*TBRKS1*22 | AG | OK | .0081 | 0.008 | 1 | FINAL | | | |
| | AS | OK | 0 | 0.0 | 1 | FINAL | | | |
| | BA | OK | .94096 | 0.941 | 1 | FINAL | | | |
| | CD | OK | 2.36819 | 2.37 | 1 | FINAL | | | |
| | CR | OK | .05841 | 0.058 | 1 | FINAL | | | |
| | PB | OK | 4.58558 | 4.59 | 1 | FINAL | | | |
| | SE | OK | 0 | 0.0 | 1 | FINAL | | | |
| SD*TBRKS1*22 | AG | OK | .00176 | 0.009 | 5 | FINAL | | | |
| | AS | OK | .01325 | 0.066 | 5 | FINAL | | | |
| | BA | OK | .18502 | 0.925 | 5 | FINAL | | | |
| | CD | OK | .46526 | 2.33 | 5 | FINAL | | | |
| | CR | OK | .0112 | 0.056 | 5 | FINAL | | | |
| | PB | OK | .89648 | 4.48 | 5 | FINAL | | | |
| | SE | OK | .02743 | 0.137 | 5 | FINAL | | | |
| SPX*TBRKS1*22 | AG | OK | .06233 | 0.062 | 1 | FINAL | 0.05 | C | 11.951 |
| | AS | OK | 1.80911 | 1.81 | 1 | FINAL | 2.0 | C | 478.03 |
| | BA | OK | 2.8696 | 2.87 | 1 | FINAL | 2.0 | C | 478.03 |
| | CD | OK | 2.31534 | 2.32 | 1 | FINAL | 0.05 | C | 11.951 |
| | CR | OK | .24555 | 0.246 | 1 | FINAL | 0.2 | C | 47.803 |
| | PB | OK | 4.86072 | 4.86 | 1 | FINAL | 0.5 | C | 119.51 |
| | SE | OK | 2.01533 | 2.02 | 1 | FINAL | 2.0 | C | 478.03 |
| SPM1*TBRKS1*22 | AG | OK | .05861 | 0.059 | 1 | FINAL | 0.05 | C | 12.274 |
| | AS | OK | 1.7915 | 1.79 | 1 | FINAL | 2.0 | C | 490.95 |
| | BA | OK | 2.95286 | 2.95 | 1 | FINAL | 2.0 | C | 490.95 |
| | CD | OK | 3.09946 | 3.10 | 1 | FINAL | 0.05 | C | 12.274 |
| | CR | OK | .25126 | 0.251 | 1 | FINAL | 0.2 | C | 49.095 |
| | PB | OK | 5.66133 | 5.66 | 1 | FINAL | 0.5 | C | 122.74 |
| | SE | OK | 2.04054 | 2.04 | 1 | FINAL | 2.0 | C | 490.95 |
| SPM2*TBRKS1*22 | AG | OK | .055 | 0.055 | 1 | FINAL | 0.05 | C | 12.274 |
| | AS | OK | 1.77301 | 1.77 | 1 | FINAL | 2.0 | C | 490.95 |
| | BA | OK | 2.98458 | 2.98 | 1 | FINAL | 2.0 | C | 490.95 |
| | CD | OK | 2.04413 | 2.04 | 1 | FINAL | 0.05 | C | 12.274 |
| | CR | OK | .2593 | 0.259 | 1 | FINAL | 0.2 | C | 49.095 |
| | PB | OK | 4.00733 | 4.01 | 1 | FINAL | 0.5 | C | 122.74 |
| | SE | OK | 2.01789 | 2.02 | 1 | FINAL | 2.0 | C | 490.95 |
| DA*TBRKS1*23 | AG | OK | .00626 | 0.006 | 1 | FINAL | | | |
| | AS | OK | .06631 | 0.066 | 1 | FINAL | | | |
| | BA | OK | 1.34008 | 1.34 | 1 | FINAL | | | |
| | CD | OK | 2.18714 | 2.19 | 1 | FINAL | | | |
| | CR | OK | .11075 | 0.111 | 1 | FINAL | | | |
| | PB | OK | 3.48203 | 3.48 | 1 | FINAL | | | |
| | SE | OK | .08699 | 0.087 | 1 | FINAL | | | |
| DA*TBRKS1*24 | AG | OK | .0043 | 0.004 | 1 | FINAL | | | |
| | AS | OK | .0777 | 0.078 | 1 | FINAL | | | |
| | BA | OK | 1.11167 | 1.11 | 1 | FINAL | | | |
| | CD | OK | 1.62652 | 1.63 | 1 | FINAL | | | |
| | CR | OK | .0761 | 0.076 | 1 | FINAL | | | |
| | PB | OK | 2.0249 | 2.02 | 1 | FINAL | | | |
| | SE | OK | .0559 | 0.056 | 1 | FINAL | | | |
| DA*TBRKS1*25 | AG | OK | .01076 | 0.011 | 1 | FINAL | | | |
| | AS | OK | .05737 | 0.057 | 1 | FINAL | | | |
| | BA | OK | 1.57621 | 1.58 | 1 | FINAL | | | |
| | CD | OK | .64744 | 0.647 | 1 | FINAL | | | |
| | CR | OK | .10813 | 0.108 | 1 | FINAL | | | |
| | PB | OK | 4.30609 | 4.31 | 1 | FINAL | | | |
| | SE | OK | .05993 | 0.060 | 1 | FINAL | | | |
| DA*TBRKS1*26 | AG | OK | .00277 | 0.003 | 1 | FINAL | | | |
| | AS | OK | .09478 | 0.095 | 1 | FINAL | | | |
| | BA | OK | 2.48414 | 2.48 | 1 | FINAL | | | |
| | CD | OK | .06911 | 0.069 | 1 | FINAL | | | |
| | CR | OK | .18888 | 0.189 | 1 | FINAL | | | |
| | PB | OK | 11.85342 | 11.9 | 1 | FINAL | | | |
| | SE | OK | .06664 | 0.067 | 1 | FINAL | | | |
| CCV*QC*3 | AG | OK | .48767 | 0.488 | 1 | FINAL | | | 0.5 |
| | AS | OK | .47517 | 0.475 | 1 | FINAL | | | 0.5 |
| | BA | OK | .50396 | 0.504 | 1 | FINAL | | | 0.5 |
| | CD | OK | .49255 | 0.493 | 1 | FINAL | | | 0.5 |
| | CR | OK | .49329 | 0.493 | 1 | FINAL | | | 0.5 |
| | PB | OK | .50103 | 0.501 | 1 | FINAL | | | 0.5 |
| | SE | OK | .5076 | 0.508 | 1 | FINAL | | | 0.5 |
| CCB*QC*3 | AG | OK | .0005 | 0.0005 | 1 | FINAL | | | |
| | AS | OK | -.0033 | -.003 | 1 | FINAL | | | |
| | BA | OK | -.0011 | -.001 | 1 | FINAL | | | |
| | CD | OK | .00166 | 0.002 | 1 | FINAL | | | |
| | CR | OK | -.0005 | -.0005 | 1 | FINAL | | | |
| | PB | OK | -.0128 | -.013 | 1 | FINAL | | | |
| | SE | OK | .03008 | 0.030 | 1 | FINAL | | | |
| DA*TBRKS1*30 | AG | OK | .0007 | 0.0007 | 1 | FINAL | | | |
| | AS | OK | .13498 | 0.135 | 1 | FINAL | | | |
| | BA | OK | 1.45418 | 1.45 | 1 | FINAL | | | |

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|---|---|---|---|---|---|---|---|---|---|
| | CD | OK | .01373 | 0.014 | 1 | FINAL | | | |
| | CR | OK | .14064 | 0.141 | 1 | FINAL | | | |
| | PB | OK | .84861 | 0.849 | 1 | FINAL | | | |
| | SE | OK | .04976 | 0.050 | 1 | FINAL | | | |
| DA*TBRKS1*31 | AG | OK | -.0011 | -.001 | 1 | FINAL | | | |
| | AS | OK | .13386 | 0.134 | 1 | FINAL | | | |
| | BA | OK | 1.95859 | 1.96 | 1 | FINAL | | | |
| | CD | OK | .01045 | 0.010 | 1 | FINAL | | | |
| | CR | OK | .15393 | 0.154 | 1 | FINAL | | | |
| | PB | OK | .44933 | 0.449 | 1 | FINAL | | | |
| | SE | OK | .07884 | 0.079 | 1 | FINAL | | | |
| DA*TBRKS1*32 | AG | OK | -.0003 | -.0003 | 1 | FINAL | | | |
| | AS | OK | .15874 | 0.159 | 1 | FINAL | | | |
| | BA | OK | 2.53964 | 2.54 | 1 | FINAL | | | |
| | CD | OK | .01395 | 0.014 | 1 | FINAL | | | |
| | CR | OK | .16613 | 0.166 | 1 | FINAL | | | |
| | PB | OK | .57949 | 0.579 | 1 | FINAL | | | |
| | SE | OK | .08419 | 0.084 | 1 | FINAL | | | |
| DA*TBRKS1*33 | AG | OK | .0095 | 0.010 | 1 | FINAL | | | |
| | AS | OK | .18073 | 0.181 | 1 | FINAL | | | |
| | BA | OK | 2.26674 | 2.27 | 1 | FINAL | | | |
| | CD | OK | .16086 | 0.161 | 1 | FINAL | | | |
| | CR | OK | .12356 | 0.124 | 1 | FINAL | | | |
| | PB | OK | 9.56577 | 9.57 | 1 | FINAL | | | |
| | SE | OK | .03798 | 0.038 | 1 | FINAL | | | |
| DA*TBRKS1*34 | AG | OK | .00562 | 0.006 | 1 | FINAL | | | |
| | AS | OK | .19384 | 0.194 | 1 | FINAL | | | |
| | BA | OK | 4.41079 | 4.41 | 1 | FINAL | | | |
| | CD | OK | .12839 | 0.128 | 1 | FINAL | | | |
| | CR | OK | .20631 | 0.206 | 1 | FINAL | | | |
| | PB | OK | 19.09782 | 19.1 | 1 | FINAL | | | |
| | SE | OK | .12393 | 0.124 | 1 | FINAL | | | |
| DA*TBRKS1*35 | AG | OK | 0 | 0.0 | 1 | FINAL | | | |
| | AS | OK | .14315 | 0.143 | 1 | FINAL | | | |
| | BA | OK | 2.95022 | 2.95 | 1 | FINAL | | | |
| | CD | OK | .05189 | 0.052 | 1 | FINAL | | | |
| | CR | OK | .15508 | 0.155 | 1 | FINAL | | | |
| | PB | OK | 3.74407 | 3.74 | 1 | FINAL | | | |
| | SE | OK | 0 | 0.0 | 1 | FINAL | | | |
| SD*TBRKS1*35 | AG | OK | .0009 | 0.005 | 5 | FINAL | | | |
| | AS | OK | .04242 | 0.212 | 5 | FINAL | | | |
| | BA | OK | .5837 | 2.92 | 5 | FINAL | | | |
| | CD | OK | .0087 | 0.044 | 5 | FINAL | | | |
| | CR | OK | .02917 | 0.146 | 5 | FINAL | | | |
| | PB | OK | .7552 | 3.78 | 5 | FINAL | | | |
| | SE | OK | .00673 | 0.034 | 5 | FINAL | | | |
| SPK*TBRKS1*35 | AG | OK | .05977 | 0.060 | 1 | FINAL | 0.05 | C | 4.7812 |
| | AS | OK | 1.94378 | 1.94 | 1 | FINAL | 2.0 | C | 191.25 |
| | BA | OK | 4.81057 | 4.81 | 1 | FINAL | 2.0 | C | 191.25 |
| | CD | OK | .09712 | 0 097 | 1 | FINAL | 0.05 | C | 4.7812 |
| | CR | OK | .33726 | 0.337 | 1 | FINAL | 0.2 | C | 19.125 |
| | PB | OK | 4.08875 | 4.09 | 1 | FINAL | 0.5 | C | 47.812 |
| | SE | OK | 2.04714 | 2.05 | 1 | FINAL | 2.0 | C | 191.25 |
| SPM1*TBRKS1*35 | AG | OK | .05474 | 0.055 | 1 | FINAL | 0.05 | C | 5.1428 |
| | AS | OK | 1.93631 | 1.94 | 1 | FINAL | 2.0 | C | 205.71 |
| | BA | OK | 4.89669 | 4.90 | 1 | FINAL | 2.0 | C | 205.71 |
| | CD | OK | .10336 | 0.103 | 1 | FINAL | 0.05 | C | 5.1428 |
| | CR | OK | .35893 | 0.359 | 1 | FINAL | 0.2 | C | 20.571 |
| | PB | OK | 6.11764 | 6.12 | 1 | FINAL | 0.5 | C | 51.428 |
| | SE | OK | 2.01233 | 2.01 | 1 | FINAL | 2.0 | C | 205.71 |
| SPM2*TBRKS1*35 | AG | OK | .05455 | 0.055 | 1 | FINAL | 0.05 | C | 5.1428 |
| | AS | OK | 1.94596 | 1.95 | 1 | FINAL | 2.0 | C | 205.71 |
| | BA | OK | 4.80792 | 4.81 | 1 | FINAL | 2.0 | C | 205.71 |
| | CD | OK | .10163 | 0.102 | 1 | FINAL | 0.05 | C | 5.1428 |
| | CR | OK | .34532 | 0.345 | 1 | FINAL | 0.2 | C | 20.571 |
| | PB | OK | 4.94324 | 4.94 | 1 | FINAL | 0.5 | C | 51.428 |
| | SE | OK | 2.04219 | 2.04 | 1 | FINAL | 2.0 | C | 205.71 |
| CCV*QC*4 | AG | OK | .48791 | 0.488 | 1 | FINAL | | | 0.5 |
| | AS | OK | .49579 | 0.496 | 1 | FINAL | | | 0.5 |
| | BA | OK | .50814 | 0.508 | 1 | FINAL | | | 0.5 |
| | CD | OK | .49319 | 0.493 | 1 | FINAL | | | 0.5 |
| | CR | OK | .49435 | 0.494 | 1 | FINAL | | | 0.5 |
| | PB | OK | .48246 | 0.482 | 1 | FINAL | | | 0.5 |
| | SE | OK | .51549 | 0.515 | 1 | FINAL | | | 0.5 |
| CCB*QC*4 | AG | OK | -.0002 | -.0002 | 1 | FINAL | | | |
| | AS | OK | .00229 | 0.002 | 1 | FINAL | | | |
| | BA | OK | -.0009 | -.0009 | 1 | FINAL | | | |
| | CD | OK | .0004 | 0.0004 | 1 | FINAL | | | |
| | CR | OK | -.0029 | -.003 | 1 | FINAL | | | |
| | PB | OK | .0000 | 0.0 | 1 | FINAL | | | |

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|---|---|---|---|---|---|---|---|---|---|
| | SE | OK | .01317 | 0.013 | 1 | FINAL | | | |
| DA*TBRKS1*36 | AG | OK | .00196 | 0.002 | 1 | FINAL | | | |
| | AS | OK | .15396 | 0.154 | 1 | FINAL | | | |
| | BA | OK | 2.73744 | 2.74 | 1 | FINAL | | | |
| | CD | OK | .03125 | 0.031 | 1 | FINAL | | | |
| | CR | OK | .12897 | 0.129 | 1 | FINAL | | | |
| | PB | OK | 1.55484 | 1.55 | 1 | FINAL | | | |
| | SE | OK | .06516 | 0.065 | 1 | FINAL | | | |
| DA*TBRKS1*37 | AG | OK | .0002 | 0.0002 | 1 | FINAL | | | |
| | AS | OK | .14424 | 0.144 | 1 | FINAL | | | |
| | BA | OK | 2.55396 | 2.55 | 1 | FINAL | | | |
| | CD | OK | .03009 | 0.030 | 1 | FINAL | | | |
| | CR | OK | .13082 | 0.131 | 1 | FINAL | | | |
| | PB | OK | 1.82627 | 1.83 | 1 | FINAL | | | |
| | SE | OK | .07881 | 0.079 | 1 | FINAL | | | |
| DA*TBRKS1*38 | AG | OK | .0009 | 0.0009 | 1 | FINAL | | | |
| | AS | OK | .09188 | 0.092 | 1 | FINAL | | | |
| | BA | OK | 2.27048 | 2.27 | 1 | FINAL | | | |
| | CD | OK | .01983 | 0.020 | 1 | FINAL | | | |
| | CR | OK | .10342 | 0.103 | 1 | FINAL | | | |
| | PB | OK | 1.15348 | 1.15 | 1 | FINAL | | | |
| | SE | OK | .04806 | 0.048 | 1 | FINAL | | | |
| DA*TBRKS1*53 | AG | OK | .00189 | 0.002 | 1 | FINAL | | | |
| | AS | OK | .12694 | 0.127 | 1 | FINAL | | | |
| | BA | OK | 1.44735 | 1.45 | 1 | FINAL | | | |
| | CD | OK | .03146 | 0.031 | 1 | FINAL | | | |
| | CR | OK | .11304 | 0.113 | 1 | FINAL | | | |
| | PB | OK | .5399 | 0.540 | 1 | FINAL | | | |
| | SE | OK | .07186 | 0.072 | 1 | FINAL | | | |
| DA*TBRKS1*54 | AG | OK | .04371 | 0.437 | 10 | FINAL | | | |
| | AS | OK | .11612 | 1.16 | 10 | FINAL | | | |
| | BA | OK | 1.68986 | 16.9 | 10 | FINAL | | | |
| | CD | OK | 2.39833 | 24.0 | 10 | FINAL | | | |
| | CR | OK | .07659 | 0.766 | 10 | FINAL | | | |
| | PB | OK | 15.82807 | 158 | 10 | FINAL | | | |
| | SE | OK | .05796 | 0.580 | 10 | FINAL | | | |
| DA*TBRKS1*55 | AG | OK | .01775 | 0.018 | 1 | FINAL | | | |
| | AS | OK | .22943 | 0.229 | 1 | FINAL | | | |
| | BA | OK | 2.87973 | 2.88 | 1 | FINAL | | | |
| | CD | OK | .47826 | 0.478 | 1 | FINAL | | | |
| | CR | OK | .19891 | 0.199 | 1 | FINAL | | | |
| | PB | OK | 36.09412 | 36.1 | 1 | FINAL | | | |
| | SE | OK | .14348 | 0.143 | 1 | FINAL | | | |
| SD*TBRKS1*55 | AG | OK | .00263 | 0.013 | 5 | FINAL | | | |
| | AS | OK | .04512 | 0.226 | 5 | FINAL | | | |
| | BA | OK | .58788 | 2.94 | 5 | FINAL | | | |
| | CD | OK | .09787 | 0.489 | 5 | FINAL | | | |
| | CR | OK | .04045 | 0.202 | 5 | FINAL | | | |
| | PB | OK | 7.51849 | 37.6 | 5 | FINAL | | | |
| | SE | OK | .0502 | 0.251 | 5 | FINAL | | | |
| SPX*TBRKS1*55 | AG | OK | .07561 | 0.076 | 1 | FINAL | 0.05 | C | 5.3773 |
| | AS | OK | 1.99155 | 1.99 | 1 | FINAL | 2.0 | C | 215.09 |
| | BA | OK | 4.7729 | 4.77 | 1 | FINAL | 2.0 | C | 215.09 |
| | CD | OK | .509 | 0.509 | 1 | FINAL | 0.05 | C | 5.3773 |
| | CR | OK | .37953 | 0.380 | 1 | FINAL | 0.2 | C | 21.509 |
| | PB | OK | 35.46635 | 35.5 | 1 | FINAL | 0.5 | C | 53.773 |
| | SE | OK | 2.17214 | 2.17 | 1 | FINAL | 2.0 | C | 215.09 |
| SPM1*TBRKS1*55 | AG | OK | .07675 | 0.077 | 1 | FINAL | 0.05 | C | 5.2307 |
| | AS | OK | 1.89665 | 1.90 | 1 | FINAL | 2.0 | C | 209.23 |
| | BA | OK | 5.28546 | 5.29 | 1 | FINAL | 2.0 | C | 209.23 |
| | CD | OK | .68774 | 0.688 | 1 | FINAL | 0.05 | C | 5.2307 |
| | CR | OK | .48215 | 0.482 | 1 | FINAL | 0.2 | C | 20.923 |
| | PB | OK | 42.03102 | 42.0 | 1 | FINAL | 0.5 | C | 52.307 |
| | SE | OK | 1.9967 | 2.00 | 1 | FINAL | 2.0 | C | 209.23 |
| SPM2*TBRKS1*55 | AG | OK | .07509 | 0.075 | 1 | FINAL | 0.05 | C | 4.9601 |
| | AS | OK | 1.91658 | 1.92 | 1 | FINAL | 2.0 | C | 198.40 |
| | BA | OK | 5.01718 | 5.02 | 1 | FINAL | 2.0 | C | 198.40 |
| | CD | OK | .56104 | 0.561 | 1 | FINAL | 0.05 | C | 4.9601 |
| | CR | OK | .37544 | 0.375 | 1 | FINAL | 0.2 | C | 19.840 |
| | PB | OK | 31.93324 | 31.9 | 1 | FINAL | 0.5 | C | 49.601 |
| | SE | OK | 1.99587 | 2.00 | 1 | FINAL | 2.0 | C | 198.40 |
| CCV*QC*5 | AG | OK | .49177 | 0.492 | 1 | FINAL | | | 0.5 |
| | AS | OK | .49193 | 0.492 | 1 | FINAL | | | 0.5 |
| | BA | OK | .50925 | 0.509 | 1 | FINAL | | | 0.5 |
| | CD | OK | .49691 | 0.497 | 1 | FINAL | | | 0.5 |
| | CR | OK | .49617 | 0.496 | 1 | FINAL | | | 0.5 |
| | PB | OK | .5074 | 0.507 | 1 | FINAL | | | 0.5 |
| | SE | OK | .53045 | 0.530 | 1 | FINAL | | | 0.5 |
| CCB*QC*5 | AG | OK | .0007 | 0.0007 | 1 | FINAL | | | |
| | AS | OK | .00945 | 0.009 | 1 | FINAL | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | BA | OK | -.0009 | -.0009 | 1 | FINAL | |
| | CD | OK | .00115 | 0.001 | 1 | FINAL | |
| | CR | OK | .00103 | 0.001 | 1 | FINAL | |
| | PB | OK | -.0035 | -.004 | 1 | FINAL | |
| | SE | OK | .02032 | 0.020 | 1 | FINAL | |
| DA*TBRKS1*56 | AG | OK | .02871 | 0.029 | 1 | FINAL | |
| | AS | OK | .22769 | 0.228 | 1 | FINAL | |
| | BA | OK | 3.83171 | 3.83 | 1 | FINAL | |
| | CD | OK | .66012 | 0.660 | 1 | FINAL | |
| | CR | OK | .30084 | 0.301 | 1 | FINAL | |
| | PB | OK | 37.86637 | 37.9 | 1 | FINAL | |
| | SE | OK | .14479 | 0.145 | 1 | FINAL | |
| DA*TBRKS1*57 | AG | OK | .00325 | 0.033 | 10 | FINAL | |
| | AS | OK | .04126 | 0.413 | 10 | FINAL | |
| | BA | OK | .70638 | 7.06 | 10 | FINAL | |
| | CD | OK | .04039 | 0.404 | 10 | FINAL | |
| | CR | OK | .05538 | 0.554 | 10 | FINAL | |
| | PB | OK | 3.38514 | 33.9 | 10 | FINAL | |
| | SE | OK | .05639 | 0.564 | 10 | FINAL | |
| DA*TBRKS1*58 | AG | OK | .02021 | 0.404 | 20 | FINAL | |
| | AS | OK | .01653 | 0.331 | 20 | FINAL | |
| | BA | OK | .12665 | 2.53 | 20 | FINAL | |
| | CD | OK | .01539 | 0.308 | 20 | FINAL | |
| | CR | OK | .24436 | 4.89 | 20 | FINAL | |
| | PB | OK | 11.61868 | 232 | 20 | FINAL | |
| | SE | OK | .07222 | 1.44 | 20 | FINAL | |
| DA*TBRKS1*59 | AG | OK | .00891 | 0.009 | 1 | FINAL | |
| | AS | OK | .20374 | 0.204 | 1 | FINAL | |
| | BA | OK | 1.59096 | 1.59 | 1 | FINAL | |
| | CD | OK | .4296 | 0.430 | 1 | FINAL | |
| | CR | OK | .35788 | 0.358 | 1 | FINAL | |
| | PB | OK | 43.1893 | 43.2 | 1 | FINAL | |
| | SE | OK | .18795 | 0.188 | 1 | FINAL | |
| DA*TBRKS1*60 | AG | OK | .00464 | 0.005 | 1 | FINAL | |
| | AS | OK | .12997 | 0.130 | 1 | FINAL | |
| | BA | OK | 1.69185 | 1.69 | 1 | FINAL | |
| | CD | OK | .05154 | 0.052 | 1 | FINAL | |
| | CR | OK | .10061 | 0.101 | 1 | FINAL | |
| | PB | OK | 5.57928 | 5.58 | 1 | FINAL | |
| | SE | OK | .05814 | 0.058 | 1 | FINAL | |
| DA*TBRKS1*61 | AG | OK | .0237 | 0.024 | 1 | FINAL | |
| | AS | OK | .16609 | 0.166 | 1 | FINAL | |
| | BA | OK | 2.4566 | 2.46 | 1 | FINAL | |
| | CD | OK | .13125 | 0.131 | 1 | FINAL | |
| | CR | OK | .18088 | 0.181 | 1 | FINAL | |
| | PB | OK | 23.20122 | 23.2 | 1 | FINAL | |
| | SE | OK | .10569 | 0.106 | 1 | FINAL | |
| DA*TBRKS1*62 | AG | OK | .13712 | 0.137 | 1 | FINAL | |
| | AS | OK | .38882 | 0.389 | 1 | FINAL | |
| | BA | OK | 2.19845 | 2.20 | 1 | FINAL | |
| | CD | OK | .50494 | 0.505 | 1 | FINAL | |
| | CR | OK | .17494 | 0.175 | 1 | FINAL | |
| | PB | OK | 27.53428 | 27.5 | 1 | FINAL | |
| | SE | OK | .10369 | 0.104 | 1 | FINAL | |
| DA*TBRKS1*63 | AG | OK | .01067 | 0.107 | 10 | FINAL | |
| | AS | OK | .03177 | 0.318 | 10 | FINAL | |
| | BA | OK | .36762 | 3.68 | 10 | FINAL | |
| | CD | OK | .03438 | 0.344 | 10 | FINAL | |
| | CR | OK | .02398 | 0.240 | 10 | FINAL | |
| | PB | OK | 6.49525 | 65.0 | 10 | FINAL | |
| | SE | OK | .01126 | 0.113 | 10 | FINAL | |
| DA*TBRKS1*64 | AG | OK | .00217 | 0.002 | 1 | FINAL | |
| | AS | OK | .10718 | 0.107 | 1 | FINAL | |
| | BA | OK | 1.13083 | 1.13 | 1 | FINAL | |
| | CD | OK | .04886 | 0.049 | 1 | FINAL | |
| | CR | OK | .10211 | 0.102 | 1 | FINAL | |
| | PB | OK | 1.67573 | 1.68 | 1 | FINAL | |
| | SE | OK | .04206 | 0.042 | 1 | FINAL | |
| CCV*QC*6 | AG | OK | .48452 | 0.485 | 1 | FINAL | 0.5 |
| | AS | OK | .485 | 0.485 | 1 | FINAL | 0.5 |
| | BA | OK | .50484 | 0.505 | 1 | FINAL | 0.5 |
| | CD | OK | .48921 | 0.489 | 1 | FINAL | 0.5 |
| | CR | OK | .48494 | 0.485 | 1 | FINAL | 0.5 |
| | PB | OK | .48661 | 0.487 | 1 | FINAL | 0.5 |
| | SE | OK | .48966 | 0.490 | 1 | FINAL | 0.5 |
| CCB*QC*6 | AG | OK | -.0007 | -.0007 | 1 | FINAL | |
| | AS | OK | -.0063 | -.006 | 1 | FINAL | |
| | BA | OK | -.0009 | -.0009 | 1 | FINAL | |
| | CD | OK | .0005 | 0.0005 | 1 | FINAL | |
| | CR | OK | -.0005 | -.0005 | 1 | FINAL | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | PB | OK | .00172 | 0.002 | 1 | FINAL | |
| | SE | OK | -.0007 | -.0007 | 1 | FINAL | |
| DA*TBRKS1*65 | AG | OK | .0011 | 0.001 | 1 | FINAL | |
| | AS | OK | .0752 | 0.075 | 1 | FINAL | |
| | BA | OK | 1.10132 | 1.10 | 1 | FINAL | |
| | CD | OK | .03104 | 0.031 | 1 | FINAL | |
| | CR | OK | .0758 | 0.076 | 1 | FINAL | |
| | PB | OK | 1.93726 | 1.94 | 1 | FINAL | |
| | SE | OK | .02519 | 0.025 | 1 | FINAL | |
| ICS*A*2 | AG | OK | -.0055 | -.006 | 1 | FINAL | |
| | AS | OK | .08941 | 0.089 | 1 | FINAL | |
| | BA | OK | .00881 | 0.009 | 1 | FINAL | |
| | CD | OK | -.0032 | -.003 | 1 | FINAL | |
| | CR | OK | -.0021 | -.002 | 1 | FINAL | |
| | PB | OK | -.0001 | -.0001 | 1 | FINAL | |
| | SE | OK | -.0157 | -.016 | 1 | FINAL | |
| ICS*AB*2 | AG | OK | .9204 | 0.920 | 1 | FINAL | 1 |
| | AS | OK | 1.03435 | 1.03 | 1 | FINAL | 1 |
| | BA | OK | .487 | 0.487 | 1 | FINAL | 0.5 |
| | CD | OK | .90114 | 0.901 | 1 | FINAL | 1 |
| | CR | OK | .43516 | 0.435 | 1 | FINAL | 0.5 |
| | PB | OK | .85919 | 0.859 | 1 | FINAL | 1 |
| | SE | OK | .98241 | 0.982 | 1 | FINAL | 1 |
| CCV*QC*7 | AG | OK | .48162 | 0.482 | 1 | FINAL | 0.5 |
| | AS | OK | .4722 | 0.472 | 1 | FINAL | 0.5 |
| | BA | OK | .50308 | 0.503 | 1 | FINAL | 0.5 |
| | CD | OK | .49056 | 0.491 | 1 | FINAL | 0.5 |
| | CR | OK | .48388 | 0.484 | 1 | FINAL | 0.5 |
| | PB | OK | .48947 | 0.489 | 1 | FINAL | 0.5 |
| | SE | OK | .49137 | 0.491 | 1 | FINAL | 0.5 |
| CCB*QC*7 | AG | OK | -.0005 | -.0005 | 1 | FINAL | |
| | AS | OK | -.0006 | -.0006 | 1 | FINAL | |
| | BA | OK | -.0004 | -.0004 | 1 | FINAL | |
| | CD | OK | .00123 | 0.001 | 1 | FINAL | |
| | CR | OK | -.0010 | -.001 | 1 | FINAL | |
| | PB | OK | -.0006 | -.0006 | 1 | FINAL | |
| | SE | OK | .00232 | 0.002 | 1 | FINAL | |

HOLDING TIMES CHECK

| SAMPLE | ANALYTE | ANL DATE | EXT DATE | SMP DATE | H.T. OVER |
|---|---|---|---|---|---|

ALL HOLDING TIMES MET

STORET: 1078 METHOD: 6010-G SILVER, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .005 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.001 | |
| QC*2 | 0.0002 | |
| QC*3 | 0.0005 | |
| QC*4 | -.0002 | |
| QC*5 | 0.0007 | |
| QC*6 | -.0007 | |
| QC*7 | -.0005 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | NA | | |
| STD4*1 | 0.999 | 1.00 | -.1 |
| QC*1 | 0.489 | 0.500 | -2.2 |
| QC*2 | 0.492 | 0.500 | -1.6 |
| QC*3 | 0.488 | 0.500 | -2.4 |
| QC*4 | 0.488 | 0.500 | -2.4 |
| QC*5 | 0.492 | 0.500 | -1.6 |
| QC*6 | 0.485 | 0.500 | -3.0 |
| QC*7 | 0.482 | 0.500 | -3.6 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.0 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -.006 | | |
| AB*1 | 0.940 | 1.00 | 6.0 |
| A*2 | -.006 | | |
| AB*2 | 0.920 | 1.00 | 8.0 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 0.987 | 1.00 | 1.3 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 68.2 | 70.6 | 96.6 |
| ERA237*2 | 70.4 | 70.6 | 99.7 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | | | N/C |
| TBRKS1*22 | | | N/C |
| TBRKS1*35 | | | N/C |
| TBRKS1*55 | | | N/C |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 43.7 | 55.9 | 12.2 | 9.55 | 127.7 | | Recovery Exceeds criteria. (>116) |
| SPM2*TBRKS1*17 | 43.7 | 52.8 | 9.10 | 8.80 | 103.4 | 21.0 | |
| SPM1*TBRKS1*22 | 1.94 | 14.4 | 12.5 | 12.3 | 101.6 | | |
| SPM2*TBRKS1*22 | 1.94 | 13.5 | 11.6 | 12.3 | 94.3 | 7.5 | |
| SPM1*TBRKS1*35 | 0.0 | 5.63 | 5.63 | 5.14 | 109.5 | | |
| SPM2*TBRKS1*35 | 0.0 | 5.61 | 5.61 | 5.14 | 109.1 | 0.4 | |
| SPM1*TBRKS1*55 | 1.91 | 8.03 | 6.12 | 5.23 | 117.0 | | Recovery Exceeds criteria. (>116) |
| SPM2*TBRKS1*55 | 1.91 | 7.45 | 5.54 | 4.96 | 111.7 | 4.6 | |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 4.37 | 15.2 | 10.8 | 9.92 | 108.9 | |
| SPX*TBRKS1*22 | 1.94 | 14.9 | 13.0 | 12.0 | 108.3 | |
| SPX*TBRKS1*35 | 0.0 | 5.72 | 5.72 | 4.78 | 119.7 | |
| SPX*TBRKS1*55 | 1.91 | 8.13 | 6.22 | 5.38 | 115.6 | |

STORET: 1003 METHOD: 6010-G ARSENIC, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .1 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.008 | |
| QC*2 | -.002 | |
| QC*3 | -.003 | |
| QC*4 | 0.002 | |
| QC*5 | 0.009 | |
| QC*6 | -.006 | |
| QC*7 | -.0006 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 0.970 | 1.00 | -3.0 |
| STD4*1 | NA | | |
| QC*1 | 0.507 | 0.500 | 1.4 |
| QC*2 | 0.519 | 0.500 | 3.8 |
| QC*3 | 0.475 | 0.500 | -5.0 |
| QC*4 | 0.496 | 0.500 | -.8 |
| QC*5 | 0.492 | 0.500 | -1.6 |
| QC*6 | 0.485 | 0.500 | -3.0 |
| QC*7 | 0.472 | 0.500 | -5.6 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.011 | |

INTERFERENCE CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -.166 | | |
| AB*1 | 0.883 | 1.00 | 11.7 |
| A*2 | 0.089 | | |
| AB*2 | 1.03 | 1.00 | 3.0 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 0.976 | 1.00 | 2.4 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 55.1 | 60.2 | 91.5 |
| ERA237*2 | 59.1 | 60.2 | 98.2 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | | | N/C |
| TBRKS1*22 | | | N/C |
| TBRKS1*35 | | | N/C |
| TBRKS1*55 | | | N/C |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 359 | 678 | 319 | 382 | 83.5 | |
| SPM2*TBRKS1*17 | 359 | 672 | 313 | 352 | 88.9 | 6.3 |
| SPM1*TBRKS1*22 | 0.0 | 440 | 440 | 491 | 89.6 | |
| SPM2*TBRKS1*22 | 0.0 | 435 | 435 | 491 | 88.6 | 1.1 |
| SPM1*TBRKS1*35 | 13.7 | 199 | 185 | 206 | 89.8 | |
| SPM2*TBRKS1*35 | 13.7 | 200 | 186 | 206 | 90.3 | 0.6 |
| SPM1*TBRKS1*55 | 24.7 | 198 | 173 | 209 | 82.8 | |
| SPM2*TBRKS1*55 | 24.7 | 190 | 165 | 198 | 83.3 | 0.6 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 35.9 | 377 | 341 | 397 | 85.9 | |
| SPX*TBRKS1*22 | 0.0 | 432 | 432 | 478 | 90.4 | |
| SPX*TBRKS1*35 | 13.7 | 186 | 172 | 191 | 90.1 | |
| SPX*TBRKS1*55 | 24.7 | 214 | 189 | 215 | 87.9 | |

STORET: 1008 METHOD: 6010-G BARIUM, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .02 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.001 | |
| QC*2 | 0.0 | |
| QC*3 | -.001 | |
| QC*4 | -.0009 | |
| QC*5 | -.0009 | |
| QC*6 | -.0009 | |
| QC*7 | -.0004 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 1.00 | 1.00 | 0.0 |
| STD4*1 | NA | | |
| QC*1 | 0.502 | 0.500 | 0.4 |
| QC*2 | 0.506 | 0.500 | 1.2 |
| QC*3 | 0.504 | 0.500 | 0.8 |
| QC*4 | 0.508 | 0.500 | 1.6 |
| QC*5 | 0.509 | 0.500 | 1.8 |
| QC*6 | 0.505 | 0.500 | 1.0 |
| QC*7 | 0.503 | 0.500 | 0.6 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.0004 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC. | DIFFERENCE% |
|---|---|---|---|
| A*1 | 0.009 | | |
| AB*1 | 0.486 | 0.500 | 2.8 |
| A*2 | 0.009 | | |
| AB*2 | 0.487 | 0.500 | 2.6 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 0.990 | 1.00 | 1.0 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 77.4 | 83.4 | 92.8 |
| ERA237*2 | 79.6 | 83.4 | 95.4 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | 1170 | 1190 | 1.7 |
| TBRKS1*22 | 221 | 225 | 1.8 |
| TBRKS1*35 | 279 | 282 | 1.1 |
| TBRKS1*55 | 316 | 310 | 1.9 |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 1190 | 1660 | 470 | 382 | 123.0 | |
| SPM2*TBRKS1*17 | 1190 | 1550 | 360 | 352 | 102.3 | 18.4 |
| SPM1*TBRKS1*22 | 225 | 725 | 500 | 491 | 101.8 | |
| SPM2*TBRKS1*22 | 225 | 733 | 508 | 491 | 103.5 | 1.7 |
| SPM1*TBRKS1*35 | 282 | 504 | 222 | 206 | 107.8 | |
| SPM2*TBRKS1*35 | 282 | 495 | 213 | 206 | 103.4 | 4.2 |
| SPM1*TBRKS1*55 | 310 | 553 | 243 | 209 | 116.3 | |
| SPM2*TBRKS1*55 | 310 | 498 | 188 | 198 | 94.9 | 20.3 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 119 | 498 | 379 | 397 | 95.5 | |
| SPX*TBRKS1*22 | 225 | 686 | 461 | 478 | 96.4 | |
| SPX*TBRKS1*35 | 282 | 460 | 178 | 191 | 93.2 | |
| SPX*TBRKS1*55 | 310 | 513 | 203 | 215 | 94.4 | |

STORET: 1028 METHOD: 6010-G CADMIUM, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .005 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|

| | |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.0001 | |
| QC*2 | 0.0008 | |
| QC*3 | 0.002 | |
| QC*4 | 0.0004 | |
| QC*5 | 0.001 | |
| QC*6 | 0.0005 | |
| QC*7 | 0.001 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 0.994 | 1.00 | -.6 |
| STD4*1 | NA | | |
| QC*1 | 0.497 | 0.500 | -.6 |
| QC*2 | 0.499 | 0.500 | -.2 |
| QC*3 | 0.493 | 0.500 | -1.4 |
| QC*4 | 0.493 | 0.500 | -1.4 |
| QC*5 | 0.497 | 0.500 | -.6 |
| QC*6 | 0.489 | 0.500 | -2.2 |
| QC*7 | 0.491 | 0.500 | -1.8 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.0001 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | 0.001 | | |
| AB*1 | 0.922 | 1.00 | 7.8 |
| A*2 | -.003 | | |
| AB*2 | 0.901 | 1.00 | 9.9 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 0.987 | 1.00 | 1.3 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 51.9 | 52.4 | 99.0 |
| ERA237*2 | 52.7 | 52.4 | 100.6 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | 2880 | 2890 | 0.3 |
| TBRKS1*22 | 556 | 566 | 1.8 |
| TBRKS1*35 | 4.16 | 4.96 | 16.1 |
| TBRKS1*55 | 52.6 | 51.4 | 2.3 |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 2890 | 3020 | 130 | 9.55 | 1361 | | Recovery Exceeds criteria. (>144) |
| SPM2*TBRKS1*17 | 2890 | 2960 | 70.0 | 8.80 | 795.5 | 52.4 | Relative Percent Difference exceeds criteria (>46) |
| SPM1*TBRKS1*22 | 566 | 761 | 195 | 12.3 | 1585 | | Recovery Exceeds criteria. (>144) |
| SPM2*TBRKS1*22 | 566 | 502 | -64.0 | 12.3 | -520.3 | 395.5 | Relative Percent Difference exceeds criteria (>46) |
| SPM1*TBRKS1*35 | 4.96 | 10.6 | 5.64 | 5.14 | 109.7 | | |
| SPM2*TBRKS1*35 | 4.96 | 10.5 | 5.54 | 5.14 | 107.8 | 1.7 | |
| SPM1*TBRKS1*55 | 51.4 | 71.9 | 20.5 | 5.23 | 392.0 | | Recovery Exceeds criteria. (>144) |
| SPM2*TBRKS1*55 | 51.4 | 55.7 | 4.30 | 4.96 | 86.7 | 127.6 | Relative Percent Difference exceeds criteria (>46) |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 289 | 290 | 1.00 | 9.92 | 10.1 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |
| SPX*TBRKS1*22 | 566 | 553 | -13.0 | 12.0 | -108.3 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |
| SPX*TBRKS1*35 | 4.96 | 9.29 | 4.33 | 4.78 | 90.6 | | |
| SPX*TBRKS1*55 | 51.4 | 54.7 | 3.30 | 5.36 | 61.3 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |

STORET: 1029 METHOD: 6010-G CHROMIUM, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .01 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.0005 | |
| QC*2 | -.0008 | |
| QC*3 | -.0005 | |
| QC*4 | -.003 | |
| QC*5 | 0.001 | |
| QC*6 | -.0005 | |
| QC*7 | -.001 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 0.998 | 1.00 | -.2 |
| STD4*1 | NA | | |
| QC*1 | 0.494 | 0.500 | -1.2 |
| QC*2 | 0.498 | 0.500 | -.4 |
| QC*3 | 0.493 | 0.500 | -1.4 |
| QC*4 | 0.494 | 0.500 | -1.2 |
| QC*5 | 0.496 | 0.500 | -.8 |
| QC*6 | 0.485 | 0.500 | -3.0 |
| QC*7 | 0.484 | 0.500 | -3.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.0005 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -.004 | | |
| AB*1 | 0.446 | 0.500 | 10.8 |
| A*2 | -.002 | | |
| AB*2 | 0.435 | 0.500 | 13.0 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 0.996 | 1.00 | 0.4 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 84.3 | 88.2 | 95.6 |
| ERA237*2 | 85.5 | 88.2 | 96.9 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | 101 | 100 | 1.0 |
| TBRKS1*22 | 13.4 | 14.0 | 4.3 |
| TBRKS1*35 | 13.9 | 14.8 | 6.1 |
| TBRKS1*55 | 21.8 | 21.4 | 1.9 |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 100 | 67.0 | -33.0 | 38.2 | -86.4 | | Recovery Exceeds criteria. (<46) |
| SPM2*TBRKS1*17 | 100 | 65.9 | -34.1 | 35.2 | -96.9 | 11.5 | Recovery Exceeds criteria. (<46) |
| SPM1*TBRKS1*22 | 14.0 | 61.7 | 47.7 | 49.1 | 97.1 | | |
| SPM2*TBRKS1*22 | 14.0 | 63.7 | 49.7 | 49.1 | 101.2 | 4.1 | |
| SPM1*TBRKS1*35 | 14.8 | 36.9 | 22.1 | 20.6 | 107.3 | | |
| SPM2*TBRKS1*35 | 14.8 | 35.5 | 20.7 | 20.6 | 100.5 | 6.5 | |
| SPM1*TBRKS1*55 | 21.4 | 50.4 | 29.0 | 20.9 | 138.8 | | |
| SPM2*TBRKS1*55 | 21.4 | 37.2 | 15.8 | 19.8 | 79.8 | 54.0 | Relative Percent Difference exceeds criteria (>52) |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 10.0 | 46.7 | 36.7 | 39.7 | 92.4 | |
| SPX*TBRKS1*22 | 14.0 | 58.7 | 44.7 | 47.8 | 93.5 | |
| SPX*TBRKS1*35 | 14.8 | 32.3 | 17.5 | 19.1 | 91.6 | |
| SPX*TBRKS1*55 | 21.4 | 40.8 | 19.4 | 21.5 | 90.2 | |

STORET: 1052 METHOD: 6010-G LEAD, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .1 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -.004 | |

| | |
|---|---|
| QC*2 | 0.013 |
| QC*3 | -.013 |
| QC*4 | 0.0 |
| QC*5 | -.004 |
| QC*6 | 0.002 |
| QC*7 | -.0006 |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 0.994 | 1.00 | -.6 |
| STD4*1 | NA | | |
| QC*1 | 0.494 | 0.500 | -1.2 |
| QC*2 | 0.504 | 0.500 | 0.8 |
| QC*3 | 0.501 | 0.500 | 0.2 |
| QC*4 | 0.482 | 0.500 | -3.6 |
| QC*5 | 0.507 | 0.500 | 1.4 |
| QC*6 | 0.487 | 0.500 | -2.6 |
| QC*7 | 0.489 | 0.500 | -2.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.009 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | 0.007 | | |
| AB*1 | 0.898 | 1.00 | 10.2 |
| A*2 | -.0001 | | |
| AB*2 | 0.859 | 1.00 | 14.1 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 1.01 | 1.00 | 1.0 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 74.7 | 75.1 | 99.5 |
| ERA237*2 | 77.0 | 75.1 | 102.5 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | 40000 | 40000 | 0.0 |
| TBRKS1*22 | 1070 | 1100 | 2.7 |
| TBRKS1*35 | 361 | 358 | 0.8 |
| TBRKS1*55 | 4040 | 3880 | 4.1 |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 40000 | 50000 | 10000 | 95.5 | 10470 | | Recovery Exceeds criteria. (>123) |
| SPM2*TBRKS1*17 | 40000 | 40600 | 600 | 88.0 | 681.8 | 175.5 | Relative Percent Difference exceeds criteria (>28) |
| SPM1*TBRKS1*22 | 1100 | 1390 | 290 | 123 | 235.8 | | Recovery Exceeds criteria. (>123) |
| SPM2*TBRKS1*22 | 1100 | 984 | -116 | 123 | -94.3 | 466.6 | Relative Percent Difference exceeds criteria (>28) |
| SPM1*TBRKS1*35 | 358 | 629 | 271 | 51.4 | 527.2 | | Recovery Exceeds criteria. (>123) |
| SPM2*TBRKS1*35 | 358 | 508 | 150 | 51.4 | 291.8 | 57.5 | Relative Percent Difference exceeds criteria (>28) |
| SPM1*TBRKS1*55 | 3880 | 4400 | 520 | 52.3 | 994.3 | | Recovery Exceeds criteria. (>123) |
| SPM2*TBRKS1*55 | 3880 | 3170 | -710 | 49.6 | -1431 | 1111 | Relative Percent Difference exceeds criteria (>28) |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 4000 | 3970 | -30.0 | 99.2 | -30.2 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |
| SPX*TBRKS1*22 | 1100 | 1160 | 60.0 | 120 | 50.0 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |
| SPX*TBRKS1*35 | 358 | 391 | 33.0 | 47.8 | 69.0 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |
| SPX*TBRKS1*55 | 3880 | 3810 | -70.0 | 53.8 | -130.1 | | Exceeds criteria. (Recovery Limit 100 +/- 25 ) |

STORET: 1148 METHOD: 6010-G SELENIUM, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = .1 DATE: 06/18/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.017 | |
| QC*2 | 0.011 | |
| QC*3 | 0.030 | |
| QC*4 | 0.013 | |

| | |
|---|---|
| QC*5 | 0.020 |
| QC*6 | -.0007 |
| QC*7 | 0.002 |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| STD2*1 | 1.02 | 1.00 | 2.0 |
| STD4*1 | NA | | |
| QC*1 | 0.528 | 0.500 | 5.6 |
| QC*2 | 0.493 | 0.500 | -1.4 |
| QC*3 | 0.508 | 0.500 | 1.6 |
| QC*4 | 0.515 | 0.500 | 3.0 |
| QC*5 | 0.530 | 0.500 | 6.0 |
| QC*6 | 0.490 | 0.500 | -2.0 |
| QC*7 | 0.491 | 0.500 | -1.8 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.004 | |

INTERFERENCE CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -.002 | | |
| AB*1 | 0.936 | 1.00 | 6.4 |
| A*2 | -.016 | | |
| AB*2 | 0.982 | 1.00 | 1.8 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QCS26*1 | 1.02 | 1.00 | 2.0 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| ERA237*1 | 51.9 | 51.5 | 100.8 |
| ERA237*2 | 52.4 | 51.5 | 101.7 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKS1*17 | | | N/C |
| TBRKS1*22 | | | N/C |
| TBRKS1*35 | | | N/C |
| TBRKS1*55 | | | N/C |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 0.0 | 469 | 469 | 382 | 122.8 | | Recovery Exceeds criteria. (>110) |
| SPM2*TBRKS1*17 | 0.0 | 392 | 392 | 352 | 111.4 | 9.7 | Recovery Exceeds criteria. (>110) |
| SPM1*TBRKS1*22 | 0.0 | 501 | 501 | 491 | 102.0 | | |
| SPM2*TBRKS1*22 | 0.0 | 495 | 495 | 491 | 100.8 | 1.2 | |
| SPM1*TBRKS1*35 | 0.0 | 207 | 207 | 206 | 100.5 | | |
| SPM2*TBRKS1*35 | 0.0 | 210 | 210 | 206 | 101.9 | 1.4 | |
| SPM1*TBRKS1*55 | 15.4 | 209 | 194 | 209 | 92.8 | | |
| SPM2*TBRKS1*55 | 15.4 | 198 | 183 | 198 | 92.4 | 0.4 | |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKS1*17 | 0.0 | 395 | 395 | 397 | 99.5 | |
| SPX*TBRKS1*22 | 0.0 | 482 | 482 | 478 | 100.8 | |
| SPX*TBRKS1*35 | 0.0 | 196 | 196 | 191 | 102.6 | |
| SPX*TBRKS1*55 | 15.4 | 234 | 219 | 215 | 101.9 | |

| | 1078 | 1003 | 1008 | 1028 | 1029 | 1052 | 1148 |
|---|---|---|---|---|---|---|---|
| | 6010 | 6010 | 6010 | 6010 | 6010 | 6010 | 6010 |
| | SILVER | ARSENIC | BARIUM | CADMIUM | CHROMIUM | LEAD | SELENIUM |
| SAMPLE ID | MG/KG-DRY | MG/KG-DRY | MG/KG-DRY | MG/KG-DRY | MG/KG-DRY | MG/KG-DRY | MG/KG-DRY |
| MB*QC*1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| MB*QC*2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TBRKS1*17 | 43.7 | 359 | 1190 | 2890 | 100 | 40000 | <198 |
| TBRKS1*18 | 38.8 | 280 | 1050 | 2530 | 28.3 | 34500 | <196 |
| TBRKS1*19 | 55.5 | <193 | 1580 | 3280 | 56.6 | 32000 | <193 |
| TBRKS1*20 | 25.8 | <110 | 3100 | 704 | 50.4 | 18200 | <110 |
| TBRKS1*21 | 105 | <130 | 1280 | 3010 | 76.9 | 25400 | <130 |
| TBRKS1*22 | 1.94 | <23.9 | 225 | 566 | 14.0 | 1100 | <23.9 |
| TBRKS1*23 | 1.48 | <23.7 | 318 | 519 | 26.3 | 826 | <23.7 |
| TBRKS1*24 | <0.946 | <18.9 | 210 | 308 | 14.4 | 383 | <18.9 |
| TBRKS1*25 | 1.63 | <15.2 | 239 | 98.1 | 16.4 | 652 | <15.2 |
| TBRKS1*26 | <0.629 | <12.6 | 313 | 8.69 | 23.8 | 1490 | <12.6 |
| TBRKS1*30 | <0.662 | 17.9 | 193 | 1.82 | 18.6 | 112 | <13.2 |
| TBRKS1*31 | <0.617 | 16.5 | 242 | 1.29 | 19.0 | 55.5 | <12.3 |
| TBRKS1*32 | <0.486 | 15.4 | 247 | 1.36 | 16.1 | 56.3 | <9.71 |
| TBRKS1*33 | 1.11 | 21.1 | 265 | 18.8 | 14.4 | 1120 | <11.7 |
| TBRKS1*34 | 0.699 | 24.1 | 549 | 16.0 | 25.7 | 2380 | 15.4 |
| TBRKS1*35 | <0.478 | 13.7 | 282 | 4.96 | 14.8 | 358 | <9.56 |
| TBRKS1*36 | <0.502 | 15.5 | 275 | 3.14 | 13.0 | 156 | <10.0 |
| TBRKS1*37 | <0.490 | 14.1 | 250 | 2.95 | 12.8 | 179 | <9.79 |
| TBRKS1*38 | <0.538 | <10.8 | 244 | 2.13 | 11.1 | 124 | <10.8 |
| TBRKS1*53 | <0.739 | 18.8 | 214 | 4.65 | 16.7 | 79.8 | <14.8 |
| TBRKS1*54 | 62.8 | 167 | 2430 | 3450 | 110 | 22800 | <144 |
| TBRKS1*55 | 1.91 | 24.7 | 310 | 51.4 | 21.4 | 3880 | 15.4 |
| TBRKS1*56 | 2.77 | 21.9 | 369 | 63.6 | 29.0 | 3650 | 13.9 |
| TBRKS1*57 | <3.40 | <68.1 | 481 | 27.5 | 37.7 | 2300 | <68.1 |
| TBRKS1*58 | 40.4 | <200 | 253 | 30.8 | 488 | 23200 | <200 |
| TBRKS1*59 | 0.967 | 22.1 | 173 | 46.6 | 38.8 | 4690 | 20.4 |
| TBRKS1*60 | <0.573 | 14.9 | 194 | 5.91 | 11.5 | 639 | <11.5 |
| TBRKS1*61 | 2.51 | 17.6 | 260 | 13.9 | 19.1 | 2450 | 11.2 |
| TBRKS1*62 | 16.3 | 46.2 | 261 | 60.1 | 20.8 | 3280 | 12.3 |
| TBRKS1*63 | 14.0 | <131 | 482 | 45.0 | 31.4 | 8510 | <131 |
| TBRKS1*64 | <0.890 | 19.1 | 201 | 8.69 | 18.2 | 298 | <17.8 |
| TBRKS1*65 | <1.12 | <22.4 | 246 | 6.95 | 17.0 | 433 | <22.4 |

## UNITS AND EXAMPLE CALCULATIONS

| | UNITS ENTERED |
|---|---|
| FINAL CONCENTRATION | MG/KG-DRY = µg/g |
| INJECTION VOLUME | NA |
| SAMPLE VOLUME | G |
| EXTRACT VOLUME | ML |
| CURVE CONCENTRATION | UG/ML |
| SPIKE SOLN CONCENTRATION | UG/ML |
| SPIKE VOLUME | NA |
| SPIKE SAMPLE VOLUME | NA |
| TARGET CONCENTRATION | UG/ML |
| RESPONSE DESCRIPTION | UG/ML |
| CONVERSION FACTOR | 1 |

TBRKS1 x 22 (Ba = .94096 µg/mL)

FINAL CONC = CURV CONC * EXT VOL * DIL * 1 / (INJ VOL * SAMP VOL * ((100 - %MOISTURE) / 100))

MG/KG-DRY = (UG/ML) * (ML) * 1 / (NA) * (G)

(221.9 µg/g-dry) = (.94096 µg/mL) * (100mL) * (N/A) / (1.14g) * (N/A) * ((100 - (63.3)) / 100) = mg/Kg-dry

TARGET CONC = SPIKE SOLN CONC * SPIKE VOL / SPIKE SAMP VOL * ((100 - %MOISTURE) / 100)

UG/ML = (UG/ML) * (NA) / (NA)

KSB
6/22/98

QST Environmental Analytical Services
Computer QC Checks

Batch No.: G91185 Analysis Date: 06/18/98 Analyst: KENT BRAKEFIELD Report Date: 06/22/98

| | Yes | "Exceptions" No | See Batch Comments | |
|---|---|---|---|---|
| Are ALL units documented in batch? | X | | | |
| Analysis holding time within criteria? | X | | | |
| CCV present? | X | | | |
| CCV within acceptance criteria? | X | | | |
| ICS present? | X | | | |
| ICS within acceptance criteria? | X | | | |
| ICV present? | X | | | |
| ICV within acceptance criteria? | X | | | |
| LCS present? | X | | | |
| LCS within acceptance criteria? | X | | | |
| Method blank present? | X | | | |
| Method blank within acceptance criteria? | X | | | |
| SD present? | X | | | |
| SD within acceptance criteria? | X | | | |
| Sample matrix spike present? | X | | | |
| Sample matrix spike within acceptance criteria? | | X | AG | See Batch Narrative. |
| | | | CD | |
| | | | CR | |
| | | | PB | |
| | | | SE | |
| Sample matrix spike duplicate present? | X | | | |
| Sample matrix spike duplicate within acceptance criteria? | | X | CD | |
| | | | CR | |
| | | | PB | |
| | | | SE | |
| Analytical spike present? | X | | | |
| Analytical spike within acceptance criteria? | | X | CD | |
| | | | PB | |

Note: Any "NO" answer requires a comment.

QST Environmental Analytical Services
Internal QA/QC Batch Checklist For Atomic Spectroscopy

Batch No.: G91185 Analysis Date: 06/18/98 Analyst: KENT BRAKEFIELD

| | N/A | Yes | No | "Exceptions" Comment/Corrective Action |
|---|---|---|---|---|
| Is the method blank free of contamination? | ✓ | ✓ | | |
| If not, has the data been blank corrected? | ✓ | | | |
| Are reported values consistent with the required units? | | ✓ | | |
| Are detection limits reported correctly? | | ✓ | | |
| Are dilution factors entered correctly? | | ✓ | | |
| Is the calibration curve (if applicable) entered correctly? | ✓ | | | |
| Is the curve correlation coefficient >= 0.995 ? | ✓ | | | |
| If not, is an appropriate explanation provided? | | | | |
| Are all the correct elements included in the spikes? | | ✓ | | |
| Is the batch checked for data entry error(s)? | | ✓ | | |
| Are continuing calibration blanks analyzed at a frequency specified in the appropriate QA/QC Plan (i.e. AF, COE or FDER QA/QC plan)? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are continuing calibration verification (CCV) standards analyzed at a frequency specified in the appropriate QA/QC Plan? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Is an example calculation provided? | ✓ | | | |
| Has the batch documentation checklist been completed? | | N | | |
| Were the first extracts/digests prepped from this sample used for sample analysis? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |

Note: Any "NO" answer requires a comment.
Additional Comments:

Completed By Kent Brakefield
Date 6/22/98

Reviewed By [illegible]
Date 6/22/98

Notification of appropriate Laboratory Coordinators required for "Exceptions":

| Signature | Date | Comments |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

BATCH OVERRIDE BY:

FINALIZED BY:

RAW DATA DOCUMENTATION FOR %MOISTURE USED TO CONVERT ANALYTICAL DATA TO DRY WEIGHT

| SAMPLE ID | PAN WEIGHT (GM) | PAN+SAMPLE WEIGHT-WET (GM) | PAN+SAMPLE WEIGHT-DRY (GM) | %MOISTURE (%WET WT) | QST BATCH | ANALYSIS DATE | NOTEBOOK REFERENCE |
|---|---|---|---|---|---|---|---|
| TBRKS1*17 | 1.30520 | 8.40910 | 4.81640 | 50.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*18 | 1.28260 | 9.27120 | 5.30510 | 49.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*19 | 1.29010 | 7.00590 | 4.15920 | 49.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*20 | 1.28970 | 9.88560 | 8.78230 | 12.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*21 | 1.29550 | 10.18290 | 7.69620 | 28.0 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*22 | 1.28500 | 8.00600 | 3.74940 | 63.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*23 | 1.28570 | 10.39280 | 4.31280 | 66.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*24 | 1.28840 | 8.81980 | 4.41950 | 58.4 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*25 | 1.28960 | 8.05470 | 5.66400 | 35.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*26 | 1.29650 | 9.35840 | 6.46440 | 35.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*30 | 1.30390 | 10.05600 | 7.15420 | 33.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*31 | 1.29960 | 8.53970 | 6.78320 | 24.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*32 | 1.29740 | 7.53240 | 6.01910 | 24.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*33 | 1.30400 | 10.09640 | 8.74770 | 15.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*34 | 1.29950 | 8.62010 | 6.15710 | 33.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*35 | 1.29900 | 10.43260 | 8.76230 | 18.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*36 | 1.30780 | 8.46810 | 7.39850 | 14.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*37 | 1.31300 | 9.85770 | 8.52280 | 15.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*38 | 1.29150 | 9.16160 | 7.59350 | 19.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*53 | 1.29400 | 9.54450 | 6.41630 | 37.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*54 | 1.29860 | 8.05680 | 5.49600 | 37.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*55 | 1.29940 | 9.71590 | 8.60990 | 13.1 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*56 | 1.28810 | 8.75240 | 7.69510 | 14.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*57 | 1.29940 | 9.37520 | 8.95350 | 5.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*58 | 1.31230 | 9.86460 | 9.16530 | 8.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*59 | 1.29790 | 10.40000 | 8.78960 | 17.7 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*60 | 1.30500 | 10.29380 | 8.77570 | 16.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*61 | 1.29760 | 8.57470 | 7.22820 | 18.5 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*62 | 1.30150 | 9.48130 | 7.39030 | 25.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*63 | 1.29280 | 9.22370 | 7.06070 | 27.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*64 | 1.29880 | 8.13100 | 4.79190 | 48.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*65 | 1.30080 | 9.96450 | 4.85190 | 59.0 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |

# QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY SAMPLE PRE

Book # 44 Pg. # 37

Matrix SOIL Method/QC Type ICP/FDER
SOP No. GLM 1233-004 R4 Lot No.(s) NA

| Spike Solutions Used | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|
| 1. ICAP FDER Spk | | MV labs | 10/21/98 |
| 2. ICAP FDER Ag Spk | | | |
| 3. ILM03-0 Supplement | | | |
| 4. | | | |
| 5. | | | |

| Reagents Used | Lot No. |
|---|---|
| 1. Baker $HNO_3$ | L24025 |
| 2. HCl | L46040 |
| 3. | |

Final Vol. (ml) 100 ml Pipets Used Rainin F701408

Balance No. 13 Hood No. 5 Hotplate No. 1 & 2 Hotplate temp. 94°/

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| MB 1 | — | |
| MB 2 | — | |
| LCS 1 | 1.09 | Priority Pollutant Lot # 237 |
| LCS 2 | 1.08 | |
| TBR KS1 # 17 | 1.02 | |
| SPM1 # 17 | 1.06 | 1ml #1,2,&3 |
| SPM2 # 17 | 1.15 | 1ml #1,2,&3 |
| 18 | 1.01 | |
| 19 | 1.03 | |
| 20 | 1.04 | |
| 21 | 1.07 | |
| 22 | 1.14 | |
| 23 | 1.27 | |
| 24 | 1.27 | |
| 25 | 1.02 | |
| 26 | 1.24 | |
| SPM1 # 22 | 1.11 | 1ml #1,2,&3 |
| SPM2 # 22 | ~~1.30~~ 1.11 | 1ml #1,2,&3 |
| 30 | 1.13 | |
| 31 | 1.07 | |

Signed 6/10/98 Date Read & Understood By 6/11/98 Date

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# QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY SAMPLE PREP

Book # 44 Pg. # 38

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| TBRKSI * 32 | 1.36 | |
| 33 | 1.01 | |
| 34 | 1.21 | |
| SP 35 | 1.28 | |
| SPM1 * 35 | 1.19 | 1ml # 1,2&3 |
| SPM2 * 35 | 1.19 | 1ml # 1,2&3 |
| 36 | 1.17 | |
| 37 | 1.21 | |
| 6/10/98 38 | 1.16 | |
| ~~50~~ 53 | 1.09 | |
| WI ~~50~~ 54 | 1.12 | |
| 55 | 1.07 | |
| SPM1 * 55 | 1.10 | 1ml # 1,2&3 |
| SPM2 * 55 | 1.16 | 1ml # 1,2,3 |
| 56 | 1.21 | |
| 57 | 1.55 | |
| 58 | 1.09 | |
| 59 | 1.12 | |
| 60 | 1.05 | |
| 61 | 1.16 | |
| 62 | 1.13 | |
| 63 | 1.05 | |
| 64 | 1.10 | |
| 65 | 1.09 | |
| | | |
| | | |
| | | |
| | | |

Comments:

Signed [signature] Date 6/10/98 Read & Understood By [signature] Date 6/11/98

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**MV LABORATORIES INC.** P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 10-21-97
**MULTI-ELEMENT STANDARD :** ICAP CLP/FDER
**LOT NO:** P1097A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Al | 200 | Dy | | Li | 100 | Pr | | Te | |
| Sb | | Er | | Lu | | Re | | Tb | |
| As | | Eu | | Mg | 1000 | Rh | | Tl | |
| Ba | 200 | Gd | | Mn | 50 | Rb | | Th | |
| Be | 5 | Ga | | Hg | | Ru | | Tm | |
| Bi | | Ge | | Mo | 50 | Sm | | Sn | 100 |
| B | 100 | Au | | Nd | | Sc | | Ti | 100 |
| Cd | | Hf | | Ni | 50 | Se | | W | |
| Ca | 1000 | Ho | | Nb | | Si | | U | |
| Ce | | In | | Os | | Ag | | V | 50 |
| Cs | | Ir | | Pd | | Na | 1000 | Yb | |
| Cr | 20 | Fe | 100 | P | | Sr | 50 | Y | |
| Co | 50 | La | | Pt | | S | | Zn | 50 |
| Cu | 25 | Pb | | K | 1000 | Ta | | Zr | 100 |

**MATRIX:** 5% $HNO_3$ tr.HF
**EXPIRATION DATE:** 10-21-98

received
OCT 27 1997

**MV LABORATORIES INC.** P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 10-21-97
**MULTI-ELEMENT STANDARD** : ICAP CLP/FDER-Ag
**LOT NO:** P1097A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm

| | | | | |
|---|---|---|---|---|
| Al | Dy | Li | Pr | Te |
| Sb | Er | Lu | Re | Tb |
| As | Eu | Mg | Rh | Tl |
| Ba | Gd | Mn | Rb | Th |
| Be | Ga | Hg | Ru | Tm |
| Bi | Ge | Mo | Sm | Sn |
| B | Au | Nd | Sc | Ti |
| Cd | Hf | Ni | Se | W |
| Ca | Ho | Nb | Si | U |
| Ce | In | Os | Ag | V |
| Cs | Ir | Pd | Na | Yb |
| Cr | Fe | P | Sr | Y |
| Co | La | Pt | S | Zn |
| Cu | Pb | K | Ta | Zr |

**MATRIX:** 5% $HNO_3$ tr.HF
**EXPIRATION DATE:** 10-21-98

received
OCT 27 1997

MV LABORATORIES INC. P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 11-26-97
**MULTI-ELEMENT STANDARD** : 3.0 SPIKE
**LOT NO:** P1197A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Al | | Dy | | Li | | Pr | | Te | |
| Sb | 50 | Er | | Lu | | Re | | Tb | |
| As | 200 | Eu | | Mg | | Rh | | Tl | 200 |
| Ba | | Gd | | Mn | | Rb | | Th | |
| Be | | Ga | | Hg | | Ru | | Tm | |
| Bi | | Ge | | Mo | | Sm | | Sn | |
| B | | Au | | Nd | | Sc | | Ti | |
| Cd | 5 | Hf | | Ni | | Se | 200 | W | |
| Ca | | Ho | | Nb | | Si | | U | |
| Ce | | In | | Os | | Ag | | V | |
| Cs | | Ir | | Pd | | Na | | Yb | |
| Cr | | Fe | | P | | Sr | | Y | |
| Co | | La | | Pt | | S | | Zn | |
| Cu | | Pb | 50 | K | | Ta | | Zr | |

**MATRIX:** 5% $HNO_3$
**EXPIRATION DATE:** 11-26-98

ENVIRONMENTAL RESOURCE ASSOCIATES
ARVADA, COLORADO 1-800-372-0122

# Certification

## PriorityPollutnT™/CLP Inorganic Soils — Quality Control Standards

Catalog No. PPS-46 — Lot No. 237

| Parameter | Certified Value | Performance Acceptance Limits™ |
|---|---|---|
| **TRACE METALS PriorityPollutnT™ (Catalog No 540)** | mg/Kg | mg/Kg |
| aluminum | 5380 | 3150 - 7610 |
| antimony | 34.4 | D.L. - 100 |
| arsenic | 60.2 | 44.8 - 75.6 |
| barium | 83.4 | 64.3 - 103 |
| beryllium | 45.2 | 35.4 - 54.9 |
| boron | 73.0 | 52.5 - 93.4 |
| cadmium | 52.4 | 40.3 - 64.5 |
| calcium | 1680 | 1260 - 2100 |
| chromium | 88.2 | 70.5 - 106 |
| cobalt | 46.9 | 37.3 - 56.5 |
| copper | 108 | 88.4 - 127 |
| iron | 7760 | 2890 - 12600 |
| lead | 75.1 | 57.2 - 93.0 |
| magnesium | 1360 | 1040 - 1680 |
| manganese | 127 | 101 - 154 |
| mercury | 3.18 | 1.86 - 4.51 |
| molybdenum | 75.3 | 50.0 - 101 |
| nickel | 55.9 | 43.7 - 68.0 |
| potassium | 2000 | 1300 - 2700 |
| selenium | 51.5 | 33.6 - 69.3 |
| silver | 70.6 | 52.6 - 88.7 |
| sodium | 837 | 568 - 1110 |
| strontium | 73.2 | 53.1 - 93.3 |
| thallium | 44.1 | 25.3 - 63.0 |
| tin | 80.0 | 55.9 - 104 |
| titanium | 210 | 89.6 - 331 |
| vanadium | 52.5 | 35.8 - 69.1 |
| zinc | 87.8 | 67.9 - 108 |
| **CYANIDE PriorityPollutnT™ (Catalog No 541)** | mg/Kg | mg/Kg |
| total cyanide | 177 | 97.1 - 258 |

The *Trace Metals Certified Values* are equal to the mean recoveries for each parameter as determined in an interlaboratory round robin study. The standard was digested using various EPA methods such as Method 3050, 3051, etc. and the digest analyzed by ICP and atomic absorption spectroscopy.

The *Cyanide Certified Value* is equal to the mean recovery as determined in an interlaboratory round robin study. The standard was distilled and analyzed following the procedure outlined in Method 9010, SW-846.

The *Performance Acceptance Limits (PALs™)* are listed as guidelines for acceptable analytical results given the limitations of the USEPA methodologies commonly used to determine these parameters and closely approximate the 95% confidence interval. The PALs™ are based on data generated by your peer laboratories in ERA's InterLaB™ programs. If your result falls outside of the PALs™, ERA recommends that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

For users of internal standards, ERA has determined that scandium is present in this soil at 2.2 mg/Kg and that yttrium is present at 17 mg/Kg.

PriorityPollutnT™/CLP Inorganic Soils Lot No. 237

# ICAP STANDARDS, CCV Solution

Notebook: 2 Page: 276

**Standard 2**

| Element | Lot Number | Stock Conc. (ppm) | Std Conc. (ppm) | CCV Conc. (ppm) |
|---|---|---|---|---|
| As | P1197A | 100 | 1.0 | 0.5 |
| Ba | P1197A | 100 | 1.0 | 0.5 |
| Be | P1197A | 100 | 1.0 | 0.5 |
| Cd | P1197A | 100 | 1.0 | 0.5 |
| Co | P1197A | 100 | 1.0 | 0.5 |
| Cr | P1197A | 100 | 1.0 | 0.5 |
| Cu | P1197A | 100 | 1.0 | 0.5 |
| Mn | P1197A | 100 | 1.0 | 0.5 |
| Ni | P1197A | 100 | 1.0 | 0.5 |
| Pb | P1197A | 100 | 1.0 | 0.5 |
| Sb | P1197A | 100 | 1.0 | 0.5 |
| Se | P1197A | 100 | 1.0 | 0.5 |
| Tl | P1197A | 100 | 1.0 | 0.5 |
| V | P1197A | 100 | 1.0 | 0.5 |
| Zn | P1197A | 100 | 1.0 | 0.5 |

**Standard 3**

| | | | | |
|---|---|---|---|---|
| Al | P1197A | 1000 | 10.0 | 5.0 |
| Ca | P1197A | 1000 | 10.0 | 5.0 |
| Fe | P1197A | 1000 | 10.0 | 5.0 |
| Mg | P1197A | 1000 | 10.0 | 5.0 |
| Na | P1197A | 1000 | 10.0 | 5.0 |
| Na | 731501 | 10000 | * | * |
| K | P1197A | 1000 | 10.0 | 5.0 |
| K | 731425 | 10000 | ** | ** |

**Standard 4**

| | | | | |
|---|---|---|---|---|
| Ag | 803024 | 1000 | 1.0 | 0.5 |

**Standard 5**

| | | | | |
|---|---|---|---|---|
| B | P1197A | 100 | 1.0 | 0.5 |
| Li | P1197A | 100 | 1.0 | 0.5 |
| Mo | P1197A | 100 | 1.0 | 0.5 |
| P | P1197A | 100 | 1.0 | 0.5 |
| Sr | P1197A | 100 | 1.0 | 0.5 |
| Sn | P1197A | 100 | 1.0 | 0.5 |
| Ti | P1197A | 100 | 1.0 | 0.5 |

MV LABS standards expire 10/98. Each standard is made by adding 10 mls of stock solution to 1000 ml final volume using a volumetric pipette with 5% (v/v) HNO3/HCl in TYPE I water. CCV solution combines all stock solutions at half the standard concentrations.

* Standard 3 is supplemented with 9mL of Na 10,000 ppm stock for the JA-Trace, bringing the final concentration to 100ppm. (High Purity, Exp. 2/99)

** Standard 3 is supplemented with 9mL of K 10,000 ppm stock for the JA61, bringing the final concentration to 100 ppm. (High Purity, Exp. 2/99)

Solutions are good for 33 days.

| | Prepared by: | Date: | Expires: | Verified by : | Date: |
|---|---|---|---|---|---|
| (1) | [illegible] | 6/15/98 | 7/12/98 | Kent Brakefield | 6/15/98 |
| (2) | | | | | |
| (3) | | | | | |
| (4) | | | | | |
| (5) | | | | | |
| (6) | | | | | |

## ICAP ICV QCS26 SOLUTION

Notebook: 2 Page: 247

| Element | Stock Conc. (ppm) | Target Conc. (ppm) |
|---|---|---|
| Ag | 100 | 1.0 |
| Al | 100 | 1.0 |
| As | 100 | 1.0 |
| Ba | 100 | 1.0 |
| Be | 100 | 1.0 |
| B | 100 | 1.0 |
| Cd | 100 | 1.0 |
| Ca | 100 | 1.0 |
| Cr | 100 | 1.0 |
| Co | 100 | 1.0 |
| Cu | 100 | 1.0 |
| Fe | 100 | 1.0 |
| K | 1000 | 10.0 |
| Mn | 100 | 1.0 |
| Mg | 100 | 1.0 |
| Mo | 100 | 1.0 |
| Ni | 100 | 1.0 |
| Pb | 100 | 1.0 |
| Na | 100 | 1.0 |
| Sb | 100 | 1.0 |
| Se | 100 | 1.0 |
| Sn | 100 | 1.0 |
| Tl | 100 | 1.0 |
| Ti | 100 | 1.0 |
| V | 100 | 1.0 |
| Zn | 100 | 1.0 |

**High Purity QCS26** (Lot: 725305 / Expires: 11/98)

ICV QCS26 Solution is prepared by adding 10mL of stock solution to a final volume of 1000mL TYPE I water and a final acid concentration of 5%(v/v) $HNO_3$ and 5% (v/v) HCl using a Class "A" volumetric pipette.
Solution is stored at room temperature and is good for 33 days.

| | Prepared by: | Date: | Expires: | Verified by : | Date: |
|---|---|---|---|---|---|
| (1) | [signature] | 10/27/97 | 11/29/97 | Kent Brakefield | 10-27-97 |
| (2) | [signature] | 11/28/97 | 12/31/97 | David V. Tichet | 11-28-97 |
| (3) | [signature] | 12/24/97 | 1/27/98 | [signature] | 12/24/97 |
| (4) | [signature] | 1/27/98 | 3/1/98 | Kent Brakefield | 1/27/98 |
| (5) | [signature] | 3/2/98 | 4/4/98 | [signature] | 3/2/98 |
| (6) | [signature] | 4/6/98 | 5/8/98 | [signature] | 4/6/98 |
| (7) | [signature] | 5/11/98 | 6/12/98 | Kent Brakefield | 5/11/98 |
| (8) | [signature] | 6/15/98 | 9/18/98 | Kent Brakefield | 6/15/98 |
| (9) | | | | | |
| (10) | | | | | |
| (11) | | | | | |

## ICAP - ICS SOLUTIONS

Notebook: 2 Page: 277

**ICS A** (2:277-1)

| Element | Manufacturer | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppm) |
|---|---|---|---|---|---|---|
| Al | High Purity | 721904 | 11/98 | 10000 | 25 | 500 |
| Ca | High Purity | 725801 | 11/98 | 10000 | 25 | 500 |
| Mg | High Purity | 719210 | 11/98 | 10000 | 25 | 500 |
| Fe | High Purity | 718905 | 11/98 | 10000 | 10 | 200 |

**ICS AB** (2:277-2)

ICS AB Solution is prepared like the ICS A Solution with the addition of 5mL of the High Purity "CLP Analyte Standard II" solution and the following anaytes.

| Element | Manufacturer | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppm) |
|---|---|---|---|---|---|---|
| As | High Purity | 803718 | 4/99 | 1000 | 0.5 | 1.0 |
| Sb | MV Labs | SBP11 | 10/98 | 1000 | 0.5 | 1.0 |
| Se | High Purity | 804416 | 4/99 | 1000 | 0.5 | 1.0 |
| Tl | High Purity | 800823 | 4/99 | 1000 | 0.5 | 1.0 |
| B | MV Labs | BP1K | 10/98 | 1000 | 0.25 | 0.5 |

"CLP Analyte Standard II" contains: 50ppm - Ba,Be,Co,Cr,Cu,Mn,V
(Lot # 726204, Expires: 04/99) 100ppm - Cd,Pb,Ag,Ni,Zn

**ICS AB-T** (2:277-3)

ICS AB-T Solution is prepared like the ICS A Solution with the addition of 5mL of the High Purity "CLP Analyte Standard II Trace" solution.

"CLP Analyte Standard II-Trace" contains:
(Lot: 705605, Expires: 11/98)

5ppm - Pb,Se
10ppm - As,Tl
20ppm - Ag
50ppm - Ba,Be,Cr,Co,Cu,Mn
60ppm - Sb
100ppm - Cd,Ni,Zn

Pipettes used: Rainin #F701408; 5,10, & 25mL Class "A" Volumetrics

ICS Solutions made to a final acid concentration of 5%(v/v) $HNO_3$ and 5%(v/v) HCl, and to a final volume of 500 mL in TYPE I water.

These solutions expire: 7/18/98 (Good for 33 days).

Stored at room temperature.

Prepared by: [signature] Date: 6/15/98 Read and understood by: [signature] Date: 6/15/98

ICAP Metals - Batch G91184

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91184 Matrix: WATER

Analysis: G91184 = EPA 6010

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| ICV1 | ICV*QC26*1 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1535 |
| ICS1 | ICS*A*1 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1538 |
| ICS2 | ICS*AB*1 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1540 |
| ICB1 | ICB*QC*1 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1543 |
| SP1 | SP*QC*1 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1547 |
| SW-001 | TBRKW1*1 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1552 |
| SW-001MS | SPM1*TBRKW1*1 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1554 |
| SW-001MSD | SPM2*TBRKW1*1 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1558 |
| SW-101 | TBRKW1*2 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1600 |
| SW-002 | TBRKW1*3 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1601 |
| SW-003 | TBRKW1*4 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1603 |
| SW-008 | TBRKW1*5 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1608 |
| SW-006 | TBRKW1*6 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1610 |
| SD-306 | TBRKW1*7 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1611 |
| SW-007 | TBRKW1*8 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1613 |
| SL-301 | TBRKW1*9 | G91184 | 05/29/98 | 06/02/98 | 06/16/98 | 1616 |
| SL-311 | TBRKW1*10 | G91184 | 05/29/98 | 06/02/98 | 06/16/98 | 1618 |
| SS-301 | TBRKW1*11 | G91184 | 05/29/98 | 06/02/98 | 06/16/98 | 1619 |
| SW-004 | TBRKW1*12 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1620 |
| SW-005 | TBRKW1*13 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1622 |
| SS-311 | TBRKW1*14 | G91184 | 05/29/98 | 06/02/98 | 06/16/98 | 1623 |
| SW-001L | SD*TBRKW1*1 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1631 |
| SW-001A | SPX*TBRKW1*1 | G91184 | 05/28/98 | 06/02/98 | 06/16/98 | 1636 |
| ICS3 | ICS*A*2 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1643 |
| ICS4 | ICS*AB*2 | G91184 | 00/00/00 | 00/00/00 | 06/16/98 | 1645 |

Comments:
All SDG: G91184-1 Sample List: TL.7

Batch Narrative - G91184 Analysis: EPA 6010

Updated by 1522, 1522, 1522, 1522

PROBLEM:

Standard matrix spike not within acceptance criteria:

AG

EXPLANATION: RECOVERY HIGH DUE TO POSSIBLE SPIKING ERROR. SEPARATE SOLUTION. RECOVERY OUTSIDE OF HISTORICAL @ 116.2%.

FOR JULIE FOSONO

Analyst _____ DATE 6/19/98

Reviewer _____ DATE 6/19/98

# Sample Data

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*1

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1552 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 83.0 | |
| 7440-43-9 | CADMIUM | 12.4 | |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-101

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*2

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1600 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 84.9 | |
| 7440-43-9 | CADMIUM | 7.4 | |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-002

Lab Name: QST  Project No.: 1298522V  SDG No.: G91184

Matrix: (soil/water) WATER  Lab Sample ID: TBRKW1*3

Sample wt/vol: .  Lab File ID: G91184

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1601  Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 78.3 | |
| 7440-43-9 | CADMIUM | 9.9 | |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-003

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*4

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1603 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 83.8 | |
| 7440-43-9 | CADMIUM | 9.4 | |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-008

Lab Name: QST  Project No.: 1298522V  SDG No.: G91184

Matrix: (soil/water) WATER  Lab Sample ID: TBRKW1*5

Sample wt/vol: .  Lab File ID: G91184

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1608  Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 494. | |
| 7440-43-9 | CADMIUM | 19.7 | |
| 7440-47-3 | CHROMIUM | 82.8 | |
| 7439-92-1 | LEAD,TOTAL | 4350. | |
| 7782-49-2 | SELENIUM,TOTAL | 284. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-006

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*6

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1610 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 45.1 | |
| 7440-38-2 | ARSENIC,TOTAL | 153. | |
| 7440-39-3 | BARIUM,TOTAL | 2150. | |
| 7440-43-9 | CADMIUM | 352. | |
| 7440-47-3 | CHROMIUM | 104. | |
| 7439-92-1 | LEAD,TOTAL | 14600. | |
| 7782-49-2 | SELENIUM,TOTAL | 107. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-306

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*7

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1611 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-007

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*8

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1613 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 76.8 | |
| 7440-43-9 | CADMIUM | 405. | |
| 7440-47-3 | CHROMIUM | 12.9 | |
| 7439-92-1 | LEAD,TOTAL | 9040. | |
| 7782-49-2 | SELENIUM,TOTAL | 348. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SL-301

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*9

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1616 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SL-311

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*10

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1618 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-301

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*11

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1619 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-004

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*12

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1620 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 16.5 | |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 1110. | |
| 7440-43-9 | CADMIUM | 467. | |
| 7440-47-3 | CHROMIUM | 52.1 | |
| 7439-92-1 | LEAD,TOTAL | 12500. | |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-005

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*13

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1622 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 154. | |
| 7440-43-9 | CADMIUM | 54.2 | |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 481. | |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-311

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*14

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1623 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

# QC Data

Client ID

SW-001MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91184

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| SILVER | 50.0 | 0.0 | 57.6 | 115.2 | 70-116 |
| ARSENIC, TOTAL | 2000 | 0.0 | 1790 | 89.5 | 49-141 |
| BARIUM, TOTAL | 2000 | 83.0 | 2120 | 102.0 | 75-115 |
| CADMIUM | 50.0 | 12.4 | 62.6 | 100.4 | 54-130 |
| CHROMIUM | 200 | 0.0 | 205 | 102.5 | 58-126 |
| LEAD, TOTAL | 500 | 0.0 | 502 | 100.4 | 63-121 |
| SELENIUM, TOTAL | 2000 | 0.0 | 1920 | 96.0 | 71-133 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| SILVER | 50.0 | 54.9 | 109.8 | 4.8 | 23 | 70-116 |
| ARSENIC, TOTAL | 2000 | 1800 | 90.0 | 0.6 | 46 | 49-141 |
| BARIUM, TOTAL | 2000 | 2150 | 103.5 | 1.5 | 20 | 75-115 |
| CADMIUM | 50.0 | 64.2 | 103.6 | 3.1 | 38 | 54-130 |
| CHROMIUM | 200 | 206 | 103.0 | 0.5 | 34 | 58-126 |
| LEAD, TOTAL | 500 | 508 | 101.6 | 1.2 | 29 | 63-121 |
| SELENIUM, TOTAL | 2000 | 1950 | 97.5 | 1.6 | 31 | 71-133 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 7 outside limits
Spike Recovery: 0 out of 14 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001MS

Lab Name: QST  Project No.: 1298522V  SDG No.: G91184

Matrix: (soil/water) WATER  Lab Sample ID: SPM1*TBRKW1*1

Sample wt/vol: .  Lab File ID: G91184

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 06/02/98

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1554  Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 57.6 | |
| 7440-38-2 | ARSENIC,TOTAL | 1790. | |
| 7440-39-3 | BARIUM,TOTAL | 2120. | |
| 7440-43-9 | CADMIUM | 62.6 | |
| 7440-47-3 | CHROMIUM | 205. | |
| 7439-92-1 | LEAD,TOTAL | 502. | |
| 7782-49-2 | SELENIUM,TOTAL | 1920. | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: SPM2*TBRKW1*1

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1558 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 54.9 | |
| 7440-38-2 | ARSENIC,TOTAL | 1800. | |
| 7440-39-3 | BARIUM,TOTAL | 2150. | |
| 7440-43-9 | CADMIUM | 64.2 | |
| 7440-47-3 | CHROMIUM | 206. | |
| 7439-92-1 | LEAD,TOTAL | 508. | |
| 7782-49-2 | SELENIUM,TOTAL | 1950. | |

Client ID

BLK1

# QST METHOD BLANK SUMMARY

Lab Name: QST | Project No: 1298522V | SDG No.: G91184

Lab Sample ID: MB*QC*1 | Lab File ID: G91184

Matrix: WATER | Instrument ID: JA61

Date Analyzed: 06/16/98 | Date Extracted: 06/10/98

Time Analysed: 1545

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| SW-001 | TBRKW1*1 | 06/16/98 |
| SW-001MS | SPM1*TBRKW1*1 | 06/16/98 |
| SW-001MSD | SPM2*TBRKW1*1 | 06/16/98 |
| SW-101 | TBRKW1*2 | 06/16/98 |
| SW-002 | TBRKW1*3 | 06/16/98 |
| SW-003 | TBRKW1*4 | 06/16/98 |
| SW-008 | TBRKW1*5 | 06/16/98 |
| SW-006 | TBRKW1*6 | 06/16/98 |
| SD-306 | TBRKW1*7 | 06/16/98 |
| SW-007 | TBRKW1*8 | 06/16/98 |
| SL-301 | TBRKW1*9 | 06/16/98 |
| SL-311 | TBRKW1*10 | 06/16/98 |
| SS-301 | TBRKW1*11 | 06/16/98 |
| SW-004 | TBRKW1*12 | 06/16/98 |
| SW-005 | TBRKW1*13 | 06/16/98 |
| SS-311 | TBRKW1*14 | 06/16/98 |

COMMENTS:

FORM 1
ANALYSIS DATA SHEET

Client ID

BLK1

Lab Name: QST Project No.: 1298522V SDG No.: G91184

Matrix: (soil/water) WATER Lab Sample ID: MB*QC*1

Sample wt/vol: . Lab File ID: G91184

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 00/00/00

Injection Volume: 1 Date Extracted: 06/10/98

Time Analyzed: 1545 Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 5.0 | U |
| 7440-38-2 | ARSENIC,TOTAL | 100. | U |
| 7440-39-3 | BARIUM,TOTAL | 20.0 | U |
| 7440-43-9 | CADMIUM | 5.0 | U |
| 7440-47-3 | CHROMIUM | 10.0 | U |
| 7439-92-1 | LEAD,TOTAL | 50.0 | U |
| 7782-49-2 | SELENIUM,TOTAL | 100. | U |

Client ID

SP1

REFERENCE STANDARD

Lab Name: QST

SDG No: G91184

Lab Sample ID: SP*QC*1

Date Analyzed: 06/16/98

Instrument ID: JA61

| Analyte | True (UG/L) | Found (UG/L) | # | %Recv | Limits % |
|---|---|---|---|---|---|
| SILVER | 50.0 | 58.1 | * | 116.2 | 73-107 |
| ARSENIC,TOTAL | 2000. | 1680. | | 84.0 | 72-120 |
| BARIUM,TOTAL | 2000. | 2040. | | 102.0 | 86-106 |
| CADMIUM | 50.0 | 48.1 | | 96.2 | 84-112 |
| CHROMIUM | 200. | 201. | | 100.5 | 79-109 |
| LEAD,TOTAL | 500. | 471. | | 94.2 | 79-109 |
| SELENIUM,TOTAL | 2000. | 1880. | | 94.0 | 79-109 |

# Column to be used to flag recovery outside of QC limits
* Values outside of QC limits

Comments:

FORM V QST

FORM 1
ANALYSIS DATA SHEET

Client ID

SP1

Lab Name: QST  Project No.: 1298522V  SDG No.: G91184

Matrix: (soil/water) WATER  Lab Sample ID: SP*QC*1

Sample wt/vol: .  Lab File ID: G91184

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 00/00/00

Injection Volume: 1  Date Extracted: 06/10/98

Time Analyzed: 1547  Date Analyzed: 06/16/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7440-22-4 | SILVER | 58.1 | |
| 7440-38-2 | ARSENIC,TOTAL | 1680. | |
| 7440-39-3 | BARIUM,TOTAL | 2040. | |
| 7440-43-9 | CADMIUM | 48.1 | |
| 7440-47-3 | CHROMIUM | 201. | |
| 7439-92-1 | LEAD,TOTAL | 471. | |
| 7782-49-2 | SELENIUM,TOTAL | 1880. | |

Client ID

ICB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91184

Lab Sample ID: ICB*QC*1 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -1.0 | J | 5.0 |
| AS | 3.3 | J | 100 |
| BA | 1.1 | J | 20.0 |
| CD | 0.4 | J | 5.0 |
| CR | 1.5 | J | 10.0 |
| PB | 2.3 | J | 50.0 |
| SE | 2.3 | J | 100 |



FORM VII QST

Client ID

CCB1

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91184

Lab Sample ID: CCB*QC*1 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 0.7 | J | 5.0 |
| AS | 9.2 | J | 100 |
| BA | 0.2 | J | 20.0 |
| CD | -1.3 | J | 5.0 |
| CR | 0.8 | J | 10.0 |
| PB | -3.4 | J | 50.0 |
| SE | 6.6 | J | 100 |



FORM VII QST

Client ID

CCB2

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91184

Lab Sample ID: CCB*QC*2 Instrument ID:

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | -.7 | | |
| AS | 9.8 | | |
| BA | 0.6 | | |
| CD | -2.1 | | |
| CR | 0.3 | | |
| PB | -4.0 | | |
| SE | 27.4 | | |



FORM VII QST

Client ID

CCB3

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91184

Lab Sample ID: CCB*QC*3 Instrument ID: JA61

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| AG | 1.7 | J | 5.0 |
| AS | -5.8 | J | 100 |
| BA | 0.4 | J | 20.0 |
| CD | 0.03 | J | 5.0 |
| CR | -.3 | J | 10.0 |
| PB | -1.1 | J | 50.0 |
| SE | 3.1 | J | 100 |



FORM VII QST

Client ID

ICV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91184

Lab Sample ID: ICV*QC26*1  Date Analyzed: 06/16/98

Instrument ID: JA61  Time Analyzed: 1535

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 1020. | 1000. | | 2.0 |
| AS | | | | 973. | 1000. | | 2.7 |
| BA | | | | 994. | 1000. | | 0.6 |
| CD | | | | 991. | 1000. | | 0.9 |
| CR | | | | 1000. | 1000. | | 0.0 |
| PB | | | | 997. | 1000. | | 0.3 |
| SE | | | | 1030. | 1000. | | 3.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91184

Lab Sample ID: CCV*QC*1  Date Analyzed: 06/16/98

Instrument ID: JA61  Time Analyzed: 1604

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 515. | 500. | | 3.0 |
| AS | | | | 492. | 500. | | 1.6 |
| BA | | | | 507. | 500. | | 1.4 |
| CD | | | | 509. | 500. | | 1.8 |
| CR | | | | 504. | 500. | | 0.8 |
| PB | | | | 510. | 500. | | 2.0 |
| SE | | | | 521. | 500. | | 4.2 |

QC LIMITS:



FORM VIII QST

Client ID

CCV2

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91184

Lab Sample ID: CCV*QC*2  Date Analyzed: 06/16/98

Instrument ID: JA61  Time Analyzed: 1625

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 525. | 500. | | 5.0 |
| AS | | | | 505. | 500. | | 1.0 |
| BA | | | | 515. | 500. | | 3.0 |
| CD | | | | 518. | 500. | | 3.6 |
| CR | | | | 511. | 500. | | 2.2 |
| PB | | | | 515. | 500. | | 3.0 |
| SE | | | | 546. | 500. | | 9.2 |

QC LIMITS:



FORM VIII QST

Client ID

CCV3

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91184

Lab Sample ID: CCV*QC*3  Date Analyzed: 06/16/98

Instrument ID: JA61  Time Analyzed: 1646

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| AG | | | | 526. | 500. | | 5.2 |
| AS | | | | 522. | 500. | | 4.4 |
| BA | | | | 516. | 500. | | 3.2 |
| CD | | | | 516. | 500. | | 3.2 |
| CR | | | | 516. | 500. | | 3.2 |
| PB | | | | 512. | 500. | | 2.4 |
| SE | | | | 546. | 500. | | 9.2 |

QC LIMITS:



FORM VIII QST

**Raw Data**

**JA 61 ICAP Instrument Log**
**QST Environmental**

Analyst: Julie Hacons Date: 6/16/98

| | PROFILING | | OPTIMIZATION |
|---|---|---|---|
| | Initial | Final | |
| Temperature: | 76°F | | Cu/Mn 1 = |
| Humidity: | 75% | | Coolant flow (LPM): 15.0 |
| Entr. Slit: | 773 | | Coolant mass flow: 15.0 |
| Ele.: | Cd | | Nebulizer flow (LPM): 0.75 |
| Element File Used: | TCLP | | Nebulizer mass flow: 0.54 |
| | | | Forward power: 1.1 Kw |
| | | | Reflected power: ~6 W |
| File Name: | JW 616 | | Peristaltic pump: 850 |
| | | | Viewing height 15 mm above coil |
| | | | Y tongue 0 mm above torch |
| Method No.: | 6010B | | |
| | | | |
| | | | |
| | | | |

Maintenance/Comments:

Samples Analyzed: TCLP W1 + 1-14

Read & Understood By: Kent Brakefield

f:\admin\common\forms\1233\ja61icap.log BOOK # 1576 PAGE #

Analysis Report Summary Tue 06-16-98 05:17:33 PM page 1

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 1 | ICV*QC26*1 | JUL615 | TCLP | 06/16/98 | 15:35 | JMF | S | CONC |
| 2 | ICS-A*QC*1 | JUL615 | TCLP | 06/16/98 | 15:38 | JMF | S | CONC |
| 3 | ICS-AB*QC*1 | JUL615 | TCLP | 06/16/98 | 15:40 | JMF | S | CONC |
| 4 | ICB*QC*1 | JUL615 | TCLP | 06/16/98 | 15:43 | JMF | S | CONC |
| 5 | MB*QC*1 | JUL615 | TCLP | 06/16/98 | 15:45 | JMF | S | CONC |
| 6 | LCS*QC*1 | JUL615 | TCLP | 06/16/98 | 15:47 | JMF | S | CONC |
| 7 | TBRKW1*1 | JUL615 | TCLP | 06/16/98 | 15:52 | JMF | S | CONC |
| 8 | SPM1*TBRKW1*1 | JUL615 | TCLP | 06/16/98 | 15:54 | JMF | S | CONC |
| 9 | SPM2*TBRKW1*1 | JUL615 | TCLP | 06/16/98 | 15:58 | JMF | S | CONC |
| 10 | TBRKW1*2 | JUL615 | TCLP | 06/16/98 | 16:00 | JMF | S | CONC |
| 11 | TBRKW1*3 | JUL615 | TCLP | 06/16/98 | 16:01 | JMF | S | CONC |
| 12 | TBRKW1*4 | JUL615 | TCLP | 06/16/98 | 16:03 | JMF | S | CONC |
| 13 | CCV*QC*1 | JUL615 | TCLP | 06/16/98 | 16:04 | JMF | S | CONC |
| 14 | CCB*QC*1 | JUL615 | TCLP | 06/16/98 | 16:06 | JMF | S | CONC |
| 15 | TBRKW1*5 | JUL615 | TCLP | 06/16/98 | 16:08 | JMF | S | CONC |
| 16 | TBRKW1*6 | JUL615 | TCLP | 06/16/98 | 16:10 | JMF | S | CONC |
| 17 | TBRKW1*7 | JUL615 | TCLP | 06/16/98 | 16:11 | JMF | S | CONC |
| 18 | TBRKW1*8 | JUL615 | TCLP | 06/16/98 | 16:13 | JMF | S | CONC |
| 19 | TBRKW1*9 | JUL615 | TCLP | 06/16/98 | 16:16 | JMF | S | CONC |
| 20 | TBRKW1*10 | JUL615 | TCLP | 06/16/98 | 16:18 | JMF | S | CONC |
| 21 | TBRKW1*11 | JUL615 | TCLP | 06/16/98 | 16:19 | JMF | S | CONC |
| 22 | TBRKW1*12 | JUL615 | TCLP | 06/16/98 | 16:20 | JMF | S | CONC |
| 23 | TBRKW1*13 | JUL615 | TCLP | 06/16/98 | 16:22 | JMF | S | CONC |
| 24 | TBRKW1*14 | JUL615 | TCLP | 06/16/98 | 16:23 | JMF | S | CONC |
| 25 | CCV*QC*2 | JUL615 | TCLP | 06/16/98 | 16:25 | JMF | S | CONC |
| 26 | CCB*QC*3 | JUL615 | TCLP | 06/16/98 | 16:29 | JMF | S | CONC |
| 27 | SD*TBRKW1*1 1:5 | JUL615 | TCLP | 06/16/98 | 16:31 | JMF | S | CONC |
| 28 | SPX*TBRKW1*1 | JUL615 | TCLP | 06/16/98 | 16:36 | JMF | S | CONC |
| 29 | ICS*A*2 | JUL615 | TCLP | 06/16/98 | 16:43 | JMF | S | CONC |
| 30 | ICS*AB*2 | JUL615 | TCLP | 06/16/98 | 16:45 | JMF | S | CONC |
| 31 | CCV*QC*3 | JUL615 | TCLP | 06/16/98 | 16:46 | JMF | S | CONC |
| 32 | CCB*QC*3 | JUL615 | TCLP | 06/16/98 | 16:52 | JMF | S | CONC |

QST- ICAP (JA61)

Julie M Lasaro

6/16/98

Method: TCLP Standard: STD1-Blank

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Avge | .0023 | .0403 | -.0042 | -.0001 | .0012 | .0003 | .0001 |
| SDev | .0001 | .0013 | .0020 | .0001 | .0000 | .0001 | .0001 |
| %RSD | 6.149 | 3.158 | 47.14 | 141.4 | .0000 | 47.14 | 141.4 |
| #1 | .0022 | .0412 | -.0028 | -.0002 | .0012 | .0004 | .0000 |
| #2 | .0024 | .0394 | -.0056 | .0000 | .0012 | .0002 | .0002 |

| Elem | Cr2677 | Cu3247 | Fe | Fe | Mg2790 | Mn2576 | Mo2020 |
|---|---|---|---|---|---|---|---|
| Avge | .0007 | .0020 | .0009 | .0026 | .0012 | .0109 | .0003 |
| SDev | .0001 | .0000 | .0018 | .0000 | .0011 | .0001 | .0001 |
| %RSD | 20.20 | .0000 | 204.3 | .0000 | 94.28 | 1.297 | 47.14 |
| #1 | .0008 | .0020 | -.0004 | .0026 | .0020 | .0110 | .0002 |
| #2 | .0006 | .0020 | .0022 | .0026 | .0004 | .0108 | .0004 |

| Elem | Ni2316 | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|
| Avge | -.0001 | .0034 | .1584 | -.0005 | -.0011 | .0016 |
| SDev | .0011 | .0003 | .0023 | .0001 | .0001 | .0003 |
| %RSD | 707.1 | 8.319 | 1.428 | 28.28 | 12.86 | 17.68 |
| #1 | -.0009 | .0036 | .1568 | -.0006 | -.0012 | .0018 |
| #2 | .0006 | .0032 | .1600 | -.0004 | -.0010 | .0014 |

---

Method: TCLP Standard: STD2

| Elem | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 | Cr2677 | Cu3247 |
|---|---|---|---|---|---|---|---|
| Avge | .2020 | .2337 | .2243 | .2425 | .2553 | .3930 | .3908 |
| SDev | .0026 | .0007 | .0007 | .0004 | .0013 | .0000 | .0008 |
| %RSD | 1.260 | .3026 | .3153 | .1750 | .4985 | .0000 | .2171 |
| #1 | .2002 | .2342 | .2248 | .2422 | .2544 | .3930 | .3914 |
| #2 | .2038 | .2332 | .2238 | .2428 | .2562 | .3930 | .3902 |

| Elem | Mn2576 | Ni2316 | Pb2203 | Se1960 | V_2924 | Zn2138 |
|---|---|---|---|---|---|---|
| Avge | .3414 | .2135 | .1781 | .3265 | .2562 | .4554 |
| SDev | .0011 | .0032 | .0004 | .0061 | .0008 | .0000 |
| %RSD | .3314 | 1.524 | .2382 | 1.863 | .3312 | .0000 |
| #1 | .3422 | .2158 | .1784 | .3308 | .2568 | .4554 |
| #2 | .3406 | .2112 | .1778 | .3222 | .2556 | .4554 |

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Method: TCLP Standard: STD3

| Elem | Al3082 | Fe | Fe | Mg2790 |
|---|---|---|---|---|
| Avge | 2.767 | .3535 | 2.433 | .4703 |
| SDev | .017 | .0078 | .025 | .0055 |
| %RSD | .6287 | 2.200 | 1.011 | 1.173 |
| #1 | 2.755 | .3480 | 2.416 | .4664 |
| #2 | 2.779 | .3590 | 2.451 | .4742 |

---

Method: TCLP Standard: STD4

| Elem | Ag3280 |
|---|---|
| Avge | .4050 |
| SDev | .0008 |
| %RSD | .2095 |
| #1 | .4044 |
| #2 | .4056 |

---

Method: TCLP Standard: STD5

| Elem | Mo2020 | Ti3349 |
|---|---|---|
| Avge | .1702 | .2639 |
| SDev | .0003 | .0004 |
| %RSD | .1662 | .1608 |
| #1 | .1700 | .2636 |
| #2 | .1704 | .2642 |

---

Method: TCLP Slope = Conc(SIR)/IR

| Element | Wavelen | High std | Low std | Slope | Y-intercept | Date Standardizec |
|---|---|---|---|---|---|---|
| Ag3280 | 328.068 | STD4 | STD1-Blank | 2.48324 | -.005711 | 06/16/98 03:29:52 |
| Al3082 | 308.215 | STD3 | STD1-Blank | 3.66757 | -.147803 | 06/16/98 03:29:52 |
| As1936 | 193.696 | STD2 | STD1-Blank | 4.84966 | .020369 | 06/16/98 03:29:52 |
| Ba4934 | 493.409 | STD2 | STD1-Blank | 4.27716 | .000428 | 06/16/98 03:29:52 |
| Be3130 | 313.042 | STD2 | STD1-Blank | 4.48230 | -.005379 | 06/16/98 03:29:52 |
| Cd2288 | 228.802 | STD2 | STD1-Blank | 4.12882 | -.001239 | 06/16/98 03:29:52 |
| Co2286 | 228.616 | STD2 | STD1-Blank | 3.91850 | -.000392 | 06/16/98 03:29:52 |
| Cr2677 | 267.716 | STD2 | STD1-Blank | 2.54907 | -.001784 | 06/16/98 03:29:52 |
| Cu3247 | 324.754 | STD2 | STD1-Blank | 2.57202 | -.005144 | 06/16/98 03:29:52 |
| Fe | 259.940 | STD3 | STD1-Blank | 4.11387 | -.010696 | 06/16/98 03:29:52 |
| Fe | 271.441 | STD3 | STD1-Blank | 28.3607 | -.025525 | 06/16/98 03:29:52 |
| Mg2790 | 279.079 | STD3 | STD1-Blank | 21.3174 | -.025581 | 06/16/98 03:29:52 |
| Mn2576 | 257.610 | STD2 | STD1-Blank | 3.02572 | -.032980 | 06/16/98 03:29:52 |
| Mo2020 | 202.030 | STD5 | STD1-Blank | 5.88582 | -.001766 | 06/16/98 03:29:52 |
| Ni2316 | 231.604 | STD2 | STD1-Blank | 4.68055 | .000702 | 06/16/98 03:29:52 |
| Pb2203 | 220.353 | STD2 | STD1-Blank | 5.72410 | -.019462 | 06/16/98 03:29:52 |
| Se1960 | 196.026 | STD2 | STD1-Blank | 5.94884 | -.942296 | 06/16/98 03:29:52 |
| Ti3349 | 334.941 | STD5 | STD1-Blank | 3.78215 | .001891 | 06/16/98 03:29:52 |
| V_2924 | 292.402 | STD2 | STD1-Blank | 3.88651 | .004275 | 06/16/98 03:29:52 |
| Zn2138 | 213.856 | STD2 | STD1-Blank | 2.20361 | -.003526 | 06/16/98 03:29:52 |

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Method: TCLP Slope = IR/Conc(SIR)

| Element | Wavelen | High std | Low std | Slope | BEC | Date Standardizec |
|---|---|---|---|---|---|---|
| Ag3280 | 328.068 | STD4 | STD1-Blank | .402700 | .005711 | 06/16/98 03:29:52 |
| Al3082 | 308.215 | STD3 | STD1-Blank | .272660 | .147803 | 06/16/98 03:29:52 |
| As1936 | 193.696 | STD2 | STD1-Blank | .206200 | .020369 | 06/16/98 03:29:52 |
| Ba4934 | 493.409 | STD2 | STD1-Blank | .233800 | .000428 | 06/16/98 03:29:52 |
| Be3130 | 313.042 | STD2 | STD1-Blank | .223100 | .005379 | 06/16/98 03:29:52 |
| Cd2288 | 228.802 | STD2 | STD1-Blank | .242200 | .001239 | 06/16/98 03:29:52 |

| Element | Wavelen | High std | Low std | Slope | BEC | Date Standardized |
|---|---|---|---|---|---|---|
| Co2286 | 228.616 | STD2 | STD1-Blank | .255200 | .000392 | 06/16/98 03:29:52 |
| Cr2677 | 267.716 | STD2 | STD1-Blank | .392300 | .001784 | 06/16/98 03:29:52 |
| Cu3247 | 324.754 | STD2 | STD1-Blank | .388800 | .005144 | 06/16/98 03:29:52 |
| Fe | 259.940 | STD3 | STD1-Blank | .243080 | .010696 | 06/16/98 03:29:52 |
| Fe | 271.441 | STD3 | STD1-Blank | .035260 | .025525 | 06/16/98 03:29:52 |
| Mg2790 | 279.079 | STD3 | STD1-Blank | .046910 | .025581 | 06/16/98 03:29:52 |
| Mn2576 | 257.610 | STD2 | STD1-Blank | .330500 | .032980 | 06/16/98 03:29:52 |
| Mo2020 | 202.030 | STD5 | STD1-Blank | .169900 | .001766 | 06/16/98 03:29:52 |
| Ni2316 | 231.604 | STD2 | STD1-Blank | .213650 | .000702 | 06/16/98 03:29:52 |
| Pb2203 | 220.353 | STD2 | STD1-Blank | .174700 | .019462 | 06/16/98 03:29:52 |
| Se1960 | 196.026 | STD2 | STD1-Blank | .168100 | .942296 | 06/16/98 03:29:52 |
| Ti3349 | 334.941 | STD5 | STD1-Blank | .264400 | .001891 | 06/16/98 03:29:52 |
| V_2924 | 292.402 | STD2 | STD1-Blank | .257300 | .004275 | 06/16/98 03:29:52 |
| Zn2138 | 213.856 | STD2 | STD1-Blank | .453800 | .003526 | 06/16/98 03:29:52 |

---

Method: TCLP Sample Name: ICV*QC26*1 Operator: JMF
Run Time: 06/16/98 15:35:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.016 | .9850 | .9731 | .9944 | 1.002 | .9911 | .9868 |
| SDev | .001 | .0072 | .0061 | .0012 | .002 | .0005 | .0055 |
| %RSD | .0691 | .7262 | .6264 | .1217 | .1895 | .0532 | .5613 |
| #1 | 1.015 | .9900 | .9774 | .9953 | 1.004 | .9914 | .9829 |
| #2 | 1.016 | .9799 | .9687 | .9936 | 1.001 | .9907 | .9907 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | 1.001 | 1.016 | .9939 | .9921 | 1.005 | 1.013 | .9858 |
| SDev | .005 | .001 | .0035 | .0121 | .002 | .002 | .0030 |
| %RSD | .4677 | .0715 | .3512 | 1.216 | .2128 | .1639 | .3019 |
| #1 | .9979 | 1.017 | .9914 | .9836 | 1.004 | 1.014 | .9837 |
| #2 | 1.005 | 1.016 | .9963 | 1.001 | 1.007 | 1.012 | .9879 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .9968 | 1.030 | 1.002 | 1.025 | .9863 |
| SDev | .0105 | .018 | .001 | .001 | .0006 |
| %RSD | 1.054 | 1.716 | .0533 | .0537 | .0641 |
| #1 | 1.004 | 1.042 | 1.002 | 1.026 | .9867 |
| #2 | .9894 | 1.017 | 1.002 | 1.025 | .9858 |

---

Method: TCLP Sample Name: ICS-A*QC*1 Operator: JMF
Run Time: 06/16/98 15:38:38
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0074 | 494.9 | -.0466 | .0107 | .0004 | -.0017 | -.0012 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0011 | 6.4 | .0625 | .0000 | .0006 | .0007 | .0018 |
| %RSD | 14.16 | 1.292 | 134.0 | .0000 | 146.0 | 40.04 | 147.5 |
| #1 | -.0067 | 490.4 | -.0024 | .0107 | -.0000 | -.0012 | .0001 |
| #2 | -.0082 | 499.4 | -.0908 | .0107 | .0009 | -.0022 | -.0024 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0013 | .0018 | 177.0 | 492.0 | .0095 | .0024 | .0016 |
| SDev | .0000 | .0033 | 1.5 | 5.5 | .0004 | .0008 | .0112 |
| %RSD | .1209 | 182.2 | .8418 | 1.124 | 4.036 | 31.96 | 686.5 |
| #1 | -.0013 | .0041 | 176.0 | 488.1 | .0092 | .0019 | .0096 |
| #2 | -.0013 | -.0005 | 178.1 | 496.0 | .0098 | .0029 | -.0063 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0230 | -.0100 | .0061 | .0035 | .0134 |
| SDev | .0331 | .0237 | .0005 | .0007 | .0009 |
| %RSD | 143.7 | 238.2 | 8.838 | 20.53 | 6.453 |
| #1 | .0464 | .0068 | .0064 | .0030 | .0140 |
| #2 | -.0004 | -.0268 | .0057 | .0041 | .0128 |

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Method: TCLP Sample Name: ICS-AB*QC*1 Operator: JMF
Run Time: 06/16/98 15:40:51
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9747 | 499.3 | .8231 | .4908 | .4738 | .9299 | .4423 |
| SDev | .0039 | 1.3 | .0139 | .0003 | .0013 | .0016 | .0016 |
| %RSD | .3969 | .2602 | 1.692 | .0616 | .2644 | .1763 | .3732 |
| #1 | .9719 | 498.4 | .8132 | .4906 | .4729 | .9288 | .4412 |
| #2 | .9774 | 500.2 | .8329 | .4910 | .4747 | .9311 | .4435 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4570 | .4794 | 178.3 | 494.3 | .4685 | -.0099 | .8660 |
| SDev | .0033 | .0058 | .0 | 1.3 | .0025 | .0050 | .0086 |
| %RSD | .7123 | 1.213 | .0212 | .2641 | .5294 | 50.37 | .9938 |
| #1 | .4547 | .4753 | 178.2 | 493.4 | .4668 | -.0135 | .8599 |
| #2 | .4593 | .4835 | 178.3 | 495.2 | .4703 | -.0064 | .8721 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .8919 | .9834 | .0048 | .4780 | .9246 |
| SDev | .0321 | .0410 | .0011 | .0033 | .0027 |
| %RSD | 3.593 | 4.172 | 22.29 | .6865 | .2954 |
| #1 | .8693 | .9544 | .0040 | .4757 | .9227 |
| #2 | .9146 | 1.012 | .0056 | .4804 | .9265 |

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Method: TCLP Sample Name: ICB*QC*1 Operator: JMF
Run Time: 06/16/98 15:43:51
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0010 | .0110 | .0033 | .0011 | .0000 | .0004 | .0027 |
| SDev | .0011 | .0120 | .0239 | .0009 | .0000 | .0002 | .0044 |
| %RSD | 106.2 | 108.1 | 721.3 | 84.85 | 35.00 | 48.10 | 161.7 |
| #1 | -.0002 | .0195 | .0202 | .0017 | .0000 | .0003 | .0059 |
| #2 | -.0017 | .0026 | -.0136 | .0004 | .0000 | .0005 | -.0004 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0015 | .0033 | -.0025 | .0043 | .0003 | .0006 | .0023 |
| SDev | .0032 | .0033 | .0023 | .0181 | .0000 | .0034 | .0116 |
| %RSD | 212.3 | 97.87 | 94.25 | 423.8 | .3837 | 565.2 | 495.1 |
| #1 | .0038 | .0057 | -.0008 | .0171 | .0003 | .0030 | .0105 |
| #2 | -.0008 | .0010 | -.0041 | -.0085 | .0003 | -.0018 | -.0059 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0023 | .0023 | .0019 | -.0016 | .0006 |
| SDev | .0178 | .0218 | .0000 | .0005 | .0010 |
| %RSD | 783.7 | 936.4 | .0459 | 35.00 | 152.3 |
| #1 | .0148 | .0177 | .0019 | -.0012 | -.0000 |
| #2 | -.0103 | -.0131 | .0019 | -.0019 | .0013 |

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Method: TCLP Sample Name: MB*QC*1 Operator: JMF
Run Time: 06/16/98 15:45:12
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0002 | .0045 | -.0087 | .0006 | .0014 | -.0003 | .0020 |
| SDev | .0021 | .0026 | .0165 | .0003 | .0006 | .0013 | .0022 |
| %RSD | 843.4 | 57.78 | 188.5 | 47.14 | 46.70 | 373.7 | 113.2 |
| #1 | .0012 | .0026 | .0029 | .0004 | .0018 | -.0013 | .0035 |
| #2 | -.0017 | .0063 | -.0204 | .0009 | .0009 | .0006 | .0004 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0005 | .0010 | -.0049 | -.0192 | .0003 | -.0012 | .0030 |
| SDev | .0004 | .0029 | .0012 | .0211 | .0000 | .0008 | .0000 |
| %RSD | 71.36 | 282.6 | 23.56 | 110.0 | .2727 | 70.98 | .0085 |
| #1 | .0008 | .0031 | -.0041 | -.0043 | .0003 | -.0006 | .0030 |
| #2 | .0003 | -.0010 | -.0058 | -.0341 | .0003 | -.0018 | .0030 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0063 | .0107 | .0008 | -.0016 | .0022 |
| SDev | .0089 | .0000 | .0016 | .0005 | .0019 |
| %RSD | 141.3 | .1774 | 212.2 | 35.26 | 85.73 |
| #1 | -.0000 | .0107 | .0019 | -.0012 | .0009 |
| #2 | -.0126 | .0107 | -.0004 | -.0019 | .0035 |

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Method: TCLP Sample Name: LCS*QC*1 Operator: JMF
Run Time: 06/16/98 15:47:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0581 | 2.037 | 1.682 | 2.038 | .0469 | .0481 | .5016 |
| SDev | .0004 | .013 | .031 | .021 | .0012 | .0003 | .0072 |
| %RSD | .6200 | .6417 | 1.826 | 1.039 | 2.655 | .5167 | 1.429 |
| #1 | .0578 | 2.028 | 1.660 | 2.023 | .0460 | .0483 | .4966 |
| #2 | .0583 | 2.046 | 1.704 | 2.053 | .0478 | .0480 | .5067 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2011 | .2630 | 1.007 | 10.06 | .5069 | .5069 | .5102 |
| SDev | .0014 | .0033 | .004 | .07 | .0051 | .0025 | .0003 |
| %RSD | .7217 | 1.244 | .4041 | .6893 | 1.012 | .4926 | .0642 |
| #1 | .2021 | .2607 | 1.004 | 10.01 | .5033 | .5086 | .5100 |
| #2 | .2001 | .2653 | 1.010 | 10.11 | .5105 | .5051 | .5105 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4714 | 1.881 | .9954 | .5194 | .5094 |
| SDev | .0105 | .008 | .0112 | .0049 | .0009 |
| %RSD | 2.235 | .4390 | 1.128 | .9515 | .1862 |
| #1 | .4788 | 1.876 | .9875 | .5159 | .5101 |
| #2 | .4639 | 1.887 | 1.003 | .5229 | .5087 |

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Method: TCLP Sample Name: TBRKW1*1 Operator: JMF
Run Time: 06/16/98 15:52:52
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0018 | 3.070 | -.0036 | .0830 | .0004 | .0124 | .0032 |
| SDev | .0035 | .013 | .0101 | .0006 | .0006 | .0017 | .0011 |
| %RSD | 200.5 | .4200 | 283.3 | .7290 | 147.0 | 13.43 | 35.07 |
| #1 | .0007 | 3.080 | .0036 | .0825 | .0009 | .0136 | .0024 |
| #2 | -.0042 | 3.061 | -.0107 | .0834 | -.0000 | .0112 | .0039 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0041 | .0900 | 2.800 | 5.791 | .2788 | .0064 | .0080 |
| SDev | .0011 | .0000 | .005 | .042 | .0026 | .0017 | .0063 |
| %RSD | 26.48 | .0014 | .1662 | .7288 | .9203 | 25.90 | 79.00 |
| #1 | .0049 | .0900 | 2.796 | 5.761 | .2770 | .0076 | .0035 |
| #2 | .0033 | .0900 | 2.803 | 5.821 | .2806 | .0052 | .0124 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0377 | -.0135 | .0556 | .0066 | .1553 |
| SDev | .0040 | .0135 | .0011 | .0044 | .0000 |
| %RSD | 10.67 | 99.46 | 1.924 | 66.16 | .0148 |
| #1 | .0405 | -.0231 | .0564 | .0098 | .1553 |
| #2 | .0349 | -.0040 | .0548 | .0035 | .1553 |

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Method: TCLP Sample Name: SPM1*TBRKW1*1 Operator: JMF
Run Time: 06/16/98 15:54:34
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0576 | 5.430 | 1.789 | 2.120 | .0473 | .0626 | .4986 |
| SDev | .0010 | .003 | .029 | .005 | .0006 | .0004 | .0000 |
| %RSD | 1.830 | .0575 | 1.612 | .2568 | 1.340 | .5726 | .0015 |
| #1 | .0583 | 5.432 | 1.769 | 2.116 | .0478 | .0623 | .4986 |
| #2 | .0568 | 5.428 | 1.809 | 2.124 | .0469 | .0628 | .4985 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2054 | .3518 | 3.929 | 16.02 | .7878 | .5115 | .5137 |
| SDev | .0004 | .0007 | .003 | .03 | .0026 | .0008 | .0007 |
| %RSD | .1765 | .2066 | .0740 | .2071 | .3257 | .1629 | .1289 |
| #1 | .2052 | .3512 | 3.926 | 16.00 | .7860 | .5109 | .5133 |
| #2 | .2057 | .3523 | 3.931 | 16.05 | .7896 | .5121 | .5142 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5017 | 1.916 | 1.040 | .5276 | .6512 |
| SDev | .0097 | .013 | .001 | .0000 | .0025 |
| %RSD | 1.935 | .6602 | .1029 | .0004 | .3821 |
| #1 | .5086 | 1.925 | 1.039 | .5276 | .6495 |
| #2 | .4949 | 1.907 | 1.040 | .5275 | .6530 |

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Method: TCLP Sample Name: SPM2*TBRKW1*1 Operator: JMF
Run Time: 06/16/98 15:58:03
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0549 | 5.309 | 1.798 | 2.146 | .0464 | .0642 | .5016 |
| SDev | .0028 | .045 | .013 | .000 | .0006 | .0016 | .0022 |
| %RSD | 5.132 | .8399 | .7398 | .0141 | 1.333 | 2.564 | .4399 |
| #1 | .0568 | 5.341 | 1.807 | 2.146 | .0468 | .0653 | .5032 |
| #2 | .0529 | 5.278 | 1.788 | 2.146 | .0460 | .0630 | .5001 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .2060 | .3559 | 3.898 | 16.29 | .8005 | .5215 | .5137 |
| SDev | .0011 | .0014 | .024 | .04 | .0017 | .0017 | .0027 |
| %RSD | .5262 | .4083 | .6267 | .2222 | .2133 | .3198 | .5154 |
| #1 | .2067 | .3569 | 3.916 | 16.32 | .8017 | .5227 | .5156 |
| #2 | .2052 | .3548 | 3.881 | 16.27 | .7993 | .5203 | .5119 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5076 | 1.946 | 1.049 | .5307 | .6655 |
| SDev | .0129 | .029 | .003 | .0033 | .0003 |
| %RSD | 2.539 | 1.500 | .3060 | .6196 | .0445 |
| #1 | .5167 | 1.966 | 1.051 | .5330 | .6658 |
| #2 | .4985 | 1.925 | 1.046 | .5283 | .6653 |

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Method: TCLP Sample Name: TBRKW1*2 Operator: JMF
Run Time: 06/16/98 16:00:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0008 | 3.383 | .0033 | .0849 | .0004 | .0074 | .0020 |
| SDev | .0014 | .021 | .0036 | .0009 | .0006 | .0006 | .0006 |
| %RSD | 184.4 | .6277 | 108.1 | 1.069 | 158.4 | 7.424 | 27.54 |
| #1 | .0002 | 3.368 | .0059 | .0843 | .0009 | .0078 | .0016 |
| #2 | -.0017 | 3.398 | .0008 | .0855 | -.0000 | .0070 | .0024 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0031 | .0831 | 2.912 | 6.004 | .2839 | .0064 | .0131 |
| SDev | .0032 | .0004 | .007 | .018 | .0004 | .0017 | .0089 |
| %RSD | 105.8 | .4366 | .2398 | .3017 | .1501 | 26.22 | 68.18 |
| #1 | .0008 | .0828 | 2.907 | 5.991 | .2836 | .0052 | .0068 |
| #2 | .0054 | .0833 | 2.916 | 6.017 | .2842 | .0076 | .0194 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0212 | .0200 | .0499 | .0090 | .1275 |
| SDev | .0122 | .0108 | .0005 | .0022 | .0006 |
| %RSD | 57.36 | 54.01 | 1.070 | 24.51 | .4645 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | .0298 | .0124 | .0495 | .0074 | .1271 |
| #2 | .0126 | .0277 | .0503 | .0105 | .1279 |

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Method: TCLP Sample Name: TBRKW1*3 Operator: JMF
Run Time: 06/16/98 16:01:50
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0002 | 2.755 | .0002 | .0783 | .0009 | .0099 | .0012 |
| SDev | .0014 | .006 | .0021 | .0006 | .0013 | .0006 | .0006 |
| %RSD | 609.6 | .2065 | 883.7 | .7728 | 147.1 | 5.998 | 44.96 |
| #1 | -.0008 | 2.759 | -.0013 | .0787 | .0018 | .0103 | .0008 |
| #2 | .0012 | 2.751 | .0017 | .0778 | -.0000 | .0095 | .0016 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0031 | .0838 | 2.681 | 5.733 | .2764 | .0046 | .0112 |
| SDev | .0011 | .0000 | .021 | .021 | .0017 | .0008 | .0050 |
| %RSD | 35.19 | .0006 | .7811 | .3683 | .6185 | 17.78 | 44.18 |
| #1 | .0023 | .0838 | 2.696 | 5.748 | .2776 | .0052 | .0077 |
| #2 | .0038 | .0838 | 2.666 | 5.718 | .2752 | .0041 | .0147 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0262 | .0082 | .0443 | .0071 | .1289 |
| SDev | .0016 | .0018 | .0000 | .0006 | .0006 |
| %RSD | 6.215 | 21.49 | .0007 | 7.855 | .4729 |
| #1 | .0250 | .0069 | .0443 | .0067 | .1284 |
| #2 | .0273 | .0094 | .0443 | .0075 | .1293 |

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Method: TCLP Sample Name: TBRKW1*4 Operator: JMF
Run Time: 06/16/98 16:03:13
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0013 | 3.686 | .0141 | .0838 | .0018 | .0094 | .0012 |
| SDev | .0035 | .037 | .0312 | .0012 | .0000 | .0003 | .0017 |
| %RSD | 279.1 | .9993 | 221.0 | 1.443 | .7301 | 2.616 | 141.5 |
| #1 | .0012 | 3.660 | .0362 | .0830 | .0017 | .0092 | -.0000 |
| #2 | -.0037 | 3.713 | -.0079 | .0847 | .0018 | .0096 | .0023 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0046 | .1193 | 3.167 | 6.656 | .3175 | .0082 | .0115 |
| SDev | .0003 | .0014 | .034 | .048 | .0034 | .0025 | .0046 |
| %RSD | 7.655 | 1.218 | 1.084 | .7253 | 1.077 | 30.54 | 40.39 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0049 | .1183 | 3.143 | 6.622 | .3150 | .0064 | .0147 |
| #2 | .0044 | .1203 | 3.191 | 6.690 | .3199 | .0099 | .0082 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0437 | .0136 | .0564 | .0085 | .2016 |
| SDev | .0024 | .0003 | .0000 | .0028 | .0016 |
| %RSD | 5.428 | 1.822 | .0002 | 32.49 | .7765 |
| #1 | .0420 | .0138 | .0564 | .0104 | .2005 |
| #2 | .0454 | .0134 | .0564 | .0065 | .2027 |

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Method: TCLP Sample Name: CCV*QC*1 Operator: JMF
Run Time: 06/16/98 16:04:51
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5154 | 4.993 | .4919 | .5068 | .5033 | .5091 | .5058 |
| SDev | .0003 | .010 | .0241 | .0018 | .0000 | .0002 | .0033 |
| %RSD | .0675 | .1970 | 4.901 | .3580 | .0015 | .0377 | .6556 |
| #1 | .5151 | 5.000 | .4748 | .5081 | .5033 | .5092 | .5082 |
| #2 | .5156 | 4.986 | .5089 | .5056 | .5033 | .5090 | .5035 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5037 | .5055 | 4.985 | 4.995 | .5038 | .5020 | .5135 |
| SDev | .0004 | .0004 | .029 | .009 | .0000 | .0042 | .0043 |
| %RSD | .0735 | .0714 | .5719 | .1801 | .0003 | .8300 | .8380 |
| #1 | .5039 | .5057 | 5.005 | 4.989 | .5038 | .5050 | .5165 |
| #2 | .5034 | .5052 | 4.964 | 5.001 | .5038 | .4991 | .5105 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5103 | .5206 | .4946 | .5038 | .5026 |
| SDev | .0032 | .0228 | .0016 | .0016 | .0003 |
| %RSD | .6304 | 4.384 | .3244 | .3248 | .0587 |
| #1 | .5125 | .5044 | .4957 | .5050 | .5028 |
| #2 | .5080 | .5367 | .4934 | .5027 | .5024 |

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Method: TCLP Sample Name: CCB*QC*1 Operator: JMF
Run Time: 06/16/98 16:06:15
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0007 | .0015 | .0092 | .0002 | .0009 | -.0013 | .0016 |
| SDev | .0014 | .0026 | .0144 | .0003 | .0013 | .0013 | .0006 |
| %RSD | 188.9 | 169.4 | 155.9 | 141.4 | 140.6 | 97.80 | 35.27 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .0017 | .0034 | .0194 | -.0000 | .0018 | -.0022 | .0020 |
| #2 | -.0002 | -.0003 | -.0009 | .0004 | .0000 | -.0004 | .0012 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0008 | .0013 | -.0062 | -.0341 | .0003 | -.0023 | .0049 |
| SDev | .0000 | .0004 | .0029 | .0120 | .0000 | .0008 | .0060 |
| %RSD | .2413 | 28.22 | 47.16 | 35.30 | .0740 | 35.83 | 121.3 |
| #1 | .0008 | .0015 | -.0041 | -.0426 | .0003 | -.0018 | .0091 |
| #2 | .0008 | .0010 | -.0082 | -.0256 | .0003 | -.0029 | .0007 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0034 | .0066 | .0004 | -.0008 | -.0005 |
| SDev | .0097 | .0278 | .0000 | .0005 | .0000 |
| %RSD | 283.1 | 422.2 | .0001 | 70.83 | 4.440 |
| #1 | -.0103 | .0262 | .0004 | -.0004 | -.0005 |
| #2 | .0034 | -.0130 | .0004 | -.0012 | -.0004 |

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Method: TCLP Sample Name: TBRKW1*5 Operator: JMF
Run Time: 06/16/98 16:08:28
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0050 | 20.03 | .0584 | .4936 | .0276 | .0197 | .0519 |
| SDev | .0003 | .18 | .0179 | .0036 | .0000 | .0025 | .0021 |
| %RSD | 7.002 | .9157 | 30.55 | .7353 | .0234 | 12.54 | 4.117 |
| #1 | .0052 | 19.90 | .0458 | .4910 | .0277 | .0215 | .0504 |
| #2 | .0047 | 20.16 | .0711 | .4962 | .0276 | .0180 | .0534 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0828 | 2.540 | 83.16 | 5.313 | 1.210 | 1.587 | .2287 |
| SDev | .0008 | .026 | .96 | .051 | .010 | .014 | .0093 |
| %RSD | .9133 | 1.016 | 1.149 | .9640 | .8080 | .8906 | 4.054 |
| #1 | .0823 | 2.522 | 82.48 | 5.277 | 1.203 | 1.577 | .2222 |
| #2 | .0834 | 2.558 | 83.84 | 5.350 | 1.217 | 1.597 | .2353 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 4.346 | .2841 | .4444 | .0309 | 30.10 |
| SDev | .016 | .0043 | .0043 | .0014 | .21 |
| %RSD | .3661 | 1.521 | .9629 | 4.504 | .6867 |
| #1 | 4.335 | .2872 | .4414 | .0299 | 29.95 |
| #2 | 4.357 | .2811 | .4474 | .0319 | 30.25 |

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Method: TCLP Sample Name: TBRKW1*6 Operator: JMF

Run Time: 06/16/98 16:10:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0451 | 51.24 | .1529 | 2.146 | .0204 | .3520 | .1941 |
| SDev | .0007 | .01 | .0247 | .001 | .0006 | .0033 | .0039 |
| %RSD | 1.570 | .0131 | 16.17 | .0423 | 3.095 | .9391 | 2.001 |
| #1 | .0456 | 51.25 | .1354 | 2.146 | .0208 | .3497 | .1914 |
| #2 | .0446 | 51.24 | .1704 | 2.145 | .0200 | .3544 | .1969 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1036 | 27.10 | 219.4 | 65.97 | 13.51 | .3832 | .9746 |
| SDev | .0014 | .03 | .0 | .06 | .02 | .0033 | .0123 |
| %RSD | 1.400 | .1047 | .0225 | .0912 | .1172 | .8647 | 1.256 |
| #1 | .1026 | 27.08 | 219.5 | 66.01 | 13.50 | .3809 | .9832 |
| #2 | .1047 | 27.12 | 219.4 | 65.93 | 13.52 | .3856 | .9659 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 14.64 | .1072 | .8665 | .1432 | 42.96 |
| SDev | .09 | .0060 | .0000 | .0005 | .06 |
| %RSD | .6030 | 5.565 | .0000 | .3779 | .1443 |
| #1 | 14.58 | .1030 | .8665 | .1436 | 42.92 |
| #2 | 14.70 | .1115 | .8665 | .1428 | 43.01 |

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Method: TCLP Sample Name: TBRKW1*7 Operator: JMF
Run Time: 06/16/98 16:11:49
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0002 | .0117 | .0023 | .0002 | .0000 | -.0017 | .0016 |
| SDev | .0007 | .0047 | .0185 | .0003 | .0000 | .0004 | .0017 |
| %RSD | 282.5 | 39.89 | 799.8 | 141.4 | 93.65 | 26.08 | 106.6 |
| #1 | -.0007 | .0084 | .0154 | .0004 | .0000 | -.0014 | .0004 |
| #2 | .0002 | .0151 | -.0108 | -.0000 | .0000 | -.0020 | .0027 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0013 | .0280 | .0424 | .0086 | .0033 | .0018 | .0023 |
| SDev | .0014 | .0062 | .0227 | .0241 | .0008 | .0000 | .0056 |
| %RSD | 112.7 | 22.06 | 53.55 | 281.7 | 25.67 | .4994 | 240.4 |
| #1 | .0023 | .0324 | .0584 | .0256 | .0039 | .0018 | -.0016 |
| #2 | .0003 | .0237 | .0263 | -.0085 | .0027 | .0018 | .0063 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0126 | .0105 | .0026 | -.0012 | .0208 |

| | | | | | |
|---|---|---|---|---|---|
| SDev | .0032 | .0034 | .0000 | .0011 | .0059 |
| %RSD | 25.81 | 32.27 | .0146 | 93.65 | 28.40 |
| #1 | .0149 | .0081 | .0026 | -.0020 | .0250 |
| #2 | .0103 | .0130 | .0026 | -.0004 | .0167 |

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Method: TCLP Sample Name: TBRKW1*8 Operator: JMF
Run Time: 06/16/98 16:13:04
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0050 | 4.507 | .0483 | .0768 | .0107 | .4046 | .0022 |
| SDev | .0010 | .032 | .0065 | .0015 | .0000 | .0024 | .0017 |
| %RSD | 21.11 | .7010 | 13.41 | 1.970 | .0478 | .5895 | 74.48 |
| #1 | .0057 | 4.529 | .0437 | .0778 | .0107 | .4063 | .0034 |
| #2 | .0042 | 4.485 | .0528 | .0757 | .0107 | .4029 | .0011 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0129 | 4.124 | 1.174 | 2.523 | .0472 | 2.067 | .0459 |
| SDev | .0003 | .025 | .003 | .024 | .0000 | .006 | .0046 |
| %RSD | 2.663 | .6174 | .2973 | .9589 | .0042 | .2815 | 10.09 |
| #1 | .0127 | 4.142 | 1.176 | 2.540 | .0472 | 2.071 | .0426 |
| #2 | .0132 | 4.106 | 1.172 | 2.505 | .0472 | 2.063 | .0492 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 9.044 | .3484 | .0412 | .0026 | 10.03 |
| SDev | .049 | .0221 | .0000 | .0011 | .05 |
| %RSD | .5364 | 6.334 | .0002 | 42.58 | .4654 |
| #1 | 9.079 | .3328 | .0412 | .0018 | 10.07 |
| #2 | 9.010 | .3640 | .0412 | .0034 | 10.000 |

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Method: TCLP Sample Name: TBRKW1*9 Operator: JMF
Run Time: 06/16/98 16:16:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0000 | .0048 | -.0025 | .0002 | .0005 | .0004 | .0016 |
| SDev | .0011 | .0042 | .0130 | .0003 | .0006 | .0022 | .0006 |
| %RSD | 110500. | 87.31 | 521.3 | 141.4 | 140.8 | 519.0 | 35.77 |
| #1 | .0007 | .0077 | .0067 | -.0000 | .0000 | .0020 | .0012 |
| #2 | -.0007 | .0018 | -.0117 | .0004 | .0009 | -.0012 | .0020 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0003 | .0044 | .0782 | -.0149 | .0015 | .0006 | .0005 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0014 | .0011 | .0012 | .0030 | .0000 | .0033 | .0036 |
| %RSD | 557.9 | 25.00 | 1.489 | 19.94 | .0102 | 566.6 | 777.9 |
| #1 | .0013 | .0051 | .0773 | -.0128 | .0015 | -.0018 | .0030 |
| #2 | -.0008 | .0036 | .0790 | -.0170 | .0015 | .0029 | -.0021 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0029 | .0105 | .0015 | -.0008 | .0641 |
| SDev | .0008 | .0101 | .0005 | .0006 | .0003 |
| %RSD | 28.19 | 96.00 | 35.33 | 69.22 | .4600 |
| #1 | -.0023 | .0176 | .0019 | -.0004 | .0643 |
| #2 | -.0034 | .0034 | .0011 | -.0012 | .0639 |

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Method: TCLP Sample Name: TBRKW1*10 Operator: JMF
Run Time: 06/16/98 16:18:06
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0000 | .0088 | -.0078 | .0004 | .0014 | .0001 | .0027 |
| SDev | .0018 | .0139 | .0015 | .0000 | .0006 | .0006 | .0000 |
| %RSD | 102000. | 158.1 | 19.63 | .0000 | 47.58 | 980.9 | .0245 |
| #1 | .0012 | .0187 | -.0089 | .0004 | .0009 | -.0003 | .0027 |
| #2 | -.0012 | -.0010 | -.0067 | .0004 | .0018 | .0005 | .0027 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0010 | .0036 | -.0008 | -.0085 | .0009 | .0030 | .0059 |
| SDev | .0018 | .0000 | .0035 | .0000 | .0009 | .0033 | .0033 |
| %RSD | 176.0 | .0590 | 424.4 | .5250 | 94.20 | 112.6 | 56.55 |
| #1 | .0023 | .0036 | .0016 | -.0084 | .0015 | .0053 | .0035 |
| #2 | -.0003 | .0036 | -.0033 | -.0085 | .0003 | .0006 | .0082 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0166 | .0112 | .0015 | -.0019 | .0090 |
| SDev | .0154 | .0076 | .0005 | .0022 | .0003 |
| %RSD | 92.63 | 67.92 | 35.33 | 112.6 | 3.595 |
| #1 | .0274 | .0058 | .0019 | -.0004 | .0092 |
| #2 | .0057 | .0167 | .0011 | -.0035 | .0088 |

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Method: TCLP Sample Name: TBRKW1*11 Operator: JMF
Run Time: 06/16/98 16:19:26
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0007 | .0074 | -.0063 | .0004 | .0005 | .0013 | .0031 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| SDev | .0021 | .0077 | .0088 | .0000 | .0006 | .0012 | .0017 |
| %RSD | 283.4 | 105.1 | 140.2 | .0000 | 140.8 | 96.07 | 53.21 |
| #1 | .0007 | .0019 | -.0126 | .0004 | .0000 | .0022 | .0043 |
| #2 | -.0022 | .0129 | -.0001 | .0004 | .0009 | .0004 | .0019 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0069 | .0041 | .0267 | -.0170 | .0030 | .0012 | .0171 |
| SDev | .0007 | .0007 | .0018 | .0000 | .0004 | .0008 | .0033 |
| %RSD | 10.43 | 17.67 | 6.527 | .0496 | 14.14 | 68.93 | 19.37 |
| #1 | .0074 | .0036 | .0280 | -.0170 | .0027 | .0006 | .0194 |
| #2 | .0064 | .0046 | .0255 | -.0170 | .0033 | .0018 | .0147 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0080 | .0225 | .0011 | -.0012 | .0127 |
| SDev | .0065 | .0185 | .0000 | .0011 | .0013 |
| %RSD | 80.74 | 82.15 | .0169 | 93.46 | 9.882 |
| #1 | .0034 | .0094 | .0011 | -.0004 | .0118 |
| #2 | .0126 | .0356 | .0011 | -.0020 | .0136 |

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Method: TCLP Sample Name: TBRKW1*12 Operator: JMF
Run Time: 06/16/98 16:20:43
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0165 | 14.26 | .0601 | 1.106 | .0114 | .4665 | .0296 |
| SDev | .0018 | .07 | .0138 | .006 | .0000 | .0013 | .0016 |
| %RSD | 10.65 | .5239 | 23.03 | .5196 | .0029 | .2733 | 5.533 |
| #1 | .0178 | 14.20 | .0699 | 1.102 | .0114 | .4656 | .0285 |
| #2 | .0153 | 14.31 | .0503 | 1.110 | .0114 | .4674 | .0308 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0521 | 24.48 | 32.50 | 37.11 | 3.625 | .0470 | .3068 |
| SDev | .0011 | .19 | .28 | .33 | .030 | .0016 | .0066 |
| %RSD | 2.068 | .7668 | .8611 | .8940 | .8372 | 3.499 | 2.157 |
| #1 | .0529 | 24.34 | 32.30 | 36.87 | 3.604 | .0459 | .3115 |
| #2 | .0513 | 24.61 | 32.70 | 37.34 | 3.647 | .0482 | .3021 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | 12.45 | .0335 | .2840 | .0441 | 23.81 |
| SDev | .09 | .0207 | .0011 | .0001 | .16 |
| %RSD | .7213 | 61.59 | .3767 | .1632 | .6770 |
| #1 | 12.39 | .0189 | .2833 | .0442 | 23.70 |
| #2 | 12.51 | .0481 | .2848 | .0441 | 23.92 |

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Method: TCLP Sample Name: TBRKW1*13 Operator: JMF
Run Time: 06/16/98 16:22:35
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0014 | .7970 | -.0085 | .1542 | .0018 | .0542 | .0020 |
| SDev | .0021 | .0248 | .0094 | .0009 | .0000 | .0011 | .0028 |
| %RSD | 146.7 | 3.116 | 109.9 | .5884 | 1.004 | 2.020 | 136.1 |
| #1 | .0029 | .8145 | -.0019 | .1536 | .0018 | .0549 | .0001 |
| #2 | -.0001 | .7794 | -.0151 | .1548 | .0018 | .0534 | .0040 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0024 | 1.014 | 1.240 | 28.74 | 2.192 | .0542 | .0356 |
| SDev | .0000 | .011 | .013 | .10 | .002 | .0008 | .0003 |
| %RSD | .1819 | 1.112 | 1.032 | .3357 | .0975 | 1.537 | .9310 |
| #1 | .0024 | 1.022 | 1.249 | 28.68 | 2.190 | .0536 | .0358 |
| #2 | .0024 | 1.006 | 1.231 | 28.81 | 2.193 | .0547 | .0354 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .4806 | -.0046 | .0223 | .0035 | 1.687 |
| SDev | .0291 | .0168 | .0011 | .0038 | .007 |
| %RSD | 6.056 | 363.0 | 4.794 | 109.6 | .4229 |
| #1 | .5012 | .0072 | .0231 | .0062 | 1.692 |
| #2 | .4600 | -.0165 | .0216 | .0008 | 1.682 |

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Method: TCLP Sample Name: TBRKW1*14 Operator: JMF
Run Time: 06/16/98 16:23:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0000 | .0133 | -.0050 | .0004 | .0009 | .0000 | .0031 |
| SDev | .0018 | .0077 | .0054 | .0000 | .0013 | .0017 | .0006 |
| %RSD | 884800. | 58.42 | 109.4 | .0000 | 141.1 | 4736. | 17.79 |
| #1 | .0012 | .0078 | -.0088 | .0004 | .0000 | -.0012 | .0035 |
| #2 | -.0012 | .0187 | -.0011 | .0004 | .0018 | .0012 | .0027 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0005 | .0167 | -.0000 | .0192 | .0021 | -.0006 | .0016 |
| SDev | .0011 | .0011 | .0012 | .0090 | .0009 | .0017 | .0027 |
| %RSD | 213.5 | 6.533 | 151500. | 47.03 | 40.42 | 284.6 | 161.8 |
| #1 | -.0003 | .0175 | .0008 | .0256 | .0027 | -.0018 | -.0002 |
| #2 | .0013 | .0159 | -.0008 | .0128 | .0015 | .0006 | .0035 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0012 | .0225 | .0011 | -.0000 | .0169 |
| SDev | .0194 | .0202 | .0000 | .0005 | .0016 |
| %RSD | 1673. | 89.58 | .0255 | 266700. | 9.239 |
| #1 | -.0149 | .0083 | .0011 | -.0004 | .0180 |
| #2 | .0126 | .0368 | .0011 | .0004 | .0158 |

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Method: TCLP Sample Name: CCV*QC*2 Operator: JMF
Run Time: 06/16/98 16:25:28
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5253 | 5.081 | .5046 | .5152 | .5131 | .5181 | .5163 |
| SDev | .0046 | .024 | .0092 | .0015 | .0038 | .0036 | .0028 |
| %RSD | .8696 | .4678 | 1.815 | .2935 | .7398 | .6873 | .5338 |
| #1 | .5285 | 5.097 | .4981 | .5163 | .5158 | .5206 | .5183 |
| #2 | .5221 | 5.064 | .5110 | .5141 | .5104 | .5155 | .5144 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5113 | .5273 | 5.118 | 5.065 | .5116 | .5138 | .5212 |
| SDev | .0040 | .0044 | .024 | .042 | .0034 | .0092 | .0000 |
| %RSD | .7799 | .8265 | .4661 | .8358 | .6684 | 1.782 | .0006 |
| #1 | .5142 | .5304 | 5.135 | 5.095 | .5140 | .5203 | .5212 |
| #2 | .5085 | .5242 | 5.101 | 5.036 | .5092 | .5073 | .5212 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5147 | .5460 | .5029 | .5123 | .5100 |
| SDev | .0113 | .0090 | .0037 | .0016 | .0022 |
| %RSD | 2.193 | 1.656 | .7443 | .3182 | .4255 |
| #1 | .5227 | .5524 | .5055 | .5135 | .5115 |
| #2 | .5067 | .5396 | .5002 | .5112 | .5084 |

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Method: TCLP Sample Name: CCB*QC*3 Operator: JMF
Run Time: 06/16/98 16:29:45
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0007 | -.0021 | .0098 | .0006 | .0018 | -.0021 | .0035 |
| SDev | .0021 | .0026 | .0123 | .0003 | .0000 | .0001 | .0011 |
| %RSD | 281.2 | 122.9 | 126.4 | 47.14 | .0009 | 4.459 | 31.44 |
| #1 | .0007 | -.0040 | .0010 | .0009 | .0018 | -.0021 | .0043 |
| #2 | -.0022 | -.0003 | .0185 | .0004 | .0018 | -.0022 | .0027 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0003 | .0062 | -.0090 | -.0234 | .0006 | -.0006 | .0049 |
| SDev | .0022 | .0007 | .0035 | .0271 | .0004 | .0017 | .0060 |
| %RSD | 848.2 | 11.77 | 38.59 | 115.7 | 70.38 | 284.9 | 121.2 |
| #1 | .0018 | .0067 | -.0066 | -.0426 | .0003 | .0006 | .0007 |
| #2 | -.0013 | .0057 | -.0115 | -.0043 | .0009 | -.0018 | .0091 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0040 | .0274 | .0008 | -.0035 | -.0003 |
| SDev | .0089 | .0034 | .0005 | .0000 | .0010 |
| %RSD | 222.3 | 12.36 | 70.64 | .1000 | 377.0 |
| #1 | -.0103 | .0298 | .0011 | -.0035 | .0004 |
| #2 | .0023 | .0250 | .0004 | -.0035 | -.0009 |

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Method: TCLP Sample Name: SD*TBRKW1*1 1:5 Operator: JMF
Run Time: 06/16/98 16:31:37
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0010 | .6125 | .0220 | .0171 | -.0000 | .0031 | .0023 |
| SDev | .0003 | .0119 | .0225 | .0000 | .0000 | .0031 | .0017 |
| %RSD | 35.45 | 1.944 | 102.4 | .0000 | .0297 | 98.94 | 73.10 |
| #1 | .0007 | .6209 | .0379 | .0171 | -.0000 | .0009 | .0011 |
| #2 | .0012 | .6041 | .0061 | .0171 | -.0000 | .0053 | .0034 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0020 | .0231 | .5660 | 1.190 | .0583 | .0006 | .0061 |
| SDev | .0011 | .0000 | .0000 | .006 | .0000 | .0000 | .0017 |
| %RSD | 53.01 | .0000 | .0000 | .5066 | .0009 | .4108 | 27.20 |
| #1 | .0028 | .0231 | .5660 | 1.194 | .0583 | .0006 | .0073 |
| #2 | .0013 | .0231 | .5660 | 1.185 | .0583 | .0006 | .0049 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0106 | .0194 | .0117 | .0010 | .0331 |
| SDev | .0048 | .0101 | .0000 | .0000 | .0009 |
| %RSD | 45.48 | 52.34 | .0025 | .0297 | 2.842 |
| #1 | .0141 | .0122 | .0117 | .0010 | .0324 |
| #2 | .0072 | .0266 | .0117 | .0010 | .0338 |

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Method: TCLP Sample Name: SPX*TBRKW1*1 Operator: JMF
Run Time: 06/16/98 16:36:22
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0593 | 4.890 | 1.831 | 2.041 | .0456 | .0618 | .4807 |
| SDev | .0007 | .031 | .002 | .002 | .0006 | .0000 | .0022 |
| %RSD | 1.192 | .6367 | .1337 | .0889 | 1.362 | .0337 | .4589 |
| #1 | .0588 | 4.868 | 1.829 | 2.039 | .0452 | .0618 | .4791 |
| #2 | .0598 | 4.912 | 1.832 | 2.042 | .0460 | .0618 | .4822 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .1944 | .3430 | 3.692 | 15.36 | .7576 | .4979 | .4859 |
| SDev | .0014 | .0007 | .041 | .04 | .0043 | .0000 | .0036 |
| %RSD | .7407 | .2118 | 1.103 | .2553 | .5642 | .0008 | .7491 |
| #1 | .1934 | .3425 | 3.663 | 15.33 | .7546 | .4979 | .4833 |
| #2 | .1955 | .3435 | 3.721 | 15.38 | .7606 | .4979 | .4885 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5426 | 1.992 | 1.006 | .5094 | .6342 |
| SDev | .0064 | .018 | .003 | .0027 | .0025 |
| %RSD | 1.187 | .9167 | .2658 | .5371 | .3900 |
| #1 | .5380 | 1.979 | 1.004 | .5074 | .6324 |
| #2 | .5471 | 2.005 | 1.008 | .5113 | .6359 |

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Method: TCLP Sample Name: ICS*A*2 Operator: JMF
Run Time: 06/16/98 16:43:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0069 | 503.6 | -.1167 | .0105 | .0009 | -.0003 | -.0005 |
| SDev | .0004 | 4.6 | .0505 | .0003 | .0000 | .0004 | .0005 |
| %RSD | 5.087 | .9062 | 43.27 | 2.886 | .7475 | 125.3 | 89.29 |
| #1 | -.0067 | 500.3 | -.1524 | .0107 | .0009 | -.0000 | -.0009 |
| #2 | -.0072 | 506.8 | -.0810 | .0103 | .0009 | -.0006 | -.0002 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0008 | .0028 | 178.7 | 499.3 | .0104 | .0041 | -.0061 |
| SDev | .0022 | .0018 | 1.3 | 4.1 | .0001 | .0034 | .0023 |
| %RSD | 284.9 | 64.32 | .7124 | .8139 | .7036 | 82.34 | 38.11 |
| #1 | -.0023 | .0041 | 177.8 | 496.4 | .0103 | .0065 | -.0044 |
| #2 | .0008 | .0015 | 179.6 | 502.2 | .0104 | .0017 | -.0077 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .0203 | -.0226 | .0068 | .0039 | .0146 |
| SDev | .0085 | .0007 | .0005 | .0014 | .0007 |
| %RSD | 42.13 | 3.279 | 7.848 | 36.38 | 4.865 |

| | | | | | |
|---|---|---|---|---|---|
| #1 | .0142 | -.0231 | .0064 | .0049 | .0141 |
| #2 | .0263 | -.0221 | .0072 | .0029 | .0151 |

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Method: TCLP Sample Name: ICS*AB*2 Operator: JMF
Run Time: 06/16/98 16:45:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .9983 | 509.3 | .8660 | .4983 | .4809 | .9564 | .4471 |
| SDev | .0049 | 4.6 | .0618 | .0042 | .0038 | .0065 | .0011 |
| %RSD | .4931 | .8981 | 7.136 | .8497 | .7872 | .6801 | .2407 |
| #1 | .9948 | 506.1 | .8223 | .4953 | .4783 | .9518 | .4463 |
| #2 | 1.002 | 512.5 | .9097 | .5013 | .4836 | .9610 | .4479 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .4657 | .4900 | 182.6 | 504.1 | .4758 | .0023 | .8892 |
| SDev | .0047 | .0047 | .3 | 5.0 | .0027 | .0008 | .0063 |
| %RSD | 1.006 | .9651 | .1745 | 1.0000 | .5592 | 35.91 | .7072 |
| #1 | .4624 | .4866 | 182.4 | 500.5 | .4739 | .0017 | .8847 |
| #2 | .4690 | .4933 | 182.8 | 507.6 | .4777 | .0029 | .8936 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .9382 | .9936 | .0055 | .4859 | .9469 |
| SDev | .0085 | .0360 | .0011 | .0038 | .0079 |
| %RSD | .9090 | 3.628 | 19.30 | .7751 | .8374 |
| #1 | .9321 | .9681 | .0063 | .4832 | .9413 |
| #2 | .9442 | 1.019 | .0048 | .4886 | .9525 |

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Method: TCLP Sample Name: CCV*QC*3 Operator: JMF
Run Time: 06/16/98 16:46:53
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5258 | 5.140 | .5224 | .5165 | .5149 | .5163 | .5163 |
| SDev | .0018 | .070 | .0056 | .0045 | .0038 | .0023 | .0050 |
| %RSD | .3343 | 1.363 | 1.065 | .8784 | .7382 | .4414 | .9625 |
| #1 | .5271 | 5.190 | .5264 | .5197 | .5176 | .5179 | .5199 |
| #2 | .5246 | 5.091 | .5185 | .5133 | .5122 | .5146 | .5128 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .5159 | .5186 | 5.153 | 5.112 | .5137 | .5144 | .5217 |
| SDev | .0032 | .0051 | .049 | .084 | .0021 | .0017 | .0073 |
| %RSD | .6296 | .9816 | .9484 | 1.652 | .4149 | .3253 | 1.396 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .5182 | .5222 | 5.187 | 5.172 | .5152 | .5156 | .5268 |
| #2 | .5136 | .5150 | 5.118 | 5.053 | .5122 | .5132 | .5166 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | .5123 | .5456 | .5052 | .5154 | .5120 |
| SDev | .0114 | .0151 | .0027 | .0005 | .0012 |
| %RSD | 2.233 | 2.770 | .5292 | .1034 | .2346 |
| #1 | .5042 | .5563 | .5070 | .5158 | .5128 |
| #2 | .5204 | .5349 | .5033 | .5150 | .5111 |

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Method: TCLP Sample Name: CCB*QC*3 Operator: JMF
Run Time: 06/16/98 16:52:40
Comment:
Mode: CONC Corr. Factor: 1

| Elem | Ag3280 | Al3082 | As1936 | Ba4934 | Be3130 | Cd2288 | Co2286 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | .0017 | .0007 | -.0058 | .0004 | .0018 | .0000 | .0012 |
| SDev | .0007 | .0036 | .0027 | .0000 | .0000 | .0006 | .0011 |
| %RSD | 40.41 | 488.0 | 46.13 | .0000 | .2846 | 1518. | 94.48 |
| #1 | .0022 | .0033 | -.0039 | .0004 | .0018 | -.0004 | .0004 |
| #2 | .0012 | -.0018 | -.0077 | .0004 | .0018 | .0005 | .0020 |

| Elem | Cr2677 | Cu3247 | Fe | Mg2790 | Mn2576 | Mo2020 | Ni2316 |
|---|---|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0003 | .0028 | -.0049 | -.0234 | .0006 | .0006 | .0030 |
| SDev | .0014 | .0018 | .0023 | .0091 | .0004 | .0017 | .0040 |
| %RSD | 568.9 | 64.26 | 47.14 | 38.68 | 70.47 | 279.7 | 130.5 |
| #1 | .0008 | .0041 | -.0033 | -.0170 | .0009 | .0018 | .0002 |
| #2 | -.0013 | .0015 | -.0066 | -.0298 | .0003 | -.0006 | .0059 |

| Elem | Pb2203 | Se1960 | Ti3349 | V_2924 | Zn2138 |
|---|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm | ppm |
| Avge | -.0011 | .0031 | .0008 | .0012 | .0006 |
| SDev | .0097 | .0026 | .0005 | .0011 | .0003 |
| %RSD | 847.7 | 85.40 | 70.65 | 94.00 | 49.66 |
| #1 | .0057 | .0012 | .0011 | .0019 | .0009 |
| #2 | -.0080 | .0049 | .0004 | .0004 | .0004 |

# Other Relevant Documentation

QST BATCH : G91184

QC TYPE : FDER/SW
ANALYST : JULIE FASANO
EXTRACTOR : JULIE FASANO
DATA ENTRY : ICAP UPLOAD

REPORT DATE/TIME : 06/19/98 16:36
ANALYSIS DATE/TIME : 06/16/98
EXTRACT DATE : 06/10/98

STATUS :

METHOD BLANK CORRECTION METHOD : NONE

| FIELD GRP | QC TYPE | PROJECT NUMBER | PROJECT NAME | LAB COORDINATOR |
|---|---|---|---|---|
| TBRKW1 | FDER | 1298522V L204 | TECHLAW BRICK P | ANDREW WEITZ |

Sample Specific Raw Data

| SAMPLE CODE | EXTRACT DATE | ANALYSIS DATE | ANALYSIS TIME | SAMPLE VOL or WT (NA) | EXTRACT VOL or WT (NA) | INJECTION VOLUME (NA) | %MOISTURE |
|---|---|---|---|---|---|---|---|
| ICV*QC26*1 | 06/10/98 | 06/16/98 | 03:35PM | | | 1 | |
| ICS*A*1 | 06/10/98 | 06/16/98 | 03:38PM | | | 1 | |
| ICS*AB*1 | 06/10/98 | 06/16/98 | 03:40PM | | | 1 | |
| ICB*QC*1 | 06/10/98 | 06/16/98 | 03:43PM | | | 1 | |
| MB*QC*1 | 06/10/98 | 06/16/98 | 03:45PM | | | 1 | |
| SP*QC*1 | 06/10/98 | 06/16/98 | 03:47PM | | | 1 | |
| DA*TBRKW1*1 | 06/10/98 | 06/16/98 | 03:52PM | | | 1 | |
| SPM1*TBRKW1*1 | 06/10/98 | 06/16/98 | 03:54PM | | | 1 | |
| SPM2*TBRKW1*1 | 06/10/98 | 06/16/98 | 03:58PM | | | 1 | |
| DA*TBRKW1*2 | 06/10/98 | 06/16/98 | 04:00PM | | | 1 | |
| DA*TBRKW1*3 | 06/10/98 | 06/16/98 | 04:01PM | | | 1 | |
| DA*TBRKW1*4 | 06/10/98 | 06/16/98 | 04:03PM | | | 1 | |
| CCV*QC*1 | 06/10/98 | 06/16/98 | 04:04PM | | | 1 | |
| CCB*QC*1 | 06/10/98 | 06/16/98 | 04:06PM | | | 1 | |
| DA*TBRKW1*5 | 06/10/98 | 06/16/98 | 04:08PM | | | 1 | |
| DA*TBRKW1*6 | 06/10/98 | 06/16/98 | 04:10PM | | | 1 | |
| DA*TBRKW1*7 | 06/10/98 | 06/16/98 | 04:11PM | | | 1 | |
| DA*TBRKW1*8 | 06/10/98 | 06/16/98 | 04:13PM | | | 1 | |
| DA*TBRKW1*9 | 06/10/98 | 06/16/98 | 04:16PM | | | 1 | |
| DA*TBRKW1*10 | 06/10/98 | 06/16/98 | 04:18PM | | | 1 | |
| DA*TBRKW1*11 | 06/10/98 | 06/16/98 | 04:19PM | | | 1 | |
| DA*TBRKW1*12 | 06/10/98 | 06/16/98 | 04:20PM | | | 1 | |
| DA*TBRKW1*13 | 06/10/98 | 06/16/98 | 04:22PM | | | 1 | |
| DA*TBRKW1*14 | 06/10/98 | 06/16/98 | 04:23PM | | | 1 | |
| CCV*QC*2 | 06/10/98 | 06/16/98 | 04:25PM | | | 1 | |
| CCB*QC*2 | 06/10/98 | 06/16/98 | 04:29PM | | | 1 | |
| SD*TBRKW1*1 | 06/10/98 | 06/16/98 | 04:31PM | | | 1 | |
| SPX*TBRKW1*1 | 06/10/98 | 06/16/98 | 04:36PM | | | 1 | |
| ICS*A*2 | 06/10/98 | 06/16/98 | 04:43PM | | | 1 | |
| ICS*AB*2 | 06/10/98 | 06/16/98 | 04:45PM | | | 1 | |
| CCV*QC*3 | 06/10/98 | 06/16/98 | 04:46PM | | | 1 | |
| CCB*QC*3 | 06/10/98 | 06/16/98 | 04:52PM | | | 1 | |

Parameter Specific Raw Data

| SAMPLE CODE | STORET NAME | STAT | RESP (UG/L) | UNC CONC (UG/L) | DIL | TYPE | CRV | RET TIME | SPIKE SOL CONC (UG/L) | SPIKE SAMP VOL (NA) | SPIKE VOLUME (NA) | DIL CODE | CALC'D TARGET (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICV*QC26*1 | AG | OK | 1015.61 | 1020 | 1 | FINAL | | | | | | | 1000 |
| | AS | OK | 973.05 | 973 | 1 | FINAL | | | | | | | 1000 |
| | BA | OK | 994.43 | 994 | 1 | FINAL | | | | | | | 1000 |
| | CD | OK | 991.06 | 991 | 1 | FINAL | | | | | | | 1000 |
| | CR | OK | 1001.22 | 1000 | 1 | FINAL | | | | | | | 1000 |
| | PB | OK | 996.8 | 997 | 1 | FINAL | | | | | | | 1000 |
| | SE | OK | 1029.89 | 1030 | 1 | FINAL | | | | | | | 1000 |
| ICS*A*1 | AG | OK | -7.4 | -7.4 | | | | | | | | | |
| | AS | OK | -46.6 | -46.6 | | | | | | | | | |
| | BA | OK | 10.7 | 10.7 | | | | | | | | | |
| | CD | OK | -1.7 | -1.7 | | | | | | | | | |
| | CR | OK | -1.3 | -1.3 | | | | | | | | | |
| | PB | OK | 23.0 | 23.0 | | | | | | | | | |
| | SE | OK | -10.0 | -10.0 | | | | | | | | | |
| ICS*AB*1 | AG | OK | 974.7 | 975 | | | | | | | | | 1000 |
| | AS | OK | 823.1 | 823 | | | | | | | | | 1000 |
| | BA | OK | 490.8 | 491 | | | | | | | | | 500 |
| | CD | OK | 929.9 | 930 | | | | | | | | | 1000 |
| | CR | OK | 457.0 | 457 | | | | | | | | | 500 |
| | PB | OK | 891.9 | 892 | | | | | | | | | 1000 |
| | SE | OK | 983.4 | 983 | | | | | | | | | 1000 |
| ICB*QC*1 | AG | OK | -.9900 | -1.0 | 1 | FINAL | | | | | | | |
| | AS | OK | 3.31 | 3.3 | 1 | FINAL | | | | | | | |
| | BA | OK | 1.06 | 1.1 | 1 | FINAL | | | | | | | |
| | CD | OK | .38 | 0.4 | 1 | FINAL | | | | | | | |
| | CR | OK | 1.53 | 1.5 | 1 | FINAL | | | | | | | |
| | PB | OK | 2.26 | 2.3 | 1 | FINAL | | | | | | | |
| | SE | OK | 2.32 | 2.3 | 1 | FINAL | | | | | | | |
| MB*QC*1 | AG | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | AS | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | BA | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CD | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | CR | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | PB | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | SE | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| SP*QC*1 | AG | OK | 58.09 | 58.1 | 1 | FINAL | | | | | | | 50 |
| | AS | OK | 1681.92 | 1680 | 1 | FINAL | | | | | | | 2000 |
| | BA | OK | 2038.06 | 2040 | 1 | FINAL | | | | | | | 2000 |
| | CD | OK | 48.13 | 48.1 | 1 | FINAL | | | | | | | 50 |
| | CR | OK | 201.09 | 201 | 1 | FINAL | | | | | | | 200 |
| | PB | OK | 471.35 | 471 | 1 | FINAL | | | | | | | 500 |
| | SE | OK | 1881.39 | 1880 | 1 | FINAL | | | | | | | 2000 |
| DA*TBRKW1*1 | AG | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | AS | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | BA | OK | 82.97 | 83.0 | 1 | FINAL | | | | | | | |
| | CD | OK | 12.41 | 12.4 | 1 | FINAL | | | | | | | |
| | CR | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | PB | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| | SE | OK | 0 | 0.0 | 1 | FINAL | | | | | | | |
| SPM1*TBRKW1*1 | AG | OK | 57.57 | 57.6 | 1 | FINAL | | | | | | | 50 |
| | AS | OK | 1788.91 | 1790 | 1 | FINAL | | | | | | | 2000 |
| | BA | OK | 2120.18 | 2120 | 1 | FINAL | | | | | | | 2000 |
| | CD | OK | 62.56 | 62.6 | 1 | FINAL | | | | | | | 50 |
| | CR | OK | 205.43 | 205 | 1 | FINAL | | | | | | | 200 |
| | PB | OK | 501.72 | 502 | 1 | FINAL | | | | | | | 500 |
| | SE | OK | 1915.69 | 1920 | 1 | FINAL | | | | | | | 2000 |
| SPM2*TBRKW1*1 | AG | OK | 54.85 | 54.9 | 1 | FINAL | | | | | | | 50 |
| | AS | OK | 1797.71 | 1800 | 1 | FINAL | | | | | | | 2000 |
| | BA | OK | 2146.06 | 2150 | 1 | FINAL | | | | | | | 2000 |
| | CD | OK | 64.15 | 64.2 | 1 | FINAL | | | | | | | 50 |
| | CR | OK | 205.96 | 206 | 1 | FINAL | | | | | | | 200 |
| | PB | OK | 507.63 | 508 | 1 | FINAL | | | | | | | 500 |
| | SE | OK | 1945.65 | 1950 | 1 | FINAL | | | | | | | 2000 |
| DA*TBRKW1*2 | AG | OK | -.7500 | -.8 | 1 | FINAL | | | | | | | |
| | AS | OK | 3.33 | 3.3 | 1 | FINAL | | | | | | | |
| | BA | OK | 84.9 | 84.9 | 1 | FINAL | | | | | | | |
| | CD | OK | 7.4 | 7.4 | 1 | FINAL | | | | | | | |
| | CR | OK | 3.06 | 3.1 | 1 | FINAL | | | | | | | |
| | PB | OK | 21.22 | 21.2 | 1 | FINAL | | | | | | | |
| | SE | OK | 20.02 | 20.0 | 1 | FINAL | | | | | | | |
| DA*TBRKW1*3 | AG | OK | .23 | 0.2 | 1 | FINAL | | | | | | | |
| | AS | OK | .24 | 0.2 | 1 | FINAL | | | | | | | |
| | BA | OK | 78.27 | 78.3 | 1 | FINAL | | | | | | | |
| | CD | OK | 9.9 | 9.9 | 1 | FINAL | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | CR | OK | 3.06 | 3.1 | 1 | FINAL | |
| | PB | OK | 26.16 | 26.2 | 1 | FINAL | |
| | SE | OK | 8.18 | 8.2 | 1 | FINAL | |
| DA*TBRKW1*4 | AG | OK | -1.2600 | -1.3 | 1 | FINAL | |
| | AS | OK | 14.12 | 14.1 | 1 | FINAL | |
| | BA | OK | 83.83 | 83.8 | 1 | FINAL | |
| | CD | OK | 9.38 | 9.4 | 1 | FINAL | |
| | CR | OK | 4.6 | 4.6 | 1 | FINAL | |
| | PB | OK | 43.72 | 43.7 | 1 | FINAL | |
| | SE | OK | 13.61 | 13.6 | 1 | FINAL | |
| CCV*QC*1 | AG | OK | 515.37 | 515 | 1 | FINAL | 500 |
| | AS | OK | 491.85 | 492 | 1 | FINAL | 500 |
| | BA | OK | 506.84 | 507 | 1 | FINAL | 500 |
| | CD | OK | 509.11 | 509 | 1 | FINAL | 500 |
| | CR | OK | 503.66 | 504 | 1 | FINAL | 500 |
| | PB | OK | 510.26 | 510 | 1 | FINAL | 500 |
| | SE | OK | 520.56 | 521 | 1 | FINAL | 500 |
| CCB*QC*1 | AG | OK | .74 | 0.7 | 1 | FINAL | |
| | AS | OK | 9.23 | 9.2 | 1 | FINAL | |
| | BA | OK | .21 | 0.2 | 1 | FINAL | |
| | CD | OK | -1.3100 | -1.3 | 1 | FINAL | |
| | CR | OK | .75 | 0.8 | 1 | FINAL | |
| | PB | OK | -3.4300 | -3.4 | 1 | FINAL | |
| | SE | OK | 6.57 | 6.6 | 1 | FINAL | |
| DA*TBRKW1*5 | AG | OK | 4.97 | 5.0 | 1 | FINAL | |
| | AS | OK | 58.43 | 58.4 | 1 | FINAL | |
| | BA | OK | 493.58 | 494 | 1 | FINAL | |
| | CD | OK | 19.72 | 19.7 | 1 | FINAL | |
| | CR | OK | 82.81 | 82.8 | 1 | FINAL | |
| | PB | OK | 4346.07 | 4350 | 1 | FINAL | |
| | SE | OK | 284.11 | 284 | 1 | FINAL | |
| DA*TBRKW1*6 | AG | OK | 45.05 | 45.1 | 1 | FINAL | |
| | AS | OK | 152.92 | 153 | 1 | FINAL | |
| | BA | OK | 2145.63 | 2150 | 1 | FINAL | |
| | CD | OK | 352.02 | 352 | 1 | FINAL | |
| | CR | OK | 103.62 | 104 | 1 | FINAL | |
| | PB | OK | 14639.48 | 14600 | 1 | FINAL | |
| | SE | OK | 107.24 | 107 | 1 | FINAL | |
| DA*TBRKW1*7 | AG | OK | -.2400 | -.2 | 1 | FINAL | |
| | AS | OK | 2.31 | 2.3 | 1 | FINAL | |
| | BA | OK | .21 | 0.2 | 1 | FINAL | |
| | CD | OK | -1.6600 | -1.7 | 1 | FINAL | |
| | CR | OK | 1.27 | 1.3 | 1 | FINAL | |
| | PB | OK | 12.57 | 12.6 | 1 | FINAL | |
| | SE | OK | 10.54 | 10.5 | 1 | FINAL | |
| DA*TBRKW1*8 | AG | OK | 4.97 | 5.0 | 1 | FINAL | |
| | AS | OK | 48.25 | 48.3 | 1 | FINAL | |
| | BA | OK | 76.77 | 76.8 | 1 | FINAL | |
| | CD | OK | 404.62 | 405 | 1 | FINAL | |
| | CR | OK | 12.94 | 12.9 | 1 | FINAL | |
| | PB | OK | 9044.21 | 9040 | 1 | FINAL | |
| | SE | OK | 348.38 | 348 | 1 | FINAL | |
| DA*TBRKW1*9 | AG | OK | .0000 | 0.0 | 1 | FINAL | |
| | AS | OK | -2.4900 | -2.5 | 1 | FINAL | |
| | BA | OK | .21 | 0.2 | 1 | FINAL | |
| | CD | OK | .43 | 0.4 | 1 | FINAL | |
| | CR | OK | .25 | 0.3 | 1 | FINAL | |
| | PB | OK | -2.8600 | -2.9 | 1 | FINAL | |
| | SE | OK | 10.5 | 10.5 | 1 | FINAL | |
| DA*TBRKW1*10 | AG | OK | .0000 | 0.0 | 1 | FINAL | |
| | AS | OK | -7.8000 | -7.8 | 1 | FINAL | |
| | BA | OK | .42 | 0.4 | 1 | FINAL | |
| | CD | OK | .05 | 0.05 | 1 | FINAL | |
| | CR | OK | 1.02 | 1.0 | 1 | FINAL | |
| | PB | OK | 16.58 | 16.6 | 1 | FINAL | |
| | SE | OK | 11.24 | 11.2 | 1 | FINAL | |
| DA*TBRKW1*11 | AG | OK | -.7400 | -.7 | 1 | FINAL | |
| | AS | OK | -6.3000 | -6.3 | 1 | FINAL | |
| | BA | OK | .42 | 0.4 | 1 | FINAL | |
| | CD | OK | 1.29 | 1.3 | 1 | FINAL | |
| | CR | OK | 6.88 | 6.9 | 1 | FINAL | |
| | PB | OK | 8 | 8.0 | 1 | FINAL | |
| | SE | OK | 22.5 | 22.5 | 1 | FINAL | |
| DA*TBRKW1*12 | AG | OK | 16.54 | 16.5 | 1 | FINAL | |
| | AS | OK | 60.11 | 60.1 | 1 | FINAL | |
| | BA | OK | 1105.85 | 1110 | 1 | FINAL | |
| | CD | OK | 466.54 | 467 | 1 | FINAL | |
| | CR | OK | 52.09 | 52.1 | 1 | FINAL | |
| | PB | OK | 12450.03 | 12500 | 1 | FINAL | |
| | SE | OK | 33.53 | 33.5 | 1 | FINAL | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DA*TBRKW1*13 | AG | OK | 1.44 | 1.4 | 1 | FINAL | |
| | AS | OK | -8.5000 | -8.5 | 1 | FINAL | |
| | BA | OK | 154.19 | 154 | 1 | FINAL | |
| | CD | OK | 54.15 | 54.2 | 1 | FINAL | |
| | CR | OK | 2.43 | 2.4 | 1 | FINAL | |
| | PB | OK | 480.6 | 481 | 1 | FINAL | |
| | SE | OK | -4.6200 | -4.6 | 1 | FINAL | |
| DA*TBRKW1*14 | AG | OK | .0000 | 0.0 | 1 | FINAL | |
| | AS | OK | -4.9500 | -5.0 | 1 | FINAL | |
| | BA | OK | .42 | 0.4 | 1 | FINAL | |
| | CD | OK | .03 | 0.03 | 1 | FINAL | |
| | CR | OK | .5 | 0.5 | 1 | FINAL | |
| | PB | OK | -1.1600 | -1.2 | 1 | FINAL | |
| | SE | OK | 22.51 | 22.5 | 1 | FINAL | |
| CCV*QC*2 | AG | OK | 525.31 | 525 | 1 | FINAL | 500 |
| | AS | OK | 504.57 | 505 | 1 | FINAL | 500 |
| | BA | OK | 515.18 | 515 | 1 | FINAL | 500 |
| | CD | OK | 518.05 | 518 | 1 | FINAL | 500 |
| | CR | OK | 511.33 | 511 | 1 | FINAL | 500 |
| | PB | OK | 514.7 | 515 | 1 | FINAL | 500 |
| | SE | OK | 545.99 | 546 | 1 | FINAL | 500 |
| CCB*QC*2 | AG | OK | -0.7 | -.7 | 1 | FINAL | |
| | AS | OK | 9.8 | 9.8 | 1 | FINAL | |
| | BA | OK | 0.6 | 0.6 | 1 | FINAL | |
| | CD | OK | -2.1 | -2.1 | 1 | FINAL | |
| | CR | OK | 0.3 | 0.3 | 1 | FINAL | |
| | PB | OK | -4.0 | -4.0 | 1 | FINAL | |
| | SE | OK | 27.4 | 27.4 | 1 | FINAL | |
| SD*TBRKW1*1 | AG | OK | .98 | 4.9 | 5 | FINAL | |
| | AS | OK | 22.01 | 110 | 5 | FINAL | |
| | BA | OK | 17.1 | 85.5 | 5 | FINAL | |
| | CD | OK | 3.13 | 15.7 | 5 | FINAL | |
| | CR | OK | 2.04 | 10.2 | 5 | FINAL | |
| | PB | OK | 10.63 | 53.2 | 5 | FINAL | |
| | SE | OK | 19.37 | 96.9 | 5 | FINAL | |
| SPX*TBRKW1*1 | AG | OK | 59.28 | 59.3 | 1 | FINAL | 50 |
| | AS | OK | 1830.67 | 1830 | 1 | FINAL | 2000 |
| | BA | OK | 2040.63 | 2040 | 1 | FINAL | 2000 |
| | CD | OK | 61.82 | 61.8 | 1 | FINAL | 50 |
| | CR | OK | 194.44 | 194 | 1 | FINAL | 200 |
| | PB | OK | 542.57 | 543 | 1 | FINAL | 500 |
| | SE | OK | 1992.08 | 1990 | 1 | FINAL | 2000 |
| ICS*A*2 | AG | OK | -6.9400 | -6.9 | 1 | FINAL | |
| | AS | OK | -116.6800 | -117 | 1 | FINAL | |
| | BA | OK | 10.47 | 10.5 | 1 | FINAL | |
| | CD | OK | -.3100 | -.3 | 1 | FINAL | |
| | CR | OK | -.7500 | -.8 | 1 | FINAL | |
| | PB | OK | 20.26 | 20.3 | 1 | FINAL | |
| | SE | OK | -22.6200 | -22.6 | 1 | FINAL | |
| ICS*AB*2 | AG | OK | 998.28 | 998 | 1 | FINAL | 1000 |
| | AS | OK | 866.02 | 866 | 1 | FINAL | 1000 |
| | BA | OK | 498.28 | 498 | 1 | FINAL | 500 |
| | CD | OK | 956.4 | 956 | 1 | FINAL | 1000 |
| | CR | OK | 465.68 | 466 | 1 | FINAL | 500 |
| | PB | OK | 938.17 | 938 | 1 | FINAL | 1000 |
| | SE | OK | 993.58 | 994 | 1 | FINAL | 1000 |
| CCV*QC*3 | AG | OK | 525.81 | 526 | 1 | FINAL | 500 |
| | AS | OK | 522.43 | 522 | 1 | FINAL | 500 |
| | BA | OK | 516.46 | 516 | 1 | FINAL | 500 |
| | CD | OK | 516.25 | 516 | 1 | FINAL | 500 |
| | CR | OK | 515.92 | 516 | 1 | FINAL | 500 |
| | PB | OK | 512.33 | 512 | 1 | FINAL | 500 |
| | SE | OK | 545.59 | 546 | 1 | FINAL | 500 |
| CCB*QC*3 | AG | OK | 1.74 | 1.7 | 1 | FINAL | |
| | AS | OK | -5.8100 | -5.8 | 1 | FINAL | |
| | BA | OK | .42 | 0.4 | 1 | FINAL | |
| | CD | OK | .03 | 0.03 | 1 | FINAL | |
| | CR | OK | -.2500 | -.3 | 1 | FINAL | |
| | PB | OK | -1.1400 | -1.1 | 1 | FINAL | |
| | SE | OK | 3.06 | 3.1 | 1 | FINAL | |

HOLDING TIMES CHECK

| SAMPLE | ANALYTE | ANL DATE | EXT DATE | SMP DATE | H.T. OVER |
|---|---|---|---|---|---|

ALL HOLDING TIMES MET

STORET: 1077 METHOD: 6010-G SILVER, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 5 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.7 | |
| QC*2 | -.7 | |
| QC*3 | 1.7 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 515 | 500 | 3.0 |
| QC*2 | 525 | 500 | 5.0 |
| QC*3 | 526 | 500 | 5.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -1.0 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -7.4 | | |
| AB*1 | 975 | 1000 | 2.5 |
| A*2 | -6.9 | | |
| AB*2 | 998 | 1000 | 0.2 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 1020 | 1000 | 2.0 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 58.1 | 58.1 | 50.0 | 116.2 | | Recovery exceeds criteria. (>107) |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 0.0 | 57.6 | 57.6 | 50.0 | 115.2 | |
| SPM2*TBRKW1*1 | 0.0 | 54.9 | 54.9 | 50.0 | 109.8 | 4.8 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 0.0 | 59.3 | 59.3 | 50.0 | 118.6 | |

STORET: 1002 METHOD: 6010-G ARSENIC,TOTAL, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 100 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 9.2 | |
| QC*2 | 9.8 | |
| QC*3 | -5.8 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 492 | 500 | -1.6 |
| QC*2 | 505 | 500 | 1.0 |
| QC*3 | 522 | 500 | 4.4 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 3.3 | |

INTERFERENCE CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -46.6 | | |
| AB*1 | 823 | 1000 | 17.7 |
| A*2 | -117 | | |
| AB*2 | 866 | 1000 | 13.4 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 973 | 1000 | 2.7 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 1680 | 1680 | 2000 | 84.0 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 0.0 | 1790 | 1790 | 2000 | 89.5 | |
| SPM2*TBRKW1*1 | 0.0 | 1800 | 1800 | 2000 | 90.0 | 0.6 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 0.0 | 1830 | 1830 | 2000 | 91.5 | |

STORET: 1007 METHOD: 6010-G BARIUM,TOTAL, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 20 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.2 | |
| QC*2 | 0.6 | |
| QC*3 | 0.4 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 507 | 500 | 1.4 |
| QC*2 | 515 | 500 | 3.0 |
| QC*3 | 516 | 500 | 3.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 1.1 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | 10.7 | | |
| AB*1 | 491 | 500 | 1.8 |
| A*2 | 10.5 | | |
| AB*2 | 498 | 500 | 0.4 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 994 | 1000 | 0.6 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 2040 | 2040 | 2000 | 102.0 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 83.0 | 2120 | 2040 | 2000 | 102.0 | |
| SPM2*TBRKW1*1 | 83.0 | 2150 | 2070 | 2000 | 103.5 | 1.5 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 83.0 | 2040 | 1960 | 2000 | 98.0 | |

STORET: 1027 METHOD: 6010-G CADMIUM, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 5 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -1.3 | |
| QC*2 | -2.1 | |
| QC*3 | 0.03 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 509 | 500 | 1.8 |
| QC*2 | 518 | 500 | 3.6 |
| QC*3 | 516 | 500 | 3.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.4 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -1.7 | | |
| AB*1 | 930 | 1000 | 7.0 |
| A*2 | -.3 | | |
| AB*2 | 956 | 1000 | 4.4 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 991 | 1000 | 0.9 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 48.1 | 48.1 | 50.0 | 96.2 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 12.4 | 62.6 | 50.2 | 50.0 | 100.4 | |
| SPM2*TBRKW1*1 | 12.4 | 64.2 | 51.8 | 50.0 | 103.6 | 3.1 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 12.4 | 61.8 | 49.4 | 50.0 | 98.8 | |

STORET: 1034 METHOD: 6010-G CHROMIUM, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 10 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.8 | |
| QC*2 | 0.3 | |
| QC*3 | -.3 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 504 | 500 | 0.8 |
| QC*2 | 511 | 500 | 2.2 |
| QC*3 | 516 | 500 | 3.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 1.5 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -1.3 | | |
| AB*1 | 457 | 500 | 8.6 |
| A*2 | -.8 | | |
| AB*2 | 466 | 500 | 6.8 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 1000 | 1000 | 0.0 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 201 | 201 | 200 | 100.5 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 0.0 | 205 | 205 | 200 | 102.5 | |
| SPM2*TBRKW1*1 | 0.0 | 206 | 206 | 200 | 103.0 | 0.5 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 0.0 | 194 | 194 | 200 | 97.0 | |

STORET: 1051 METHOD: 6010-G LEAD,TOTAL, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 50 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | -3.4 | |
| QC*2 | -4.0 | |
| QC*3 | -1.1 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 510 | 500 | 2.0 |
| QC*2 | 515 | 500 | 3.0 |
| QC*3 | 512 | 500 | 2.4 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 2.3 | |

INTERFERENCE CALIBRATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | 23.0 | | |
| AB*1 | 892 | 1000 | 10.8 |
| A*2 | 20.3 | | |
| AB*2 | 938 | 1000 | 6.2 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 997 | 1000 | 0.3 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 471 | 471 | 500 | 94.2 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 0.0 | 502 | 502 | 500 | 100.4 | |
| SPM2*TBRKW1*1 | 0.0 | 508 | 508 | 500 | 101.6 | 1.2 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 0.0 | 543 | 543 | 500 | 108.6 | |

STORET: 1147 METHOD: 6010-G SELENIUM,TOTAL, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 100 DATE: 06/16/98 LARGEST RESP= %RSD=

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 6.6 | |
| QC*2 | 27.4 | |
| QC*3 | 3.1 | |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 521 | 500 | 4.2 |
| QC*2 | 546 | 500 | 9.2 |
| QC*3 | 546 | 500 | 9.2 |

INITIAL CALIBRATION BLANK(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 2.3 | |

INTERFERENCE CALIBRATION STANDARD(S) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| A*1 | -10.0 | | |
| AB*1 | 983 | 1000 | 1.7 |
| A*2 | -22.6 | | |
| AB*2 | 994 | 1000 | 0.6 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC26*1 | 1030 | 1000 | 3.0 |

SERIAL DILUTION SAMPLE ANALYSIS

| SAMPLE ID | REP.1 CONC | REP.2 CONC | % DIFFERENCE |
|---|---|---|---|
| TBRKW1*1 | | | N/C |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 1880 | 1880 | 2000 | 94.0 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRKW1*1 | 0.0 | 1920 | 1920 | 2000 | 96.0 | |
| SPM2*TBRKW1*1 | 0.0 | 1950 | 1950 | 2000 | 97.5 | 1.6 |

SPIKE(S) INTO SAMPLE MATRIX AFTER EXTRACTION

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPX*TBRKW1*1 | 0.0 | 1990 | 1990 | 2000 | 99.5 | |

| SAMPLE ID | 1077<br>6010<br>SILVER<br>UG/L | 1002<br>6010<br>ARSENIC, TOTAL<br>UG/L | 1007<br>6010<br>BARIUM, TOTAL<br>UG/L | 1027<br>6010<br>CADMIUM<br>UG/L | 1034<br>6010<br>CHROMIUM<br>UG/L | 1051<br>6010<br>LEAD, TOTAL<br>UG/L | 1147<br>6010<br>SELENIUM, TOTAL<br>UG/L |
|---|---|---|---|---|---|---|---|
| MB*QC*1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TBRKW1*1 | <5.0 | <100 | 83.0 | 12.4 | <10.0 | <50.0 | <100 |
| TBRKW1*2 | <5.0 | <100 | 84.9 | 7.4 | <10.0 | <50.0 | <100 |
| TBRKW1*3 | <5.0 | <100 | 78.3 | 9.9 | <10.0 | <50.0 | <100 |
| TBRKW1*4 | <5.0 | <100 | 83.8 | 9.4 | <10.0 | <50.0 | <100 |
| TBRKW1*5 | <5.0 | <100 | 494 | 19.7 | 82.8 | 4350 | 284 |
| TBRKW1*6 | 45.1 | 153 | 2150 | 352 | 104 | 14600 | 107 |
| TBRKW1*7 | <5.0 | <100 | <20.0 | <5.0 | <10.0 | <50.0 | <100 |
| TBRKW1*8 | <5.0 | <100 | 76.8 | 405 | 12.9 | 9040 | 348 |
| TBRKW1*9 | <5.0 | <100 | <20.0 | <5.0 | <10.0 | <50.0 | <100 |
| TBRKW1*10 | <5.0 | <100 | <20.0 | <5.0 | <10.0 | <50.0 | <100 |
| TBRKW1*11 | <5.0 | <100 | <20.0 | <5.0 | <10.0 | <50.0 | <100 |
| TBRKW1*12 | 16.5 | <100 | 1110 | 467 | 52.1 | 12500 | <100 |
| TBRKW1*13 | <5.0 | <100 | 154 | 54.2 | <10.0 | 481 | <100 |
| TBRKW1*14 | <5.0 | <100 | <20.0 | <5.0 | <10.0 | <50.0 | <100 |

## UNITS AND EXAMPLE CALCULATIONS

| | UNITS ENTERED |
|---|---|
| FINAL CONCENTRATION | UG/L |
| INJECTION VOLUME | NA |
| SAMPLE VOLUME | NA |
| EXTRACT VOLUME | NA |
| CURVE CONCENTRATION | UG/L |
| SPIKE SOLN CONCENTRATION | UG/L |
| SPIKE VOLUME | NA |
| SPIKE SAMPLE VOLUME | NA |
| TARGET CONCENTRATION | UG/L |
| RESPONSE DESCRIPTION | UG/L |
| CONVERSION FACTOR | 1000 |

$$\text{FINAL CONC} = \frac{\text{CURV CONC} * \text{EXT VOL} * \text{DIL} * 1000}{\text{INJ VOL} * \text{SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{UG/L} = \frac{(\text{UG/L}) * (\text{NA}) * 1000}{(\text{NA}) * (\text{NA})}$$

$$(\qquad) = \frac{(\qquad\qquad) * (\qquad\qquad) * (\qquad)}{(\qquad\qquad) * (\qquad\qquad) * ((100 - (\qquad\qquad)) / 100)}$$

$$\text{TARGET CONC} = \frac{\text{SPIKE SOLN CONC} * \text{SPIKE VOL}}{\text{SPIKE SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{UG/L} = \frac{(\text{UG/L}) * (\text{NA})}{(\text{NA})}$$

QST Environmental Analytical Services
Computer QC Checks

Batch No.: G91184 Analysis Date: 06/16/98 Analyst: JULIE FASANO Report Date: 06/19/98

| | Yes | "Exceptions" No | See Batch Comments |
|---|---|---|---|
| Are ALL units documented in batch? | X | | |
| Analysis holding time within criteria? | X | | |
| CCV present? | X | | |
| CCV within acceptance criteria? | X | | |
| ICS present? | X | | |
| ICS within acceptance criteria? | X | | |
| ICV present? | X | | |
| ICV within acceptance criteria? | X | | |
| Method blank present? | X | | |
| Method blank within acceptance criteria? | X | | |
| SD present? | X | | |
| SD within acceptance criteria? | X | | |
| Standard matrix spike present? | X | | |
| Standard matrix spike within acceptance criteria? | | X | AG |
| Sample matrix spike present? | X | | |
| Sample matrix spike within acceptance criteria? | X | | |
| Sample matrix spike duplicate present? | X | | |
| Sample matrix spike duplicate within acceptance criteria? | X | | |
| Analytical spike present? | X | | |
| Analytical spike within acceptance criteria? | X | | |

Note: Any "NO" answer requires a comment.

QST Environmental Analytical Services
Internal QA/QC Batch Checklist For Atomic Spectroscopy

Batch No.: G91184 Analysis Date: 06/16/98 Analyst: JULIE FASANO

| | N/A | Yes | No | "Exceptions" Comment/Corrective Action |
|---|---|---|---|---|
| Is the method blank free of contamination? | | ✓ | | |
| If not, has the data been blank corrected? | ✓ | | | |
| Are reported values consistent with the required units? | | ✓ | | |
| Are detection limits reported correctly? | | ✓ | | |
| Are dilution factors entered correctly? | ✓ | | | |
| Is the calibration curve (if applicable) entered correctly? | ✓ | | | |
| Is the curve correlation coefficient >= 0.995 ? | ✓ | | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are all the correct elements included in the spikes? | | ✓ | | |
| Is the batch checked for data entry error(s)? | | ✓ | | |
| Are continuing calibration blanks analyzed at a frequency specified in the appropriate QA/QC Plan (i.e. AF, COE or FDER QA/QC plan)? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are continuing calibration verification (CCV) standards analyzed at a frequency specified in the appropriate QA/QC Plan? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Is an example calculation provided? | ✓ | | | |
| Has the batch documentation checklist been completed?. | | N | | |
| Were the first extracts/digests prepped from this sample used for sample analysis? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |

Note: Any "NO" answer requires a comment.
Additional Comments:

Completed By [signature]
Date 6/19/97

Reviewed By [signature]
Date 6/19/98

Notification of appropriate Laboratory Coordinators required for "Exceptions":

| Signature | Date | Comments |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

BATCH OVERRIDE BY:

FINALIZED BY:

# QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY SAMPLE PREP

Book # 44 Pg. # 71

Matrix Cellular
SOP No. CLM1233-001 R4

Method/QC Type ICAP / FDER
Lot No.(s) NA

| Spike Solutions Used | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|
| 1. ICAP FDER Spk | → | MV labs | → 10/21/98 |
| 2. ICAP FDER Ag Spk | | | |
| 3. ILM03-0 Supplement | | | |
| 4. | | | |
| 5. | | | |

| Reagents Used | Lot No. |
|---|---|
| 1. Baker HNO3 | L24025 |
| 2. ↓ HCl | L46040 |
| 3. | |

Final Vol. (ml) 50 ml

Pipets Used Rainin 7012408

Balance No. NA Hood No. 5 Hotplate No. 2 Hotplate temp. 95°

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| MB | 50 ml | |
| SP1 | | 0.5 ml #1, 2 & 3 |
| TBRYW1#1 | | |
| SPM1#1 | | 0.5 ml #1, 2, #3 |
| SPM2#1 | | 0.5 ml #1, 2 & 3 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |
| 13 | | |
| 14 | 50 ml | |
| | | |
| | | |

Signed [signature] Date 6/6/98 Read & Understood By [signature] Date 6/11/98

f:\admin\common\forms\1233\atomicsp.wpd

**MV LABORATORIES INC.** P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 10-21-97
**MULTI-ELEMENT STANDARD :** ICAP CLP/FDER
**LOT NO:** P1097A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Al | 200 | Dy | | Li | 100 | Pr | | Te | |
| Sb | | Er | | Lu | | Re | | Tb | |
| As | | Eu | | Mg | 1000 | Rh | | Tl | |
| Ba | 200 | Gd | | Mn | 50 | Rb | | Th | |
| Be | 5 | Ga | | Hg | | Ru | | Tm | |
| Bi | | Ge | | Mo | 50 | Sm | | Sn | 100 |
| B | 100 | Au | | Nd | | Sc | | Ti | 100 |
| Cd | | Hf | | Ni | 50 | Se | | W | |
| Ca | 1000 | Ho | | Nb | | Si | | U | |
| Ce | | In | | Os | | Ag | | V | 50 |
| Cs | | Ir | | Pd | | Na | 1000 | Yb | |
| Cr | 20 | Fe | 100 | P | | Sr | 50 | Y | |
| Co | 50 | La | | Pt | | S | | Zn | 50 |
| Cu | 25 | Pb | | K | 1000 | Ta | | Zr | 100 |

**MATRIX:** 5% $HNO_3$ tr.HF
**EXPIRATION DATE:** 10-21-98

received
OCT 27 1997

**MV LABORATORIES INC.** P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 10-21-97
**MULTI-ELEMENT STANDARD** : ICAP CLP/FDER-Ag
**LOT NO:** P1097A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm.

| | | | | |
|---|---|---|---|---|
| Al | Dy | Li | Pr | Te |
| Sb | Er | Lu | Re | Tb |
| As | Eu | Mg | Rh | Tl |
| Ba | Gd | Mn | Rb | Th |
| Be | Ga | Hg | Ru | Tm |
| Bi | Ge | Mo | Sm | Sn |
| B | Au | Nd | Sc | Ti |
| Cd | Hf | Ni | Se | W |
| Ca | Ho | Nb | Si | U |
| Ce | In | Os | Ag | V |
| Cs | Ir | Pd | Na | Yb |
| Cr | Fe | P | Sr | Y |
| Co | La | Pt | S | Zn |
| Cu | Pb | K | Ta | Zr |

**MATRIX:** 5% $HNO_3$ tr.HF
**EXPIRATION DATE:** 10-21-98

received
OCT 27 1997

MV LABORATORIES INC. P.O. BOX 370 THREE BRIDGES, NJ 08887
PHONE NO: 908-996-6633 FAX NO: 908-996-6697

# CERTIFICATE OF ANALYSIS

**DATE:** 11-26-97
**MULTI-ELEMENT STANDARD :** 3.0 SPIKE
**LOT NO:** P1197A

The following elements in this multi-element standard are certified to be accurate to within 1%. This standard was prepared from concentrates which have been assayed wet chemically and are traceable to NIST.

Concentrations of major elements in ppm

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Al | | Dy | | Li | | Pr | | Te | |
| Sb | 50 | Er | | Lu | | Re | | Tb | |
| As | 200 | Eu | | Mg | | Rh | | Tl | 200 |
| Ba | | Gd | | Mn | | Rb | | Th | |
| Be | | Ga | | Hg | | Ru | | Tm | |
| Bi | | Ge | | Mo | | Sm | | Sn | |
| B | | Au | | Nd | | Sc | | Ti | |
| Cd | 5 | Hf | | Ni | | Se | 200 | W | |
| Ca | | Ho | | Nb | | Si | | U | |
| Ce | | In | | Os | | Ag | | V | |
| Cs | | Ir | | Pd | | Na | | Yb | |
| Cr | | Fe | | P | | Sr | | Y | |
| Co | | La | | Pt | | S | | Zn | |
| Cu | | Pb | 50 | K | | Ta | | Zr | |

**MATRIX:** 5% $HNO_3$
**EXPIRATION DATE:** 11-26-98

# ICAP STANDARDS, CCV Solution

Notebook: 2 Page: 276

**Standard 2**

| Element | Lot Number | Stock Conc. (ppm) | Std Conc. (ppm) | CCV Conc. (ppm) |
|---|---|---|---|---|
| As | P1197A | 100 | 1.0 | 0.5 |
| Ba | P1197A | 100 | 1.0 | 0.5 |
| Be | P1197A | 100 | 1.0 | 0.5 |
| Cd | P1197A | 100 | 1.0 | 0.5 |
| Co | P1197A | 100 | 1.0 | 0.5 |
| Cr | P1197A | 100 | 1.0 | 0.5 |
| Cu | P1197A | 100 | 1.0 | 0.5 |
| Mn | P1197A | 100 | 1.0 | 0.5 |
| Ni | P1197A | 100 | 1.0 | 0.5 |
| Pb | P1197A | 100 | 1.0 | 0.5 |
| Sb | P1197A | 100 | 1.0 | 0.5 |
| Se | P1197A | 100 | 1.0 | 0.5 |
| Tl | P1197A | 100 | 1.0 | 0.5 |
| V | P1197A | 100 | 1.0 | 0.5 |
| Zn | P1197A | 100 | 1.0 | 0.5 |

**Standard 3**

| | | | | |
|---|---|---|---|---|
| Al | P1197A | 1000 | 10.0 | 5.0 |
| Ca | P1197A | 1000 | 10.0 | 5.0 |
| Fe | P1197A | 1000 | 10.0 | 5.0 |
| Mg | P1197A | 1000 | 10.0 | 5.0 |
| Na | P1197A | 1000 | 10.0 | 5.0 |
| Na | 731501 | 10000 | * | * |
| K | P1197A | 1000 | 10.0 | 5.0 |
| K | 731425 | 10000 | ** | ** |

**Standard 4**

| | | | | |
|---|---|---|---|---|
| Ag | 803024 | 1000 | 1.0 | 0.5 |

**Standard 5**

| | | | | |
|---|---|---|---|---|
| B | P1197A | 100 | 1.0 | 0.5 |
| Li | P1197A | 100 | 1.0 | 0.5 |
| Mo | P1197A | 100 | 1.0 | 0.5 |
| P | P1197A | 100 | 1.0 | 0.5 |
| Sr | P1197A | 100 | 1.0 | 0.5 |
| Sn | P1197A | 100 | 1.0 | 0.5 |
| Ti | P1197A | 100 | 1.0 | 0.5 |

MV LABS standards expire 10/98. Each standard is made by adding 10 mls of stock solution to 1000 ml final volume using a volumetric pipette with 5% (v/v) $HNO_3/HCl$ in TYPE I water. CCV solution combines all stock solutions at half the standard concentrations.

* Standard 3 is supplemented with 9mL of Na 10,000 ppm stock for the JA-Trace, bringing the final concentration to 100ppm. (High Purity, Exp. 2/99)

** Standard 3 is supplemented with 9mL of K 10,000 ppm stock for the JA61, bringing the final concentration to 100 ppm. (High Purity, Exp. 2/99)

Solutions are good for 33 days.

| | Prepared by: | Date: | Expires: | Verified by : | Date: |
|---|---|---|---|---|---|
| (1) | [illegible] | 6/15/98 | 7/18/98 | Kent Brakefield | 6/15/98 |
| (2) | | | | | |
| (3) | | | | | |
| (4) | | | | | |
| (5) | | | | | |
| (6) | | | | | |

# ICAP ICV QCS26 SOLUTION

Notebook: 2 Page: 247

| Element | Stock Conc. (ppm) | Target Conc. (ppm) |
|---|---|---|
| Ag | 100 | 1.0 |
| Al | 100 | 1.0 |
| As | 100 | 1.0 |
| Ba | 100 | 1.0 |
| Be | 100 | 1.0 |
| B | 100 | 1.0 |
| Cd | 100 | 1.0 |
| Ca | 100 | 1.0 |
| Cr | 100 | 1.0 |
| Co | 100 | 1.0 |
| Cu | 100 | 1.0 |
| Fe | 100 | 1.0 |
| K | 1000 | 10.0 |
| Mn | 100 | 1.0 |
| Mg | 100 | 1.0 |
| Mo | 100 | 1.0 |
| Ni | 100 | 1.0 |
| Pb | 100 | 1.0 |
| Na | 100 | 1.0 |
| Sb | 100 | 1.0 |
| Se | 100 | 1.0 |
| Sn | 100 | 1.0 |
| Tl | 100 | 1.0 |
| Ti | 100 | 1.0 |
| V | 100 | 1.0 |
| Zn | 100 | 1.0 |

**High Purity QCS26** (Lot: 725305 / Expires: 11/98)

ICV QCS26 Solution is prepared by adding 10mL of stock solution to a final volume of 1000mL TYPE I water and a final acid concentration of 5%(v/v) $HNO_3$ and 5% (v/v) HCl using a Class "A" volumetric pipette.
Solution is stored at room temperature and is good for 33 days.

| | Prepared by: | Date: | Expires: | Verified by : | Date: |
|---|---|---|---|---|---|
| (1) | [illegible] | 10/27/97 | 11/29/97 | Kent Brakefield | 10-27-97 |
| (2) | [illegible] | 11/28/97 | 12/31/97 | David V. Tucker | 11-28-97 |
| (3) | [illegible] | 12/28/97 | 1/27/98 | [illegible] | 12/28/97 |
| (4) | [illegible] | 1/27/98 | 3/1/98 | Kent Brakefield | 1/27/98 |
| (5) | [illegible] | 3/2/98 | 4/4/98 | [illegible] | 3/2/98 |
| (6) | [illegible] | 4/6/98 | 5/8/98 | [illegible] | 4/6/98 |
| (7) | [illegible] | 5/11/98 | 6/12/98 | Kent Brakefield | 5/11/98 |
| (8) | [illegible] | 6/15/98 | 7/18/98 | Kent Brakefield | 6/15/98 |
| (9) | | | | | |
| (10) | | | | | |
| (11) | | | | | |

## ICAP - ICS SOLUTIONS

Notebook: 2 Page: 277

**ICS A** (2:277-1)

| Element | Manufacturer | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppm) |
|---|---|---|---|---|---|---|
| Al | High Purity | 721904 | 11/98 | 10000 | 25 | 500 |
| Ca | High Purity | 725801 | 11/98 | 10000 | 25 | 500 |
| Mg | High Purity | 719210 | 11/98 | 10000 | 25 | 500 |
| Fe | High Purity | 718905 | 11/98 | 10000 | 10 | 200 |

**ICS AB** (2:277-2)

ICS AB Solution is prepared like the ICS A Solution with the addition of 5mL of the High Purity "CLP Analyte Standard II" solution and the following anaytes.

| Element | Manufacturer | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppm) |
|---|---|---|---|---|---|---|
| As | High Purity | 803718 | 4/99 | 1000 | 0.5 | 1.0 |
| Sb | MV Labs | SBP11 | 10/98 | 1000 | 0.5 | 1.0 |
| Se | High Purity | 804416 | 4/99 | 1000 | 0.5 | 1.0 |
| Tl | High Purity | 800823 | 4/99 | 1000 | 0.5 | 1.0 |
| B | MV Labs | BP1K | 10/98 | 1000 | 0.25 | 0.5 |

"CLP Analyte Standard II" contains: 50ppm - Ba,Be,Co,Cr,Cu,Mn,V
(Lot # 726204, Expires: 04/99) 100ppm - Cd,Pb,Ag,Ni,Zn

**ICS AB-T** (2:277-3)

ICS AB-T Solution is prepared like the ICS A Solution with the addition of 5mL of the High Purity "CLP Analyte Standard II Trace" solution.

"CLP Analyte Standard II-Trace" contains:
(Lot: 705605, Expires: 11/98)

5ppm - Pb,Se
10ppm - As,Tl
20ppm - Ag
50ppm - Ba,Be,Cr,Co,Cu,Mn
60ppm - Sb
100ppm - Cd,Ni,Zn

Pipettes used: Rainin #F701408: 5,10, & 25mL Class "A" Volumetrics

ICS Solutions made to a final acid concentration of 5%(v/v) $HNO_3$ and 5%(v/v) HCl, and to a final volume of 500 mL in TYPE I water.

These solutions expire: 7/18/98 (Good for 33 days).

Stored at room temperature.

Prepared by: [signature] Date: 6/15/98 Read and understood by: [signature] Date: 6/15/98

**Mercury - Batch G91286**

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91286 Matrix: SOIL/SED

Analysis: G91286 = EPA 7471A (MOD)

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| ICV1 | ICV*QC*1 | G91286 | 00/00/00 | 00/00/00 | 06/23/98 | 1320 |
| ICB1 | ICB*QC*1 | G91286 | 00/00/00 | 00/00/00 | 06/23/98 | 1322 |
| CRA1 | CRA*QC*1 | G91286 | 00/00/00 | 00/00/00 | 06/23/98 | 1325 |
| LCS1 | LCS*QC*1 | G91286 | 00/00/00 | 00/00/00 | 06/23/98 | 1549 |
| SD-001 | TBRKS1*22 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1615 |
| SD-001MS | SPM1*TBRKS1*22 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1622 |
| SD-001MSD | SPM2*TBRKS1*22 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1625 |
| SD-101 | TBRKS1*23 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1627 |
| SD-002 | TBRKS1*24 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1630 |
| SD-003 | TBRKS1*25 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1632 |
| SD-008 | TBRKS1*26 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1634 |
| BK-001 | TBRKS1*30 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1637 |
| BK-002 | TBRKS1*31 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1639 |
| BK-003 | TBRKS1*32 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1641 |
| SS-009 | TBRKS1*33 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1643 |
| SS-010 | TBRKS1*34 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1651 |
| SS-011 | TBRKS1*35 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1653 |
| SS-011MS | SPM1*TBRKS1*35 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1655 |
| SS-011MSD | SPM2*TBRKS1*35 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1658 |
| S-111 | TBRKS1*36 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1700 |
| SS-012 | TBRKS1*37 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1702 |
| SS-013 | TBRKS1*38 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1705 |
| SD-006 | TBRKS1*53 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1707 |
| SD-007 | TBRKS1*54 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1709 |
| SS-001 | TBRKS1*55 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1712 |
| SS-001MS | SPM1*TBRKS1*55 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1719 |
| SS-001MSD | SPM2*TBRKS1*55 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1722 |
| SS-101 | TBRKS1*56 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1724 |
| SS-002 | TBRKS1*57 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1727 |
| SS-003 | TBRKS1*58 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1729 |
| SS-004 | TBRKS1*59 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1732 |
| SS-005 | TBRKS1*60 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1734 |
| SS-006 | TBRKS1*61 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1736 |
| SS-007 | TBRKS1*62 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1739 |
| SS-008 | TBRKS1*63 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1750 |
| SD-004 | TBRKS1*64 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1753 |
| SD-005 | TBRKS1*65 | G91286 | 05/28/98 | 06/02/98 | 06/23/98 | 1755 |
| ZO-001 | TBRKS1*17 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1758 |
| ZO-001MS | SPM1*TBRKS1*17 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1800 |
| ZO-001MSD | SPM2*TBRKS1*17 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1803 |
| ZO-101 | TBRKS1*18 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1806 |

Comments:
Full SDG: G91286-1 Sample List: TL.7

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91286 Matrix: SOIL/SED

Analysis: G91286 = EPA 7471A (MOD)

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| ZO-003 | TBRKS1*20 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1811 |
| ZO-004 | TBRKS1*21 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1813 |
| ZO-002 | TBRKS1*19 | G91286 | 05/29/98 | 06/02/98 | 06/23/98 | 1821 |

Comments:
Full SDG: G91286-1 Sample List: TL.7

Batch Narrative - G91286 Analysis: EPA 7471A (MOD)

Updated by 11114, 11114

PROBLEM:

Sample matrix spike duplicate not within acceptance criteria:

71921*7471-G

EXPLANATION: LACK OF SAMPLE HOMOGENEITY.

For: Barbara Seigler

Analyst [signature] DATE 6/25/98

Reviewer [signature] DATE 6/26/98

# Sample Data

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001

Lab Name: QST  Project No.: 1298522V  SDG No.: G91286

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*17

Sample wt/vol: .206. G  Lab File ID: G91286

%Moisture: 50.6  Dilution Factor: 10.0

Concentrated Extract Volume: .025 L  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/23/98

Time Analyzed: 1758  Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 15.9 | D10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-101

Lab Name: QST  Project No.: 1298522V  SDG No.: G91286

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*18

Sample wt/vol: .208. G  Lab File ID: G91286

%Moisture: 49.6  Dilution Factor: 10.0

Concentrated Extract Volume: .025 L  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/23/98

Time Analyzed: 1806  Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 15.5 | D10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-002

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*19

Sample wt/vol: .212. G Lab File ID: G91286

%Moisture: 49.8 Dilution Factor: 100

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1821 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 30.3 | D100 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-003

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*20

Sample wt/vol: .213. G Lab File ID: G91286

%Moisture: 12.8 Dilution Factor: 10.0

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1811 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 3.61 | D10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-004

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*21

Sample wt/vol: .232. G Lab File ID: G91286

%Moisture: 28.0 Dilution Factor: 20.0

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1813 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 20.7 | D20 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*22

Sample wt/vol: .201. G Lab File ID: G91286

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1615 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.380 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-101

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*23

Sample wt/vol: .240. G Lab File ID: G91286

%Moisture: 66.8 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1627 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.869 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-002

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*24

Sample wt/vol: .223. G Lab File ID: G91286

%Moisture: 58.4 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1630 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.261 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-003

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*25

Sample wt/vol: .204. G Lab File ID: G91286

%Moisture: 35.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1632 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.148 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-008

Lab Name: QST  Project No.: 1298522V  SDG No.: G91286

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*26

Sample wt/vol: .222. G  Lab File ID: G91286

%Moisture: 35.9  Dilution Factor: 1.00

Concentrated Extract Volume: .025 L  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/23/98

Time Analyzed: 1634  Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.080 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-001

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*30

Sample wt/vol: .240. G Lab File ID: G91286

%Moisture: 33.2 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1637 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.071 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-002

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*31

Sample wt/vol: .206. G Lab File ID: G91286

%Moisture: 24.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1639 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.037 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

BK-003

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*32

Sample wt/vol: .209. G Lab File ID: G91286

%Moisture: 24.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1641 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.033 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-009

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*33

Sample wt/vol: .221. G Lab File ID: G91286

%Moisture: 15.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1643 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.127 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-010

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*34

Sample wt/vol: .207. G Lab File ID: G91286

%Moisture: 33.6 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1651 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.191 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*35

Sample wt/vol: .208. G Lab File ID: G91286

%Moisture: 18.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1653 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.075 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-111

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*36

Sample wt/vol: .222. G Lab File ID: G91286

%Moisture: 14.9 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1700 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.059 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-012

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*37

Sample wt/vol: .211. G Lab File ID: G91286

%Moisture: 15.6 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1702 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.048 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-013

ab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*38

Sample wt/vol: .209. G Lab File ID: G91286

%Moisture: 19.9 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1705 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.037 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-006

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*53

Sample wt/vol: .207. G Lab File ID: G91286

%Moisture: 37.9 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1707 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.070 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-007

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*54

Sample wt/vol: .220. G Lab File ID: G91286

%Moisture: 37.9 Dilution Factor: 20.0

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1709 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 8.45 | D20 |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*55

Sample wt/vol: .203. G Lab File ID: G91286

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1712 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.459 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-101

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*56

Sample wt/vol: .229. G Lab File ID: G91286

%Moisture: 14.2 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1724 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.352 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-002

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*57

Sample wt/vol: .208. G Lab File ID: G91286

%Moisture: 5.2 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1727 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.199 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-003

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*58

Sample wt/vol: .208. G Lab File ID: G91286

%Moisture: 8.2 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1729 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.460 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-004

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*59

Sample wt/vol: .224. G Lab File ID: G91286

%Moisture: 17.7 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1732 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.399 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-005

Lab Name: QST  Project No.: 1298522V  SDG No.: G91286

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*60

Sample wt/vol: .238. G  Lab File ID: G91286

%Moisture: 16.9  Dilution Factor: 1.00

Concentrated Extract Volume: .025 L  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/23/98

Time Analyzed: 1734  Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.076 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-006

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*61

Sample wt/vol: .209. G Lab File ID: G91286

%Moisture: 18.5 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1736 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.102 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-007

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*62

Sample wt/vol: .208. G Lab File ID: G91286

%Moisture: 25.6 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1739 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.255 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-008

Lab Name: QST  Project No.: 1298522V  SDG No.: G91286

Matrix: (soil/water) SOIL/  Lab Sample ID: TBRKS1*63

Sample wt/vol: .206. G  Lab File ID: G91286

%Moisture: 27.3  Dilution Factor: 1.00

Concentrated Extract Volume: .025 L  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/23/98

Time Analyzed: 1750  Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.412 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-004

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*64

Sample wt/vol: .240. G Lab File ID: G91286

%Moisture: 48.9 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1753 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.057 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-005

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: TBRKS1*65

Sample wt/vol: .234. G Lab File ID: G91286

%Moisture: 59.0 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1755 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.102 | |

# QC Data

Client ID

ZO-001MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91286

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| MERCURY | 1.24 | 15.9 | 17.1 | 96.8 | 54-140 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| MERCURY | 1.23 | 16.3 | 32.5 * | 99.5 * | 43 | 54-140 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 1 outside limits
Spike Recovery: 1 out of 2 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*17

Sample wt/vol: .204. G Lab File ID: G91286

%Moisture: 50.6 Dilution Factor: 10.0

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1800 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 17.1 | D10 |

FORM 1
ANALYSIS DATA SHEET

Client ID

ZO-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*17

Sample wt/vol: .206. G Lab File ID: G91286

%Moisture: 50.6 Dilution Factor: 10.0

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1803 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 16.3 | D10 |

Client ID

SD-001MS

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91286

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| MERCURY | 1.69 | 0.380 | 2.18 | 106.5 | 54-140 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| MERCURY | 1.63 | 2.00 | 99.4 | 6.9 | 43 | 54-140 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*22

Sample wt/vol: .202. G Lab File ID: G91286

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1622 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 2.18 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*22

Sample wt/vol: .209. G Lab File ID: G91286

%Moisture: 63.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1625 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 2.00 | |

Client ID

SS-011MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91286

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| MERCURY | 0.754 | 0.075 | 0.815 | 98.1 | 54-140 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| MERCURY | 0.729 | 0.775 | 96.0 | 2.2 | 43 | 54-140 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011MS

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*35

Sample wt/vol: .203. G Lab File ID: G91286

%Moisture: 18.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1655 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.815 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-011MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*35

Sample wt/vol: .210. G Lab File ID: G91286

%Moisture: 18.3 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1658 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.775 | |

Client ID

SS-001MS

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91286

| COMPOUND | SPIKE ADDED (MG/KG) | SAMPLE CONCENTRATION (MG/KG) | MS CONCENTRATION (MG/KG) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| MERCURY | 0.669 | 0.459 | 1.03 | 85.4 | 54-140 |

| COMPOUND | SPIKE ADDED (MG/KG) | MSD CONCENTRATION (MG/KG) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| MERCURY | 0.682 | 1.18 | 105.7 | 21.2 | 43 | 54-140 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM1*TBRKS1*55

Sample wt/vol: .215. G Lab File ID: G91286

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1719 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 1.03 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-001MSD

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: SPM2*TBRKS1*55

Sample wt/vol: .211. G Lab File ID: G91286

%Moisture: 13.1 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 06/02/98

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1722 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 1.18 | |

Client ID

BLK2

# QST METHOD BLANK SUMMARY

Lab Name: QST  Project No: 1298522V  SDG No.: G91286

Lab Sample ID: MB*QC*1  Lab File ID: G91286

Matrix: SOIL/SED  Instrument ID: PS200

Date Analyzed: 06/23/98  Date Extracted: 06/23/98

Time Analysed: 1547

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| SD-001 | TBRKS1*22 | 06/23/98 |
| SD-001MS | SPM1*TBRKS1*22 | 06/23/98 |
| SD-001MSD | SPM2*TBRKS1*22 | 06/23/98 |
| SD-101 | TBRKS1*23 | 06/23/98 |
| SD-002 | TBRKS1*24 | 06/23/98 |
| SD-003 | TBRKS1*25 | 06/23/98 |
| SD-008 | TBRKS1*26 | 06/23/98 |
| BK-001 | TBRKS1*30 | 06/23/98 |
| BK-002 | TBRKS1*31 | 06/23/98 |
| BK-003 | TBRKS1*32 | 06/23/98 |
| SS-009 | TBRKS1*33 | 06/23/98 |
| SS-010 | TBRKS1*34 | 06/23/98 |
| SS-011 | TBRKS1*35 | 06/23/98 |
| SS-011MS | SPM1*TBRKS1*35 | 06/23/98 |
| SS-011MSD | SPM2*TBRKS1*35 | 06/23/98 |
| SS-111 | TBRKS1*36 | 06/23/98 |
| SS-012 | TBRKS1*37 | 06/23/98 |
| SS-013 | TBRKS1*38 | 06/23/98 |
| SD-006 | TBRKS1*53 | 06/23/98 |
| SD-007 | TBRKS1*54 | 06/23/98 |
| SS-001 | TBRKS1*55 | 06/23/98 |
| SS-001MS | SPM1*TBRKS1*55 | 06/23/98 |
| SS-001MSD | SPM2*TBRKS1*55 | 06/23/98 |
| SS-101 | TBRKS1*56 | 06/23/98 |
| SS-002 | TBRKS1*57 | 06/23/98 |
| SS-003 | TBRKS1*58 | 06/23/98 |

COMMENTS:



FORM IV QST

Client ID

BLK2

# QST METHOD BLANK SUMMARY

Lab Name: QST  Project No: 1298522V  SDG No.: G91286

Lab Sample ID: MB*QC*1  Lab File ID: G91286

Matrix: SOIL/SED  Instrument ID: PS200

Date Analyzed: 06/23/98  Date Extracted: 06/23/98

Time Analysed: 1547

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| SS-004 | TBRKS1*59 | 06/23/98 |
| SS-005 | TBRKS1*60 | 06/23/98 |
| SS-006 | TBRKS1*61 | 06/23/98 |
| SS-007 | TBRKS1*62 | 06/23/98 |
| SS-008 | TBRKS1*63 | 06/23/98 |
| SD-004 | TBRKS1*64 | 06/23/98 |
| SD-005 | TBRKS1*65 | 06/23/98 |
| ZO-001 | TBRKS1*17 | 06/23/98 |
| ZO-001MS | SPM1*TBRKS1*17 | 06/23/98 |
| ZO-001MSD | SPM2*TBRKS1*17 | 06/23/98 |
| ZO-101 | TBRKS1*18 | 06/23/98 |
| ZO-003 | TBRKS1*20 | 06/23/98 |
| ZO-004 | TBRKS1*21 | 06/23/98 |
| ZO-002 | TBRKS1*19 | 06/23/98 |

COMMENTS:

FORM 1
ANALYSIS DATA SHEET

Client ID

BLK2

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: MB*QC*1

Sample wt/vol: . G Lab File ID: G91286

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: L Date Received: 00/00/00

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1547 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.200 | U |

Client ID

REFERENCE STANDARD

LCS1

Lab Name: QST

SDG No: G91286

Lab Sample ID: LCS*QC*1

Date Analyzed: 06/23/98

Instrument ID: PS200

| Analyte | True (MG/KG) | Found (MG/KG) | # | %Recv | Limits % |
|---|---|---|---|---|---|
| MERCURY | 0.720 | 0.682 | | 94.7 | 85-125 |

# Column to be used to flag recovery outside of QC limits
* Values outside of QC limits

Comments:

FORM V QST

FORM 1
ANALYSIS DATA SHEET

Client ID

LCS1

Lab Name: QST Project No.: 1298522V SDG No.: G91286

Matrix: (soil/water) SOIL/ Lab Sample ID: LCS*QC*1

Sample wt/vol: .231. G Lab File ID: G91286

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: .025 L Date Received: 00/00/00

Injection Volume: Date Extracted: 06/23/98

Time Analyzed: 1549 Date Analyzed: 06/23/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS MG/KG | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.682 | |

Client ID

ICB1

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: ICB*QC*1 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.027 | J | 0.200 |



FORM VII QST

Client ID

CCB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*1 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.026 | J | 0.200 |



FORM VII QST

Client ID

CCB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*1 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.026 | J | 0.200 |



FORM VII QST

Client ID

CCB2

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*2 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.015 | J | 0.200 |



FORM VII QST

Client ID

CCB3

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*3 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | -.011 | J | 0.200 |



FORM VII QST

Client ID

CCB4

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*4 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.014 | J | 0.200 |



FORM VII QST

Client ID

CCB5

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*5 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.023 | J | 0.200 |



FORM VII QST

Client ID

CCB6

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*6 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.038 | J | 0.200 |



FORM VII QST

Client ID

CCB7

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*7 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.016 | J | 0.200 |



FORM VII QST

Client ID

CCB8

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91286

Lab Sample ID: CCB*QC*8 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.200 | U | 0.200 |



FORM VII QST

Client ID

ICV1

CALIBRATION VERIFICATION

Lab Name: QST Project No: 1298522V SDG No: G91286

Lab Sample ID: ICV*QC*1 Date Analyzed: 06/23/98

Instrument ID: PS200 Time Analyzed: 1320

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 5.10 | 5.00 | | 2.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*1  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1327

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.52 | 5.00 | | 9.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV2

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*2  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1542

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.88 | 5.00 | | 2.4 |

QC LIMITS:



FORM VIII QST

Client ID

CCV3

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*3  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1617

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.68 | 5.00 | | 6.4 |

QC LIMITS:



FORM VIII QST

Client ID

CCV4

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*4  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1646

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.87 | 5.00 | | 2.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV5

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*5  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1714

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.80 | 5.00 | | 4.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV6

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*6  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1745

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.77 | 5.00 | | 4.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV7

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*7  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1816

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.72 | 5.00 | | 5.6 |

QC LIMITS:



FORM VIII QST

Client ID

CCV8

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91286

Lab Sample ID: CCV*QC*8  Date Analyzed: 06/23/98

Instrument ID: PS200  Time Analyzed: 1827

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.73 | 5.00 | | 5.4 |

QC LIMITS:



FORM VIII QST

# CALIBRATION CURVES

Lab Name: QST

SDG #: G91286

Analyte: MERCURY

Instrument ID: PS200

| Curve # | Analysis Date | Concentration UG/L | Ug/l | Retention Time (min) | Correlation Coefficient |
|---|---|---|---|---|---|
| 1 | 06/23/98 | .000 | -204. | | |
| | | .200 | 3939. | | |
| | | .500 | 10607. | | |
| | | 1.00 | 17698. | | |
| | | 5.00 | 110737. | | |
| | | 10.0 | 215443. | | |
| | | | | | |

CURVE
#
1 CONC = + *RESP+ *RESP**2+ *RESP**3

Comments: _____

FORM II QST

**Raw Data**

MERCURY SAMPLE RUN LOG

Bk. No.: 48
Pg. # .: 102

Batch # G9128L Method: GLM1233-009 QC Type: FDER Lot # NA

Analyst: BARBARA SEIGLER Analysis Date 06/23/98
Instrument Parameters: Inst. model: PS200 Wavelength: 254.0 Det. Limit: 0.2
Calibration Curve: Calib. type: QUAD Corr. Coeff: 0.9997
Samples Analyzed: TBRKS1

Comments

| SEQ # | Sample I.D. | TIME | Conc. (ug/L) | Target (ug/L) | COMMENTS |
|---|---|---|---|---|---|
| | Std1 0.0 ppb | 13:04 | -204 | | |
| 1 | Std2 0.2 ppb | 13:07 | 3939 | | |
| 2 | Std3 0.5 ppb | 13:09 | 10607 | | |
| 3 | Std4 1.0 ppb | 13:11 | 17698 | | |
| 4 | Std5 5.0 ppb | 13:14 | 110737 | | |
| 5 | Std6 10.0 ppb | 13:16 | 215443 | | |
| 6 | ICV*QC*1 | 13:20 | 5.10 | 5.00 | 102.0 % REC |
| 7 | ICB*QC*1 | 13:22 | 0.03 | | |
| 8 | CRA*QC*1 | 13:25 | 0.26 | 0.20 | 128.0 % REC |
| 9 | CCV*QC*1 | 13:27 | 4.52 | 5.00 | 90.4 % REC |
| 10 | CCB*QC*1 | 13:29 | 0.03 | | |
| 55 | CCV*QC*2 | 15:42 | 4.88 | 5.00 | 97.6 % REC |
| 56 | CCB*QC*2 | 15:45 | 0.02 | | |
| 57 | MB*QC*1 | 15:47 | 0.05 | | |
| 58 | LCS*QC*1 | 15:49 | 6.30 | 5.76 | 109.4 % REC |
| 59 | TBRKS1*17 | 15:52 | 53.50 | | DILUTED AND RERAN |
| 60 | SPM1*TBRKS1*17 | 15:55 | 58.20 | | " |
| 61 | SPM2*TBRKS1*17 | 15:58 | 56.40 | | " |
| 62 | TBRKS1*18 | 16:02 | 55.10 | | " |
| 63 | TBRKS1*19 | 16:05 | 87.50 | | " |
| 64 | TBRKS1*20 | 16:09 | 26.10 | | " |
| 65 | TBRKS1*21 | 16:12 | 90.80 | | " |
| 66 | TBRKS1*22 | 16:15 | 1.12 | | |
| 67 | CCV*QC*3 | 16:17 | 4.68 | 5.00 | 93.6 % REC |
| 68 | CCB*QC*3 | 16:20 | -0.01 | | |
| 69 | SPM1*TBRKS1*22 | 16:22 | 6.45 | | |
| 70 | SPM2*TBRKS1*22 | 16:25 | 6.15 | | |
| 71 | TBRKS1*23 | 16:27 | 2.77 | | |
| 72 | TBRKS1*24 | 16:30 | 0.97 | | |
| 73 | TBRKS1*25 | 16:32 | 0.78 | | |
| 74 | TBRKS1*26 | 16:34 | 0.46 | | |
| 75 | TBRKS1*30 | 16:37 | 0.46 | | |
| 76 | TBRKS1*31 | 16:39 | 0.23 | | |
| 77 | TBRKS1*32 | 16:41 | 0.21 | | |
| 78 | TBRKS1*33 | 16:43 | 0.95 | | |
| 79 | CCV*QC*4 | 16:46 | 4.87 | 5.00 | 97.4 % REC |
| 80 | CCB*QC*4 | 16:48 | 0.01 | | |
| 81 | TBRKS1*34 | 16:51 | 1.05 | | |
| 82 | TBRKS1*35 | 16:53 | 0.51 | | |
| 83 | SPM1*TBRKS1*35 | 16:55 | 5.41 | | |
| 84 | SPM2*TBRKS1*35 | 16:58 | 5.32 | | |
| 85 | TBRKS1*36 | 17:00 | 0.45 | | |
| 86 | TBRKS1*37 | 17:02 | 0.34 | | |
| 87 | TBRKS1*38 | 17:05 | 0.25 | | |
| 88 | TBRKS1*53 | 17:07 | 0.36 | | |
| 89 | TBRKS1*54 1:20 | 17:09 | 2.31 | | |
| 90 | TBRKS1*55 | 17:12 | 3.24 | | |
| 91 | CCV*QC*5 | 17:14 | 4.80 | 5.00 | 96.0 % REC |
| 92 | CCB*QC*5 | 17:17 | 0.00 | | |
| 93 | SPM1*TBRKS1*55 | 17:19 | 7.70 | | |
| 94 | SPM2*TBRKS1*55 | 17:22 | 8.66 | | |

MERCURY SAMPLE RUN LOG

Bk. No.: 48 Pg. #.: 103

| Seq # | Sample I.D. | Time | Conc. (ug/L) | Target (ug/L) | Comments |
|---|---|---|---|---|---|
| 95 | TBRKS1*56 | 17:24 | 2.77 | | |
| 96 | TBRKS1*57 | 17:27 | 1.57 | | |
| 97 | TBRKS1*58 | 17:29 | 3.51 | | |
| 98 | TBRKS1*59 | 17:32 | 2.94 | | |
| 99 | TBRKS1*60 | 17:34 | 0.605 | | |
| 100 | TBRKS1*61 | 17:36 | 0.696 | | |
| 101 | TBRKS1*62 | 17:39 | 1.58 | | |
| 102 | TBRKS1*63 1:5 | 17:41 | 0.478 | | |
| 103 | CCV*QC*6 | 17:45 | 4.77 | 5.00 | 95.4 % REC |
| 104 | CCB*QC*6 | 17:48 | 0.038 | | |
| 105 | TBRKS1*63 | 17:50 | 2.47 | | |
| 106 | TBRKS1*64 | 17:53 | 0.28 | | |
| 107 | TBRKS1*65 | 17:55 | 0.393 | | |
| 108 | TBRKS1*17 1:10 | 17:58 | 6.49 | | |
| 109 | SPM1*TBRKS1*17 1:10 | 18:00 | 6.89 | | |
| 110 | SPM2*TBRKS1*17 1:10 | 18:03 | 6.63 | | |
| 111 | TBRKS1*18 1:10 | 18:06 | 6.48 | | |
| 112 | TBRKS1*19 1:10 | 18:08 | 12.2 | | DILUTED AND RERAN |
| 113 | TBRKS1*20 1:10 | 18:11 | 2.68 | | |
| 114 | TBRKS1*21 1:20 | 18:13 | 6.9 | | |
| 115 | CCV*QC*7 | 18:16 | 4.7 | 5.00 | 94.0 % REC |
| 116 | CCB*QC*7 | 18:18 | 0.016 | | |
| 117 | TBRKS1*19 1:100 | 18:21 | 1.29 | | |
| 118 | TBRKS1*19 1:20 | 18:24 | 6.4 | | RERAN FOR VERIFICATION ONLY |
| 119 | CCV*QC*8 | 18:27 | 4 | | |
| 120 | CCB*QC*8 | 18:30 | 0.026 | | |

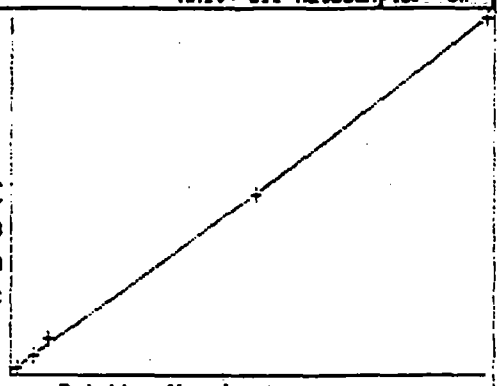
Protocol: clp SID
Rev: 3.001 Time: 13:17:38 23 Jun 1998
Folder: 62398 Seq: 6 Print: On
User: Batch: Id: Std6Repl Cup: 2 13 Gas: 0.30 LPM
State: Idle Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line: Hg

| | Conc. | Calc. | Dev. | Accepted liNear | |
|---|---|---|---|---|---|
| S1 | .000 | .058 | .058 | Quadratic | |
| S2 | .200 | .239 | .039 | WtdLinear | |
| S3 | .500 | .531 | .031 | | C |
| S4 | 1.00 | .843 | -.157 | Accept | o |
| S5 | 5.00 | 5.04 | .039 | | n |
| S6 | 10.0 | 9.99 | -.009 | StdAdd | c |

A 1.1080e-11 r .999799
B 4.36768e-5 C 6.65859e-2



Relative Absorbance

| | Mean | %RSD | |
|---|---|---|---|
| S1 | -204 | 0 | -204 |
| S2 | 3939 | 0 | 3939 |
| S3 | 10607 | 0 | 10607 |
| S4 | 17698 | 0 | 17698 |
| S5 | 110737 | 0 | 110737 |
| S6 | 215443 | 0 | 215443 |

New calibration coefficients stored

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Standard: 1 Rep: 1 Seq: 0 13:04:47 23 Jun 1998 HG

Hg .000 ppb -204
Ave. Int. = -204 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 13:07:08 23 Jun 1998 HG

Hg .200 ppb 3939
Ave. Int. = 3939 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 13:09:29 23 Jun 1998 HG

Hg .500 ppb 10607
Ave. Int. = 10607 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 13:11:51 23 Jun 1998 HG

Hg 1.00 ppb 17698
Ave. Int. = 17698 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 13:14:13 23 Jun 1998 HG

Hg 5.00 ppb 110737
Ave. Int. = 110737 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 13:16:48 23 Jun 1998 HG

Hg 10.0 ppb 215443
Ave. Int. = 215443 S. D. = 0

*** Check Standard: 5 Ck5 Seq: 6 13:20:10 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 102. | 5.10 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 7 13:22:41 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .027 | .200 | ppb | .000 |

*** Check Standard: 3 Ck3 Seq: 8 13:25:00 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 128. | .256 | .200 | ppb | .000 |

*** Check Standard: 2 Ck2 Seq: 9 13:27:20 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 90.3 | 4.52 | 5.00 | ppb | .000 |

sequence # 0-10, and 55-120 apply to this batch. All remaining numbers have been assigned to different batches.

BAL 6/24/98

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1 Seq: 10 13:29:51 23 Jun 1998 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .026 .200 ppb .000

*** Sample ID: Seq: 11 14:00:25 23 Jun 1998 HG
MB*QC*1
Hg .068 ppb .000 .068

*** Sample ID: Seq: 12 14:02:41 23 Jun 1998 HG
LCS*QC*1
Hg 5.46 ppb .000 5.46

*** Sample ID: Seq: 13 14:05:11 23 Jun 1998 HG
TLMS*15
Hg .139 ppb .000 .139

*** Sample ID: Seq: 14 14:07:27 23 Jun 1998 HG
TLMS*16
Hg .156 ppb .000 .156

*** Sample ID: Seq: 15 14:09:43 23 Jun 1998 HG
RP*TLMS*16
Hg .172 ppb .000 .172

*** Sample ID: Seq: 16 14:11:59 23 Jun 1998 HG
SPM1*TLMS*16
Hg 1.17 ppb .000 1.17

*** Sample ID: Seq: 17 14:14:17 23 Jun 1998 HG
TLMS*17
Hg .188 ppb .000 .188

*** Sample ID: Seq: 18 14:16:33 23 Jun 1998 HG
TLMS*18
Hg .171 ppb .000 .171

*** Sample ID: Seq: 19 14:18:50 23 Jun 1998 HG
TLMS*19
Hg .157 ppb .000 .157

*** Sample ID: Seq: 20 14:21:07 23 Jun 1998 HG
TLMS*20
Hg .182 ppb .000 .182

*** Check Standard: 2 Ck2 Seq: 21 14:23:26 23 Jun 1998 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 97.7 4.89 5.00 ppb .000

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 1 Ck1 Seq: 22 14:25:58 23 Jun 1998 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .022 .200 ppb .000

*** Sample ID: Seq: 23 14:28:15 23 Jun 1998 HG
TLMS*21
Hg .112 ppb .000 .112

*** Sample ID: Seq: 24 14:30:32 23 Jun 1998 HG
TLMS*22
Hg .156 ppb .000 .156

*** Sample ID: Seq: 25 14:32:46 23 Jun 1998 HG
TLMS*23
Hg .140 ppb .000 .140

*** Sample ID: Seq: 26 14:35:00 23 Jun 1998 HG
TLMS*24
Hg .201 ppb .000 .201

*** Sample ID: Seq: 27 14:37:14 23 Jun 1998 HG
TLMS*25
Hg .192 ppb .000 .192

*** Sample ID: Seq: 28 14:39:28 23 Jun 1998 HG
TLMS*26
Hg .105 ppb .000 .105

*** Sample ID: Seq: 29 14:41:42 23 Jun 1998 HG
TLMS*27
Hg .228 ppb .000 .228

*** Sample ID: Seq: 30 14:43:58 23 Jun 1998 HG
TLMS*28
Hg .201 ppb .000 .201

*** Sample ID: Seq: 31 14:46:13 23 Jun 1998 HG
TLMS*29
Hg .230 ppb .000 .230

*** Check Standard: 2 Ck2 Seq: 32 14:48:31 23 Jun 1998 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 96.6 4.83 5.00 ppb .000

*** Check Standard: 1 Ck1 Seq: 33 14:51:03 23 Jun 1998 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .021 .200 ppb .000

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 34 14:53:20 23 Jun 1998 HG
MB*QC*1
Hg .057 ppb .000 .057

*** Sample ID: Seq: 35 14:55:36 23 Jun 1998 HG
LCS*QC*1
Hg 6.33 ppb .000 6.33

*** Sample ID: Seq: 36 14:58:12 23 Jun 1998 HG
SDAS2*244
Hg .248 ppb .000 .248

*** Sample ID: Seq: 37 15:00:27 23 Jun 1998 HG
SDAS2*245
Hg .426 ppb .000 .426

*** Sample ID: Seq: 38 15:02:40 23 Jun 1998 HG
SDAS2*246
Hg .403 ppb .000 .403

*** Sample ID: Seq: 39 15:04:53 23 Jun 1998 HG
SDAS2*247
Hg .177 ppb .000 .177

*** Sample ID: Seq: 40 15:07:07 23 Jun 1998 HG
SDAS2*248
Hg .236 ppb .000 .236

*** Sample ID: Seq: 41 15:09:21 23 Jun 1998 HG
SDAS2*249
Hg .349 ppb .000 .349

*** Sample ID: Seq: 42 15:11:35 23 Jun 1998 HG
SDAS2*250
Hg .318 ppb .000 .318

*** Sample ID: Seq: 43 15:13:49 23 Jun 1998 HG
SDAS2*251
Hg .301 ppb .000 .301

*** Check Standard: 2 Ck2 Seq: 44 15:16:06 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 97.3 | 4.87 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 45 15:18:40 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .026 | .200 | ppb | .000 |

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  46     15:20:56 23 Jun 1998 HG
                              SDAS2*253
Hg    .330    ppb        .000      .330

*** Sample ID:                          Seq:  47     15:23:10 23 Jun 1998 HG
                              SDAS2*254
Hg    .319    ppb        .000      .319

*** Sample ID:                          Seq:  48     15:25:24 23 Jun 1998 HG
                              SDAS2*255
Hg    .268    ppb        .000      .268

*** Sample ID:                          Seq:  49     15:27:38 23 Jun 1998 HG
                              SDAS2*256
Hg    .342    ppb        .000      .342

*** Sample ID:                          Seq:  50     15:29:51 23 Jun 1998 HG
                              SDAS2*257
Hg    .347    ppb        .000      .347

*** Sample ID:                          Seq:  51     15:32:03 23 Jun 1998 HG
                              SDAS2*258
Hg    2.93    ppb        .000      2.93

*** Sample ID:                          Seq:  52     15:34:47 23 Jun 1998 HG
                              RP*SDAS2*258
Hg    2.84    ppb        .000      2.84

*** Sample ID:                          Seq:  53     15:37:31 23 Jun 1998 HG
                              SPM1*SDAS2*258
Hg    3.93    ppb        .000      3.93

*** Sample ID:                          Seq:  54     15:40:14 23 Jun 1998 HG
                              SDAS2*260
Hg    .290    ppb        .000      .290

*** Check Standard: 2  Ck2              Seq:  55     15:42:31 23 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.7    4.88    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  56     15:45:03 23 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .015     .200    ppb        .000

*** Sample ID:                          Seq:  57     15:47:19 23 Jun 1998 HG
                              MB*QC*1
Hg    .050    ppb        .000      .050
```

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 58 15:49:33 23 Jun 1998 HG
LCS*QC*1

| Hg | 6.30 | ppb | .000 | 6.30 |
|---|---|---|---|---|

*** Sample ID: Seq: 59 15:52:07 23 Jun 1998 HG
TBRKS1*17

| Hg | 53.5 | ppb | .000 | 53.5 |
|---|---|---|---|---|

above linear range; retan; see seq #108

*** Sample ID: Seq: 60 15:55:24 23 Jun 1998 HG
SPM1*TBRKS1*17

| Hg | 58.2 | ppb | .000 | 58.2 |
|---|---|---|---|---|

above linear range; retan; see seq #109

*** Sample ID: Seq: 61 15:58:47 23 Jun 1998 HG
SPM2*TBRKS1*17

| Hg | 56.4 | ppb | .000 | 56.4 |
|---|---|---|---|---|

above linear range; retan; see #110

*** Sample ID: Seq: 62 16:02:14 23 Jun 1998 HG
TBRKS1*18

| Hg | 55.1 | ppb | .000 | 55.1 |
|---|---|---|---|---|

above linear range; retan see #111

*** Sample ID: Seq: 63 16:05:33 23 Jun 1998 HG
TBRKS1*19

| Hg | 87.5 | ppb | .000 | 87.5 |
|---|---|---|---|---|

above linear range; retan; see seq #s 112

*** Sample ID: Seq: 64 16:09:02 23 Jun 1998 HG
TBRKS1*20

| Hg | 26.1 | ppb | .000 | 26.1 |
|---|---|---|---|---|

above linear range; retan; see seq #113

*** Sample ID: Seq: 65 16:12:02 23 Jun 1998 HG
TBRKS1*21

| Hg | 90.8 | ppb | .000 | 90.8 |
|---|---|---|---|---|

above linear range; retan see #114

*** Sample ID: Seq: 66 16:15:31 23 Jun 1998 HG
TBRKS1*22

| Hg | 1.12 | ppb | .000 | 1.12 |
|---|---|---|---|---|

*** Check Standard: 2 Ck2 Seq: 67 16:17:56 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 93.5 | 4.68 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 68 16:20:31 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | -.011 | .200 | ppb | .000 |

*** Sample ID: Seq: 69 16:22:49 23 Jun 1998 HG
SPM1*TBRKS1*22

| Hg | 6.45 | ppb | .000 | 6.45 |
|---|---|---|---|---|

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  70     16:25:24 23 Jun 1998 HG
                              SPM2*TBRKS1*22
Hg    6.15    ppb        .000      6.15

*** Sample ID:                          Seq:  71     16:27:56 23 Jun 1998 HG
                              TBRKS1*23
Hg    2.77    ppb        .000      2.77

*** Sample ID:                          Seq:  72     16:30:19 23 Jun 1998 HG
                              TBRKS1*24
Hg    .969    ppb        .000      .969

*** Sample ID:                          Seq:  73     16:32:35 23 Jun 1998 HG
                              TBRKS1*25
Hg    .784    ppb        .000      .784

*** Sample ID:                          Seq:  74     16:34:51 23 Jun 1998 HG
                              TBRKS1*26
Hg    .455    ppb        .000      .455

*** Sample ID:                          Seq:  75     16:37:06 23 Jun 1998 HG
                              TBRKS1*30
Hg    .458    ppb        .000      .458

*** Sample ID:                          Seq:  76     16:39:22 23 Jun 1998 HG
                              TBRKS1*31
Hg    .232    ppb        .000      .232

*** Sample ID:                          Seq:  77     16:41:38 23 Jun 1998 HG
                              TBRKS1*32
Hg    .206    ppb        .000      .206

*** Sample ID:                          Seq:  78     16:43:54 23 Jun 1998 HG
                              TBRKS1*33
Hg    .953    ppb        .000      .953

*** Check Standard: 2  Ck2              Seq:  79     16:46:14 23 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.3     4.87    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  80     16:48:48 23 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .014     .200     ppb        .000

*** Sample ID:                          Seq:  81     16:51:05 23 Jun 1998 HG
                              TBRKS1*34
Hg    1.05    ppb        .000      1.05
```

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  82     16:53:23 23 Jun 1998 HG
                              TBRKS1*35
Hg    .507    ppb        .000      .507

*** Sample ID:                          Seq:  83     16:55:39 23 Jun 1998 HG
                              SPM1*TBRKS1*35
Hg    5.41    ppb        .000      5.41

*** Sample ID:                          Seq:  84     16:58:09 23 Jun 1998 HG
                              SPM2*TBRKS1*35
Hg    5.32    ppb        .000      5.32

*** Sample ID:                          Seq:  85     17:00:38 23 Jun 1998 HG
                              TBRKS1*36
Hg    .448    ppb        .000      .448

*** Sample ID:                          Seq:  86     17:02:54 23 Jun 1998 HG
                              TBRKS1*37
Hg    .339    ppb        .000      .339

*** Sample ID:                          Seq:  87     17:05:11 23 Jun 1998 HG
                              TBRKS1*38
Hg    .246    ppb        .000      .246

*** Sample ID:                          Seq:  88     17:07:28 23 Jun 1998 HG
                              TBRKS1*53
Hg    .360    ppb        .000      .360

*** Sample ID:                          Seq:  89     17:09:46 23 Jun 1998 HG
                              TBRKS1*54
Hg    2.31    ppb        .000      2.31

*** Sample ID:                          Seq:  90     17:12:09 23 Jun 1998 HG
                              TBRKS1*55
Hg    3.24    ppb        .000      3.24

*** Check Standard: 2  Ck2              Seq:  91     17:14:41 23 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.9    4.80    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  92     17:17:15 23 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .023     .200    ppb        .000

*** Sample ID:                          Seq:  93     17:19:33 23 Jun 1998 HG
                              SPM1*TBRKS1*55
Hg    7.70    ppb        .000      7.70
```

1:20 dif

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 94 17:22:12 23 Jun 1998 HG
SPM2*TBRKS1*55
Hg 8.66 ppb .000 8.66

*** Sample ID: Seq: 95 17:24:51 23 Jun 1998 HG
TBRKS1*56
Hg 2.77 ppb .000 2.77

*** Sample ID: Seq: 96 17:27:16 23 Jun 1998 HG
TBRKS1*57
Hg 1.57 ppb .000 1.57

*** Sample ID: Seq: 97 17:29:39 23 Jun 1998 HG
TBRKS1*58
Hg 3.51 ppb .000 3.51

*** Sample ID: Seq: 98 17:32:07 23 Jun 1998 HG
TBRKS1*59
Hg 2.94 ppb .000 2.94

*** Sample ID: Seq: 99 17:34:36 23 Jun 1998 HG
TBRKS1*60
Hg .605 ppb .000 .605

*** Sample ID: Seq: 100 17:36:54 23 Jun 1998 HG
TBRKS1*61
Hg .696 ppb .000 .696

*** Sample ID: Seq: 101 17:39:12 23 Jun 1998 HG
TBRKS1*62
Hg 1.58 ppb .000 1.58

*** Sample ID: Seq: 102 17:41:37 23 Jun 1998 HG
TBRKS1*63
Hg .478 ppb .000 .478

1:5 dil; Too low; retan; see seq# 105

*** Check Standard: 2 Ck2 Seq: 103 17:45:46 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 95.4 | 4.77 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 104 17:48:34 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .038 | .200 | ppb | .000 |

*** Sample ID: Seq: 105 17:50:54 23 Jun 1998 HG
TBRKS1*63
Hg 2.47 ppb .000 2.47

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 106 17:53:23 23 Jun 1998 HG
TBRKS1*64
Hg .280 ppb .000 .280

*** Sample ID: Seq: 107 17:55:42 23 Jun 1998 HG
TBRKS1*65
Hg .393 ppb .000 .393
~~1:10 dil~~ WI BAL 4/23/98

*** Sample ID: Seq: 108 17:58:16 23 Jun 1998 HG
TBRKS1*17
Hg 6.49 ppb .000 6.49
1:10 dil

*** Sample ID: Seq: 109 18:00:51 23 Jun 1998 HG
SPM1*TBRKS1*17
Hg 6.89 ppb .000 6.89
1:10 dil

*** Sample ID: Seq: 110 18:03:26 23 Jun 1998 HG
SPM2*TBRKS1*17
Hg 6.63 ppb .000 6.63
1:10 dil

*** Sample ID: Seq: 111 18:06:01 23 Jun 1998 HG
TBRKS1*18
Hg 6.48 ppb .000 6.48
1:10 dil

*** Sample ID: Seq: 112 18:08:36 23 Jun 1998 HG
TBRKS1*19
Hg 12.2 ppb .000 12.2
1:10 dil, above linear rng; detect; see seq# 117 + 118

*** Sample ID: Seq: 113 18:11:15 23 Jun 1998 HG
TBRKS1*20
Hg 2.68 ppb .000 2.68
1:10 dil

*** Sample ID: Seq: 114 18:13:39 23 Jun 1998 HG
TBRKS1*21
Hg 6.90 ppb .000 6.90
1:20 dil

*** Check Standard: 2 Ck2 Seq: 115 18:16:16 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 94.4 | 4.72 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 116 18:18:48 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .016 | .200 | ppb | .000 |

*** Sample ID: Seq: 117 18:21:05 23 Jun 1998 HG
TBRKS1*19
Hg 1.29 ppb .000 1.29
1:100 dil

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 118 18:24:48 23 Jun 1998 HG
TBRKS1*19
Hg 6.40 ppb .000 6.40 rerun for verification; 1:20 dil

*** Check Standard: 2 Ck2 Seq: 119 18:27:26 23 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 94.7 | 4.73 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 120 18:30:01 23 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .026 | .200 | ppb | .000 |

# Other Relevant Documentation

QST BATCH : G91286

QC TYPE : FDER/SW
ANALYST : MARSHALL SEIGLER
EXTRACTOR : MARSHALL SEIGLER
DATA ENTRY : PS200 UPLOAD

REPORT DATE/TIME : 06/25/98 22:09
ANALYSIS DATE/TIME : 06/23/98
EXTRACT DATE : 06/23/98

STATUS : ACTIVE

METHOD BLANK CORRECTION METHOD : NONE

| FIELD GRP | QC TYPE | PROJECT NUMBER | PROJECT NAME | LAB COORDINATOR |
|---|---|---|---|---|
| TBRKS1 | FDER | 1298522V L204 | TECHLAN BRICK PROJ | ANDREW WEITZ |

Sample Specific Raw Data

| SAMPLE CODE | EXTRACT DATE | ANALYSIS DATE | ANALYSIS TIME | SAMPLE WEIGHT (G) | EXTRACT VOLUME (L) | INJECTION VOLUME (NA) | %MOISTURE |
|---|---|---|---|---|---|---|---|
| ICV*QC*1 | 06/23/98 | 06/23/98 | 01:20PM | | | | |
| ICB*QC*1 | 06/23/98 | 06/23/98 | 01:22PM | | | | |
| CRA*QC*1 | 06/23/98 | 06/23/98 | 01:25PM | | | | |
| CCV*QC*1 | 06/23/98 | 06/23/98 | 01:27PM | | | | |
| CCB*QC*1 | 06/23/98 | 06/23/98 | 01:29PM | | | | |
| CCV*QC*2 | 06/23/98 | 06/23/98 | 03:42PM | | | | |
| CCB*QC*2 | 06/23/98 | 06/23/98 | 03:45PM | | | | |
| MB*QC*1 | 06/23/98 | 06/23/98 | 03:47PM | | | | |
| MB*QC*2 | 06/23/98 | 06/23/98 | 02:00PM | | | | |
| LCS*QC*1 | 06/23/98 | 06/23/98 | 03:49PM | .231 | .025 | | |
| DA*TBRKS1*17 | 06/23/98 | 06/23/98 | 05:58PM | .206 | .025 | | 50.6 |
| SPM1*TBRKS1*17 | 06/23/98 | 06/23/98 | 06:00PM | .204 | .025 | | 50.6 |
| SPM2*TBRKS1*17 | 06/23/98 | 06/23/98 | 06:03PM | .206 | .025 | | 50.6 |
| DA*TBRKS1*18 | 06/23/98 | 06/23/98 | 06:06PM | .208 | .025 | | 49.6 |
| DA*TBRKS1*19 | 06/23/98 | 06/23/98 | 06:21PM | .212 | .025 | | 49.8 |
| DA*TBRKS1*20 | 06/23/98 | 06/23/98 | 06:11PM | .213 | .025 | | 12.8 |
| DA*TBRKS1*21 | 06/23/98 | 06/23/98 | 06:13PM | .232 | .025 | | 28.0 |
| DA*TBRKS1*22 | 06/23/98 | 06/23/98 | 04:15PM | .201 | .025 | | 63.3 |
| CCV*QC*3 | 06/23/98 | 06/23/98 | 04:17PM | | | | |
| CCB*QC*3 | 06/23/98 | 06/23/98 | 04:20PM | | | | |
| SPM1*TBRKS1*22 | 06/23/98 | 06/23/98 | 04:22PM | .202 | .025 | | 63.3 |
| SPM2*TBRKS1*22 | 06/23/98 | 06/23/98 | 04:25PM | .209 | .025 | | 63.3 |
| DA*TBRKS1*23 | 06/23/98 | 06/23/98 | 04:27PM | .240 | .025 | | 66.8 |
| DA*TBRKS1*24 | 06/23/98 | 06/23/98 | 04:30PM | .223 | .025 | | 58.4 |
| DA*TBRKS1*25 | 06/23/98 | 06/23/98 | 04:32PM | .204 | .025 | | 35.3 |
| DA*TBRKS1*26 | 06/23/98 | 06/23/98 | 04:34PM | .222 | .025 | | 35.9 |
| DA*TBRKS1*30 | 06/23/98 | 06/23/98 | 04:37PM | .240 | .025 | | 33.2 |
| DA*TBRKS1*31 | 06/23/98 | 06/23/98 | 04:39PM | .206 | .025 | | 24.3 |
| DA*TBRKS1*32 | 06/23/98 | 06/23/98 | 04:41PM | .209 | .025 | | 24.3 |
| DA*TBRKS1*33 | 06/23/98 | 06/23/98 | 04:43PM | .221 | .025 | | 15.3 |
| CCV*QC*4 | 06/23/98 | 06/23/98 | 04:46PM | | | | |
| CCB*QC*4 | 06/23/98 | 06/23/98 | 04:48PM | | | | |
| DA*TBRKS1*34 | 06/23/98 | 06/23/98 | 04:51PM | .207 | .025 | | 33.6 |
| DA*TBRKS1*35 | 06/23/98 | 06/23/98 | 04:53PM | .208 | .025 | | 18.3 |
| SPM1*TBRKS1*35 | 06/23/98 | 06/23/98 | 04:55PM | .203 | .025 | | 18.3 |
| SPM2*TBRKS1*35 | 06/23/98 | 06/23/98 | 04:58PM | .210 | .025 | | 18.3 |
| DA*TBRKS1*36 | 06/23/98 | 06/23/98 | 05:00PM | .222 | .025 | | 14.9 |
| DA*TBRKS1*37 | 06/23/98 | 06/23/98 | 05:02PM | .211 | .025 | | 15.6 |
| DA*TBRKS1*38 | 06/23/98 | 06/23/98 | 05:05PM | .209 | .025 | | 19.9 |
| DA*TBRKS1*53 | 06/23/98 | 06/23/98 | 05:07PM | .207 | .025 | | 37.9 |
| DA*TBRKS1*54 | 06/23/98 | 06/23/98 | 05:09PM | .220 | .025 | | 37.9 |
| DA*TBRKS1*55 | 06/23/98 | 06/23/98 | 05:12PM | .203 | .025 | | 13.1 |
| CCV*QC*5 | 06/23/98 | 06/23/98 | 05:14PM | | | | |
| CCB*QC*5 | 06/23/98 | 06/23/98 | 05:17PM | | | | |
| SPM1*TBRKS1*55 | 06/23/98 | 06/23/98 | 05:19PM | .215 | .025 | | 13.1 |
| SPM2*TBRKS1*55 | 06/23/98 | 06/23/98 | 05:22PM | .211 | .025 | | 13.1 |
| DA*TBRKS1*56 | 06/23/98 | 06/23/98 | 05:24PM | .229 | .025 | | 14.2 |
| DA*TBRKS1*57 | 06/23/98 | 06/23/98 | 05:27PM | .208 | .025 | | 5.2 |
| DA*TBRKS1*58 | 06/23/98 | 06/23/98 | 05:29PM | .208 | .025 | | 8.2 |
| DA*TBRKS1*59 | 06/23/98 | 06/23/98 | 05:32PM | .224 | .025 | | 17.7 |
| DA*TBRKS1*60 | 06/23/98 | 06/23/98 | 05:34PM | .238 | .025 | | 16.9 |
| DA*TBRKS1*61 | 06/23/98 | 06/23/98 | 05:36PM | .209 | .025 | | 18.5 |
| DA*TBRKS1*62 | 06/23/98 | 06/23/98 | 05:39PM | .208 | .025 | | 25.6 |
| DA*TBRKS1*63 | 06/23/98 | 06/23/98 | 05:50PM | .206 | .025 | | 27.3 |
| CCV*QC*6 | 06/23/98 | 06/23/98 | 05:45PM | | | | |
| CCB*QC*6 | 06/23/98 | 06/23/98 | 05:48PM | | | | |
| DA*TBRKS1*64 | 06/23/98 | 06/23/98 | 05:53PM | .240 | .025 | | 48.9 |
| DA*TBRKS1*65 | 06/23/98 | 06/23/98 | 05:55PM | .234 | .025 | | 59.0 |
| CCV*QC*7 | 06/23/98 | 06/23/98 | 06:16PM | | | | |

| | | | |
|---|---|---|---|
| CCB*QC*7 | 06/23/98 | 06/23/98 | 06:18PM |
| CCV*QC*8 | 06/23/98 | 06/23/98 | 06:27PM |
| CCB*QC*8 | 06/23/98 | 06/23/98 | 06:30PM |

Parameter Specific Raw Data

| SAMPLE CODE | STORET METHOD | STAT | RESP (UG/L) | UNC CONC (UG/L) | DIL | TYPE | CRV | RET TIME | SPIKE SOL CONC (UG/L) | SPIKE SAMP VOL (NA) | SPIKE VOLUME (NA) | DIL CODE | CALC'D TARGET (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICV*QC*1 | 71921*7471-G | OK | 5.10 | 5.10 | | | | | | | | | 5 |
| ICB*QC*1 | 71921*7471-G | OK | .027 | 0.027 | | | | | | | | | |
| CRA*QC*1 | 71921*7471-G | OK | .256 | 0.256 | | | | | | | | | 0.2 |
| CCV*QC*1 | 71921*7471-G | OK | 4.52 | 4.52 | | | | | | | | | 5 |
| CCB*QC*1 | 71921*7471-G | OK | .026 | 0.026 | | | | | | | | | |
| CCV*QC*2 | 71921*7471-G | OK | 4.88 | 4.88 | | | | | | | | | 5 |
| CCB*QC*2 | 71921*7471-G | OK | .015 | 0.015 | | | | | | | | | |
| MB*QC*1 | 71921*7471-G | OK | 0 | 0.0 | | | | | | | | | |
| MB*QC*2 | 71921*7471-G | OK | 0 | 0.0 | | | | | | | | | |
| LCS*QC*1 | 71921*7471-G | OK | 6.30 | 6.30 | | | | | | | | | .72 |
| DA*TBRKS1*17 | 71921*7471-G | OK | 6.49 | 64.9 | 10 | | | | | | | | |
| SPM1*TBRKS1*17 | 71921*7471-G | OK | 6.89 | 68.9 | 10 | | | | 5 | | | C | 1.2404 |
| SPM2*TBRKS1*17 | 71921*7471-G | OK | 6.63 | 66.3 | 10 | | | | 5 | | | C | 1.2283 |
| DA*TBRKS1*18 | 71921*7471-G | OK | 6.48 | 64.8 | 10 | | | | | | | | |
| DA*TBRKS1*19 | 71921*7471-G | OK | 1.29 | 129 | 100 | | | | | | | | |
| DA*TBRKS1*20 | 71921*7471-G | OK | 2.68 | 26.8 | 10 | | | | | | | | |
| DA*TBRKS1*21 | 71921*7471-G | OK | 6.90 | 138 | 20 | | | | | | | | |
| DA*TBRKS1*22 | 71921*7471-G | OK | 1.12 | 1.12 | | | | | | | | | |
| CCV*QC*3 | 71921*7471-G | OK | 4.68 | 4.68 | | | | | | | | | 5 |
| CCB*QC*3 | 71921*7471-G | OK | -.011 | -.011 | | | | | | | | | |
| SPM1*TBRKS1*22 | 71921*7471-G | OK | 6.45 | 6.45 | | | | | 5 | | | C | 1.6861 |
| SPM2*TBRKS1*22 | 71921*7471-G | OK | 6.15 | 6.15 | | | | | 5 | | | C | 1.6297 |
| DA*TBRKS1*23 | 71921*7471-G | OK | 2.77 | 2.77 | | | | | | | | | |
| DA*TBRKS1*24 | 71921*7471-G | OK | .969 | 0.969 | | | | | | | | | |
| DA*TBRKS1*25 | 71921*7471-G | OK | .784 | 0.784 | | | | | | | | | |
| DA*TBRKS1*26 | 71921*7471-G | OK | .455 | 0.455 | | | | | | | | | |
| DA*TBRKS1*30 | 71921*7471-G | OK | .458 | 0.458 | | | | | | | | | |
| DA*TBRKS1*31 | 71921*7471-G | OK | .232 | 0.232 | | | | | | | | | |
| DA*TBRKS1*32 | 71921*7471-G | OK | .206 | 0.206 | | | | | | | | | |
| DA*TBRKS1*33 | 71921*7471-G | OK | .953 | 0.953 | | | | | | | | | |
| CCV*QC*4 | 71921*7471-G | OK | 4.87 | 4.87 | | | | | | | | | 5 |
| CCB*QC*4 | 71921*7471-G | OK | .014 | 0.014 | | | | | | | | | |
| DA*TBRKS1*34 | 71921*7471-G | OK | 1.05 | 1.05 | | | | | | | | | |
| DA*TBRKS1*35 | 71921*7471-G | OK | .507 | 0.507 | | | | | | | | | |
| SPM1*TBRKS1*35 | 71921*7471-G | OK | 5.41 | 5.41 | | | | | 5 | | | C | 0.75369 |
| SPM2*TBRKS1*35 | 71921*7471-G | OK | 5.32 | 5.32 | | | | | 5 | | | C | 0.72857 |
| DA*TBRKS1*36 | 71921*7471-G | OK | .448 | 0.448 | | | | | | | | | |
| DA*TBRKS1*37 | 71921*7471-G | OK | .339 | 0.339 | | | | | | | | | |
| DA*TBRKS1*38 | 71921*7471-G | OK | .246 | 0.246 | | | | | | | | | |
| DA*TBRKS1*53 | 71921*7471-G | OK | .360 | 0.360 | | | | | | | | | |
| DA*TBRKS1*54 | 71921*7471-G | OK | 2.31 | 46.2 | 20 | | | | | | | | |
| DA*TBRKS1*55 | 71921*7471-G | OK | 3.24 | 3.24 | | | | | | | | | |
| CCV*QC*5 | 71921*7471-G | OK | 4.80 | 4.80 | | | | | | | | | 5 |
| CCB*QC*5 | 71921*7471-G | OK | .023 | 0.023 | | | | | | | | | |
| SPM1*TBRKS1*55 | 71921*7471-G | OK | 7.70 | 7.70 | | | | | 5 | | | C | 0.66904 |
| SPM2*TBRKS1*55 | 71921*7471-G | OK | 8.66 | 8.66 | | | | | 5 | | | C | 0.68172 |
| DA*TBRKS1*56 | 71921*7471-G | OK | 2.77 | 2.77 | | | | | | | | | |
| DA*TBRKS1*57 | 71921*7471-G | OK | 1.57 | 1.57 | | | | | | | | | |
| DA*TBRKS1*58 | 71921*7471-G | OK | 3.51 | 3.51 | | | | | | | | | |
| DA*TBRKS1*59 | 71921*7471-G | OK | 2.94 | 2.94 | | | | | | | | | |
| DA*TBRKS1*60 | 71921*7471-G | OK | .605 | 0.605 | | | | | | | | | |
| DA*TBRKS1*61 | 71921*7471-G | OK | .696 | 0.696 | | | | | | | | | |
| DA*TBRKS1*62 | 71921*7471-G | OK | 1.58 | 1.58 | | | | | | | | | |
| DA*TBRKS1*63 | 71921*7471-G | OK | 2.47 | 2.47 | | | | | | | | | |
| CCV*QC*6 | 71921*7471-G | OK | 4.77 | 4.77 | | | | | | | | | 5 |
| CCB*QC*6 | 71921*7471-G | OK | .038 | 0.038 | | | | | | | | | |
| DA*TBRKS1*64 | 71921*7471-G | OK | 280 | 0.280 | | | | | | | | | |
| DA*TBRKS1*65 | 71921*7471-G | OK | .393 | 0.393 | | | | | | | | | |
| CCV*QC*7 | 71921*7471-G | OK | 4.72 | 4.72 | | | | | | | | | 5 |
| CCB*QC*7 | 71921*7471-G | OK | .016 | 0.016 | | | | | | | | | |
| CCV*QC*8 | 71921*7471-G | OK | 4.73 | 4.73 | | | | | | | | | 5 |
| CCB*QC*8 | 71921*7471-G | OK | | 0.0 | | | | | | | | | |

HOLDING TIMES CHECK

| SAMPLE | ANALYTE | ANL DATE | EXT DATE | SMP DATE | H.T. OVER |
|---|---|---|---|---|---|

ALL HOLDING TIMES MET

STORET: 71921 METHOD: 7471-G MERCURY, MG/KG-DRY FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 0.2 DATE: 06/23/98 LARGEST RESP= %RSD=

| | | | | | | |
|---|---|---|---|---|---|---|
| CONC : | .000 | .200 | .500 | 1.00 | 5.00 | 10.0 |
| RESP : | -204 | 3939 | 10607 | 17698 | 110737 | 215443 |
| CONC': | | | | | | |

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |
| QC*2 | 0.0 |

CONTINUING CALIBRATION BLANK(S)

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.026 | 0.2 |
| QC*2 | 0.015 | 0.2 |
| QC*3 | -.011 | 0.2 |
| QC*4 | 0.014 | 0.2 |
| QC*5 | 0.023 | 0.2 |
| QC*6 | 0.038 | 0.2 |
| QC*7 | 0.016 | 0.2 |
| QC*8 | 0.0 | 0.2 |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 4.52 | 5.00 | -9.6 |
| QC*2 | 4.88 | 5.00 | -2.4 |
| QC*3 | 4.68 | 5.00 | -6.4 |
| QC*4 | 4.87 | 5.00 | -2.6 |
| QC*5 | 4.80 | 5.00 | -4.0 |
| QC*6 | 4.77 | 5.00 | -4.6 |
| QC*7 | 4.72 | 5.00 | -5.6 |
| QC*8 | 4.73 | 5.00 | -5.4 |

CRDL Solution (Certified Reporting AA Analysis) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | RECOVERY |
|---|---|---|---|
| QC*1 | 0.256 | 0.200 | 128.0 |

INITIAL CALIBRATION BLANK(S)

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.027 | 0.2 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 5.10 | 5.00 | 2.0 |

LABORATORY CONTROL SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | % RECOVERY |
|---|---|---|---|
| QC*1 | 0.682 | 0.720 | 94.7 |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. | |
|---|---|---|---|---|---|---|---|
| SPM1*TBRKS1*17 | 15.9 | 17.1 | 1.20 | 1.24 | 96.8 | | |
| SPM2*TBRKS1*17 | 15.9 | 16.3 | 0.400 | 1.23 | 32.5 | 99.5 | Relative Percent Difference exceeds criteria (>43) |
| SPM1*TBRKS1*22 | 0.380 | 2.18 | 1.80 | 1.69 | 106.5 | | |
| SPM2*TBRKS1*22 | 0.380 | 2.00 | 1.62 | 1.63 | 99.4 | 6.9 | |
| SPM1*TBRKS1*35 | 0.075 | 0.815 | 0.740 | 0.754 | 98.1 | | |
| SPM2*TBRKS1*35 | 0.075 | 0.775 | 0.700 | 0.729 | 96.0 | 2.2 | |
| SPM1*TBRKS1*55 | 0.459 | 1.03 | 0.571 | 0.669 | 85.4 | | |
| SPM2*TBRKS1*55 | 0.459 | 1.18 | 0.721 | 0.682 | 105.7 | 21.2 | |

71921
7471
MERCURY

| SAMPLE ID | MG/KG-DRY |
|---|---|
| MB*QC*1 | 0.0 |
| MB*QC*2 | 0.0 |
| TBRKS1*17 | 15.9 |
| TBRKS1*18 | 15.5 |
| TBRKS1*19 | 30.3 |
| TBRKS1*20 | 3.61 |
| TBRKS1*21 | 20.7 |
| TBRKS1*22 | 0.380 |
| TBRKS1*23 | 0.869 |
| TBRKS1*24 | 0.261 |
| TBRKS1*25 | 0.148 |
| TBRKS1*26 | 0.080 |
| TBRKS1*30 | 0.071 |
| TBRKS1*31 | 0.037 |
| TBRKS1*32 | 0.033 |
| TBRKS1*33 | 0.127 |
| TBRKS1*34 | 0.191 |
| TBRKS1*35 | 0.075 |
| TBRKS1*36 | 0.059 |
| TBRKS1*37 | 0.048 |
| TBRKS1*38 | 0.037 |
| TBRKS1*53 | 0.070 |
| TBRKS1*54 | 8.45 |
| TBRKS1*55 | 0.459 |
| TBRKS1*56 | 0.352 |
| TBRKS1*57 | 0.199 |
| TBRKS1*58 | 0.460 |
| TBRKS1*59 | 0.399 |
| TBRKS1*60 | 0.076 |
| TBRKS1*61 | 0.102 |
| TBRKS1*62 | 0.255 |
| TBRKS1*63 | 0.412 |
| TBRKS1*64 | 0.057 |
| TBRKS1*65 | 0.102 |

## UNITS AND EXAMPLE CALCULATIONS

| UNITS ENTERED | |
|---|---|
| FINAL CONCENTRATION | MG/KG-DRY |
| INJECTION VOLUME | NA |
| SAMPLE VOLUME | G |
| EXTRACT VOLUME | L |
| CURVE CONCENTRATION | UG/L |
| SPIKE SOLN CONCENTRATION | UG/L |
| SPIKE VOLUME | NA |
| SPIKE SAMPLE VOLUME | NA |
| TARGET CONCENTRATION | UG/L |
| RESPONSE DESCRIPTION | UG/L |
| CONVERSION FACTOR | 1 |

FINAL CONC = CURV CONC * EXT VOL * DIL * 1 / (INJ VOL * SAMP VOL * ((100 - %MOISTURE) / 100))

MG/KG-DRY = (UG/L) * (L) * 1 / (NA) * (G)

( 15.9 mg/kg ) = ( 6.49 ug/L * ( 0.025 L ) * ( 10 ) ) / ( ( NA ) * ( 0.206 g ) * ((100 - ( 50.6 )) / 100))

TBRKS1 * 17
JMF
6/25/98

TARGET CONC = SPIKE SOLN CONC * SPIKE VOL / (SPIKE SAMP VOL * ((100 - %MOISTURE) / 100))

UG/L = (UG/L) * (NA) / (NA)

QST Environmental Analytical Services
Computer QC Checks

Batch No.: G91286 Analysis Date: 06/23/98 Analyst: MARSHALL SEIGLER Report Date: 06/25/98

| | Yes | "Exceptions" No | See Batch Comments |
|---|---|---|---|
| Are ALL units documented in batch? | X | | |
| Analysis holding time within criteria? | X | | |
| CCB present? | X | | |
| CCB within acceptance criteria? | X | | |
| CCV present? | X | | |
| CCV within acceptance criteria? | X | | |
| ICB present? | X | | |
| ICB within acceptance criteria? | X | | |
| ICV present? | X | | |
| ICV within acceptance criteria? | X | | |
| LCS present? | X | | |
| LCS within acceptance criteria? | X | | |
| Method blank present? | X | | |
| Method blank within acceptance criteria? | X | | |
| Sample matrix spike present? | X | | |
| Sample matrix spike within acceptance criteria? | X | | |
| Sample matrix spike duplicate present? | X | | |
| Sample matrix spike duplicate within acceptance criteria? | | X | 71921*7471-G |

Note: Any "NO" answer requires a comment.

QST Environmental Analytical Services
Internal QA/QC Batch Checklist For Atomic Spectroscopy

Batch No.: G91286 Analysis Date: 06/23/98 Analyst: MARSHALL SEIGLER

| | N/A | Yes | No | "Exceptions" Comment/Corrective Action |
|---|---|---|---|---|
| Is the method blank free of contamination? | | ✓ | | |
| If not, has the data been blank corrected? | ✓ | | | |
| Are reported values consistent with the required units? | | ✓ | | |
| Are detection limits reported correctly? | | ✓ | | |
| Are dilution factors entered correctly? | | ✓ | | |
| Is the calibration curve (if applicable) entered correctly? | | ✓ | | |
| Is the curve correlation coefficient >= 0.995 ? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are all the correct elements included in the spikes? | | ✓ | | |
| Is the batch checked for data entry error(s)? | | ✓ | | |
| Are continuing calibration blanks analyzed at a frequency specified in the appropriate QA/QC Plan (i.e. AF, COE or FDER QA/QC plan)? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are continuing calibration verification (CCV) standards analyzed at a frequency specified in the appropriate QA/QC Plan? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Is an example calculation provided? | | ✓ | | |
| Has the batch documentation checklist been completed?. | | ✓ | | |
| Were the first extracts/digests prepped from this sample used for sample analysis? | ✓ | ✓ | | |
| If not, is an appropriate explanation provided? | | | | |

Note: Any "NO" answer requires a comment.
Additional Comments:

Completed By [signature] Reviewed By [signature]
Date 6/25/98 Date 6/26/98

Notification of appropriate Laboratory Coordinators required for "Exceptions":

| Signature | Date | Comments |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

BATCH OVERRIDE BY:

FINALIZED BY:

RAW DATA DOCUMENTATION FOR %MOISTURE USED TO CONVERT ANALYTICAL DATA TO DRY WEIGHT

| SAMPLE ID | PAN WEIGHT (GM) | PAN+SAMPLE WEIGHT-WET (GM) | PAN+SAMPLE WEIGHT-DRY (GM) | %MOISTURE (%WET WT) | QST BATCH | ANALYSIS DATE | NOTEBOOK REFERENCE |
|---|---|---|---|---|---|---|---|
| TBRKS1*17 | 1.30520 | 8.40910 | 4.81640 | 50.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*18 | 1.28260 | 9.27120 | 5.30510 | 49.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*19 | 1.29010 | 7.00590 | 4.15920 | 49.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*20 | 1.28970 | 9.88560 | 8.78230 | 12.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*21 | 1.29550 | 10.18290 | 7.69620 | 28.0 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*22 | 1.28500 | 8.00600 | 3.74940 | 63.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*23 | 1.28570 | 10.39280 | 4.31280 | 66.8 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*24 | 1.28840 | 8.81980 | 4.41950 | 58.4 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*25 | 1.28960 | 8.05470 | 5.66400 | 35.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*26 | 1.29650 | 9.35840 | 6.46440 | 35.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*30 | 1.30390 | 10.05600 | 7.15420 | 33.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*31 | 1.29960 | 8.53970 | 6.78320 | 24.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*32 | 1.29740 | 7.53240 | 6.01910 | 24.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*33 | 1.30400 | 10.09640 | 8.74770 | 15.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*34 | 1.29950 | 8.62010 | 6.15710 | 33.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*35 | 1.29900 | 10.43260 | 8.76230 | 18.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*36 | 1.30780 | 8.46810 | 7.39850 | 14.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*37 | 1.31300 | 9.85770 | 8.52280 | 15.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*38 | 1.29150 | 9.16160 | 7.59350 | 19.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*53 | 1.29400 | 9.54450 | 6.41630 | 37.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*54 | 1.29860 | 8.05680 | 5.49600 | 37.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*55 | 1.29940 | 9.71590 | 8.60990 | 13.1 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*56 | 1.28810 | 8.75240 | 7.69510 | 14.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*57 | 1.29940 | 9.37520 | 8.95350 | 5.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*58 | 1.31230 | 9.86460 | 9.16530 | 8.2 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*59 | 1.29790 | 10.40000 | 8.78960 | 17.7 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*60 | 1.30500 | 10.29380 | 8.77570 | 16.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*61 | 1.29760 | 8.57470 | 7.22820 | 18.5 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*62 | 1.30150 | 9.48130 | 7.39030 | 25.6 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*63 | 1.29280 | 9.22370 | 7.06070 | 27.3 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*64 | 1.29880 | 8.13100 | 4.79190 | 48.9 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |
| TBRKS1*65 | 1.30080 | 9.96450 | 4.85190 | 59.0 | G90995 | 06/10/98 | %M, B1368, P374-379'BALANCE #24, R |

## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # 1618

Matrix soils  Method/QC Type Clp/FDER

SOP No. TLM04.05, 7471-6  Lot No.(s)

| Spike Solutions Used | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|
| 1. 100 ppb Hg | BDS 6/23/98 2/ 6/23/98 | BTL | 6/24/98 |
| 2. | | | |
| 3. | | | |

| Reagents Used | Lot No. |
|---|---|
| 1. Baker $KMnO_4$ | K02666 |
| 2. $K_2SO_4$ | J03777 |
| 3. $H_2SO_4$ | L13028 |
| 4. $HNO_3$ | M04045 |
| 5. | |
| 6. | |

Final Vol. (ml) 25 ml  Pipets Used F701408

Balance No. 13  Water bath temp. 95°

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| MB*QC*1 | | |
| LCS*QC*1 | .200 | Lot # J408 |
| TLMS*15 | .247 | |
| 16 | .205 | |
| RP 16 | .259 | |
| spml 16 | .242 | .250 ml #1 |
| 17 | .256 | |
| 18 | .202 | |
| 19 | .287 | |
| 20 | .224 | |
| 21 | .238 | |
| 22 | .209 | |
| 23 | .247 | |
| 24 | .258 | |
| 25 | .228 | |
| 26 | .253 | |
| 27 | .240 | |
| 28 | .271 | |
| 29 | .204 | |
| MB*QC*1 | | |

Barbara R. Seigler 6/23/98  [signature] 6/23/98

Signed  Date  Read & Understood By  Date

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## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # 1618

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| LCS1 | .220 | Lot # J408 |
| SDAS2* 244 | .260 | |
| 245 | .284 | |
| 246 | .295 | |
| 247 | .206 | |
| 248 | .212 | |
| 249 | .297 | |
| 250 | .230 | |
| 251 | .278 | |
| 253 | .203 | |
| 254 | .223 | |
| 255 | .253 | |
| 256 | .211 | |
| 257 | .291 | |
| 258 | .213 | |
| RP 258 | Bot 6/23/98 Up .225 ← | .218 |
| spm1 258 | .225 | .250 ml #1 |
| 260 | .225 | |
| MB | | |
| LCS1 | .231 | Lot # J408 |
| TBRKS1* 17 | .206 | |
| spm1 17 | .204 | 1.25 ml #1 |
| spm2 17 | .206 | " " " " |
| 18 | .208 | |
| 19 | .212 | |
| 20 | .213 | |
| 21 | .232 | |
| 22 | .201 | |

Comments:

Barbara A. Seigler 6/23/98 — Signed — Date

Read & Understood By — Date 6/23/98

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## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # 1618

Matrix _____ Method/QC Type _____

SOP No. _____ Lot No.(s) _____

| Spike Solutions Used | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

cont from Pg 21

BAS 6/23/98

| Reagents Used | Lot No. |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |

Final Vol. (ml) _____ Pipets Used _____

Balance No. _____ Water bath temp. _____

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| spm2* TRRKS1* 22 | .202 | 1.25 ml #1 |
| spm1* 22 | .209 | " " " |
| 23 | .240 | |
| 24 | .223 | |
| 25 | .204 | |
| 26 | .222 | |
| 30 | .240 | |
| 31 | ~~.260~~ .223/15 | .206 |
| 32 | .209 | |
| 33 | .221 | |
| 34 | .207 | |
| 35 | .208 | |
| spm1 35 | .203 | 1.25 ml #1 |
| spm2 35 | .210 | " " " |
| 36 | .222 | |
| 37 | .211 | |
| 38 | .209 | |
| 53 | .207 | |
| 54 | .220 | |
| 55 | .203 | |

Barbara A. Seigler 6/23/98 [signature] 6/26/98

Signed Date Read & Understood By Date

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## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # 1618

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| spm1* TBRKS1 #55 | .215 | 1.25 ml #1 |
| spm2* 55 | .211 | " " " |
| 56 | .229 | |
| 57 | .208 | |
| 58 | .208 | |
| 59 | .224 | |
| 60 | .238 | |
| 61 | .209 | |
| 62 | .208 | |
| 63 | .206 | |
| 64 | .240 | |
| 65 | .234 | |
| | | |
| | | |
| BJS | 6/23/98 | |
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Comments:

Barbara A. Seigler 6/23/98 [signature] 6/24/98

Signed Date Read & Understood By Date

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# Certificate of Analysis

## NATURAL MATRIX CERTIFIED REFERENCE MATERIAL

## METALS ON SOIL/SEDIMENT #4

**Catalog No:** CRM008-050 **Lot No:** J408

### ANALYTE CONCENTRATIONS

| Element | Reference Value | Confidence Interval | Prediction Interval |
|---|---|---|---|
| Aluminum, Al | 23,906.3 | 20,242 - 27570 | 6,661 - 41,152 |
| Antimony, Sb | (2.55) | | |
| Arsenic, As | 14.1 | 12.4 - 15.8 | 6.24 - 22.0 |
| Barium, Ba | 53.6 | 48.1 - 59.2 | 26.5 - 80.7 |
| Beryllium, Be | 1.07 | 0.99 - 1.16 | 0.67 - 1.47 |
| Boron, B | (26.5) | | |
| Cadmium, Cd | (0.82) | | |
| Calcium, Ca | 2,935.4 | 2,781 - 3,090 | 2,245 - 3,626 |
| Chromium, Cr | 48.1 | 43.4 - 52.8 | 23.6 - 72.7 |
| Cobalt, Co | 11.2 | 10.4 - 12.0 | 6.99 - 15.4 |
| Copper, Cu | 36.4 | 34.8 - 37.9 | 27.7 - 45.0 |
| Iron, Fe | 33,042.2 | 31,290 - 34,794 | 24,884 - 41,201 |
| Lead, Pb | 95.3 | 90.0 - 101 | 69.2 - 121 |
| Magnesium, Mg | 6,741.8 | 6,386 - 7,098 | 5,054 - 8,430 |
| Manganese, Mn | 260.8 | 249 - 272 | 202 - 320 |
| Mercury, Hg | 0.72 | 0.69 - 0.75 | 0.59 - 0.85 |
| Molybdenum, Mo | (1.84) | | |
| Nickel, Ni | 26.0 | 23.8 - 28.1 | 15.5 - 36.5 |
| Potassium, K | 3,947.6 | 3,585 - 4,310 | 2,258 - 5,637 |
| Selenium, Se | (0.69) | | |
| Silicon, Si | (471.3) | | |
| Silver, Ag | (0.89) | | |
| Sodium, Na | 8,705.6 | 8,332 - 9,080 | 6,937 - 10,475 |
| Strontium, Sr | (41.5) | | |
| Thallium, Tl | (0.28) | | |
| Vanadium, V | 44.4 | 39.8 - 49.0 | 23.8 - 65.0 |
| Zinc, Zn | 133.5 | 126 - 141 | 97.8 - 169 |

All values are expressed in mg/kg (parts per million) on a dry weight basis. Values in ( ) are not certified and are listed for information only. The Reference Values were determined by USEPA SW846 (3rd edition) Methods 3050 and 6010, except for Arsenic (7060A), Mercury (7471A), Selenium (7740), and Thallium (7841). The sample is suitable for other 3000-series metals digestion procedures and 7000-series spectroscopic methods. The Confidence Interval (C.I.) range is the 95% C.I. for the Reference Value. The Prediction Interval (P.I.) is the 95% P.I. around the Reference Value. Measurements should fall within the P.I. range 19 of 20 times. The Certified Reference Values were established through extensive interlaboratory testing. All values were calculated using the USEPA BIWEIGHT Method.

**"THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH USEPA/AALA RM-03, ISO 35 AND ISO/REMCO N 282.**

RTC RESOURCE TECHNOLOGY CORPORATION
2931 Soldier Springs Road
Laramie, WY 82070 USA
(307) 742-5452
FAX (307) 745-7936

MSDS available upon request

Store at 4 - 6° C.

Notebook: 1
Page: 118

## 100 ppb Hg Calibration and Spike Solutions

| Element | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|
| **100 ppb Hg Calibration Sol'n (1:118-1)** | | | | | | |
| Hg | High Purity | 813419 | 05/18/99 | 10 | 1.0 | 100 |
| **100 ppb Hg Spike Sol'n (1:118-2)** | | | | | | |
| Hg | High Purity | 813420 | 05/18/99 | 10 | 1.0 | 100 |

Solution was made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 100 mL. Solution expires daily.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | Barbara A. Seigler | 5/18/98 | 5/19/98 | [illegible] | 5/18/98 |
| B) | Julie M Fason | 5/19/98 | 5/20/98 | Kent Brakefield | 5/20/98 |
| C) | Julie M Fason | 5/20/98 | 5/21/98 | Kent Brakefield | 5/20/98 |
| D) | Barbara A. Seigler | 5/21/98 | 5/22/98 | [illegible] | 5/21/98 |
| E) | Barbara A. Seigler | 5/22/98 | 5/23/98 | [illegible] | 5/22/98 |
| F) | Barbara A. Seigler | 5/26/98 | 5/27/98 | Julie M Fason | 5/26/98 |
| G) | Julie M Fason | 5/27/98 | 5/28/98 | Kent Brakefield | 5/27/98 |
| H) | Barbara A. Seigler | 5/28/98 | 5/29/98 | [illegible] | 5/28/98 |
| I) | Julie M Fason | 6/2/98 | 6/3/98 | Kent Brakefield | 6/2/98 |
| J) | Barbara A. Seigler | 6/4/98 | 6/5/98 | [illegible] | 6/4/98 |
| K) | Barbara A. Seigler | 6/8/98 | 6/9/98 | [illegible] 6/11/98 | 6/8/98 |
| L) | Barbara A. Seigler | 6/14/98 | 6/15/98 | [illegible] | 6/14/98 |
| M) | Barbara A. Seigler | 6/16/98 | 6/17/98 | [illegible] | 6/16/98 |
| N) | Julie M Fason | 6/22/98 | 6/23/98 | Barbara A. Seigler | 6/23/98 |
| O) | Barbara A. Seigler | 6/23/98 | 6/24/98 | Julie M Fason | 6/22/98 |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |
| T) | | | | | |
| U) | | | | | |
| V) | | | | | |
| W) | | | | | |

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Notebook: 1
Page: 118

## 100 ppb Hg Calibration and Spike Solutions

| Element | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|
| **100 ppb Hg Calibration Sol'n (1:118-1)** | | | | | | |
| Hg | High Purity | 813419 | 05/18/99 | 10 | 1.0 | 100 |
| **100 ppb Hg Spike Sol'n (1:118-2)** | | | | | | |
| Hg | High Purity | 813420 | 05/18/99 | 10 | 1.0 | 100 |

Solution was made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 100 mL. Solution expires daily.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | Barbara A. Seigler | 5/18/98 | 5/19/98 | [illegible] | 5/18/98 |
| B) | Julie M Fason | 5/19/98 | 5/20/98 | Kent Brakefield | 5/20/98 |
| C) | Julie M Fason | 5/20/98 | 5/21/98 | Kent Brakefield | 5/20/98 |
| D) | Barbara A. Seigler | 5/21/98 | 5/22/98 | [illegible] | 5/21/98 |
| E) | Barbara A. Seigler | 5/22/98 | 5/23/98 | [illegible] | 5/22/98 |
| F) | Barbara A. Seigler | 5/26/98 | 5/27/98 | Julie M Fason | 5/26/98 |
| G) | Julie M Fason | 5/27/98 | 5/28/98 | Kent Brakefield | 5/27/98 |
| H) | Barbara A. Seigler | 5/28/98 | 5/29/98 | [illegible] | 5/28/98 |
| I) | Julie M Fason | 6/2/98 | 6/3/98 | Kent Brakefield | 6/2/98 |
| J) | Barbara A. Seigler | 6/4/98 | 6/5/98 | [illegible] | 6/4/98 |
| K) | Barbara A. Seigler | 6/8/98 | 6/9/98 | [illegible] | 6/8/98 |
| L) | Barbara A. Seigler | 6/14/98 | 6/15/98 | [illegible] | 6/14/98 |
| M) | Barbara A. Seigler | 6/16/98 | 6/17/98 | [illegible] | 6/16/98 |
| N) | Julie M Fason | 6/22/98 | 6/23/98 | Barbara A. Seigler | 6/23/98 |
| O) | Barbara A. Seigler | 6/23/98 | 6/24/98 | Julie M Fason | 6/22/98 |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |
| T) | | | | | |
| U) | | | | | |
| V) | | | | | |
| W) | | | | | |

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Notebook: 1
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## Hg Reference (ICV Sol'n) (1:100)

| Solution | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|
| Multi-Element Std. | PE Pure | 9-123AS | 9/26/98 | 10.0 | 0.5 | 5.0 |

Solution is made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 1000 mL. This solution expires semi-annually.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | [signature] | 4/3/97 | 10/3/97 | [signature] | 4/3/97 |
| B) | [signature] | 4/17/97 | 10/17/97 | [signature] | 4/18/97 |
| C) | [signature] | 4/18/97 | 10/18/97 | [signature] | 4/18/97 |
| D) | [signature] | 4/28/97 | 10/28/97 ~~11~~ used 4/28/97 | [signature] | 4/28/97 |
| E) | [signature] | 5/14/97 | 11/14/97 ~~Lot~~ used 5/14/97 | [signature] | 5-16-97 |
| F) | [signature] | 6/3/97 | 12/3/97 | [signature] | 6/3/97 |
| G) | [signature] | 7/6/97 | 1/6/98 | [signature] | 1/6/~~98~~ 97 [illegible] 7/6/97 [illegible] |
| H) | [signature] | 1/7/98 | 6/7/98 | [signature] | 1-16-98 |
| I) | [signature] | 1/19/98 | 6/20/98 | [signature] | 1/19/98 |
| J) | [signature] | 1/21/98 | 7-22-98 | [signature] | 1/21/98 |
| K) | Barbara A. Seigler | 4/30/98 ~~5/4/98~~ [illegible] | 10/31/98 | [signature] | 5/5/98 |
| L) | Barbara A. Seigler | 5/28/98 | 11-28-98 ~~5/29/98~~ | [signature] | 5/28/98 |
| M) | Barbara A. Seigler | 6/23/98 | 12/23/98 | [signature] | 6/23/98 |
| N) | | | | | |
| O) | | | | | |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |

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Notebook: 1
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## HG –Stannous Chloride Solution (1:117)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| Stannous Chloride | BAKER | M04609 | 05/15/99 |

The solution was made by disolving 100 g of the reagent above in DI water add 14 ml of conc H2SO4, and diluting to 1000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | Barbara A. Slagler | 5/15/98 | 5/15/99 | [illegible] | 5/15/98 |
| b | Barbara A. Slagler | 6/15/98 | 6/15/99 | [illegible] | 6/15/98 |
| c | | | | | |
| d | | | | | |
| e | | | | | |
| f | | | | | |
| g | | | | | |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

G:\MT\S\HG-SC.WK3

Notebook: 1
Page: 112

## HG –5% Potassium Persulfate Solution (1:112)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| POTASSIUM PERSULFATE | BAKER | J03777 | 09/26/98 |

The solution was made by disolving 100 g of the reagent above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. [illegible] | 10/13/97 | 10/13/98 | [illegible] | 10/13/98 |
| b | David V. [illegible] | 11/14/97 | 11/14/98 | [illegible] | 11/14/97 |
| c | [illegible] | 12/15/97 | 12/15/98 | Barbara A. Seigler | 12/15/97 |
| d | ~~David V. [illegible]~~ | ~~1/19/98~~ | ~~1/20/98~~ | ~~[illegible]~~ | ~~1/15/98~~ |
| e | David V. [illegible] | 3/24/98 | 3/24/99 | [illegible] | 3/24/98 |
| f | Barbara A. Seigler | 5/28/98 | 5/28/99 | [illegible] | 5/28/98 |
| g | Barbara A. Seigler | 6/15/98 | 6/15/99 | [illegible] | 6/15/98 |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

G:\M\I\S\HG–S.WK3

## HG Sodium Chloride–Hydroxylamine Hydrochloride Solution (1:111)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| Sodium Chloride | BAKER | K02639 | 9/25/98 |
| Hydroxylamine Hydrochloride | MALLINCKRODT | 5258 KTLZ | 1/31/98 |
| " " | Baker | M04605 | |

The solution was made by disolving 240 g of each of the reagents above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. Nichols | 10/13/97 | 10/13/98 | Robt W. Floyd | 10/13/97 |
| b | Robt W. Floyd | 11/14/97 | 11/14/98 | David V. Nichols | 11/14/97 |
| c | [signature] | 12/15/97 | 12/15/98 | Barbara A. Seigler | 12/15/97 |
| d | Julie M. Hasson | 4/~~31~~ 12/98 | 4/~~31~~ 12/99 | Kent Brakefield | 4/~~31~~ 12/98 |
| e | Barbara A. Seigler | 5/15/98 | 5/15/99 | [signature] | 5/15/98 |
| f | Barbara A. Seigler | 6/15/98 | 6/15/99 | [signature] | 6/15/98 |
| g | | | | | |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

G:\M\C\S\HG–H.WK3

Notebook: 1
Page: 110

## HG –5% Potassium Permanganate Solution (1:110)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| POTASSIUM PERMANGANATE | JT BAKER | K02669 | 09/30/98 |

The solution was made by disolving 100 g of the reagent above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. Nichols | 10/13/97 | 10/13/98 | Robert W. Field | 10/13/97 |
| b | Robert W. Field | 11/14/97 | 11/14/98 | David V. Nichols | 11/14/97 |
| c | [illegible] | 12/15/97 | 12/15/98 | Barbara A. Seigler | 12/15/97 |
| d | ~~David V. Nichols~~ | ~~1/19/98~~ | ~~1/20/98~~ | ~~[illegible]~~ | ~~1/19/98~~ |
| e | David V. Nichols | 3/24/98 | 3/24/99 | [illegible] | 3/24/98 |
| f | ~~David V. Nichols~~ | ~~3/31/98~~ | ~~4/1/98~~ | | |
| g | ~~David V. Nichols~~ | ~~4/1/98~~ | ~~4/2/98~~ | | |
| h | Barbara A. Seigler | 5/28/98 | 5/28/99 | Kent Brakefield | 5/28/98 |
| i | Barbara A. Seigler | 6/15/98 | 6/15/99 | [illegible] | 6/15/98 |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

G:\M\TS\HG-P.WK3

**Mercury - Batch G91043**

COVER PAGE

Lab Name: QST Project No.1298522V SDG No: G91043 Matrix: WATER

Analysis: G91043 = EPA 7470A

| Client ID | Laboratory ID | Batch | Date Collected | Date Received | Analysis Date | Time |
|---|---|---|---|---|---|---|
| ICV1 | ICV*QC*1 | G91043 | 00/00/00 | 00/00/00 | 06/09/98 | 1211 |
| ICB1 | ICB*QC*1 | G91043 | 00/00/00 | 00/00/00 | 06/09/98 | 1214 |
| CRA1 | CRA*QC*1 | G91043 | 00/00/00 | 00/00/00 | 06/09/98 | 1216 |
| SP1 | SP*QC*1 | G91043 | 00/00/00 | 00/00/00 | 06/09/98 | 1520 |
| SW-001 | TBRKW1*1 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1522 |
| SW-001MS | SPM1*TBRKW1*1 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1524 |
| SW-101 | TBRKW1*2 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1529 |
| SW-002 | TBRKW1*3 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1531 |
| SW-003 | TBRKW1*4 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1534 |
| SW-008 | TBRKW1*5 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1536 |
| SW-006 | TBRKW1*6 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1539 |
| SW-001MSD | SPM2*TBRKW1*1 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1551 |
| SD-306 | TBRKW1*7 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1553 |
| SW-007 | TBRKW1*8 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1556 |
| SL-301 | TBRKW1*9 | G91043 | 05/29/98 | 06/02/98 | 06/09/98 | 1558 |
| SL-311 | TBRKW1*10 | G91043 | 05/29/98 | 06/02/98 | 06/09/98 | 1600 |
| SS-301 | TBRKW1*11 | G91043 | 05/29/98 | 06/02/98 | 06/09/98 | 1603 |
| SW-004 | TBRKW1*12 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1605 |
| SW-005 | TBRKW1*13 | G91043 | 05/28/98 | 06/02/98 | 06/09/98 | 1607 |
| SS-311 | TBRKW1*14 | G91043 | 05/29/98 | 06/02/98 | 06/09/98 | 1610 |

Comments:
Full SDG: G91043-1 Sample List: TL.7

**Sample Data**

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*1

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1522 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-101

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*2

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1529 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-002

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*3

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1531 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-003

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*4

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1534 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-008

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*5

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1536 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 3.65 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-006

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*6

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1539 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 1.83 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SD-306

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*7

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1553 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-007

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*8

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1556 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 8.28 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SL-301

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*9

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1558 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SL-311

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*10

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1600 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-301

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*11

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1603 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-004

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*12

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1605 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 1.50 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-005

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*13

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1607 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

FORM 1
ANALYSIS DATA SHEET

Client ID

SS-311

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: TBRKW1*14

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1610 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

# QC Data

Client ID

SW-001MS

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: QST Project No.: 1298522V SDG No.: G91043

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| MERCURY | 5.00 | 0.0 | 5.19 | 103.8 | 55-131 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| MERCURY | 5.00 | 5.36 | 107.2 | 3.2 | 38 | 55-131 |

# Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENT:

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001MS

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: SPM1*TBRKW1*1

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 06/02/98

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1524 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 5.19 | |

FORM 1
ANALYSIS DATA SHEET

Client ID

SW-001MSD

Lab Name: QST  Project No.: 1298522V  SDG No.: G91043

Matrix: (soil/water) WATER  Lab Sample ID: SPM2*TBRKW1*1

Sample wt/vol: .  Lab File ID: G91043

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 06/02/98

Injection Volume:  Date Extracted: 06/08/98

Time Analyzed: 1551  Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 5.36 | |

Client ID

BLK1

# QST METHOD BLANK SUMMARY

Lab Name: QST | Project No: 1298522V | SDG No.: G91043

Lab Sample ID: MB*QC*1 | Lab File ID: G91043

Matrix: WATER | Instrument ID: PS200

Date Analyzed: 06/09/98 | Date Extracted: 06/08/98

Time Analysed: 1517

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| CLIENT SAMPLE NO. | LAB SAMPLE ID | DATE ANALYZED |
|---|---|---|
| SW-001 | TBRKW1*1 | 06/09/98 |
| SW-001MS | SPM1*TBRKW1*1 | 06/09/98 |
| SW-101 | TBRKW1*2 | 06/09/98 |
| SW-002 | TBRKW1*3 | 06/09/98 |
| SW-003 | TBRKW1*4 | 06/09/98 |
| SW-008 | TBRKW1*5 | 06/09/98 |
| SW-006 | TBRKW1*6 | 06/09/98 |
| SW-001MSD | SPM2*TBRKW1*1 | 06/09/98 |
| SD-306 | TBRKW1*7 | 06/09/98 |
| SW-007 | TBRKW1*8 | 06/09/98 |
| SL-301 | TBRKW1*9 | 06/09/98 |
| SL-311 | TBRKW1*10 | 06/09/98 |
| SS-301 | TBRKW1*11 | 06/09/98 |
| SW-004 | TBRKW1*12 | 06/09/98 |
| SW-005 | TBRKW1*13 | 06/09/98 |
| SS-311 | TBRKW1*14 | 06/09/98 |

COMMENTS:



FORM IV QST

FORM 1
ANALYSIS DATA SHEET

Client ID

BLK1

Lab Name: QST Project No.: 1298522V SDG No.: G91043

Matrix: (soil/water) WATER Lab Sample ID: MB*QC*1

Sample wt/vol: . Lab File ID: G91043

%Moisture: 0.0 Dilution Factor: 1.00

Concentrated Extract Volume: Date Received: 00/00/00

Injection Volume: Date Extracted: 06/08/98

Time Analyzed: 1517 Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 0.20 | U |

Client ID

REFERENCE STANDARD

SP1

Lab Name: QST

SDG No: G91043

Lab Sample ID: SP*QC*1

Date Analyzed: 06/09/98

Instrument ID: PS200

| Analyte | True (UG/L) | Found (UG/L) | # | %Recv | Limits % |
|---|---|---|---|---|---|
| MERCURY | 5.00 | 5.38 | | 107.6 | 85-127 |

# Column to be used to flag recovery outside of QC limits
* Values outside of QC limits

Comments:

FORM V QST

FORM 1
ANALYSIS DATA SHEET

Client ID

SP1

Lab Name: QST  Project No.: 1298522V  SDG No.: G91043

Matrix: (soil/water) WATER  Lab Sample ID: SP*QC*1

Sample wt/vol: .  Lab File ID: G91043

%Moisture: 0.0  Dilution Factor: 1.00

Concentrated Extract Volume:  Date Received: 00/00/00

Injection Volume:  Date Extracted: 06/08/98

Time Analyzed: 1520  Date Analyzed: 06/09/98

| CAS NO. | COMPOUND | CONCENTRATION UNITS UG/L | Q |
|---|---|---|---|
| 7439-97-6 | MERCURY | 5.38 | |

Client ID

ICB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91043

Lab Sample ID: ICB*QC*1 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.03 | J | 0.20 |



FORM VII QST

Client ID

CCB1

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91043

Lab Sample ID: CCB*QC*1 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.04 | J | 0.20 |



FORM VII QST

Client ID

CCB2

# CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91043

Lab Sample ID: CCB*QC*2 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.02 | J | 0.20 |



FORM VII QST

Client ID

CALIBRATION BLANKS

CCB3

Lab Name: QST Project No.: 1298522V SDG No: G91043

Lab Sample ID: CCB*QC*3 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.01 | J | 0.20 |



FORM VII QST

Client ID

CCB4

CALIBRATION BLANKS

Lab Name: QST Project No.: 1298522V SDG No: G91043

Lab Sample ID: CCB*QC*4 Instrument ID: PS200

| Analyte | Conc | C | CRDL |
|---|---|---|---|
| HG | 0.004 | J | 0.20 |



FORM VII QST

Client ID

ICV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91043

Lab Sample ID: ICV*QC*1  Date Analyzed: 06/09/98

Instrument ID: PS200  Time Analyzed: 1211

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 5.14 | 5.00 | | 2.8 |

QC LIMITS:



FORM VIII QST

Client ID

CCV1

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91043

Lab Sample ID: CCV*QC*1  Date Analyzed: 06/09/98

Instrument ID: PS200  Time Analyzed: 1218

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.51 | 5.00 | | 9.8 |

QC LIMITS:



FORM VIII QST

Client ID

CCV2

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91043

Lab Sample ID: CCV*QC*2  Date Analyzed: 06/09/98

Instrument ID: PS200  Time Analyzed: 1513

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.74 | 5.00 | | 5.2 |

QC LIMITS:



FORM VIII QST

Client ID

CCV3

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91043

Lab Sample ID: CCV*QC*3  Date Analyzed: 06/09/98

Instrument ID: PS200  Time Analyzed: 1541

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 4.70 | 5.00 | | 6.0 |

QC LIMITS:



FORM VIII QST

Client ID

CCV4

# CALIBRATION VERIFICATION

Lab Name: QST  Project No: 1298522V  SDG No: G91043

Lab Sample ID: CCV*QC*4  Date Analyzed: 06/09/98

Instrument ID: PS200  Time Analyzed: 1612

| Analyte | RT | RT WINDOW FROM | RT WINDOW TO | Found (UG/L) | True (UG/L) | C | %Diff |
|---|---|---|---|---|---|---|---|
| HG | | | | 5.11 | 5.00 | | 2.2 |

QC LIMITS:



FORM VIII QST

# CALIBRATION CURVES

Lab Name: QST

SDG #: G91043

Analyte: MERCURY

Instrument ID: PS200

| Curve # | Analysis Date | Concentration UG/L | Ug/l | Retention Time (min) | Correlation Coefficient |
|---|---|---|---|---|---|
| 1 | 06/09/98 | .000 | 444. | | |
| | | .200 | 3280. | | |
| | | .500 | 6269. | | |
| | | 1.00 | 16449. | | |
| | | 5.00 | 82263. | | |
| | | 10.0 | 160549. | | |
| | | | | | |

CURVE #

1 CONC = + *RESP+ *RESP**2+ *RESP**3

Comments: _____

FORM II QST

# Raw Data

MERCURY SAMPLE RUN LOG

Bk. No.: 48
Pg. # .: 82

Batch # G91043 Method: 7470A QC Type: FDER Lot # N/A

Analyst: B. SEIGLER Analysis Date 06/09/98
Instrument Parameters: Inst. model: PS200 Wavelength: 254.0 Det. Limit: 0.2
Calibration Curve: Calib. type: QUAD Corr. Coeff: 0.9999
Samples Analyzed: TBRKW1

Comments

| SEQ # | Sample I.D. | TIME | Conc. (ug/L) | Target (ug/L) | COMMENTS |
|---|---|---|---|---|---|
| | Std1 0.0 ppb | 11:49 | 444 | | |
| 1 | Std2 0.2 ppb | 11:51 | 3280 | | |
| 3 | Std4 0.5 ppb | 11:56 | 16449 | | |
| 4 | Std5 1.0 ppb | 11:58 | 82263 | | |
| 5 | Std6 5.0 ppb | 12:04 | 160549 | | |
| 6 | Std3 10.0 ppb | 12:08 | 8269 | | |
| 7 | ICV*QC*1 | 12:11 | 5.14 | 5.00 | 102.8 % REC |
| 8 | ICB*QC*1 | 12:14 | 0.03 | | |
| 9 | CRA*QC*1 | 12:16 | 0.23 | 0.20 | 116.5 % REC |
| 10 | CCV*QC*1 | 12:18 | 4.51 | 5.00 | 90.2 % REC |
| 11 | CCB*QC*1 | 12:21 | 0.04 | | |
| 50 | CCV*QC*2 | 15:13 | 4.74 | | |
| 51 | CCB*QC*2 | 15:15 | 0.02 | | |
| 52 | MB*QC*1 | 15:17 | 0.05 | | |
| 53 | SP*QC*1 | 15:20 | 5.38 | | |
| 54 | TBRKW1*1 | 15:22 | 0.04 | | |
| 55 | SPM1*TBRKW1*1 | 15:24 | 5.19 | | |
| 56 | SPM2*TBRKW1*1 | 15:27 | -0.00 | | autosampler error – rerun % REC |
| 57 | TBRKW1*2 | 15:29 | 0.07 | | |
| 58 | TBRKW1*3 | 15:31 | 0.07 | | |
| 59 | TBRKW1*4 | 15:34 | 0.08 | | |
| 60 | TBRKW1*5 | 15:36 | 3.65 | | |
| 61 | TBRKW1*6 | 15:39 | 1.83 | | |
| 62 | CCV*QC*3 | 15:41 | 4.70 | | |
| 63 | CCB*QC*3 | 15:44 | 0.01 | | |
| 64 | SPM2*TBRKW1*1 | 15:51 | 5.36 | | |
| 65 | TBRKW1*7 | 15:53 | 0.01 | | |
| 66 | TBRKW1*8 | 15:56 | 8.28 | | |
| 67 | TBRKW1*9 | 15:58 | -0.03 | | |
| 68 | TBRKW1*10 | 16:00 | 0.04 | | |
| 69 | TBRKW1*11 | 16:03 | 0.05 | | |
| 70 | TBRKW1*12 | 16:05 | 1.50 | | |
| 71 | TBRKW1*13 | 16:07 | 0.16 | | |
| 72 | TBRKW1*14 | 16:10 | 0.03 | | |
| 73 | CCV*QC*4 | 16:12 | 5.11 | | |
| 74 | CCB*QC*4 | 16:15 | 0.00 | | |

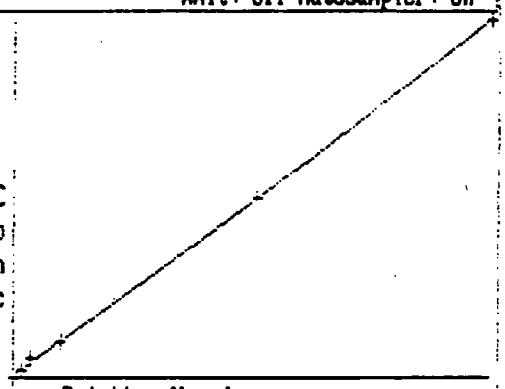
Protocol: clp SID
Rev: 3.001 Time: 12:08:59 09 Jun 1998
Folder: 6998 Seq: 7 Print: On
User: Batch: Id: Std3Rep1 Cup: 2 30 Gas: 0.30 LPM
State: Idle Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line: Hg

| | Conc. | Calc. | Dev. | Accepted liNear | |
|---|---|---|---|---|---|
| S1 | .000 | .059 | .059 | Quadratic | |
| S2 | .200 | .226 | .026 | WtdLinear | |
| S3 | .500 | .402 | -.098 | | C |
| S4 | 1.00 | 1.01 | .006 | Accept | o |
| S5 | 5.00 | 5.01 | .010 | | n |
| S6 | 10.0 | 10.0 | -.002 | StdAdd | c |

A 1.9985e-11 r .999914
B 5.88599e-5 C 3.24920e-2



Relative Absorbance

| | Mean | %RSD | |
|---|---|---|---|
| S1 | 444 | 0 | 444 |
| S2 | 3280 | 0 | 3280 |
| S3 | 6269 | 0 | 6269 |
| S4 | 16449 | 0 | 16449 |
| S5 | 82263 | 0 | 82263 |
| S6 | 168549 | 0 | 168549 |

New calibration coefficients stored

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Standard: 1 Rep: 1 Seq: 0 11:49:10 09 Jun 1998 HG

Hg .000 ppb 444
Ave. Int. = 444 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 11:51:31 09 Jun 1998 HG

Hg .200 ppb 3280
Ave. Int. = 3280 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 11:53:52 09 Jun 1998 HG

Hg .500 ppb 15094
Ave. Int. = 15094 S. D. = 0

WRONG Sample loaded, rerun; See Seq# 6
BAL 6/9/98

*** Standard: 4 Rep: 1 Seq: 3 11:56:17 09 Jun 1998 HG

Hg 1.00 ppb 16449
Ave. Int. = 16449 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 11:58:44 09 Jun 1998 HG

Hg 5.00 ppb 82263
Ave. Int. = 82263 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 12:04:46 09 Jun 1998 HG

Hg 10.0 ppb 160549
Ave. Int. = 160549 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 6 12:08:30 09 Jun 1998 HG

Hg .500 ppb 6269
Ave. Int. = 6269 S. D. = 0

*** Check Standard: 5 Ck5 Seq: 7 12:11:25 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 103. | 5.14 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 8 12:14:06 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .025 | .200 | ppb | .000 |

*** Check Standard: 3 Ck3 Seq: 9 12:16:25 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 116. | .233 | .200 | ppb | .000 |

Samples for this batch are sequence numbers 0-11, and 50-74. ALL remaining samples are assigned to different batches

BAL 6/9/98

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2 Seq: 10 12:18:45 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 90.2 | 4.51 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 11 12:21:28 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .039 | .200 | ppb | .000 |

*** Sample ID: Seq: 12 13:43:52 09 Jun 1998 HG
MB*QC*1
Hg .045 ppb .000 .045

*** Sample ID: Seq: 13 13:46:08 09 Jun 1998 HG
MB*QC*2
Hg .038 ppb .000 .038

*** Sample ID: Seq: 14 13:48:24 09 Jun 1998 HG
SP*QC*1
Hg 4.73 ppb .000 4.73

*** Sample ID: Seq: 15 13:51:04 09 Jun 1998 HG
SP*QC*2
Hg 4.88 ppb .000 4.88

*** Sample ID: Seq: 16 13:53:44 09 Jun 1998 HG
!#ENVS6*2
Hg .011 ppb .000 .011

*** Sample ID: Seq: 17 13:56:00 09 Jun 1998 HG
SPM1*!#ENVS6*2
Hg 4.48 ppb .000 4.48

*** Sample ID: Seq: 18 13:58:37 09 Jun 1998 HG
SPM2*!#ENVS6*2
Hg 4.58 ppb .000 4.58

*** Sample ID: Seq: 19 14:01:14 09 Jun 1998 HG
!#ENVS6*6
Hg .026 ppb .000 .026

*** Sample ID: Seq: 20 14:03:31 09 Jun 1998 HG
!#ENVS6*7
Hg .040 ppb .000 .040

*** Sample ID: Seq: 21 14:05:48 09 Jun 1998 HG
!#ENVS6*9
Hg .054 ppb .000 .054

Line Conc. Units SD/RSD 1 2 3 4 5

---

*** Check Standard: 2 Ck2 Seq: 22 14:08:07 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 91.0 | 4.55 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 23 14:10:47 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .034 | .200 | ppb | .000 |

*** Sample ID: Seq: 24 14:13:10 09 Jun 1998 HG
!#ENVS6*10
Hg .063 ppb .000 .063

*** Sample ID: Seq: 25 14:15:26 09 Jun 1998 HG
!#ENVS6*12
Hg .044 ppb .000 .044

*** Sample ID: Seq: 26 14:17:41 09 Jun 1998 HG
!#ENVS6*15
Hg .040 ppb .000 .040

*** Sample ID: Seq: 27 14:19:55 09 Jun 1998 HG
!#ENVS6*16
Hg .140 ppb .000 .140

*** Sample ID: Seq: 28 14:22:10 09 Jun 1998 HG
!#ENVS6*17
Hg .238 ppb .000 .238

*** Sample ID: Seq: 29 14:24:25 09 Jun 1998 HG
!#ENVS6*18
Hg .034 ppb .000 .034

*** Sample ID: Seq: 30 14:26:40 09 Jun 1998 HG
!#ENVS6*19
Hg .045 ppb .000 .045

*** Sample ID: Seq: 31 14:28:56 09 Jun 1998 HG
!#ENVS6*20
Hg .038 ppb .000 .038

*** Sample ID: Seq: 32 14:31:12 09 Jun 1998 HG
!#ENVS6*21
Hg .037 ppb .000 .037

*** Sample ID: Seq: 33 14:33:28 09 Jun 1998 HG
!#ENVS6*22
Hg .045 ppb .000 .045

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Check Standard: 2 Ck2 Seq: 34 14:35:46 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 95.1 | 4.75 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 35 14:38:21 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .015 | .200 | ppb | .000 |

*** Sample ID: Seq: 36 14:40:38 09 Jun 1998 HG
!#ENVS6*23

| | | | | |
|---|---|---|---|---|
| Hg | .043 | ppb | .000 | .043 |

*** Sample ID: Seq: 37 14:42:54 09 Jun 1998 HG
!#ENVS6*24

| | | | | |
|---|---|---|---|---|
| Hg | .072 | ppb | .000 | .072 |

*** Sample ID: Seq: 38 14:45:09 09 Jun 1998 HG
!#ENVS6*25

| | | | | |
|---|---|---|---|---|
| Hg | .051 | ppb | .000 | .051 |

*** Sample ID: Seq: 39 14:47:22 09 Jun 1998 HG
!#ENVS6*26

| | | | | |
|---|---|---|---|---|
| Hg | .037 | ppb | .000 | .037 |

*** Sample ID: Seq: 40 14:49:35 09 Jun 1998 HG
!#TRW6*3

| | | | | |
|---|---|---|---|---|
| Hg | .052 | ppb | .000 | .052 |

*** Sample ID: Seq: 41 14:51:49 09 Jun 1998 HG
!#TRW6*4

| | | | | |
|---|---|---|---|---|
| Hg | .054 | ppb | .000 | .054 |

*** Sample ID: Seq: 42 14:54:03 09 Jun 1998 HG
!#PRP6*4

| | | | | |
|---|---|---|---|---|
| Hg | .299 | ppb | .000 | .299 |

*** Sample ID: Seq: 43 14:56:17 09 Jun 1998 HG
SPM1*!#PRP6*4

| | | | | |
|---|---|---|---|---|
| Hg | 5.15 | ppb | .000 | 5.15 |

*** Sample ID: Seq: 44 14:58:47 09 Jun 1998 HG
SPM2*'!#PRP6*4

| | | | | |
|---|---|---|---|---|
| Hg | 5.25 | ppb | .000 | 5.25 |

*** Sample ID: Seq: 45 15:01:22 09 Jun 1998 HG
!#PRP6*5

| | | | | |
|---|---|---|---|---|
| Hg | .252 | ppb | .000 | .252 |

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2 Seq: 46 15:03:39 09 Jun 1998 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 93.9 4.70 5.00 ppb .000

*** Check Standard: 1 Ck1 Seq: 47 15:06:14 09 Jun 1998 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .007 .200 ppb .000

*** Sample ID: Seq: 48 15:08:30 09 Jun 1998 HG
!#PRP6*7
Hg .281 ppb .000 .281

*** Sample ID: Seq: 49 15:10:44 09 Jun 1998 HG
!#PRP6*8
Hg .039 ppb .000 .039

*** Check Standard: 2 Ck2 Seq: 50 15:13:01 09 Jun 1998 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 94.8 4.74 5.00 ppb .000

*** Check Standard: 1 Ck1 Seq: 51 15:15:41 09 Jun 1998 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .021 .200 ppb .000

*** Sample ID: Seq: 52 15:17:57 09 Jun 1998 HG
MB*QC*1
Hg .046 ppb .000 .046

*** Sample ID: Seq: 53 15:20:10 09 Jun 1998 HG
SP*QC*1
Hg 5.38 ppb .000 5.38

*** Sample ID: Seq: 54 15:22:43 09 Jun 1998 HG
TBRKW1*1
Hg .041 ppb .000 .041

*** Sample ID: Seq: 55 15:24:56 09 Jun 1998 HG
SPM1*TBRKW1*1
Hg 5.19 ppb .000 5.19

*** Sample ID: Seq: 56 15:27:31 09 Jun 1998 HG
SPM2*TBRKW1*1
Hg -.001 ppb .000 -.001

Autosampler malfunction; reran; see Seq# 64. BAL 6/9/98

*** Sample ID: Seq: 57 15:29:44 09 Jun 1998 HG
TBRKW1*2
Hg .074 ppb .000 .074

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  58     15:31:58 09 Jun 1998 HG
                              TBRKW1*3
Hg    .073    ppb        .000      .073

*** Sample ID:                          Seq:  59     15:34:12 09 Jun 1998 HG
                              TBRKW1*4
Hg    .078    ppb        .000      .078

*** Sample ID:                          Seq:  60     15:36:26 09 Jun 1998 HG
                              TBRKW1*5
Hg    3.65    ppb        .000      3.65

*** Sample ID:                          Seq:  61     15:39:05 09 Jun 1998 HG
                              TBRKW1*6
Hg    1.83    ppb        .000      1.83

*** Check Standard: 2  Ck2              Seq:  62     15:41:36 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          94.1     4.70    5.00   ppb        .000

*** Check Standard: 1  Ck1              Seq:  63     15:44:16 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .011     .200     ppb        .000

*** Sample ID:                          Seq:  64     15:51:13 09 Jun 1998 HG
                              SPM2*TBRKW1*1
Hg    5.36    ppb        .000      5.36

*** Sample ID:                          Seq:  65     15:53:49 09 Jun 1998 HG
                              TBRKW1*7
Hg    .011    ppb        .000      .011

*** Sample ID:                          Seq:  66     15:56:03 09 Jun 1998 HG
                              TBRKW1*8
Hg    8.28    ppb        .000      8.28

*** Sample ID:                          Seq:  67     15:58:38 09 Jun 1998 HG
                              TBRKW1*9
Hg   -.034    ppb        .000     -.034

*** Sample ID:                          Seq:  68     16:00:52 09 Jun 1998 HG
                              TBRKW1*10
Hg    .040    ppb        .000      .040

*** Sample ID:                          Seq:  69     16:03:06 09 Jun 1998 HG
                              TBRKW1*11
Hg    .047    ppb        .000      .047
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  70     16:05:20 09 Jun 1998 HG
                              TBRKW1*12
Hg    1.50    ppb        .000      1.50

*** Sample ID:                          Seq:  71     16:07:48 09 Jun 1998 HG
                              TBRKW1*13
Hg    .163    ppb        .000      .163

*** Sample ID:                          Seq:  72     16:10:02 09 Jun 1998 HG
                              TBRKW1*14
Hg    .029    ppb        .000      .029

*** Check Standard: 2  Ck2              Seq:  73     16:12:19 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  74     16:15:00 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .004     .200     ppb        .000

*** Sample ID:                          Seq:  75     16:17:16 09 Jun 1998 HG
                              MB*QC*1
Hg    .053    ppb        .000      .053

*** Sample ID:                          Seq:  76     16:19:30 09 Jun 1998 HG
                              SP*QC*1
Hg    1.09    ppb        .000      1.09

*** Sample ID:                          Seq:  77     16:21:45 09 Jun 1998 HG
                              !U1CLPC1*29
Hg   -.029    ppb        .000     -.029

*** Sample ID:                          Seq:  78     16:24:00 09 Jun 1998 HG
                              !U1CLPC1*30
Hg    .048    ppb        .000      .048

*** Sample ID:                          Seq:  79     16:26:15 09 Jun 1998 HG
                              !U1CLPC1*31
Hg    .039    ppb        .000      .039

*** Sample ID:                          Seq:  80     16:28:31 09 Jun 1998 HG
                              !U1CLPC1*32
Hg    .046    ppb        .000      .046

*** Sample ID:                          Seq:  81     16:30:47 09 Jun 1998 HG
                              !U1CLPC1*33
Hg    .051    ppb        .000      .051
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                        Seq:  82     16:33:03 09 Jun 1998 HG
                          !U1CLPC1*34
Hg    .038    ppb       .000      .038

*** Sample ID:                        Seq:  83     16:35:19 09 Jun 1998 HG
                          !U1FLPC1*29
Hg    .058    ppb       .000      .058

*** Sample ID:                        Seq:  84     16:37:35 09 Jun 1998 HG
                          !U1FLPC1*30
Hg    .068    ppb       .000      .068

*** Check Standard: 2  Ck2            Seq:  85     16:39:53 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.05    5.00   ppb        .000

*** Check Standard: 1  Ck1            Seq:  86     16:42:33 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .014     .200     ppb        .000

*** Sample ID:                        Seq:  87     16:44:50 09 Jun 1998 HG
                          RP'!U1FLPC1*30
Hg    .070    ppb       .000      .070

*** Sample ID:                        Seq:  88     16:47:06 09 Jun 1998 HG
                          SPM1*!U1FLPC1*30
Hg    .818    ppb       .000      .818

*** Sample ID:                        Seq:  89     16:49:22 09 Jun 1998 HG
                          !U1FLPC1*31
Hg    .055    ppb       .000      .055

*** Sample ID:                        Seq:  90     16:51:38 09 Jun 1998 HG
                          !U1FLPC1*32
Hg    .051    ppb       .000      .051

*** Sample ID:                        Seq:  91     16:53:54 09 Jun 1998 HG
                          !U1FLPC1*34
Hg    .045    ppb       .000      .045

*** Sample ID:                        Seq:  92     16:56:10 09 Jun 1998 HG
                          !U1FLPC1*35
Hg    .046    ppb       .000      .046

*** Sample ID:                        Seq:  93     16:58:28 09 Jun 1998 HG
                          !U1FLPC1*36
Hg    .039    ppb       .000      .039
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  94     17:00:46 09 Jun 1998 HG
                              !U1FLPC1*37
Hg    .039    ppb        .000      .040

*** Check Standard: 2  Ck2              Seq:  95     17:03:05 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.    5.08    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  96     17:05:44 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .058     .200    ppb        .000

*** Sample ID:                          Seq:  97     17:08:02 09 Jun 1998 HG
                              MB*QC*1
Hg    .057    ppb        .000      .057

*** Sample ID:                          Seq:  98     17:10:20 09 Jun 1998 HG
                              SP*QC*1
Hg    1.10    ppb        .000      1.10

*** Sample ID:                          Seq:  99     17:12:41 09 Jun 1998 HG
                              SDAW2*1
Hg    .025    ppb        .000      .025

*** Sample ID:                          Seq:  100    17:14:59 09 Jun 1998 HG
                              RP*SDAW2*1
Hg    .040    ppb        .000      .040

*** Sample ID:                          Seq:  101    17:17:17 09 Jun 1998 HG
                              SPM1*SDAW2*1
Hg    1.07    ppb        .000      1.07

*** Sample ID:                          Seq:  102    17:19:35 09 Jun 1998 HG
                              SDAW2*2
Hg    .019    ppb        .000      .019

*** Sample ID:                          Seq:  103    17:21:53 09 Jun 1998 HG
                              SDAW2*5
Hg    .040    ppb        .000      .040

*** Sample ID:                          Seq:  104    17:24:11 09 Jun 1998 HG
                              SDAW2*8
Hg    .112    ppb        .000      .112

*** Sample ID:                          Seq:  105    17:26:28 09 Jun 1998 HG
                              SDAW2*9
Hg    .044    ppb        .000      .044
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  106    17:28:48 09 Jun 1998 HG
                              SDAW2*10
Hg    .033    ppb        .000      .033

*** Check Standard: 2  Ck2              Seq:  107    17:31:07 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          101.     5.07    5.00   ppb        .000

*** Check Standard: 1  Ck1              Seq:  108    17:33:43 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .033     .200     ppb        .000

*** Sample ID:                          Seq:  109    17:36:01 09 Jun 1998 HG
                              SDAW2*13
Hg    .037    ppb        .000      .037

*** Sample ID:                          Seq:  110    17:38:20 09 Jun 1998 HG
                              SDAW2*14
Hg    .042    ppb        .000      .042

*** Sample ID:                          Seq:  111    17:40:40 09 Jun 1998 HG
                              SDAW2*18
Hg    .031    ppb        .000      .031

*** Sample ID:                          Seq:  112    17:43:00 09 Jun 1998 HG
                              SDAW2*19
Hg    .030    ppb        .000      .030

*** Check Standard: 2  Ck2              Seq:  113    17:45:20 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.17    5.00   ppb        .000

*** Check Standard: 1  Ck1              Seq:  114    17:47:55 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .012     .200     ppb        .000

*** Sample ID:                          Seq:  115    18:06:19 09 Jun 1998 HG
                              MB*QC*1
Hg    .049    ppb        .000      .049

*** Sample ID:                          Seq:  116    18:10:04 09 Jun 1998 HG
                              LCS*QC*1
Hg    6.97    ppb        .000      6.97

*** Sample ID:                          Seq:  117    18:12:44 09 Jun 1998 HG
                              EFM2S*11
Hg    1.28    ppb        .000      1.28
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  118    18:15:06 09 Jun 1998 HG
                              SPM1*EFM2S*11
Hg    6.39    ppb        .000      6.39

*** Sample ID:                          Seq:  119    18:17:47 09 Jun 1998 HG
                              SPM2*EFM2S*11
Hg    5.75    ppb        .000      5.75

*** Check Standard: 2  Ck2              Seq:  120    18:20:27 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     5.00    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  121    18:23:07 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .008     .200    ppb        .000

*** Sample ID:                          Seq:  122    18:29:09 09 Jun 1998 HG
                              MB*QC*1
Hg    .052    ppb        .000      .052

*** Sample ID:                          Seq:  123    18:31:25 09 Jun 1998 HG
                              MB*QC*2
Hg    .056    ppb        .000      .056

*** Sample ID:                          Seq:  124    18:36:12 09 Jun 1998 HG
                              LCS*QC*1
Hg    6.92    ppb        .000      6.92

*** Sample ID:                          Seq:  125    18:40:03 09 Jun 1998 HG
                              LCS*QC*2
Hg    6.08    ppb        .000      6.08

*** Sample ID:                          Seq:  126    18:42:32 09 Jun 1998 HG
                              SDAS2*1
Hg    .288    ppb        .000      .288

*** Sample ID:                          Seq:  127    18:44:48 09 Jun 1998 HG
                              SDAS2*2
Hg    .291    ppb        .000      .291

*** Sample ID:                          Seq:  128    18:47:04 09 Jun 1998 HG
                              SDAS2*16
Hg    .462    ppb        .000      .462

*** Sample ID:                          Seq:  129    18:49:21 09 Jun 1998 HG
                              SDAS2*17
Hg    1.42    ppb        .000      1.42
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  130    18:51:42 09 Jun 1998 HG
                              RP*SDAS2*17
Hg    .988    ppb        .000      .988

*** Sample ID:                          Seq:  131    18:53:59 09 Jun 1998 HG
                              SPM1*SDAS2*17
Hg    1.63    ppb        .000      1.63

*** Check Standard: 2  Ck2              Seq:  132    18:56:23 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.4     4.97    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  133    18:58:57 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .000     .200     ppb        .000

*** Sample ID:                          Seq:  134    19:01:14 09 Jun 1998 HG
                              SDAS2*18
Hg    .337    ppb        .000      .337

*** Sample ID:                          Seq:  135    19:03:31 09 Jun 1998 HG
                              SDAS2*19
Hg    .216    ppb        .000      .216

*** Sample ID:                          Seq:  136    19:05:46 09 Jun 1998 HG
                              SDAS2*20
Hg    .544    ppb        .000      .544

*** Sample ID:                          Seq:  137    19:08:02 09 Jun 1998 HG
                              SDAS2*21
Hg    .372    ppb        .000      .372

*** Sample ID:                          Seq:  138    19:10:17 09 Jun 1998 HG
                              SDAS2*22
Hg    .644    ppb        .000      .644

*** Sample ID:                          Seq:  139    19:12:32 09 Jun 1998 HG
                              SDAS2*23
Hg    1.29    ppb        .000      1.29

*** Sample ID:                          Seq:  140    19:14:52 09 Jun 1998 HG
                              SDAS2*24
Hg    .979    ppb        .000      .979

*** Sample ID:                          Seq:  141    19:17:10 09 Jun 1998 HG
                              SDAS2*25
Hg    1.22    ppb        .000      1.22
```

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Sample ID: Seq: 142 19:19:29 09 Jun 1998 HG
SDAS2*30

| | | | | |
|---|---|---|---|---|
| Hg | .152 | ppb | .000 | .152 |

*** Sample ID: Seq: 143 19:21:45 09 Jun 1998 HG
SDAS2*32

| | | | | |
|---|---|---|---|---|
| Hg | .141 | ppb | .000 | .141 |

*** Check Standard: 2 Ck2 Seq: 144 19:42:21 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 101. | 5.06 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 145 19:46:41 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .040 | .200 | ppb | .000 |

*** Sample ID: Seq: 146 19:48:58 09 Jun 1998 HG
SDAS2*33

| | | | | |
|---|---|---|---|---|
| Hg | .135 | ppb | .000 | .135 |

*** Sample ID: Seq: 147 19:51:14 09 Jun 1998 HG
SDAS2*37

| | | | | |
|---|---|---|---|---|
| Hg | .189 | ppb | .000 | .189 |

*** Sample ID: Seq: 148 19:53:29 09 Jun 1998 HG
SDAS2*38

| | | | | |
|---|---|---|---|---|
| Hg | .222 | ppb | .000 | .222 |

*** Sample ID: Seq: 149 19:55:42 09 Jun 1998 HG
SDAS2*39

| | | | | |
|---|---|---|---|---|
| Hg | .207 | ppb | .000 | .207 |

*** Sample ID: Seq: 150 19:57:55 09 Jun 1998 HG
SDAS2*40

| | | | | |
|---|---|---|---|---|
| Hg | .177 | ppb | .000 | .177 |

*** Sample ID: Seq: 151 20:00:09 09 Jun 1998 HG
SDAS2*41

| | | | | |
|---|---|---|---|---|
| Hg | .831 | ppb | .000 | .831 |

*** Sample ID: Seq: 152 20:02:26 09 Jun 1998 HG
SDAS2*42

| | | | | |
|---|---|---|---|---|
| Hg | .161 | ppb | .000 | .161 |

*** Sample ID: Seq: 153 20:04:40 09 Jun 1998 HG
SDAS2*43

| | | | | |
|---|---|---|---|---|
| Hg | .844 | ppb | .000 | .844 |

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  154    20:06:54 09 Jun 1998 HG
                              SDAS2*44
Hg    .117    ppb        .000      .117

*** Sample ID:                          Seq:  155    20:09:08 09 Jun 1998 HG
                              SDAS2*45
Hg    1.67    ppb        .000      1.67

*** Check Standard: 2  Ck2              Seq:  156    20:11:31 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.    5.08    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  157    20:14:06 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .009    .200    ppb         .000

*** Sample ID:                          Seq:  158    20:16:22 09 Jun 1998 HG
                              SDAS2*46
Hg    .196    ppb        .000      .196

*** Sample ID:                          Seq:  159    20:18:36 09 Jun 1998 HG
                              SDAS2*47
Hg    2.12    ppb        .000      2.12

*** Sample ID:                          Seq:  160    20:21:01 09 Jun 1998 HG
                              SDAS2*48
Hg    .323    ppb        .000      .323

*** Sample ID:                          Seq:  161    20:23:14 09 Jun 1998 HG
                              SDAS2*49
Hg    .320    ppb        .000      .320

*** Sample ID:                          Seq:  162    20:25:27 09 Jun 1998 HG
                              SDAS2*50
Hg    .197    ppb        .000      .197

*** Sample ID:                          Seq:  163    20:27:40 09 Jun 1998 HG
                              SDAS2*51
Hg    .215    ppb        .000      .215

*** Sample ID:                          Seq:  164    20:29:53 09 Jun 1998 HG
                              SDAS2*52
Hg    1.48    ppb        .000      1.48

*** Sample ID:                          Seq:  165    20:32:10 09 Jun 1998 HG
                              SDAS2*53
Hg    .240    ppb        .000      .240
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID:                          Seq:  166    20:34:24 09 Jun 1998 HG
                              SDAS2*54
Hg    .176    ppb        .000      .176

*** Sample ID:                          Seq:  167    20:36:38 09 Jun 1998 HG
                              SDAS2*55
Hg    .612    ppb        .000      .612

*** Check Standard: 2  Ck2              Seq:  168    20:38:56 09 Jun 1998 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     5.00    5.00  ppb         .000

*** Check Standard: 1  Ck1              Seq:  169    20:41:36 09 Jun 1998 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .017     .200     ppb        .000

*** Sample ID:                          Seq:  170    20:43:52 09 Jun 1998 HG
                              SDAS2*56
Hg    .257    ppb        .000      .257

*** Sample ID:                          Seq:  171    20:46:06 09 Jun 1998 HG
                              SDAS2*57
Hg    .148    ppb        .000      .148

*** Sample ID:                          Seq:  172    20:48:20 09 Jun 1998 HG
                              SDAS2*58
Hg    .180    ppb        .000      .180

*** Sample ID:                          Seq:  173    20:50:34 09 Jun 1998 HG
                              RP*SDAS2*58
Hg    .184    ppb        .000      .184

*** Sample ID:                          Seq:  174    20:52:48 09 Jun 1998 HG
                              SPM1*SDAS2*58
Hg    1.26    ppb        .000      1.26

*** Sample ID:                          Seq:  175    20:55:05 09 Jun 1998 HG
                              SDAS2*59
Hg    .184    ppb        .000      .184

*** Sample ID:                          Seq:  176    20:57:19 09 Jun 1998 HG
                              SDAS2*60
Hg    .134    ppb        .000      .134

*** Sample ID:                          Seq:  177    20:59:33 09 Jun 1998 HG
                              SDAS2*61
Hg    .164    ppb        .000      .164
```

| Line | Conc. | Units | SD/RSD | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|

*** Check Standard: 2 Ck2 Seq: 178 21:01:50 09 Jun 1998 HG

| Line | Flag | %Rcv. | Found | True | Units | SD/RSD |
|---|---|---|---|---|---|---|
| Hg | | 101. | 5.03 | 5.00 | ppb | .000 |

*** Check Standard: 1 Ck1 Seq: 179 21:04:31 09 Jun 1998 HG

| Line | Flag | Found | Range(+/-) | Units | SD/RSD |
|---|---|---|---|---|---|
| Hg | | .017 | .200 | ppb | .000 |

# Other Relevant Documentation

QST BATCH : G91043

QC TYPE : FDER/SW
ANALYST : BARBARA SEIGLER
EXTRACTOR : BARBARA SEIGLER
DATA ENTRY : PS200 UPLOAD

REPORT DATE/TIME : 06/11/98 12:17
ANALYSIS DATE/TIME : 06/09/98
EXTRACT DATE : 06/08/98

STATUS : ACTIVE

METHOD BLANK CORRECTION METHOD : NONE

| FIELD GRP | QC TYPE | PROJECT NUMBER | PROJECT NAME | LAB COORDINATOR |
|---|---|---|---|---|
| TBRKW1 | FDER | 1298522V L204 | TECHLAW BRICK F | ANDREW WEITZ |

Sample Specific Raw Data

| SAMPLE CODE | EXTRACT DATE | ANALYSIS DATE | ANALYSIS TIME | SAMPLE VOL or WT (NA) | EXTRACT VOL or WT (NA) | INJECTION VOLUME (NA) | %MOISTURE |
|---|---|---|---|---|---|---|---|
| ICV*QC*1 | 06/08/98 | 06/09/98 | 12:11PM | | | | |
| ICB*QC*1 | 06/08/98 | 06/09/98 | 12:14PM | | | | |
| CRA*QC*1 | 06/08/98 | 06/09/98 | 12:16PM | | | | |
| CCV*QC*1 | 06/08/98 | 06/09/98 | 12:18PM | | | | |
| CCB*QC*1 | 06/08/98 | 06/09/98 | 12:21PM | | | | |
| CCV*QC*2 | 06/08/98 | 06/09/98 | 03:13PM | | | | |
| CCB*QC*2 | 06/08/98 | 06/09/98 | 03:15PM | | | | |
| MB*QC*1 | 06/08/98 | 06/09/98 | 03:17PM | | | | |
| SP*QC*1 | 06/08/98 | 06/09/98 | 03:20PM | | | | |
| DA*TBRKW1*1 | 06/08/98 | 06/09/98 | 03:22PM | | | | |
| SPM1*TBRKW1*1 | 06/08/98 | 06/09/98 | 03:24PM | | | | |
| SPM2*TBRKW1*1 | 06/08/98 | 06/09/98 | 03:51PM | | | | |
| DA*TBRKW1*2 | 06/08/98 | 06/09/98 | 03:29PM | | | | |
| DA*TBRKW1*3 | 06/08/98 | 06/09/98 | 03:31PM | | | | |
| DA*TBRKW1*4 | 06/08/98 | 06/09/98 | 03:34PM | | | | |
| DA*TBRKW1*5 | 06/08/98 | 06/09/98 | 03:36PM | | | | |
| DA*TBRKW1*6 | 06/08/98 | 06/09/98 | 03:39PM | | | | |
| CCV*QC*3 | 06/08/98 | 06/09/98 | 03:41PM | | | | |
| CCB*QC*3 | 06/08/98 | 06/09/98 | 03:44PM | | | | |
| DA*TBRKW1*7 | 06/08/98 | 06/09/98 | 03:53PM | | | | |
| DA*TBRKW1*8 | 06/08/98 | 06/09/98 | 03:56PM | | | | |
| DA*TBRKW1*9 | 06/08/98 | 06/09/98 | 03:58PM | | | | |
| DA*TBRKW1*10 | 06/08/98 | 06/09/98 | 04:00PM | | | | |
| DA*TBRKW1*11 | 06/08/98 | 06/09/98 | 04:03PM | | | | |
| DA*TBRKW1*12 | 06/08/98 | 06/09/98 | 04:05PM | | | | |
| DA*TBRKW1*13 | 06/08/98 | 06/09/98 | 04:07PM | | | | |
| DA*TBRKW1*14 | 06/08/98 | 06/09/98 | 04:10PM | | | | |
| CCV*QC*4 | 06/08/98 | 06/09/98 | 04:12PM | | | | |
| CCB*QC*4 | 06/08/98 | 06/09/98 | 04:15PM | | | | |

Parameter Specific Raw Data

| SAMPLE CODE | STORET METHOD | STAT | RESP (UG/L) | UNC CONC (UG/L) | DIL | TYPE | CRV | RET TIME | SPIKE SOL CONC (NA) | SPIKE SAMP VOL (NA) | SPIKE VOLUME (NA) | DIL CODE | CALC'D TARGET (UG/L) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ICV*QC*1 | 71900*7470-G | OK | 5.14 | 5.14 | | | | | | | | | 5 |
| ICB*QC*1 | 71900*7470-G | OK | .025 | 0.03 | | | | | | | | | |
| CRA*QC*1 | 71900*7470-G | OK | .233 | 0.23 | | | | | | | | | 0.2 |
| CCV*QC*1 | 71900*7470-G | OK | 4.51 | 4.51 | | | | | | | | | 5 |
| CCB*QC*1 | 71900*7470-G | OK | .039 | 0.04 | | | | | | | | | |
| CCV*QC*2 | 71900*7470-G | OK | 4.74 | 4.74 | | | | | | | | | 5 |
| CCB*QC*2 | 71900*7470-G | OK | .021 | 0.02 | | | | | | | | | |
| MB*QC*1 | 71900*7470-G | OK | 0 | 0.0 | | | | | | | | | |
| SP*QC*1 | 71900*7470-G | OK | 5.38 | 5.38 | | | | | | | | | 5 |
| DA*TBRKW1*1 | 71900*7470-G | OK | 0 | 0.0 | | | | | | | | | |
| SPM1*TBRKW1*1 | 71900*7470-G | OK | 5.19 | 5.19 | | | | | | | | | 5 |
| SPM2*TBRKW1*1 | 71900*7470-G | OK | 5.36 | 5.36 | | | | | | | | | 5 |
| DA*TBRKW1*2 | 71900*7470-G | OK | .074 | 0.07 | | | | | | | | | |
| DA*TBRKW1*3 | 71900*7470-G | OK | .073 | 0.07 | | | | | | | | | |
| DA*TBRKW1*4 | 71900*7470-G | OK | .078 | 0.08 | | | | | | | | | |
| DA*TBRKW1*5 | 71900*7470-G | OK | 3.65 | 3.65 | | | | | | | | | |
| DA*TBRKW1*6 | 71900*7470-G | OK | 1.83 | 1.83 | | | | | | | | | |
| CCV*QC*3 | 71900*7470-G | OK | 4.70 | 4.70 | | | | | | | | | 5 |
| CCB*QC*3 | 71900*7470-G | OK | .011 | 0.01 | | | | | | | | | |
| DA*TBRKW1*7 | 71900*7470-G | OK | .011 | 0.01 | | | | | | | | | |
| DA*TBRKW1*8 | 71900*7470-G | OK | 8.28 | 8.28 | | | | | | | | | |
| DA*TBRKW1*9 | 71900*7470-G | OK | -.034 | -.03 | | | | | | | | | |
| DA*TBRKW1*10 | 71900*7470-G | OK | .040 | 0.04 | | | | | | | | | |
| DA*TBRKW1*11 | 71900*7470-G | OK | .047 | 0.05 | | | | | | | | | |
| DA*TBRKW1*12 | 71900*7470-G | OK | 1.50 | 1.50 | | | | | | | | | |
| DA*TBRKW1*13 | 71900*7470-G | OK | .163 | 0.16 | | | | | | | | | |
| DA*TBRKW1*14 | 71900*7470-G | OK | .029 | 0.03 | | | | | | | | | |
| CCV*QC*4 | 71900*7470-G | OK | 5.11 | 5.11 | | | | | | | | | 5 |
| CCB*QC*4 | 71900*7470-G | OK | .004 | 0.004 | | | | | | | | | |

HOLDING TIMES CHECK

| SAMPLE | ANALYTE | ANL DATE | EXT DATE | SMP DATE | H.T. OVER |
|---|---|---|---|---|---|

ALL HOLDING TIMES MET

STORET: 71900 METHOD: 7470-G MERCURY, UG/L FINAL

CALIBRATION CURVE # 1
DETECTION LIMIT = 0.2 DATE: 06/09/98 LARGEST RESP= %RSD=

| | | | | | | |
|---|---|---|---|---|---|---|
| CONC : | .000 | .200 | .500 | 1.00 | 5.00 | 10.0 |
| RESP : | 444 | 3280 | 6269 | 16449 | 82263 | 160549 |
| CONC' : | | | | | | |

CONC = + *RESP+ *RESP**2+ *RESP**3
95% C.I.=
CORRELATION COEFFICIENT =

METHOD BLANK(S)

| SAMPLE ID | CONCENTRATION |
|---|---|
| QC*1 | 0.0 |

CONTINUING CALIBRATION BLANK(S)

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.04 | 0.2 |
| QC*2 | 0.02 | 0.2 |
| QC*3 | 0.01 | 0.2 |
| QC*4 | 0.004 | 0.2 |

CONTINUING CALIBRATION VERIFICATION SAMPLE(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 4.51 | 5.00 | -9.8 |
| QC*2 | 4.74 | 5.00 | -5.2 |
| QC*3 | 4.70 | 5.00 | -6.0 |
| QC*4 | 5.11 | 5.00 | 2.2 |

CRDL Solution (Certified Reporting AA Analysis) *** Optional Quality Control Check ***

| SAMPLE ID | CALC. CONC | KNOWN CONC | RECOVERY |
|---|---|---|---|
| QC*1 | 0.23 | 0.20 | 115.0 |

INITIAL CALIBRATION BLANK(S)

| SAMPLE ID | CALC. CONC | C.R.D.L. |
|---|---|---|
| QC*1 | 0.03 | 0.2 |

INITIAL CALIBRATION VERIFICATION STANDARD(S)

| SAMPLE ID | CALC. CONC | KNOWN CONC | DIFFERENCE% |
|---|---|---|---|
| QC*1 | 5.14 | 5.00 | 2.8 |

STANDARD MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SP*QC*1 | 0.0 | 5.38 | 5.38 | 5.00 | 107.6 | |

SAMPLE MATRIX SPIKE(S)

| SAMPLE ID | UNSP CONC | SPK CONC | FOUND | TARGET | % RECV | REL%DIFF. |
|---|---|---|---|---|---|---|
| SPM1*TBRXW1*1 | 0.0 | 5.19 | 5.19 | 5.00 | 103.8 | |
| SPM2*TBRXW1*1 | 0.0 | 5.36 | 5.36 | 5.00 | 107.2 | 3.2 |

71900
7470
MERCURY

| SAMPLE ID | UG/L |
|---|---|
| MB*QC*1 | 0.0 |
| TBRKW1*1 | <0.20 |
| TBRKW1*2 | <0.20 |
| TBRKW1*3 | <0.20 |
| TBRKW1*4 | <0.20 |
| TBRKW1*5 | 3.65 |
| TBRKW1*6 | 1.83 |
| TBRKW1*7 | <0.20 |
| TBRKW1*8 | 8.28 |
| TBRKW1*9 | <0.20 |
| TBRKW1*10 | <0.20 |
| TBRKW1*11 | <0.20 |
| TBRKW1*12 | 1.50 |
| TBRKW1*13 | <0.20 |
| TBRKW1*14 | <0.20 |

## UNITS AND EXAMPLE CALCULATIONS

| | UNITS ENTERED |
|---|---|
| FINAL CONCENTRATION | UG/L |
| INJECTION VOLUME | NA |
| SAMPLE VOLUME | NA |
| EXTRACT VOLUME | NA |
| CURVE CONCENTRATION | UG/L |
| SPIKE SOLN CONCENTRATION | NA |
| SPIKE VOLUME | NA |
| SPIKE SAMPLE VOLUME | NA |
| TARGET CONCENTRATION | UG/L |
| RESPONSE DESCRIPTION | UG/L |
| CONVERSION FACTOR | 1 |

$$\text{FINAL CONC} = \frac{\text{CURV CONC} * \text{EXT VOL} * \text{DIL} * 1}{\text{INJ VOL} * \text{SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{UG/L} = \frac{(\text{UG/L}) * (\text{NA}) * 1}{(\text{NA}) * (\text{NA})}$$

$$(\qquad) = \frac{(\qquad\qquad) * (\qquad\qquad) * (\qquad)}{(\qquad\qquad) * (\qquad\qquad) * ((100 - (\qquad\qquad)) / 100)}$$

$$\text{TARGET CONC} = \frac{\text{SPIKE SOLN CONC} * \text{SPIKE VOL}}{\text{SPIKE SAMP VOL} * ((100 - \%\text{MOISTURE}) / 100)}$$

$$\text{UG/L} = \frac{(\text{NA}) * (\text{NA})}{(\text{NA})}$$

QST Environmental Analytical Services
Computer QC Checks

Batch No.: G91043 Analysis Date: 06/09/98 Analyst: BARBARA SEIGLER Report Date: 06/11/98

| | | "Exceptions" | |
|---|---|---|---|
| | Yes | No | See Batch Comments |
| Are ALL units documented in batch? | X | | |
| Analysis holding time within criteria? | X | | |
| CCB present? | X | | |
| CCB within acceptance criteria? | X | | |
| CCV present? | X | | |
| CCV within acceptance criteria? | X | | |
| ICB present? | X | | |
| ICB within acceptance criteria? | X | | |
| ICV present? | X | | |
| ICV within acceptance criteria? | X | | |
| Method blank present? | X | | |
| Method blank within acceptance criteria? | X | | |
| Standard matrix spike present? | X | | |
| Standard matrix spike within acceptance criteria? | X | | |
| Sample matrix spike present? | X | | |
| Sample matrix spike within acceptance criteria? | X | | |
| Sample matrix spike duplicate present? | X | | |
| Sample matrix spike duplicate within acceptance criteria? | X | | |

Note: Any "NO" answer requires a comment.

QST Environmental Analytical Services
Internal QA/QC Batch Checklist For Atomic Spectroscopy

Batch No.: G91043 Analysis Date: 06/09/98 Analyst: BARBARA SEIGLER

| | N/A | Yes | No | "Exceptions" Comment/Corrective Action |
|---|---|---|---|---|
| Is the method blank free of contamination? | | ✓ | | |
| If not, has the data been blank corrected? | ✓ | | | |
| Are reported values consistent with the required units? | | ✓ | | |
| Are detection limits reported correctly? | | ✓ | | |
| Are dilution factors entered correctly? | ✓ | | | |
| Is the calibration curve (if applicable) entered correctly? | ✓ | | | |
| Is the curve correlation coefficient >= 0.995 ? | ✓ | | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are all the correct elements included in the spikes? | | ✓ | | |
| Is the batch checked for data entry error(s)? | | ✓ | | |
| Are continuing calibration blanks analyzed at a frequency specified in the appropriate QA/QC Plan (i.e. AF, COE or FDER QA/QC plan)? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Are continuing calibration verification (CCV) standards analyzed at a frequency specified in the appropriate QA/QC Plan? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |
| Is an example calculation provided? | ✓ | | | |
| Has the batch documentation checklist been completed? | | ✓ | | |
| Were the first extracts/digests prepped from this sample used for sample analysis? | | ✓ | | |
| If not, is an appropriate explanation provided? | ✓ | | | |

Note: Any "NO" answer requires a comment.
Additional Comments:

Completed By Barbara A. Seigler Reviewed By M. L. Manuel
Date 6/11/98 Date 6/11/98

Notification of appropriate Laboratory Coordinators required for "Exceptions":

| Signature | Date | Comments |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

BATCH OVERRIDE BY:

FINALIZED BY:

# QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # B1618

Matrix Soils/$H_2O$ Method/QC Type FDer/Clp

SOP No. 7470A, 7471A, HG01.0W Lot No.(s)

| | Spike Solutions Used HG04.0W | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|---|
| 1. | 100ppb HG | 6/8/98 | BAS | 6/9/98 |
| 2. | | | | |
| 3. | | | | |

| | Reagents Used | Lot No. |
|---|---|---|
| 1. | BAKER $KMnO_4$ | K02666 |
| 2. | $K_2SO_4$ | J03777 |
| 3. | $H_2SO_4$ | L13028 |
| 4. | $HNO_3$ | L24025 |
| 5. | | |
| 6. | | |

Final Vol. (ml) 25. Pipets Used F701408

Balance No. 13 Water bath temp. 95

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| MB1 | | |
| MB2 | | |
| SP 1 | | 1.25ml #1 |
| SP 2 | | " " |
| 1FENVS6 * 2 | | |
| spm1 2 | | 1.25ml #1 |
| spm2 2 | | " " |
| 6 | | |
| 7 | | |
| 9 | | |
| 10 | | |
| 12 | | |
| 15 | | |
| 16 | | |
| 17 | | |
| 18 | | |
| 19 | | |
| 20 | | |
| 21 | | |
| 22 | | |

Barbara A. Seigler 6/8/98 [signature] 6/9/98

Signed Date Read & Understood By Date

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## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Book # 1618

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| !#ENVS6* 23 | | |
| 24 | | |
| 25 | | |
| 26 | | |
| !#TRW6 * 3 | | |
| 4 | | |
| !#PRP6* 4 | | |
| spm1 4 | | 1.25ml / #1 |
| spm2 4 | | " / " |
| 5 | | |
| 7 | | |
| 8 | | |
| MB | | |
| SP | | 1.25ml / #1 |
| TBRKW1*1 | | |
| spm1 1 | | 1.25ml / #1 |
| spm2 1 | | " / " |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | | |

Comments:

Barbara A. Snyder 6/8/98 — 6/9/98

Signed — Date — Read & Understood By — Date

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## QST ENVIRONMENTAL - ATOMIC SPECTROSCOPY Hg SAMPLE PREP

Continuation

Book # 1618

Matrix_____ Method/QC Type_____

SOP No._____ Lot No.(s)_____

| Spike Solutions Used | Prep Date | Prep'd by | Exp. Date |
|---|---|---|---|
| 1. | | | |
| 2. | | | |
| 3. | | | |

See Pg 1 BAS 6/8/98

| Reagents Used | Lot No. |
|---|---|
| 1. | |
| 2. | |
| 3. | |
| 4. | |
| 5. | |
| 6. | |

Final Vol. (ml)_____ Pipets Used_____

Balance No._____ Water bath temp._____

| Sample No. | Weight (g)/ Init. Vol. (ml) | Spike Information |
|---|---|---|
| TBRKW1* 13 | | |
| 14 | | |
| MB | | |
| SP | | .250ml #1 |
| !UICLPC1* 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| !UIFLPC1* 30 | | |
| ~~spm1~~ RP 30 | | |
| spm2 30 | | |
| 31 | | |
| 32 | | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| MB | | |

Barbara J. Seigler 6/8/98 [signature] 6/9/98

Signed Date Read & Understood By Date

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## 100 ppb Hg Calibration and Spike Solutions

| Element | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|
| **100 ppb Hg Calibration Sol'n (1:118-1)** | | | | | | |
| Hg | High Purity | 813419 | 05/18/99 | 10 | 1.0 | 100 |
| **100 ppb Hg Spike Sol'n (1:118-2)** | | | | | | |
| Hg | High Purity | 813420 | 05/18/99 | 10 | 1.0 | 100 |

Solution was made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 100 mL. Solution expires daily.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | Barbara A. Seigler | 5/18/98 | 5/19/98 | [illegible] | 5/18/98 |
| B) | Julie W. Fagan | 5/19/98 | 5/20/98 | Kent Brakefield | 5/20/98 |
| C) | Julie W. Fagan | 5/20/98 | 5/21/98 | Kent Brakefield | 5/20/98 |
| D) | Barbara A. Seigler | 5/21/98 | 5/22/98 | [illegible] | 5/21/98 |
| E) | Barbara A. Seigler | 5/22/98 | 5/23/98 | [illegible] | 5/22/98 |
| F) | Barbara A. Seigler | 5/26/98 | 5/27/98 | Julie W. Fagan | 5/26/98 |
| G) | Julie W. Fagan | 5/27/98 | 5/28/98 | Kent Brakefield | 5/27/98 |
| H) | Barbara A. Seigler | 5/28/98 | 5/29/98 | [illegible] | 5/28/98 |
| I) | Julie W. Fagan | 6/2/98 | 6/3/98 | Kent Brakefield | 6/2/98 |
| J) | Barbara A. Seigler | 6/4/98 | 6/5/98 | [illegible] | 6/4/98 |
| K) | Barbara A. Seigler | 6/8/98 | 6/9/98 | [illegible] | 6/8/98 |
| L) | | | | | |
| M) | | | | | |
| N) | | | | | |
| O) | | | | | |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |
| T) | | | | | |
| U) | | | | | |
| V) | | | | | |
| W) | | | | | |

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Notebook: 1
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## Hg Reference (ICV Sol'n) (1:100)

| Solution | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|
| Multi-Element Std. | PE Pure | 9-123AS | 9/26/98 | 10.0 | 0.5 | 5.0 |

Solution is made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 1000 mL. This solution expires semi-annually.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | [signature] | 4/3/97 | 10/3/97 | [signature] | 4/3/97 |
| B) | [signature] | 4/17/97 | 10/17/97 | [signature] | 4/18/97 |
| C) | [signature] | 4/18/97 | 10/18/97 | [signature] | 4/18/97 |
| D) | [signature] | 4/28/97 | 10/28/97 ~~11~~ WEM 4/28/97 | [signature] | 4/28/97 |
| E) | [signature] | 5/14/97 | 11/14/97 ~~Lot~~ WEM 5/14/97 | [signature] | 5-16-97 |
| F) | [signature] | 6/3/97 | 12/3/97 | [signature] | 6/3/97 |
| G) | [signature] | 7/6/97 | 1/6/98 | [signature] | 1/6/~~98~~ 97 WF 7/6/97 WF |
| H) | [signature] | 1/7/98 | 6/7/98 | [signature] | 1-16-98 |
| I) | [signature] | 1/19/98 | 6/20/98 | [signature] | 1/19/98 |
| J) | [signature] | 1/21/98 | 7-22-98 | [signature] | 1/21/98 |
| K) | Barbara A. Seigler | 4/30/98 ~~5/1/98~~ | 10/31/98 | [signature] | 5/5/98 |
| L) | Barbara A. Seigler | 5/28/98 | 11-28-98 ~~5/29/98~~ | [signature] | 5/28/98 |
| M) | | | | | |
| N) | | | | | |
| O) | | | | | |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |

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## 100 ppb Hg Calibration and Spike Solutions

| | Element | Vendor | Lot No. | Exp. Date | Stock Conc. (ppm) | Volume Used (mL) | Final Conc. (ppb) |
|---|---|---|---|---|---|---|---|
| **100 ppb Hg Calibration Sol'n (1:118-1)** | | | | | | | |
| | Hg | High Purity | 813419 | 05/18/99 | 10 | 1.0 | 100 |
| **100 ppb Hg Spike Sol'n (1:118-2)** | | | | | | | |
| | Hg | High Purity | 813420 | 05/18/99 | 10 | 1.0 | 100 |

Solution was made to a final acid concentration of 1% (v/v) conc. HNO3, and to a final volume of 100 mL. Solution expires daily.

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| A) | Barbara A. Seigler | 5/18/98 | 5/19/98 | [signature] | 5/18/98 |
| B) | Julie M. Hasan | 5/19/98 | 5/20/98 | Kent Brakefield | 5/20/98 |
| C) | Julie M. Hasan | 5/20/98 | 5/21/98 | Kent Brakefield | 5/20/98 |
| D) | Barbara A. Seigler | 5/21/98 | 5/22/98 | [signature] | 5/21/98 |
| E) | Barbara A. Seigler | 5/22/98 | 5/23/98 | [signature] | 5/22/98 |
| F) | Barbara A. Seigler | 5/26/98 | 5/27/98 | Julie M. Hasan | 5/26/98 |
| G) | Julie M. Hasan | 5/27/98 | 5/28/98 | Kent Brakefield | 5/27/98 |
| H) | Barbara A. Seigler | 5/28/98 | 5/29/98 | [signature] | 5/28/98 |
| I) | Julie M. Hasan | 6/2/98 | 6/3/98 | Kent Brakefield | 6/2/98 |
| J) | Barbara A. Seigler | 6/4/98 | 6/5/98 | [signature] | 6/4/98 |
| K) | Barbara A. Seigler | 6/8/98 | 6/9/98 | [signature] | 6/8/98 |
| L) | | | | | |
| M) | | | | | |
| N) | | | | | |
| O) | | | | | |
| P) | | | | | |
| Q) | | | | | |
| R) | | | | | |
| S) | | | | | |
| T) | | | | | |
| U) | | | | | |
| V) | | | | | |
| W) | | | | | |

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## HG –5% Potassium Permanganate Solution (1:110)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| POTASSIUM PERMANGANATE | JT BAKER | K02669 | 09/30/98 |

The solution was made by disolving 100 g of the reagent above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. Nichols | 10/13/97 | 10/13/98 | Robert W. Field | 10/13/97 |
| b | Robert W. Field | 11/14/97 | 11/14/98 | David V. Nichols | 11/14/97 |
| c | [illegible] | 12/15/97 | 12/15/98 | Barbara A. Seiglet | 12/15/97 |
| d | ~~[illegible]~~ | ~~1/19/98~~ | ~~1/20/98~~ | ~~[illegible]~~ | ~~1/19/98~~ |
| e | David V. Nichols | 3/24/98 | 3/24/99 | [illegible] | 3/24/98 |
| f | ~~David V. Nichols~~ | ~~3/31/98~~ | ~~4/1/98~~ | | |
| g | ~~David V. Nichols~~ | ~~4/1/98~~ | ~~4/2/98~~ | | |
| h | Barbara A. Seiglet | 5/28/98 | 5/28/99 | Kent Brakefield | 5/28/98 |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

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## HG –5% Potassium Persulfate Solution (1:112)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| POTASSIUM PERSULFATE | BAKER | J03777 | 09/26/98 |

The solution was made by disolving 100 g of the reagent above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. Nichol | 10/13/97 | 10/13/98 | Robert W. Floyd | 10/13/98 |
| b | David V. Nichol | 11/14/97 | 11/14/98 | Robert W. Floyd | 11/14/97 |
| c | [illegible] | 12/15/97 | 12/15/98 | Barbara A. Seigler | 12/15/97 |
| WP 11/20/98 d | ~~David V. Nichol~~ | ~~1/19/98~~ | ~~1/20/98~~ | ~~[illegible]~~ | ~~1/15/98~~ |
| e | David V. Nichol | 3/24/98 | 3/24/99 | [illegible] | 3/24/98 |
| f | Barbara A. Seigler | 5/28/98 | 5/28/99 | David Brakefield | 5/28/98 |
| g | | | | | |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

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Notebook: 1
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## HG –Stannous Chloride Solution (1:117)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| Stannous Chloride | BAKER | M04609 | 05/15/99 |

The solution was made by disolving 100 g of the reagent above in DI water add 14 ml of conc H2SO4, and diluting to 1000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | Barbara A Seigler | 5/15/98 | 5/15/99 | [illegible] | 5/15/98 |
| b | | | | | |
| c | | | | | |
| d | | | | | |
| e | | | | | |
| f | | | | | |
| g | | | | | |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

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Notebook: 1
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## HG Sodium Chloride–Hydroxylamine Hydrochloride Solution (1:111)

| REAGENT | MFR | LOT# | EXP |
|---|---|---|---|
| Sodium Chloride | BAKER | K02639 | 9/25/98 |
| Hydroxylamine Hydrochloride | MALLINCKRODT | 5258 KTLZ | 1/31/98 |
| " " | Baker | M04605 | |

The solution was made by disolving 240 g of each of the reagents above in DI water and diluting to 2000 ml in a volumetric flask

| | MADE BY | DATE MADE | SOL'N EXP. DATE | READ AND UNDERSTOOD | DATE |
|---|---|---|---|---|---|
| a | David V. Nichols | 10/13/97 | 10/13/98 | Robt W. Floyd | 10/13/97 |
| b | Robt W. Floyd | 11/14/97 | 11/14/98 | David V. Nichols | 11/14/97 |
| c | [illegible] | 12/15/97 | 12/15/98 | Barbara A. Seigler | 12/15/97 |
| d | Julie M. Pasorn | 4/~~31~~ 12/98 | 4/~~31~~ 12/99 | Kent Brakefield | 4/~~31~~ 12/98 |
| e | Barbara A. Seigler | 5/15/98 | 5/15/99 | [illegible] | 5/15/98 |
| f | | | | | |
| g | | | | | |
| h | | | | | |
| i | | | | | |
| j | | | | | |
| k | | | | | |
| l | | | | | |
| m | | | | | |
| n | | | | | |
| o | | | | | |
| p | | | | | |
| q | | | | | |

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