

Laboratory Data



AIRTECH

*Environmental
Services Inc.*

Gravimetric Analytical Report

Performed for
Big Rivers
Henderson Station
Unit 2
Project No. 3648
August 23, 2011

Analyst: _____


James Christ

The following data has been reviewed for completeness, accuracy, adherence to method protocol and compliance with quality assurance guidelines.

Reviewer: _____

Date: _____


8/23/11

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APPENDIX

Data Entry

Raw Data

Calibration Data

Project Summary

General

| | |
|----------------------------|--------------------|
| Project Information | |
| Date Received | August 5, 2011 |
| Analytical Protocol | EPA Methods 5B/202 |
| Number of Samples Received | 24 |

Analytical Equipment

| Equipment Information | Manufacturer | Model | Serial No. |
|-----------------------|--------------|--------|------------|
| Analytical Balance | Ohaus | AV114C | 8028031056 |

Sample Remarks

All samples were analyzed according to the EPA Method 5 Section 4 and EPA Method 202 Section 11. A summary of the analytical results is presented in Table 1.

QA/QC

All sample weights were taken until two consecutive weights were within 0.0005g. The Ohaus balance was calibrated daily in addition to the yearly full scale calibration that was performed by Automated Scale Corporation on April 12, 2011.

Condition of Samples When Received

Samples were received in good condition.

Table 1. Summary of EPA Methods 5B/202 Results

| | | | | |
|-----------------------------|--------------|--------------|--------------|--|
| Stack | | | | |
| Filterable PM | Run 1 | Run 2 | Run 3 | |
| Front-Half Particulate (g) | 0.0250 | 0.0224 | 0.0096 | |
| | | | | |
| Condensable Particulate | Run 1 | Run 2 | Run 3 | |
| Condensable Particulate (g) | 0.0293 | 0.0219 | 0.0450 | |
| | | | | |
| Total Particulate | Run 1 | Run 2 | Run 3 | |
| Total Particulate (g) | 0.0543 | 0.0443 | 0.0546 | |
| | | | | |
| ESP Outlet | | | | |
| Filterable PM | Run 1 | Run 2 | Run 3 | |
| Front-Half Particulate (g) | 1.8937 | 2.2847 | 2.2718 | |
| | | | | |
| Condensable Particulate | Run 1 | Run 2 | Run 3 | |
| Condensable Particulate (g) | 0.0288 | 0.0217 | 0.0192 | |
| | | | | |
| Total Particulate | Run 1 | Run 2 | Run 3 | |
| Total Particulate (g) | 1.9226 | 2.3065 | 2.2909 | |

Appendix

Includes the following:

- *Data Entry*
- *Raw Data*
- *Calibration Logs*

Data Entry

Includes the following:

- *Filter Data Entry*
- *Front-Half-Rinse Data Entry*
- *Organic Fraction Data Entry*
- *Inorganic Fraction Data Entry*

| Method 5B/202 Parameters | | Run 1 | Run 2 | Run 3 |
|------------------------------------|---------|---------------------------|---------------|---------------|
| <u>Filter</u> | | 12149 | 12150 | 12151 |
| Filter tare weight (g) | Trial 1 | 0.3426 | 0.3424 | 0.3419 |
| | Trial 2 | 0.3426 | 0.3426 | 0.3419 |
| | Average | 0.3426 | 0.3425 | 0.3419 |
| Filter final weight (g) | Trial 1 | 0.3619 | 0.3616 | 0.3480 |
| | Trial 2 | 0.3623 | 0.3621 | 0.3479 |
| | Average | 0.3621 | 0.3619 | 0.3480 |
| Filter net weight, m_f (g) | | 0.0195 | 0.0194 | 0.0061 |
| <u>PM Front Half Wash</u> | | <i>Beaker ID</i> 416 | 419 | 403 |
| Beaker tare weight (g) | Trial 1 | 101.6370 | 104.9943 | 106.6819 |
| | Trial 2 | 101.6370 | 104.9947 | 106.6817 |
| | Average | 101.6370 | 104.9945 | 106.6818 |
| Beaker final weight (g) | Trial 1 | 101.6423 | 104.9975 | 106.6852 |
| | Trial 2 | 101.6428 | 104.9975 | 106.6856 |
| | Average | 101.6426 | 104.9975 | 106.6854 |
| Volume of Wash, V_{aw} (ml) | | 100 | 75 | 80 |
| Beaker net weight, m_a (g) | | 0.0055 | 0.0030 | 0.0036 |
| <u>Organic Fraction</u> | | <i>Weighing tin ID</i> X2 | X3 | X4 |
| Weighing tin tare weight (g) | Trial 1 | 3.5463 | 3.5611 | 3.5601 |
| | Trial 2 | 3.5462 | 3.5611 | 3.5600 |
| | Average | 3.5463 | 3.5611 | 3.5601 |
| Weighing tin final weight (g) | Trial 1 | 3.5545 | 3.5652 | 3.5623 |
| | Trial 2 | 3.5541 | 3.5648 | 3.5626 |
| | Average | 3.5543 | 3.5650 | 3.5625 |
| Volume of Wash, V_{aw} (ml) | | 450 | 400 | 350 |
| Weighing tin net weight, m_a (g) | | 0.0081 | 0.0039 | 0.0024 |
| <u>Inorganic Fraction</u> | | <i>Beaker ID</i> 150 | 213 | 3 |
| Weighing tin tare weight (g) | Trial 1 | 83.1722 | 96.5680 | 98.6632 |
| | Trial 2 | 83.1727 | 96.5682 | 98.6637 |
| | Average | 83.1725 | 96.5681 | 98.6635 |
| Weighing tin final weight (g) | Trial 1 | 83.1948 | 96.5872 | 98.7071 |
| | Trial 2 | 83.1949 | 96.5874 | 98.7074 |
| | Average | 83.1949 | 96.5873 | 98.7073 |
| Volume of Wash, V_{aw} (ml) | | 500 | 450 | 450 |
| Weighing tin net weight, m_a (g) | | 0.0224 | 0.0192 | 0.0438 |

| Method 5B/202 Parameters | | Run 1 | Run 2 | Run 3 |
|--|---------|---------------------------|---------------|---------------|
| <u>Filter</u> | | 12152 | 12153 | 12154 |
| Filter tare weight (g) | Trial 1 | 0.3424 | 0.3417 | 0.3434 |
| | Trial 2 | 0.3424 | 0.3416 | 0.3433 |
| | Average | 0.3424 | 0.3417 | 0.3434 |
| Filter final weight (g) | Trial 1 | 0.8045 | 0.8031 | 0.7447 |
| | Trial 2 | 0.8050 | 0.8029 | 0.7447 |
| | Average | 0.8048 | 0.8030 | 0.7447 |
| Filter net weight, m_f (g) | | 0.4624 | 0.4614 | 0.4014 |
| <u>PM Front Half Wash</u> | | <i>Beaker ID</i> 202 | 227 | 315 |
| Beaker tare weight (g) | Trial 1 | 95.4975 | 84.7008 | 81.6591 |
| | Trial 2 | 95.4980 | 84.7011 | 81.6591 |
| | Average | 95.4978 | 84.7010 | 81.6591 |
| Beaker final weight (g) | Trial 1 | 96.9290 | 86.5241 | 83.5295 |
| | Trial 2 | 96.9292 | 86.5246 | 83.5295 |
| | Average | 96.9291 | 86.5244 | 83.5295 |
| Volume of Wash, V_{aw} (ml) | | 60 | 100 | 100 |
| Beaker net weight, m_a (g) | | 1.4314 | 1.8234 | 1.8704 |
| <u>Organic Fraction</u> | | <i>Weighing tin ID</i> F7 | F8 | X1 |
| Weighing tin tare weight (g) | Trial 1 | 3.5422 | 3.4882 | 3.5454 |
| | Trial 2 | 3.5418 | 3.4881 | 3.5454 |
| | Average | 3.5420 | 3.4882 | 3.5454 |
| Weighing tin final weight (g) | Trial 1 | 3.5572 | 3.5009 | 3.5526 |
| | Trial 2 | 3.5589 | 3.5005 | 3.5531 |
| | Average | 3.5581 | 3.5007 | 3.5529 |
| Volume of Wash, V_{aw} (ml) | | 450 | 500 | 250 |
| Weighing tin net weight, m_a (g) | | 0.0160 | 0.0126 | 0.0075 |
| <u>Inorganic Fraction</u> | | <i>Beaker ID</i> 101 | 142 | 100 |
| Weighing tin tare weight (g) | Trial 1 | 86.9996 | 85.5123 | 88.0000 |
| | Trial 2 | 87.0001 | 85.5123 | 88.0001 |
| | Average | 86.9999 | 85.5123 | 88.0001 |
| Weighing tin final weight (g) | Trial 1 | 87.0137 | 85.5224 | 88.0132 |
| | Trial 2 | 87.0140 | 85.5229 | 88.0127 |
| | Average | 87.0139 | 85.5227 | 88.0130 |
| Volume of Wash, V_{aw} (ml) | | 450 | 450 | 450 |
| Weighing tin net weight, m_a (g) | | 0.0140 | 0.0104 | 0.0129 |

Raw Data

Includes the following:

- *Filter Gravimetric Data Sheets*
- *Beaker Gravimetric Data Sheets*
- *Tin Gravimetric Data Sheets*

Filter Gravimetric Data Sheet

| Run No. | Proj. No./Location | Appearance | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|-----------|--------------------|----------------|--------|-------------|------------|-------------|------------|-------------|------------|---|
| 3 | 3648 Wilson | light spots | Tare | 0.3560 | 6/9 10:58 | 0.3557 | 6/10 11:05 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3614 | 7/27 16:48 | 0.3619 | 7/28 10:29 | | | ✓ |
| | | | Tech | | SH | | MH | | | |
| Filter ID | Stack | | | | | | | | | |
| 12142 | | | | | | | | | | |
| 3 | 3648 Wilson | | Tare | 0.3581 | 6/9 10:59 | 0.3587 | 6/10 11:46 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3674 | 7/27 15:27 | 0.3676 | 7/28 10:13 | | | |
| | | | Tech | | SH | | MH | | | |
| Filter ID | ESP-83 | | | | | | | | | |
| 12143 | | | | | | | | | | |
| 3 | 3648 Wilson | white dots | Tare | 0.3583 | 6/9 11:00 | 0.3586 | 6/10 11:49 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3644 | 7/27 15:27 | 0.3600 | 7/28 10:06 | 0.3600 | 7/28 16:32 | ✓ |
| | | | Tech | | SH | | MH | | MH | |
| Filter ID | ESP-83 | | | | | | | | | |
| 12144 | | | | | | | | | | |
| 1 | Green Stack | grey dots | Tare | 0.3505 | 6/9 10:43 | 0.3502 | 6/10 11:01 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3571 | 8/4 7:36 | 0.3573 | 8/5 10:03 | | | ✓ |
| | | | Tech | | | | MH | | | |
| Filter ID | Unit 1 | | | | | | | | | |
| 12145 | | | | | | | | | | |
| 2 | Green Stack | grey dots | Tare | 0.3543 | 6/9 10:46 | 0.3540 | 6/10 11:01 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3603 | 8/4 7:35 | 0.3604 | 8/5 10:04 | | | ✓ |
| | | | Tech | | | | MH | | | |
| Filter ID | U-1 | | | | | | | | | |
| 12146 | | | | | | | | | | |
| 3 | Green Stack | grey dots | Tare | 0.3526 | 6/9 10:47 | 0.3526 | 6/10 11:00 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3580 | 8/4 7:34 | 0.3582 | 8/5 10:05 | | | ✓ |
| | | | Tech | | | | MH | | | |
| Filter ID | U-1 | | | | | | | | | |
| 12147 | | | | | | | | | | |
| 2 | 3648 Wilson | white | Tare | 0.3507 | 6/9 10:49 | 0.3509 | 6/10 11:00 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3533 | 7/27 16:56 | 0.3532 | 7/28 10:31 | | | ✓ |
| | | | Tech | | SH | | MH | | | |
| Filter ID | ESP-2 | | | | | | | | | |
| 12148 | | | | | | | | | | |
| 1 | 3648 Stack 2 | black | Tare | 0.3126 | 7/11 13:11 | 0.3126 | 7/13 22:02 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| | | | Final | 0.3619 | 8/11 10:37 | 0.3625 | 8/11 16:47 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| Filter ID | | | | | | | | | | |
| 12149 | | | | | | | | | | |
| 2 | 3648 Stack 2 | black | Tare | 0.3424 | 7/11 13:13 | 0.3426 | 7/13 22:02 | | | ✓ |
| | | | Tech | | SH | | | | | |
| | | | Final | 0.3616 | 8/11 10:38 | 0.3621 | 8/11 16:47 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| Filter ID | | | | | | | | | | |
| 12150 | | | | | | | | | | |

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Filter Gravimetric Data Sheet

| Run No. | Proj. No./Location | Appearance | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|-------------------------|---------------------------------------|------------|--------|-------------|------------|-------------|------------|-------------|------|
| 3 Filter ID 12151 | 3648 Stack 2 | Black | Tare | 0.3419 | 7/11 13:15 | 0.3419 | 7/13 22:05 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.3440 | 8/11 10:39 | 0.3479 | 8/11 16:45 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 1 Filter ID 12152 | 3648 Inlet 2 | Black | Tare | 0.3424 | 7/11 13:17 | 0.3424 | 7/13 22:03 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.4045 | 8/11 10:29 | 0.4050 | 8/11 16:41 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 2 Filter ID 12153 | 3648 Inlet 2 | Black | Tare | 0.3417 | 7/11 13:18 | 0.3416 | 7/13 22:04 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.4031 | 8/11 10:29 | 0.4029 | 8/11 16:40 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 3 Filter ID 12154 | 3648 Inlet 2 | Black | Tare | 0.3434 | 7/11 13:19 | 0.3433 | 7/13 22:04 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.7447 | 8/11 10:28 | 0.7448 | 8/11 16:42 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 1 Filter ID 12155 | 3648 Inlet 2 Stack 1 | Black | Tare | 0.3426 | 7/11 13:21 | 0.3425 | 7/13 22:04 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.3669 | 8/11 10:29 | 0.3669 | 8/11 16:42 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 2 Filter ID 12156 | 3648 Stack 1 | Black | Tare | 0.3444 | 7/11 13:27 | 0.3429 | 7/13 22:05 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.8601 | 8/11 10:27 | 0.7650 | 8/11 16:46 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 3 Filter ID 12157 | 3648 Stack 1 | Black | Tare | 0.3429 | 7/11 13:24 | 0.3423 | 7/13 22:05 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.7645 | 8/11 10:26 | 0.7645 | 8/11 16:49 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 1 Filter ID 12158 | Inlet 3648 | Black | Tare | 0.3416 | 7/11 13:25 | 0.3412 | 7/13 22:06 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 0.7700 | 8/11 10:29 | 0.7700 | 8/11 16:48 | | |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 2 Filter ID 12159 | 3648 Inlet | Black | Tare | 0.3446 | 7/11 13:26 | 0.3443 | 7/13 22:06 | | ✓ |
| | | | Tech | | SH | | | | |
| | | | Final | 1.0698 | 8/11 10:26 | 1.0698 | 8/11 16:41 | | |
| | | | Tech | | ML | | ML | | |
| Notes | Filter Grav | | | | | | | | |

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3649

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| | | | |
|--------|------------|---------------|--|
| Client | Dix Rivers | Date Received | |
| Plant | Henderson | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|-----------------------|-----------------------------------|------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 1 Beaker ID 305 | Unit 1 Inlet Fik 150 mls | 5Bkac acetone | Tare | 83.9513 | 8/4 8:23 | 83.9509 | 8/5 10:52 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 86.3890 | 8/11 10:21 | 86.3795 | 8/11 10:33 | | ✓ |
| | | | Tech | | ML | | re | | |
| Notes | | | | | | | | | |
| 2 Beaker ID 304 | Unit 1 Inlet Fik 50 mls | 5Bkac acetone | Tare | 83.3552 | 8/4 8:23 | 83.3552 | 8/5 10:52 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 85.9990 | 8/11 10:22 | 85.9748 | 8/11 10:34 | | ✓ |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 3 Beaker ID 215 | Unit 1 Inlet Fik 50 mls | 5Bkac acetone | Tare | 94.0686 | 8/4 8:24 | 94.0696 | 8/5 10:52 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 95.4687 | 8/11 10:22 | 95.4623 | 8/11 10:37 | | ✓ |
| | | | Tech | | ML | | re | | |
| Notes | | | | | | | | | |
| 1 Beaker ID 418 | Unit 1 Stack Fik 80 mls | 5Bkac acetone | Tare | 97.2095 | 8/4 8:24 | 97.2098 | 8/5 10:51 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 97.2218 | 8/11 10:23 | 97.2220 | 8/11 10:30 | | ✓ |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 2 Beaker ID 211 | Unit 1 Stack 100 mls | 5Bkac acetone | Tare | 93.6430 | 8/4 8:25 | 93.6432 | 8/5 10:51 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 93.6495 | 8/11 10:23 | 93.6476 | 8/11 10:30 | | ✓ |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 3 Beaker ID 103 | Unit 1 Stack 60 mls | 5Bkac acetone | Tare | 86.0287 | 8/14 8:25 | 86.0287 | 8/5 10:50 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 86.0306 | 8/11 10:24 | 86.0309 | 8/11 10:32 | | ✓ |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |
| 1 Beaker ID 202 | Unit 2 Inlet Fik 60 mls | 5Bkac acetone | Tare | 95.4975 | 8/14 8:26 | 95.4980 | 8/5 10:50 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 96.9280 | 8/11 10:28 | 96.9292 | 8/11 10:30 | | ✓ |
| | | | Tech | | ML | | re | | |
| Notes | | | | | | | | | |
| 2 Beaker ID 227 | Unit 2 Inlet Fik 100 mls | 5Bkac acetone | Tare | 84.7008 | 8/14 8:26 | 84.7011 | 8/5 10:49 | | ✓ |
| | | | Tech | | | | MH | | |
| | | | Final | 86.5241 | 8/11 10:18 | 86.5246 | 8/11 10:32 | | ✓ |
| | | | Tech | | ML | | ML | | |
| Notes | | | | | | | | | |

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

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| | | | |
|--------|-------------------|---------------|--|
| Client | <u>Big Rivers</u> | Date Received | |
| Plant | <u>Henderson</u> | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|-----------|--|--------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|
| 3 | Unit 2 Inlet Flk 100 mls | SBC02 active | Tare | 81.6596 | 7/27 12:55 | 81.6591 | 7/28 11:06 | 81.6591 | 8/1 11:33 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 83.5205 | 8/11 10:19 | 83.5205 | 8/11 16:31 | | | ✓ |
| | | | Tech | 83.5205 | ML | | ML | | | |
| Beaker ID | 315 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 1 | Unit 2 Stack Flk 100 mls | SBC02 active | Tare | 101.6385 | 7/27 12:55 | 101.6370 | 7/28 11:07 | 101.6370 | 8/1 11:34 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 101.6423 | 8/11 10:20 | 101.6423 | 8/11 16:37 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| Beaker ID | 466 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 2 | Unit 2 Stack Flk 75 mls | SBC02 active | Tare | 104.9947 | 7/27 12:57 | 104.9943 | 7/28 11:07 | 104.9947 | 8/1 11:34 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 104.9935 | 8/11 10:24 | 104.9935 | 8/11 16:36 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| Beaker ID | 419 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 3 | Unit 2 Stack Flk 50 mls | SBC02 active | Tare | 106.6827 | 7/27 12:58 | 106.6819 | 7/28 11:08 | 106.6817 | 8/1 11:34 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 106.6852 | 8/11 10:25 | 106.6856 | 8/11 16:35 | | | ✓ |
| | | | Tech | | ML | | ML | | | |
| Beaker ID | 403 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 1 | Unit 1 Inlet Bike Inorganic 600 mls | SBC02 DI H2O | Tare | 97.9517 | 7/27 12:59 | 97.9506 | 7/28 11:08 | 97.9508 | 8/1 11:34 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 98.2524 | 8/11 13:53 | 98.2531 | 8/12 10:45 | | | ✓ |
| | | | Tech | | ML | | MH | | | |
| Beaker ID | 414 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 2 | Unit 1 Inlet Bike Inorganic 600 mls | SBC02 DI H2O | Tare | 107.0761 | 7/27 12:00 | 107.0757 | 7/28 11:09 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 107.0900 | 8/11 13:58 | 107.0898 | 8/12 10:46 | | | ✓ |
| | | | Tech | | ML | | MH | | | |
| Beaker ID | 400 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 3 | Unit Inlet Bike Inorganic 500 mls | SBC02 DI H2O | Tare | 106.3741 | 7/27 14:01 | 106.3748 | 7/28 11:10 | 106.3752 | 8/1 11:36 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 106.4845 | 8/12 11:03 | 106.4841 | 8/15 8:34 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Beaker ID | 417 | | | | | | | | | |
| Notes | | | | | | | | | | |
| 1 | Stack Bike Inorganic 450 mls | SBC02 DI H2O | Tare | 105.4917 | 7/27 14:02 | 105.4903 | 7/28 11:10 | 105.4904 | 8/1 11:37 | ✓ |
| | | | Tech | | | | MH | | MH | |
| | | | Final | 105.4916 | 8/11 13:59 | 105.5000 | 8/12 10:52 | | | ✓ |
| | | | Tech | | ML | | MH | | | |
| Beaker ID | 412 | | | | | | | | | |
| Notes | | | | | | | | | | |

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

| | | | |
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|------|--|----|--|

| | | | |
|--------|-------------------|---------------|--|
| Client | <u>Bio Energy</u> | Date Received | |
| Plant | <u>Hawthorn</u> | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|---------|---|----------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|
| 1 | Unit 1 Inlet Bike organic 250 mls | 500ml acetone/Hexane | Tare | 3.5132 | 8/4 8:15 | 3.5121 | 8/5 13:03 | 3.5122 | 8/9 11:11 | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5271 | 8/11 13:55 | 3.5271 | 8/12 9:16 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 2 | Unit 1 Inlet Bike organic 300 mls | 500ml acetone/Hexane | Tare | 3.5465 | 8/4 8:14 | 3.5448 | 8/5 13:02 | 3.5444 | 8/9 11:11 | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5517 | 8/11 13:55 | 3.5516 | 8/12 9:13 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 3 | Unit 1 Inlet Bike organic 400 mls | 500ml acetone/Hexane | Tare | 3.4983 | 8/4 8:14 | 3.4981 | 8/5 13:02 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5240 | 8/11 13:52 | 3.5241 | 8/12 10:57 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 4 | Stack 1 Bike organic 400 mls | 500ml acetone/Hexane | Tare | 3.4997 | 8/4 8:13 | 3.4982 | 8/5 13:01 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5042 | 8/11 13:52 | 3.5046 | 8/12 10:59 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 5 | Stack 1 Bike organic 350 mls | 500ml acetone/Hexane | Tare | 3.5293 | 8/4 8:13 | 3.5289 | 8/5 13:01 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5330 | 8/11 13:52 | 3.5335 | 8/12 11:00 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 6 | Stack 1 Bike organic 400 mls | 500ml acetone/Hexane | Tare | 3.5165 | 8/4 8:12 | 3.5163 | 8/5 13:00 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.5209 | 8/11 13:55 | 3.5209 | 8/12 9:16 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 7 | Unit 2 Inlet Bike organic 450 mls | 500ml acetone/Hexane | Tare | 3.5471 | 8/4 8:11 | 3.5418 | 8/5 13:00 | | | ✓ |
| | | | Tech | 3.5422 | | | MH | | | |
| | | | Final | 3.5572 | 8/11 13:55 | 3.5589 | 8/12 10:57 | | | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |
| 8 | Unit 2 Inlet Bike organic 500 mls | 500ml acetone/Hexane | Tare | 3.4882 | 8/4 8:11 | 3.4881 | 8/5 13:00 | | | ✓ |
| | | | Tech | | | | MH | | | |
| | | | Final | 3.4914 | 8/11 13:55 | 3.5009 | 8/12 10:59 | 3.5005 | 8/15 5:40 | ✓ |
| | | | Tech | | MH | | | | | |
| Notes | | | | | | | | | | |

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 36446

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| | | |
|--------|------------|---------------|
| Client | Dix Rivers | Date Received |
| Plant | Henderson | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | | |
|-----------|----------------------------------|-----------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|--|
| 3 | Unit 2 Inlet 3 1/2 organic | 50% acetone Hexane | Tare | 3.5454 | 6/8 15:48 | 3.5454 | 6/9 15:41 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.5526 | 8/11 13:53 | 3.5531 | 8/12 10:58 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X1 | 750 mls | | | | | | | | | |
| 1 | Stack 2 3 1/2 organic | 50% acetone Hexane | Tare | 3.5463 | 6/8 15:48 | 3.5462 | 6/9 15:42 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.5542 | 8/11 13:51 | 3.5545 | 8/12 11:01 | 3.5541 | 8/15 5:31 | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X2 | 450 mls | | | | | | | | | |
| 2 | Stack 2 3 1/2 organic | 50% acetone Hexane | Tare | 3.5611 | 6/8 15:48 | 3.5611 | 6/9 15:43 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.5632 | 8/11 13:57 | 3.5652 | 8/12 11:01 | 3.5648 | 8/15 5:39 | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X3 | 400 mls | | | | | | | | | |
| 3 | Stack 2 3 1/2 organic | 50% acetone Hexane | Tare | 3.5601 | 6/8 15:48 | 3.5600 | 6/9 15:43 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.5623 | 8/11 13:54 | 3.5626 | 8/12 11:00 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X4 | 350 mls | | | | | | | | | |
| Blank | Hexane Blank | Hexane | Tare | 3.5545 | 6/8 15:46 | 3.5546 | 6/9 15:44 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.5543 | 8/11 13:46 | 3.5542 | 8/12 9:14 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X5 | 200 mls | | | | | | | | | |
| Blank | acetone Blank | acetone | Tare | 3.6040 | 6/8 15:46 | 3.6039 | 6/9 15:45 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | 3.6038 | 8/11 13:56 | 3.6036 | 8/12 9:13 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X6 | 200 mls | | | | | | | | | |
| | | | Tare | 3.5533 | 6/8 15:45 | 3.5531 | 6/9 15:46 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | | | | | | | | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X7 | mls | | | | | | | | | |
| | | | Tare | 3.5265 | 6/8 15:45 | 3.5262 | 6/9 15:46 | | | ✓ | |
| | | | Tech | | | | | | | | |
| | | | Final | | | | | | | | |
| | | | Tech | | | | | | | | |
| | | | Notes | | | | | | | | |
| Beaker ID | X8 | mls | | | | | | | | | |

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

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| | | | |
|--------|-------------------|---------------|--|
| Client | <u>Big Rivers</u> | Date Received | |
| Plant | <u>Henderson</u> | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|---------|--------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|
| 2 | Stack 1 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 81.9326 | 8/4 8:19 | 81.8321 | 8/5 10:57 | | ✓ | |
| | | | Tech | | | | MH | | | |
| 214 | 600 mls | | Final | 81.4419 | 8/11 14:00 | 81.5430 | 8/12 10:55 | 81.8424 | 8/15 5:41 | ✓ |
| | | | Tech | | | | MH | | 1 | |
| Notes | | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|---------|--------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|
| 3 | Stack 1 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 93.4923 | 8/4 8:19 | 93.9919 | 8/5 10:57 | | ✓ | |
| | | | Tech | | | | MH | | | |
| 28 | 450 mls | | Final | 93.5306 | 8/11 14:00 | 93.5323 | 8/12 10:53 | 93.5318 | 8/15 5:42 | ✓ |
| | | | Tech | | | | MH | | 1 | |
| Notes | | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good | |
|---------|----------------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|-----------|---|
| 1 | Unit 2 Inlet 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 87.0005 | 8/4 8:20 | 86.9996 | 8/5 10:56 | 87.0001 | 8/9 11:12 | ✓ |
| | | | Tech | | | | MH | | | |
| 101 | 450 mls | | Final | 87.0135 | 8/11 12:59 | 87.0140 | 8/12 10:48 | | ✓ | |
| | | | Tech | | | | MH | | | |
| Notes | | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|---------|----------------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 2 | Unit 2 Inlet 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 85.5123 | 8/4 8:20 | 85.5123 | 8/5 10:56 | | ✓ |
| | | | Tech | | | | MH | | |
| 142 | 450 mls | | Final | 85.5224 | 8/11 13:59 | 85.5229 | 8/12 10:50 | | ✓ |
| | | | Tech | | | | MH | | |
| Notes | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|---------|----------------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 3 | Unit 2 Inlet 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 88.0000 | 8/4 8:21 | 88.0001 | 8/5 10:55 | | ✓ |
| | | | Tech | | | | MH | | |
| 100 | 450 mls | | Final | 88.0132 | 8/11 14:00 | 88.0127 | 8/12 10:43 | | ✓ |
| | | | Tech | | | | MH | | |
| Notes | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|---------|--------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 1 | Stack 2 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 83.1722 | 8/4 8:21 | 83.1727 | 8/5 10:55 | | ✓ |
| | | | Tech | | | | MH | | |
| 150 | 500 mls | | Final | 83.1949 | 8/11 14:01 | 83.1949 | 8/12 10:47 | | ✓ |
| | | | Tech | | | | MH | | |
| Notes | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|---------|--------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 2 | Stack 2 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 96.5680 | 8/4 8:22 | 96.5682 | 8/5 10:54 | | ✓ |
| | | | Tech | | | | MH | | |
| 213 | 450 mls | | Final | 96.5872 | 8/11 14:02 | 96.5874 | 8/12 10:54 | | ✓ |
| | | | Tech | | | | MH | | |
| Notes | | | | | | | | | |

| Run No. | Location/Volume | Method/ Reagent | Weight | Date / Time | Weight | Date / Time | Weight | Date / Time | Good |
|---------|--------------------------|---------------------------------|--------|-------------|------------|-------------|------------|-------------|------|
| 3 | Stack 2 3/2 Inorganic | SBK02 DI H ₂ O | Tare | 98.6632 | 8/4 8:22 | 98.6637 | 8/5 10:54 | | ✓ |
| | | | Tech | | | | MH | | |
| 3 | 450 mls | | Final | 98.7071 | 8/11 14:00 | 98.7074 | 8/12 10:54 | | ✓ |
| | | | Tech | | | | MH | | |
| Notes | | | | | | | | | |

Calibration Data

Includes the following:

- *Daily Analytical Balance Calibration Log*
- *Yearly Analytical Balance Test and Calibration Certificate*

AIRTECH ENVIRONMENTAL SERVICES INC.
Analytical Balance Daily Calibration

| | |
|------------------|--------------|
| Scale ID | Ohaus AV114C |
| Units of Measure | grams |

| | |
|--------------------|---------|
| Full Cal Test Date | 4/12/11 |
|--------------------|---------|

| Date | Tech Initials | 100.0000g | 5.0000g | 0.1000g | Barometric Pressure (in. Hg) | Relative Humidity (%) | Ambient Temp (°F) | Notes |
|---------|---------------|-----------|---------|---------|------------------------------|-----------------------|-------------------|-------|
| 4/25/11 | TL | 99.9999 | 4.9999 | 0.1001 | 29.3 | 47 | 68 | |
| 4/26/11 | NR | 99.9999 | 5.0000 | 0.1000 | 29.9 | 60 | 70 | |
| 4/27/11 | NR | 100.0001 | 5.0000 | 0.1001 | 28.9 | 60 | 70 | |
| 4/28/11 | NR | 100.0000 | 5.0000 | 0.1001 | 29.2 | 55 | 70 | |
| 4/29/11 | NR | 100.0002 | 5.0000 | 0.0999 | 29.4 | 50 | 70 | |
| 4/30/11 | NR | 100.0001 | 5.0000 | 0.1000 | 29.4 | 50 | 68 | |
| 5/2/11 | TL | 100.0000 | 5.0000 | 0.1000 | 29.5 | 48 | 70 | |
| 5/3/11 | TL | 99.9999 | 4.9999 | 0.0999 | 29.6 | 46 | 68 | |
| 5/4/11 | TL | 99.9998 | 5.0000 | 0.1000 | 29.8 | 45 | 68 | |
| 5/5/11 | TL | 100.0000 | 5.0000 | 0.1001 | 29.5 | 46 | 70 | |
| 5/6/11 | TL | 99.9999 | 4.9999 | 0.0999 | 29.2 | 47 | 70 | |
| 5/6/11 | NR | 100.0000 | 5.0000 | 0.1000 | 29.4 | 45 | 70 | |
| 5/7/11 | NR | 100.0002 | 4.9999 | 0.1000 | 29.4 | 45 | 70 | |
| 5/15/11 | NR | 100.0002 | 4.9999 | 0.0999 | 29.4 | 45 | 72 | |
| 5/19/11 | NR | 100.0001 | 5.0000 | 0.1001 | 29.5 | 50 | 71 | |
| 5/20/11 | NR | 100.0001 | 4.9999 | 0.1000 | 29.5 | 50 | 75 | |
| 5/21/11 | NR | 100.0000 | 4.9999 | 0.1000 | 29.4 | 50 | 67 | |
| 5/22/11 | NR | 99.9999 | 4.9999 | 0.1001 | 29.5 | 50 | 65 | |
| 5/23/11 | TL | 99.9999 | 4.9999 | 0.0999 | 28.9 | 47 | 74 | |
| 5/26/11 | TL | 100.0001 | 4.9999 | 0.1000 | 29.1 | 48 | 70 | |
| 5/31/11 | TL | 100.0000 | 5.0000 | 0.1000 | 29.4 | 45 | 73 | |
| 6/1/11 | TL | 100.0000 | 4.9999 | 0.0998 | 29.6 | 48 | 74 | |
| 6/2/11 | TL | 100.0000 | 5.0000 | 0.0999 | 29.6 | 44 | 72 | |
| 6/6/11 | TL | 100.0000 | 5.0001 | 0.1000 | 29.4 | 47 | 68 | |
| 6/8/11 | NR | 100.0004 | 4.9999 | 0.0999 | 29.3 | 50 | 76 | |
| 6/9/11 | NR | 100.0002 | 5.0000 | 0.1001 | 29.4 | 50 | 71 | |
| 6/10/11 | NR | 100.0001 | 5.0000 | 0.0999 | 29.5 | 50 | 68 | |
| 6/13/11 | TL | 100.0000 | 4.9999 | 0.0997 | 29.6 | 44 | 64 | |
| 6/16/11 | EA | 100.0002 | 5.0001 | 0.1000 | 29.2 | 60 | 68 | |
| 6/22/11 | TL | 100.0000 | 5.0001 | 0.1001 | 28.9 | 48 | 65 | |
| 6/24/11 | RW | 100.0001 | 5.0003 | 0.1000 | 29.10 | 64 | 68 | |
| 6/27/11 | TL | 100.0000 | 4.9999 | 0.0999 | 29.2 | 65-50 | 68 | |
| 6/28/11 | NR | 100.0001 | 5.0000 | 0.1000 | 29.4 | 50 | 68 | |
| 6/30/11 | NR | 100.0000 | 5.0000 | 0.1000 | 29.6 | 50 | 68 | |
| 7/7/11 | TL | 100.0000 | 5.0000 | 0.1000 | 29.4 | 48 | 70 | |
| 7/8/11 | TL | 100.0001 | 4.9999 | 0.1000 | 29.4 | 47 | 70 | |
| 7/11/11 | TL | 99.9999 | 5.0001 | 0.1001 | 29.2 | 47 | 70 | |
| 7/12/11 | TL | 100.0000 | 5.0000 | 0.1000 | 29.4 | 48 | 65 | |
| 7/13/11 | TL | 100.0000 | 4.9999 | 0.0999 | 29.3 | 46 | 66 | |
| 7/25/11 | TL | 100.0000 | 4.9999 | 0.0999 | 29.3 | 61 | 70 | |



AUTOMATED SCALE CORPORATION
 202 W. Fay Ave. Addison, IL 60101 800/498-6650

TEST & CALIBRATION CERTIFICATE

Tests and/or calibrations shall stop when environmental conditions will jeopardize the results. (rain, wind, vibration, temperature, and etc.)
 L-A-B Accredited: Certificate #L1053-1
 Standards Used: Traceable through NIST to the SI units
 Test equipment and weight (s) certificates available on request

Client Name & Address: A/C Tech Location (Plant and / or Dept.): 69D Procedure used: 5.4-02 Process Control
601 A Country Club NA Uncertainty of measurement (UM) Yes [] No [X]
Bensenville NA Temperature Yes [X] No []
 Contact: Jim C Identified metrological reference: NIST Handbook 44

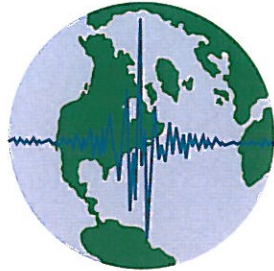
Manufacturer: AVIHC Model #: NA Serial #: 3028031058 Capacity X Grad. 110g x .0001
 Platform: NA Equipment ID: NA
 Inspection Cycle: 365 day

Scale Platform: Corner Test Indicator: C
 Parallelogram: Side/Front Test Below See Shift Test
 1 C 2
 A Below B
 3 D 4

| Date | Cert# | Client Tolerance (L) % | As Found/Left Shift Test | | | As Found | | | As Left | | | Pass/Fail | Temp. F° | Tech | Traceable |
|---------|-------|------------------------|--------------------------|---------|---------|----------|---------|---------|---------|---------|-------|-----------|----------|------|-------------------------|
| | | | A | B | C | Zero | AMT 1 | AMT 2 | AMT 1 | AMT 2 | AMT 1 | | | | |
| 4-13-10 | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | P | NA | 74 | 1 | # 1538014 ID ASTM O1 |
| 4-12-11 | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | P | NA | 74 | 6R | # 1538014 ID ASTM O1 |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |
| | F | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | 50.0000 | | | | | # ID |

Comments:

Pass/Fail compliance statements are the obligations of Automated Scale Corp. based on data from measurements made, procedures utilized, professional experience, and the uncertainty associated with this calibration. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for its intended application. Associated uncertainty (as applicable) is expressed as a confidence level of approximately 95% with a coverage factor of k=2.
 Form: 5.4.02 L-A-B Accredited Process Control Certificate 3/2/10



AIRTECH
*Environmental
Services Inc.*

Ion Chromatography Analytical Report

Performed for
Big Rivers Energy
Henderson
Unit 2
*Project No. 3648
August 29, 2011*

Analyst: _____

Michael Ogletree

Reviewer: _____

Timothy Wojtach

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| <i>Detection Limit</i> | <i>3</i> |
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APPENDIX

| | |
|-------------------------|--|
| <i>Results</i> | |
| <i>Calibration Data</i> | |
| <i>Raw Data</i> | |
| <i>Chain of Custody</i> | |

Project Summary

General

| Project Information | |
|----------------------------------|----------------|
| Date Received | 8/17/2011 |
| Analytical Protocol | EPA Method 26A |
| Total Number of Samples Received | 6 |
| Total Number of Blanks Received | 0 |

Analytical Equipment

| Equipment Information | Manufacturer | Model | Serial No. |
|-----------------------|--------------|---------------|------------|
| Ion Chromatograph | Dionex | ICS-90 | 02070247 |
| Analytical Column | Dionex | AS14A | 007967 |
| Guard Column | Dionex | AG14A | 009807 |
| Anion Suppressor | Dionex | AMMS III 4 mm | 1934 |

| Parameters | Conditions |
|---------------|---|
| Eluent | 8.0 mM Sodium Carbonate/1.0 mM Sodium Bicarbonate |
| Regenerant | 0.075 N Sulfuric Acid |
| Sample Volume | 10 µl |
| Flow Rate | 1.0 ml/m |
| Back Pressure | 2,700 PSI |

Condition of Samples When Received

Samples were received for analysis in good condition. The samples are summarized in the table below:

| Sample ID | Solution | Volume (ml) |
|----------------------|--------------------------------------|-------------|
| H2 ESP Inlet 1 Run 1 | 0.1 N H ₂ SO ₄ | 398 |
| H2 ESP Inlet 1 Run 2 | 0.1 N H ₂ SO ₄ | 482 |
| H2 ESP Inlet 1 Run 3 | 0.1 N H ₂ SO ₄ | 505 |
| H2 Stack Run 1 | 0.1 N H ₂ SO ₄ | 539 |
| H2 Stack Run 2 | 0.1 N H ₂ SO ₄ | 473 |
| H2 Stack Run 3 | 0.1 N H ₂ SO ₄ | 536 |

Methodology

All samples were analyzed according to the EPA Method 26A procedures found in 40 CFR Part 60 Appendix A.

Detection Limit

The detection limits for HCl and HF were determined using the procedures found in 40 CFR Part 236, Appendix B, entitled "Definition and Procedure for the Determination of the Method Detection Limit". Seven injections of the 0.5 µg/ml standard were analyzed. The detection limit was determined to be <0.0441 µg/ml for Cl⁻ and <0.0647 µg/ml for F⁻.

QA/QC

All sample analysis was performed in duplicate with a percent difference within five percent (5%) of the mean.

The chloride and fluoride calibration curve were generated using four calibration standards. The standards were prepared by diluting NIST traceable chloride and fluoride standards with 0.2 N H₂SO₄.

The chloride standard used for this project was a 2000 µg/ml chloride solution, lot number 030523, manufactured by Dionex Corporation of Sunnyvale, California.

The fluoride standard used for this project was a 2000 µg/ml fluoride solution, lot number 092209, manufactured by Dionex Corporation of Sunnyvale, California.

Results that were determined to be below the lowest calibration standard and above the minimum detection limit were calculated using the corresponding average response factor.

Samples that were found to have concentrations above the highest calibration standard were diluted with deionized water to fall within reasonable range of the calibration curve.

Diluted samples include: H2 ESP Inlet 1 Runs 1-3.

Appendix

Includes the following:

- Results
- Calibration Data
- Raw Data
- Chain of Custody

Results

Includes the following:

- Hydrogen Chloride Results
- Hydrogen Fluoride Results

HYDROGEN FLUORIDE ANALYSIS

| Sample Parameters | H2 ESP Inlet 1 Run 1 | H2 ESP Inlet 1 Run 2 | H2 ESP Inlet 1 Run 3 |
|----------------------|----------------------|----------------------|----------------------|
| Volume (ml) | 398 | 482 | 505 |
| Dilution factor | 66.7 | 66.7 | 66.7 |
| Peak Area # 1 | 0.0930 | 0.0753 | 0.0763 |
| Peak Area # 2 | 0.0926 | 0.0763 | 0.0775 |
| Average | 0.0928 | 0.0758 | 0.0769 |
| Injections % of mean | 0.2% | 0.7% | 0.8% |

RESULTS

| Average Response Factor | x | x | x |
|---------------------------|------|------|------|
| Linear Regression | | | |
| Fluoride (µg/ml) | 43.2 | 35.3 | 35.8 |
| Hydrogen Fluoride (µg/ml) | 45.5 | 37.1 | 37.7 |
| Hydrogen Fluoride (mg) | 18.1 | 17.9 | 19.0 |

HYDROGEN CHLORIDE ANALYSIS

| Sample Parameters | H2 ESP Inlet 1 Run 1 | H2 ESP Inlet 1 Run 2 | H2 ESP Inlet 1 Run 3 |
|----------------------|----------------------|----------------------|----------------------|
| Volume (ml) | 398 | 482 | 505 |
| Dilution factor | 66.7 | 66.7 | 66.7 |
| Peak Area # 1 | 1.1466 | 0.9480 | 0.9613 |
| Peak Area # 2 | 1.1436 | 0.9563 | 0.9561 |
| Average | 1.15 | 0.95215000 | 0.959 |
| Injections % of mean | 0.1% | 1.5% | 0.3% |

RESULTS

| Average Response Factor | x | x | x |
|---------------------------|-----|-----|-----|
| Linear Regression | | | |
| Chloride (µg/ml) | 723 | 602 | 606 |
| Hydrogen Chloride (µg/ml) | 744 | 619 | 623 |
| Hydrogen Chloride (mg) | 296 | 298 | 315 |

HYDROGEN FLUORIDE ANALYSIS

| Sample Parameters | H2 Stack Run 1 | H2 Stack Run 2 | H2 Stack Run 3 |
|----------------------|----------------|----------------|----------------|
| Volume (ml) | 539 | 473 | 536 |
| Dilution factor | 1 | 1 | 1 |
| Peak Area # 1 | 0.0759 | 0.0623 | 0.0444 |
| Peak Area # 2 | 0.0731 | 0.0621 | 0.0429 |
| Average | 0.0745 | 0.0622 | 0.0437 |
| Injections % of mean | 1.9% | 0.2% | 1.7% |

RESULTS

| Average Response Factor | x | x | x |
|---------------------------|-------|-------|-------|
| Linear Regression | | | |
| Fluoride (µg/ml) | 0.520 | 0.434 | 0.305 |
| Hydrogen Fluoride (µg/ml) | 0.548 | 0.457 | 0.321 |
| Hydrogen Fluoride (mg) | 0.295 | 0.216 | 0.172 |

HYDROGEN CHLORIDE ANALYSIS

| Sample Parameters | H2 Stack Run 1 | H2 Stack Run 2 | H2 Stack Run 3 |
|----------------------|----------------|----------------|----------------|
| Volume (ml) | 539 | 473 | 536 |
| Dilution factor | 1 | 1 | 1 |
| Peak Area # 1 | 1.3455 | 0.8517 | 1.1176 |
| Peak Area # 2 | 1.3451 | 0.8556 | 1.1160 |
| Average | 1.35 | 0.854 | 1.12 |
| Injections % of mean | 0.0% | 0.2% | 0.1% |

RESULTS

| Average Response Factor | x | x | x |
|---------------------------|------|------|------|
| Linear Regression | | | |
| Fluoride (µg/ml) | 8.97 | 5.86 | 7.52 |
| Hydrogen Chloride (µg/ml) | 9.23 | 6.02 | 7.74 |
| Hydrogen Chloride (mg) | 4.97 | 2.85 | 4.15 |

Calibration Data

Includes the following:

- Hydrogen Chloride Standards
- Hydrogen Fluoride Standards
- Detection Limits
- Hydrogen Chloride Calibration Curve
- Hydrogen Fluoride Calibration Curve

IC Operating Conditions

| | |
|-----------------------|-------------------------------|
| Ion Chromatograph | Dionex ICS-90 |
| Data Acquisition | Dionex PeakNet 6.4 |
| Carrier Gas | Nitrogen |
| Injection Type | Manual |
| Injection Volume (µl) | 10.0 |
| Column Type | AS-14A |
| Detector Type | Suppressed Conductivity ECD-1 |

| Calibration Summary | Standard 1 | Standard 2 | Standard 3 | Standard 4 |
|------------------------------|--------------|--------------|-------------|-------------|
| Fluoride (µg/ml) | 1.0 | 5.0 | 10.0 | 20.0 |
| Pre Analysis Injection # 1 | 0.1463 | 0.6929 | 1.5017 | 3.1465 |
| Pre Analysis Injection # 2 | 0.1442 | 0.7102 | 1.5262 | 3.1872 |
| Average | 0.145 | 0.702 | 1.51 | 3.17 |
| % difference of injections | 1.5% | 2.4% | 1.6% | 1.3% |
| Post Analysis Injection # 1 | 0.1296 | 0.6349 | 1.4548 | 3.0279 |
| Post Analysis Injection # 2 | 0.1258 | 0.6634 | 1.4515 | 3.0463 |
| Average | 0.128 | 0.649 | 1.45 | 3.04 |
| % difference of injections | 3.0% | 4.3% | 0.2% | 0.6% |
| Overall Average | 0.136 | 0.675 | 1.48 | 3.10 |
| Pre/Post Analysis, % of mean | 6.4% | 3.9% | 2.0% | 2.1% |

RESULTS

| | | | | |
|-------------------------|-------|------|------|------|
| Response Factor | 7.33 | 7.40 | 6.74 | 6.45 |
| Average Response Factor | 6.98 | | | |
| Slope | 6.34 | | | |
| Intercept | 0.441 | | | |

| Calibration Summary | Standard 1 | Standard 2 | Standard 3 | Standard 4 |
|------------------------------|--------------|--------------|-------------|-------------|
| Chloride (µg/ml) | 1.0 | 5.0 | 10.0 | 20.0 |
| Pre Analysis Injection # 1 | 0.1137 | 0.5381 | 1.0414 | 2.1477 |
| Pre Analysis Injection # 2 | 0.1121 | 0.5390 | 1.0523 | 2.1643 |
| Average | 0.113 | 0.539 | 1.05 | 2.16 |
| % difference of injections | 1.4% | 0.2% | 1.0% | 0.8% |
| Post Analysis Injection # 1 | 0.1105 | 0.5149 | 1.0327 | 2.1040 |
| Post Analysis Injection # 2 | 0.1126 | 0.5216 | 1.0200 | 2.1164 |
| Average | 0.112 | 0.518 | 1.03 | 2.11 |
| % difference of injections | 1.9% | 1.3% | 1.2% | 0.6% |
| Overall Average | 0.112 | 0.528 | 1.04 | 2.13 |
| Pre/Post Analysis, % of mean | 0.6% | 1.9% | 1.0% | 1.1% |

RESULTS

| | | | | |
|-------------------------|--------|------|------|------|
| Response Factor | 8.91 | 9.46 | 9.65 | 9.38 |
| Average Response Factor | 9.35 | | | |
| Slope | 9.40 | | | |
| Intercept | 0.0485 | | | |

| Drift Check (8/23/11) | Chloride | Fluoride |
|------------------------------|-----------------|-----------------|
| Concentration (µg/ml) | 10.0 | 10.0 |
| Pre Analysis Injection # 1 | 0.9988 | 1.4693 |
| Pre Analysis Injection # 2 | 1.0326 | 1.5035 |
| Average | 1.016 | 1.486 |
| % difference of injections | 3.3% | 2.3% |

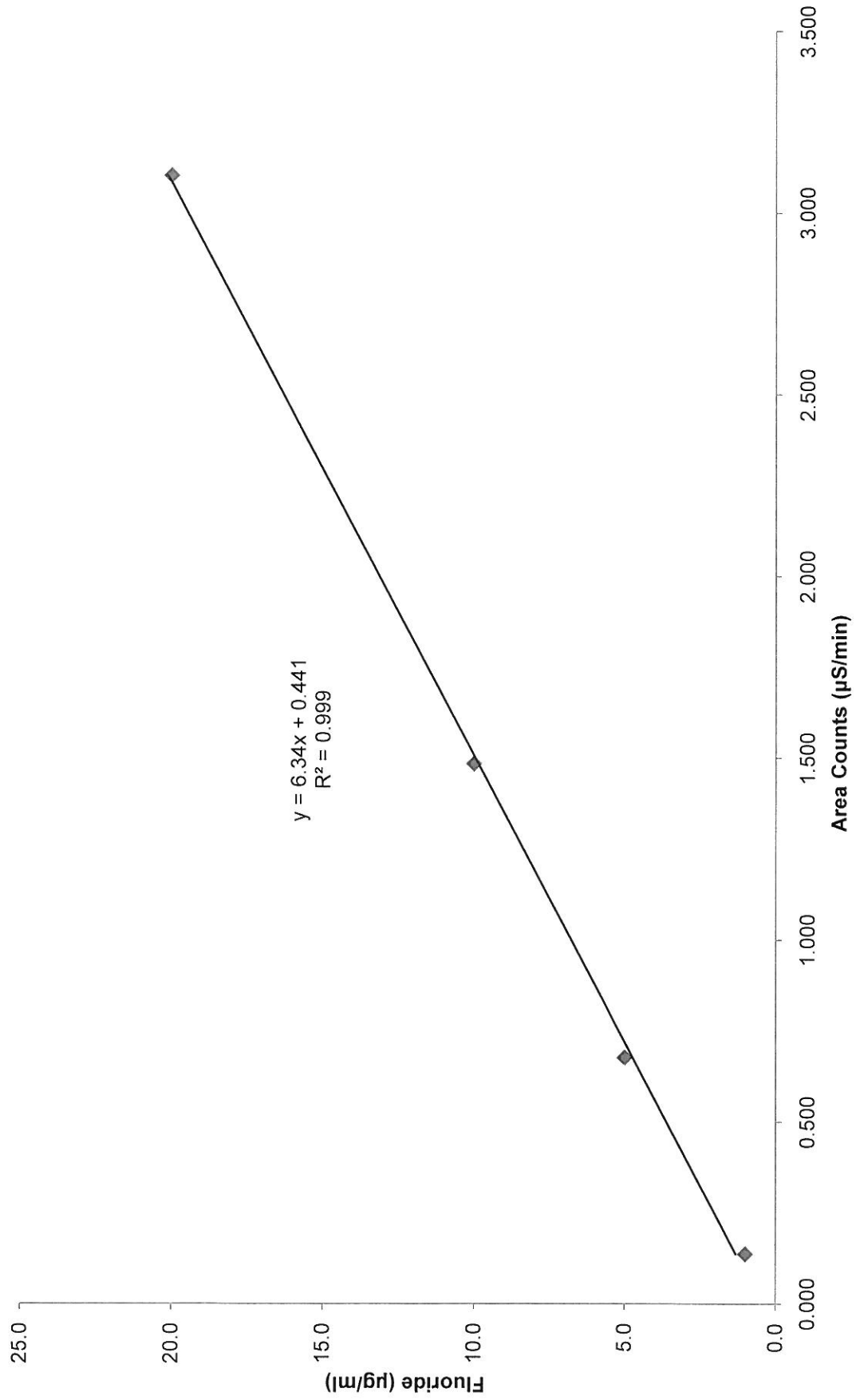
| Drift Check (8/4/11) | Chloride | Fluoride |
|-----------------------------|-----------------|-----------------|
| Concentration (µg/ml) | 10.0 | 10.0 |
| Pre Analysis Injection # 1 | 1.0140 | 1.4667 |
| Pre Analysis Injection # 2 | 1.0298 | 1.4907 |
| Average | 1.022 | 1.479 |
| % difference of injections | 1.5% | 1.6% |

| Detection Limit Parameters | Chloride | Fluoride |
|-----------------------------------|-----------------|-----------------|
| Standard (µg/ml) | 0.5 | 0.5 |
| Injection 1 | 0.064 | 0.073 |
| Injection 2 | 0.059 | 0.067 |
| Injection 3 | 0.059 | 0.065 |
| Injection 4 | 0.060 | 0.065 |
| Injection 5 | 0.059 | 0.065 |
| Injection 6 | 0.059 | 0.062 |
| Injection 7 | 0.057 | 0.064 |
| Average | 0.0596 | 0.0659 |

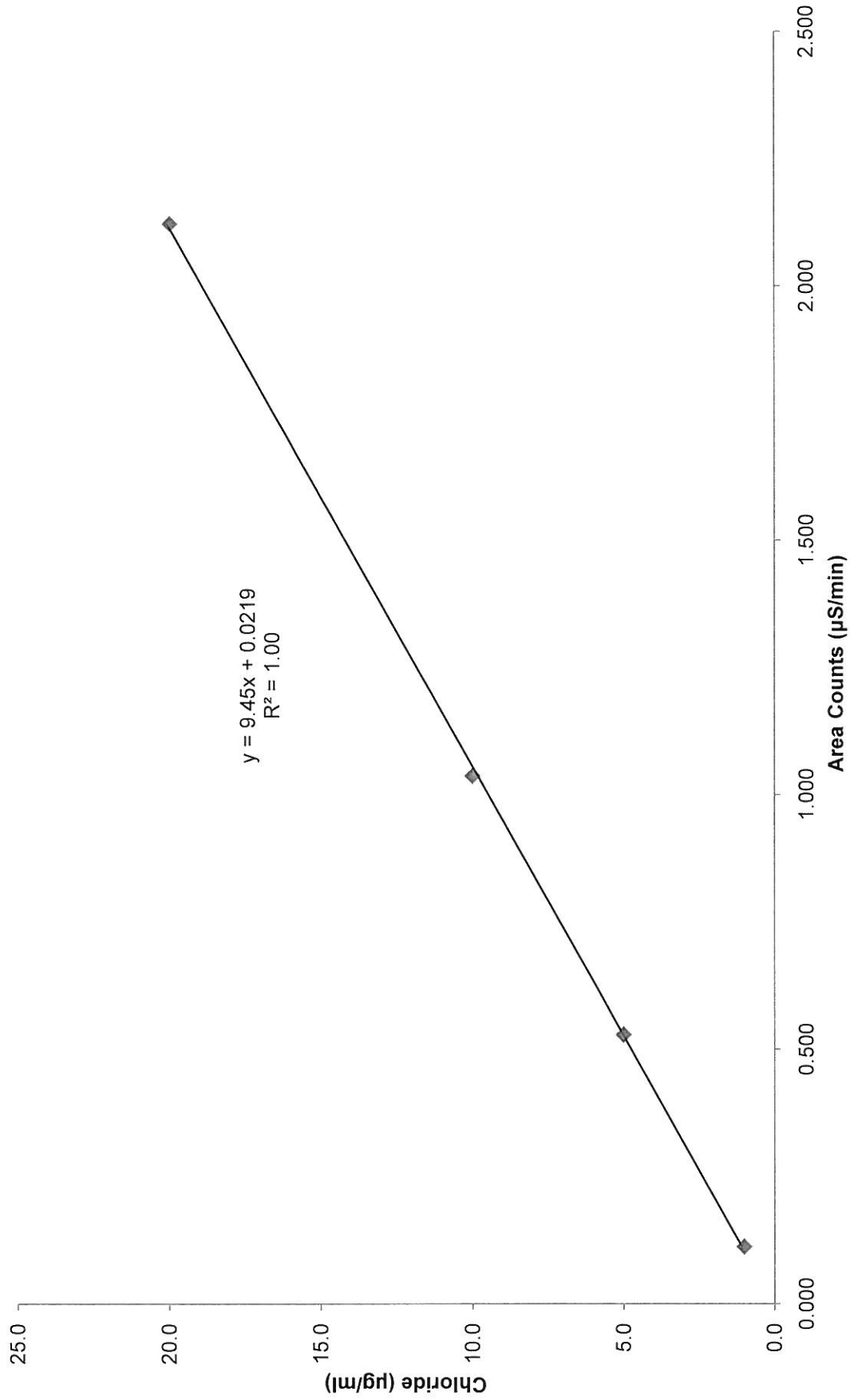
RESULTS

| | | |
|---------------------------------------|---------|---------|
| Response Factor | 8.39 | 7.59 |
| Standard Deviation | 0.00215 | 0.00348 |
| No of Samples (n) | 7 | 7 |
| Student t value ($t_{(0.975, 6)}$) | 2.447 | 2.447 |
| Calculated limit of detection (µg/ml) | 0.0441 | 0.0647 |

Fluoride Calibration



Chloride Calibration



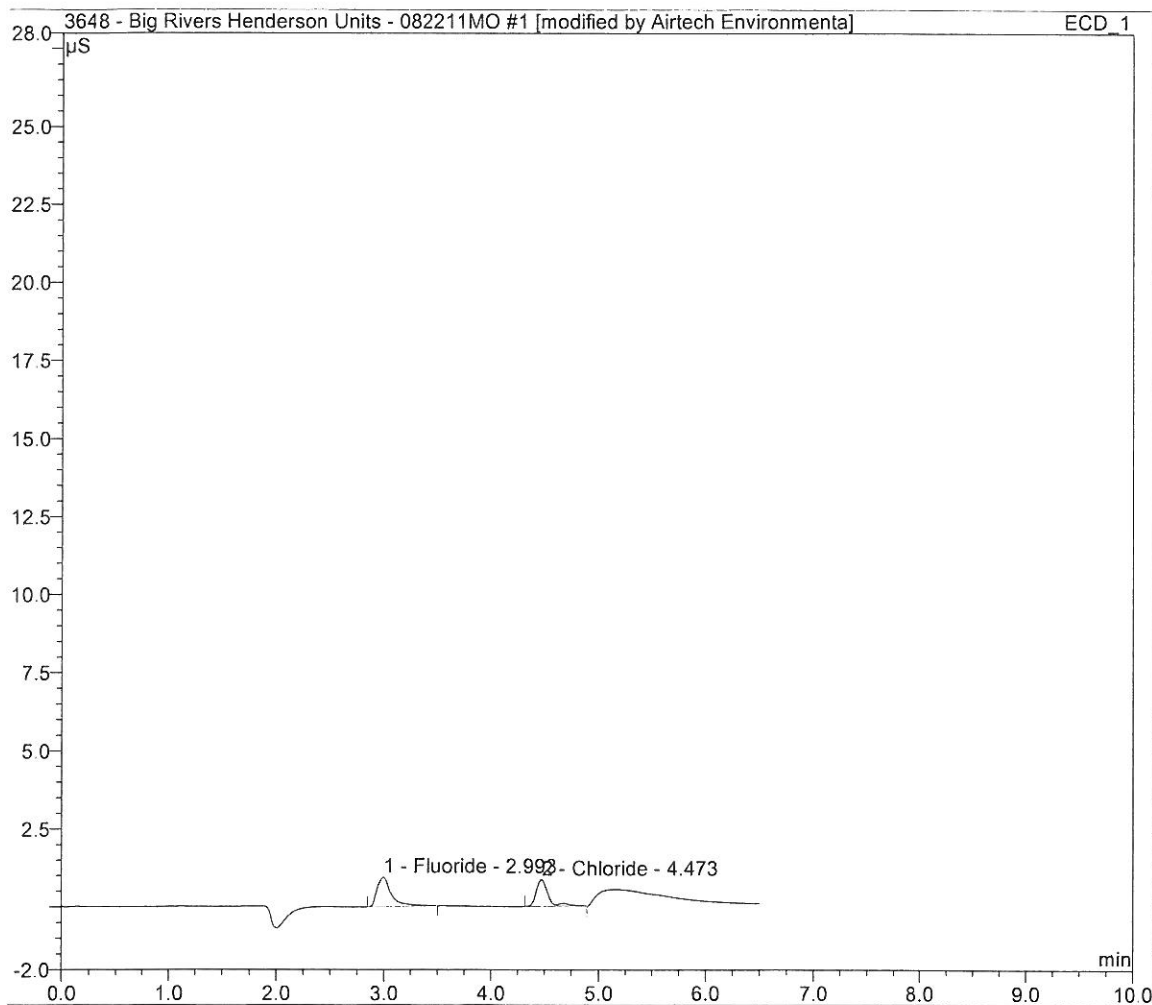
Raw Data

Includes the following:

- Pre Analysis Chromatograms
- Sample Chromatograms
- Drift Check Chromatograms
- Post Analysis Chromatograms
- Lab Book Data Entry

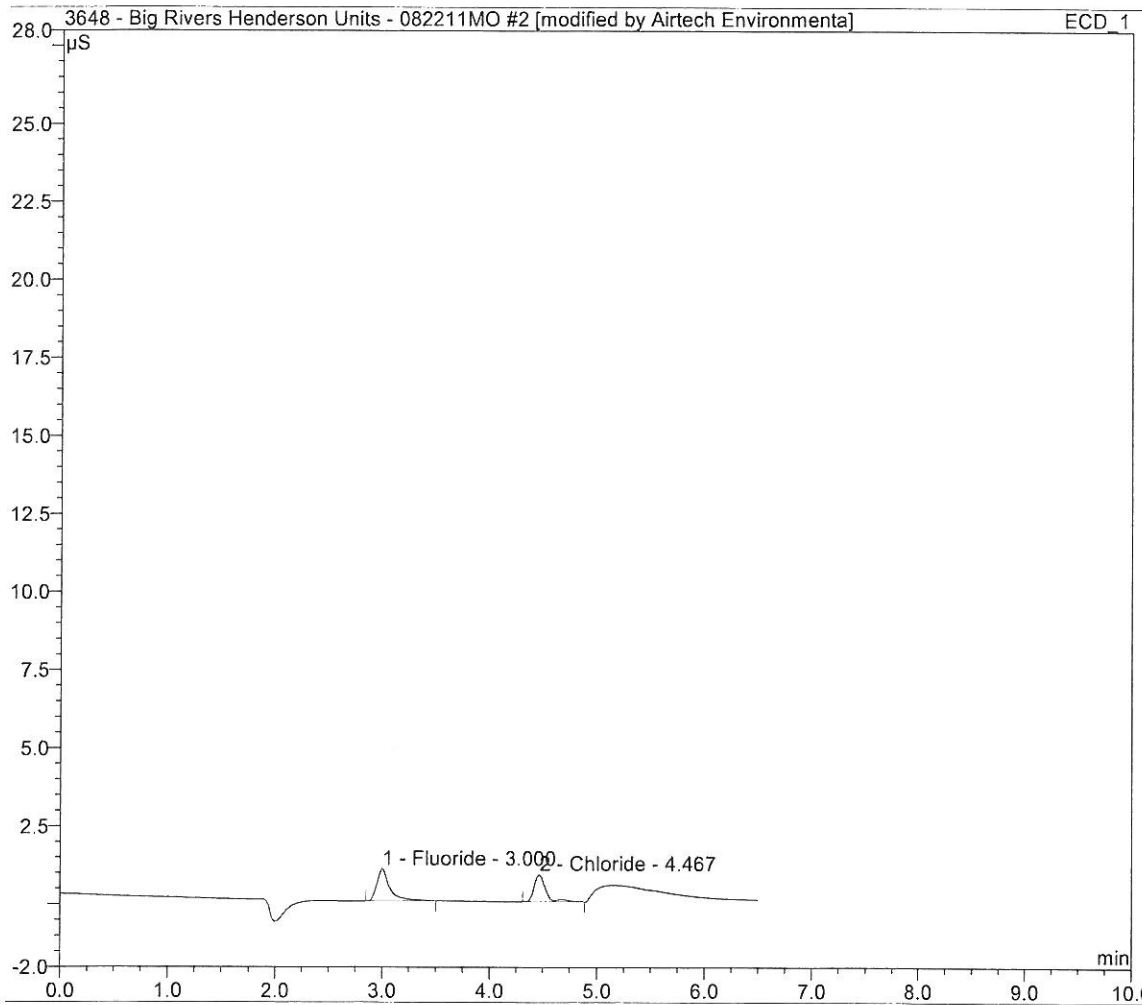
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 1 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 13:15 | Run Time: | 6.50 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.99 | Fluoride | BMB | 0.146 | 0.945 | 0.1002 |
| 2 | 4.47 | Chloride | BMB* | 0.114 | 0.862 | 0.1112 |
| TOTAL: | | | | 0.26 | 1.81 | 0.21 |



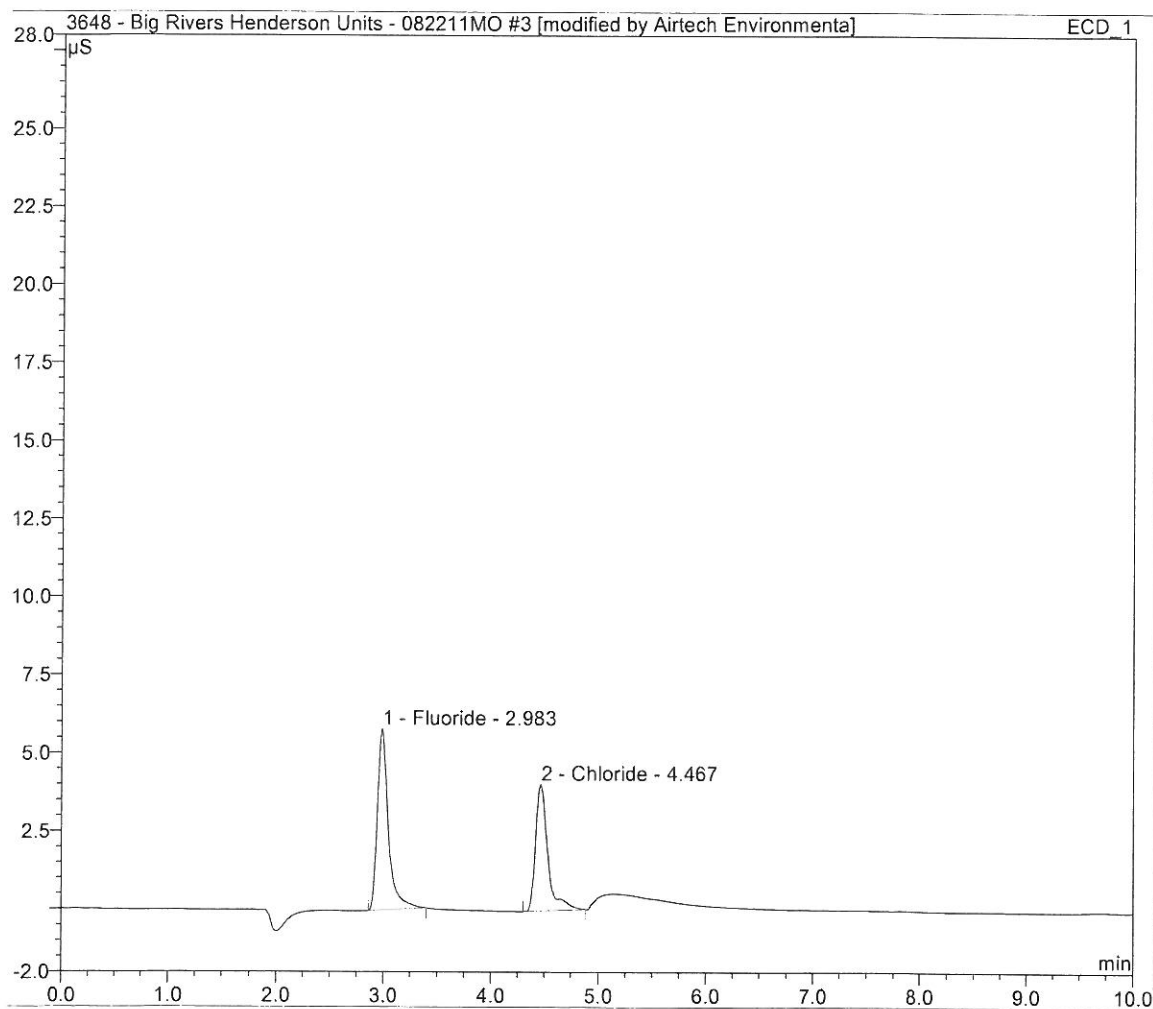
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 1 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 13:22 | Run Time: | 6.50 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 3.00 | Fluoride | BMB | 0.144 | 1.030 | 0.0988 |
| 2 | 4.47 | Chloride | BMB* | 0.112 | 0.865 | 0.1096 |
| TOTAL: | | | | 0.26 | 1.90 | 0.21 |



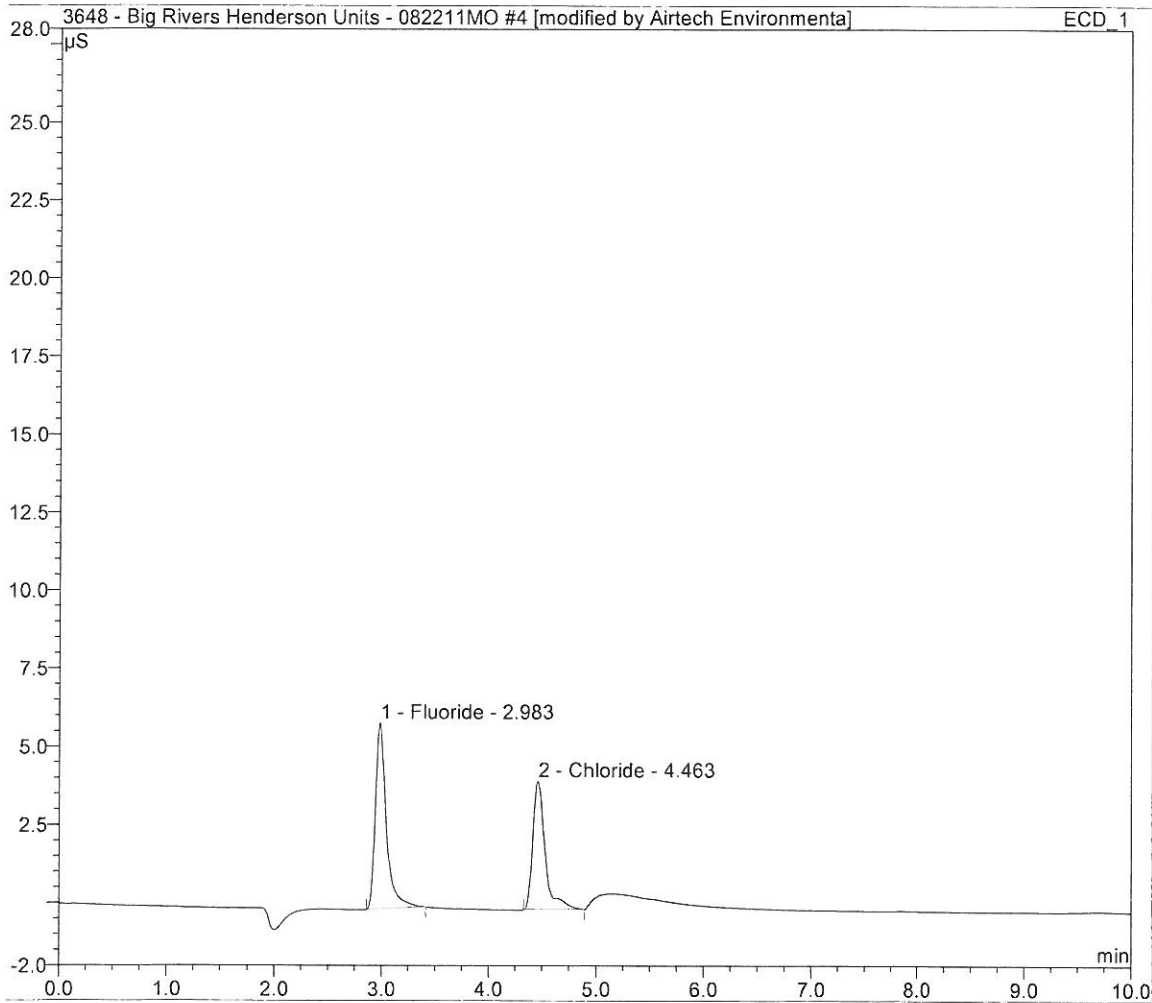
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 2 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 13:38 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.98 | Fluoride | BMB* | 0.693 | 5.795 | 0.4745 |
| 2 | 4.47 | Chloride | BMB | 0.538 | 4.057 | 0.5263 |
| TOTAL: | | | | 1.23 | 9.85 | 1.00 |



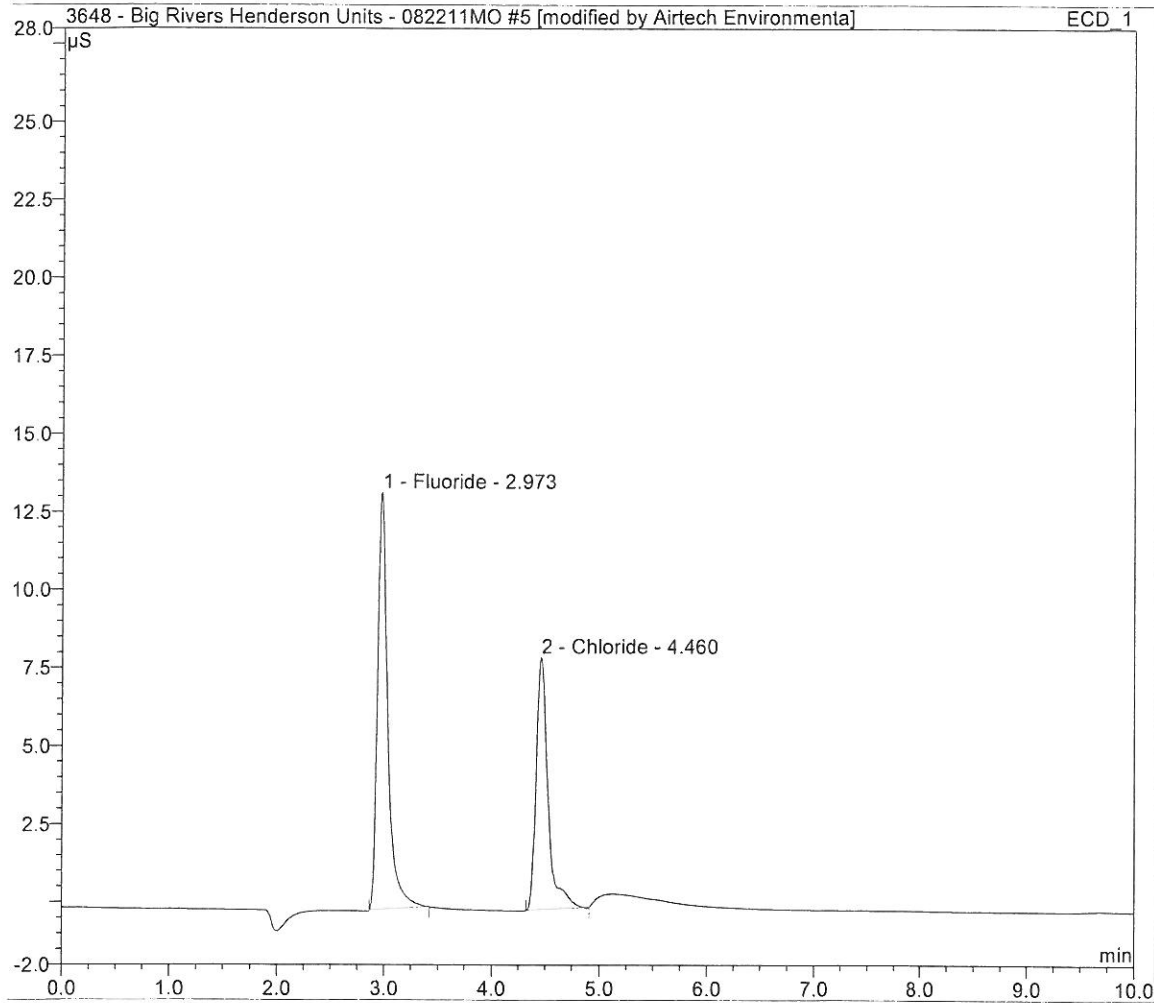
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 2 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 14:04 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.98 | Fluoride | BMB* | 0.710 | 5.955 | 0.4864 |
| 2 | 4.46 | Chloride | BMB* | 0.539 | 4.116 | 0.5271 |
| TOTAL: | | | | 1.25 | 10.07 | 1.01 |



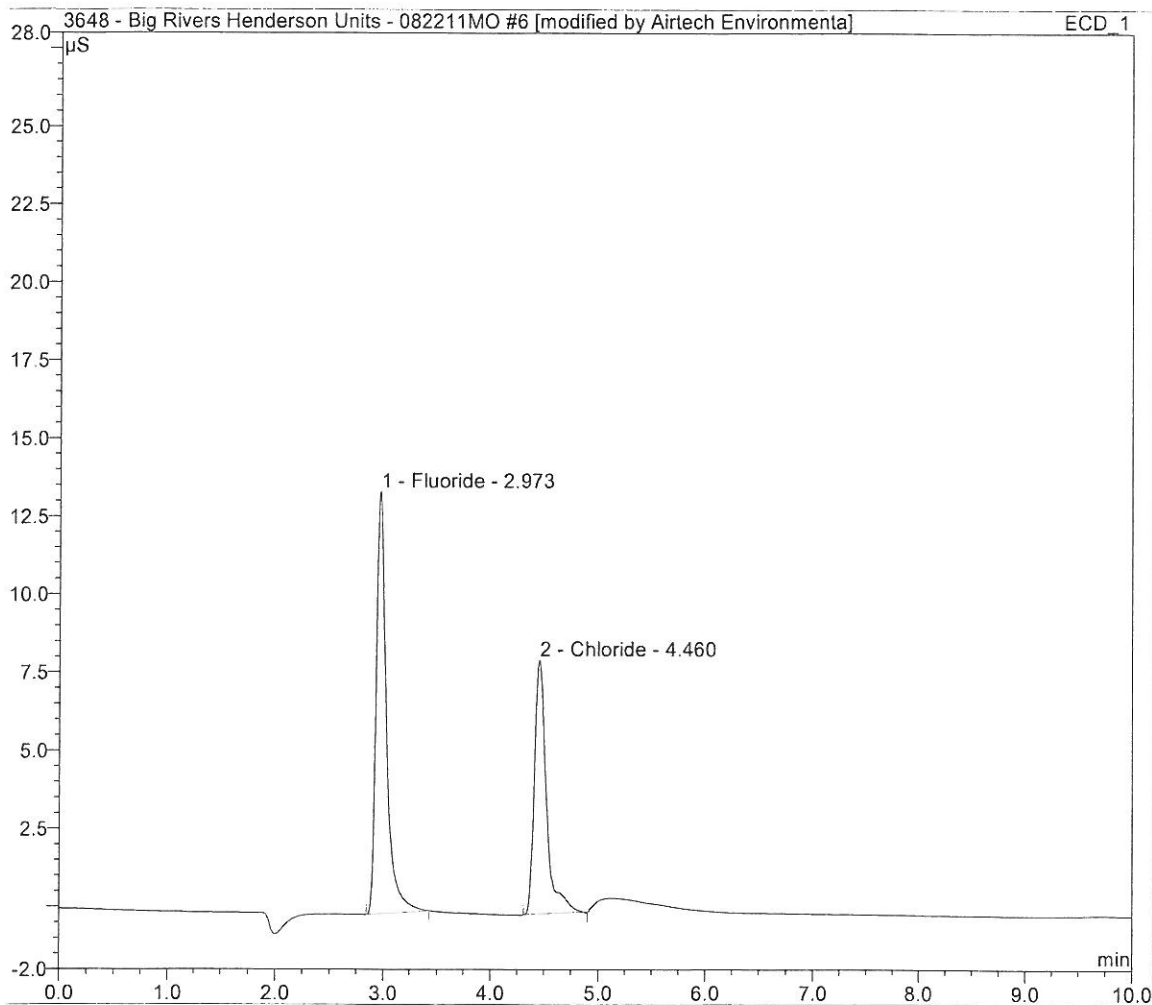
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 14:19 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB* | 1.502 | 13.356 | 1.0284 |
| 2 | 4.46 | Chloride | BMB* | 1.041 | 8.068 | 1.0185 |
| TOTAL: | | | | 2.54 | 21.42 | 2.05 |



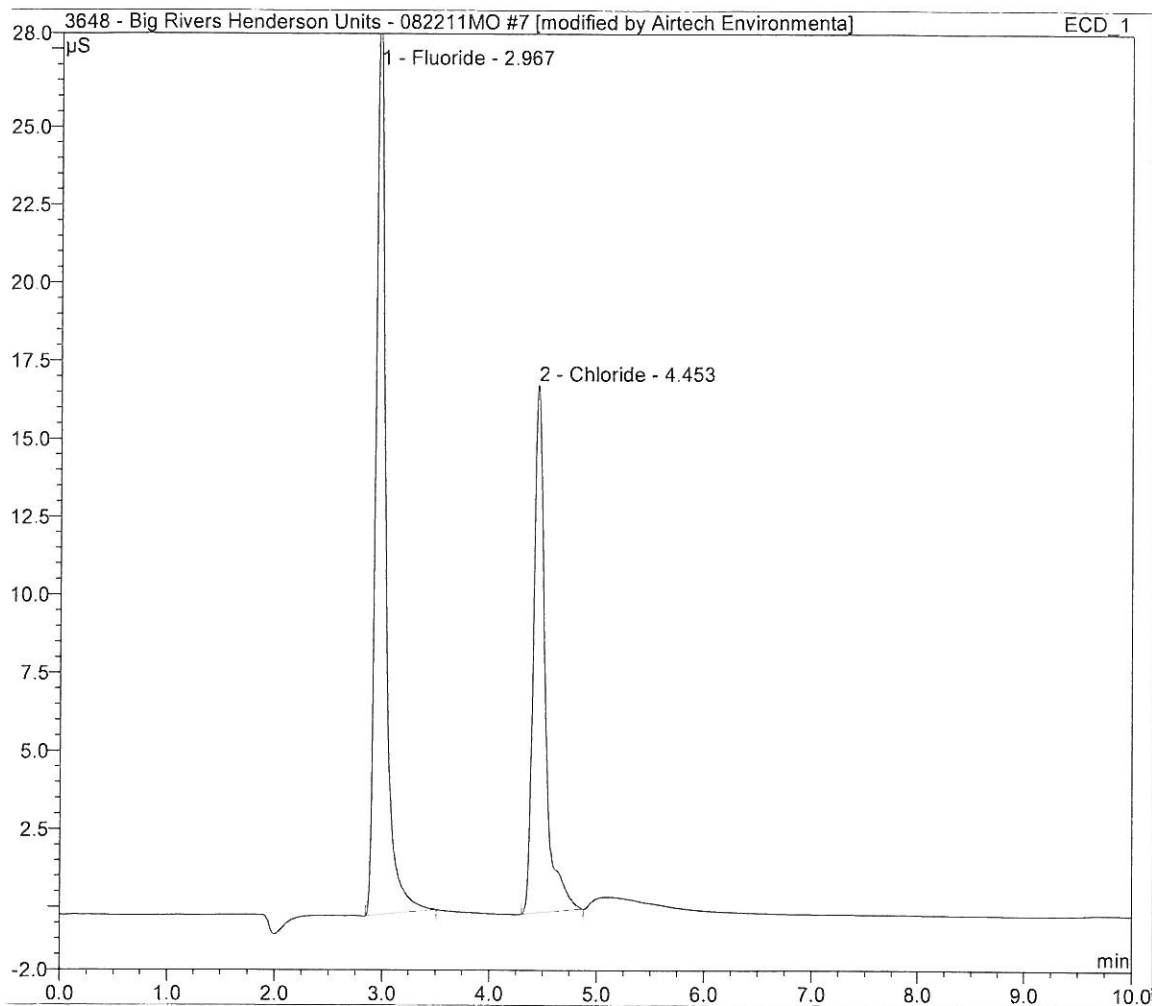
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 14:36 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB* | 1.526 | 13.526 | 1.0451 |
| 2 | 4.46 | Chloride | BMB* | 1.052 | 8.126 | 1.0292 |
| TOTAL: | | | | 2.58 | 21.65 | 2.07 |



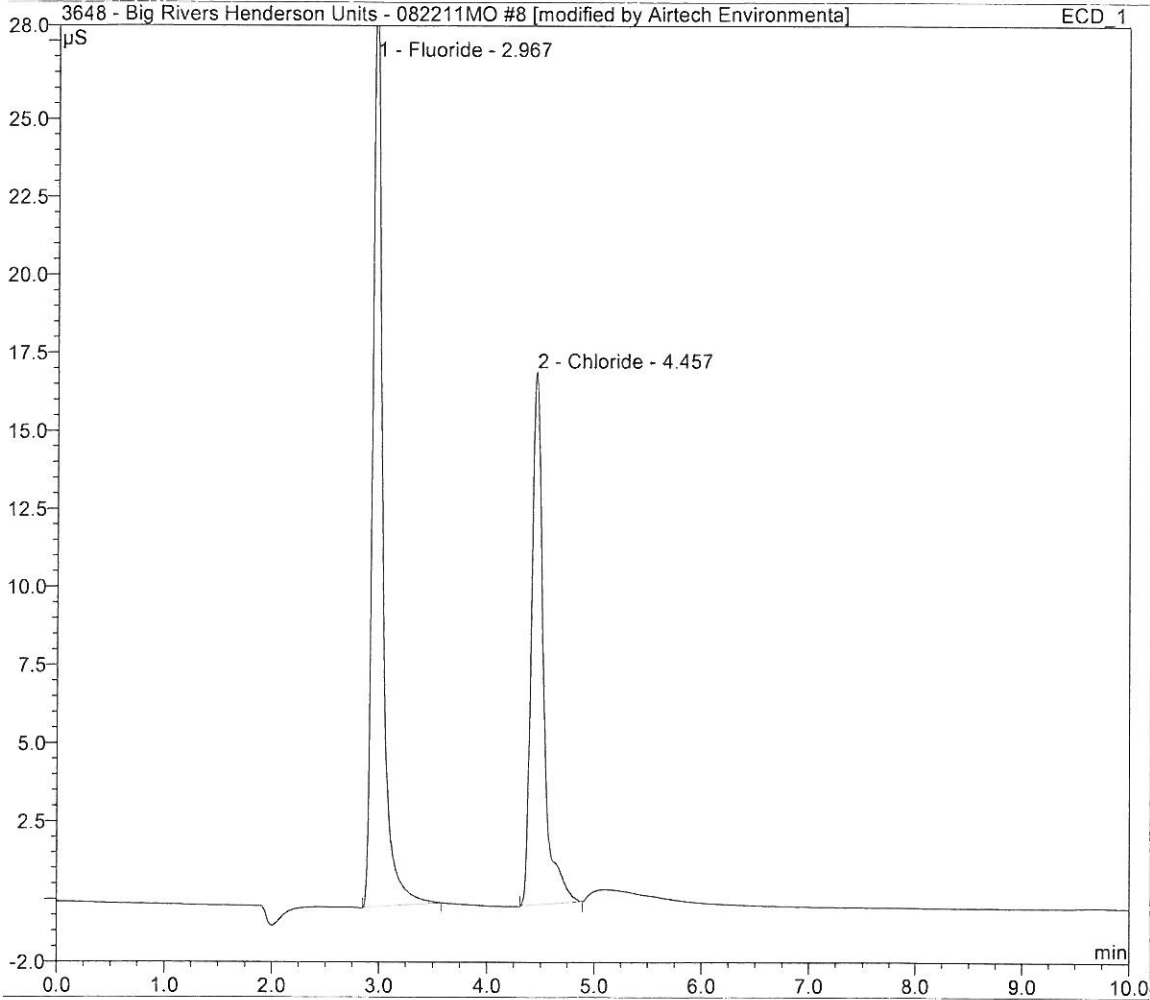
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 4 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 14:51 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB* | 3.147 | 29.547 | 2.1547 |
| 2 | 4.45 | Chloride | BMB* | 2.148 | 16.901 | 2.1005 |
| TOTAL: | | | | 5.29 | 46.45 | 4.26 |



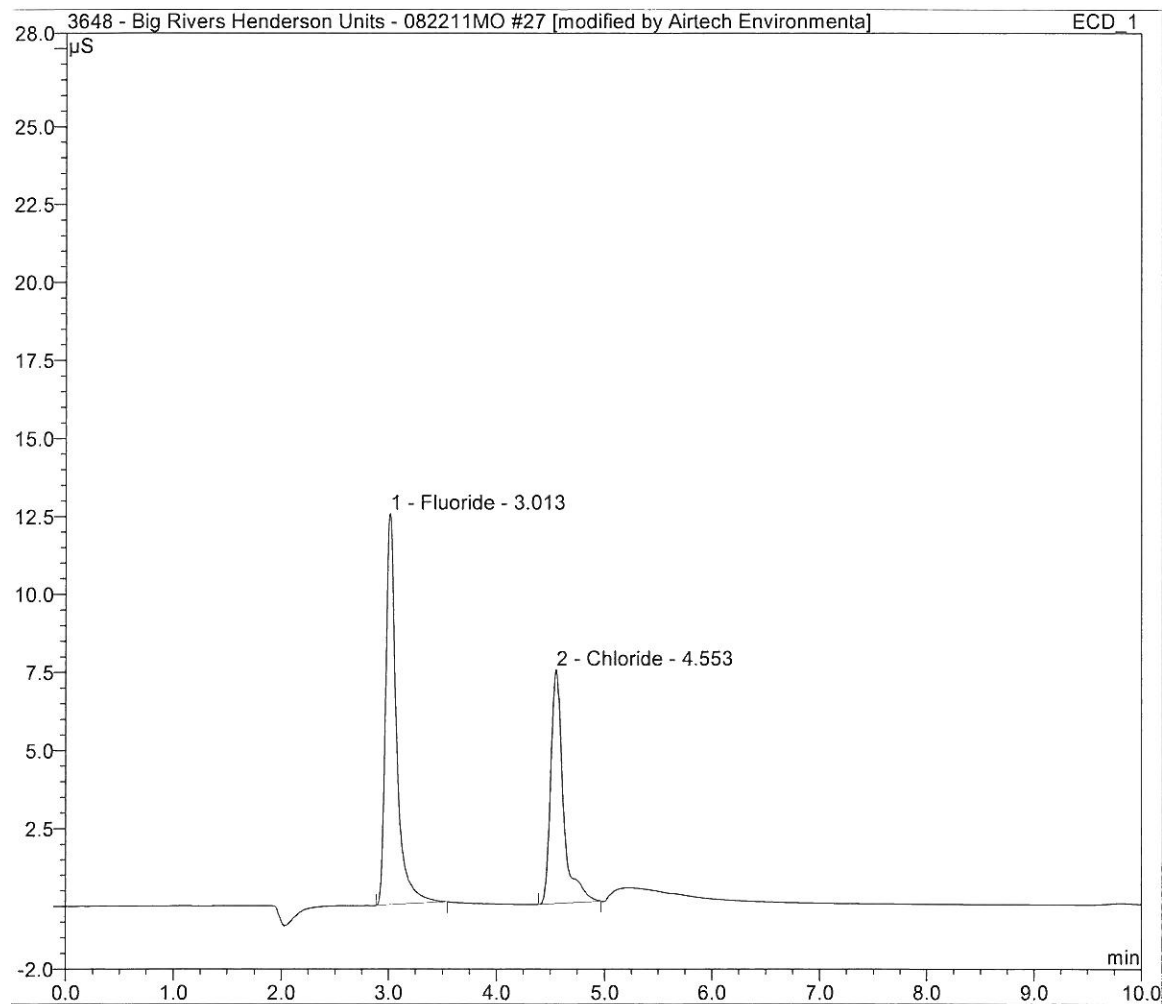
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 4 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 22.08.11 15:11 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g}/\text{ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|--------------------------------|
| 1 | 2.97 | Fluoride | BMB* | 3.187 | 29.864 | 2.1826 |
| 2 | 4.46 | Chloride | BMB* | 2.164 | 17.068 | 2.1167 |
| TOTAL: | | | | 5.35 | 46.93 | 4.30 |



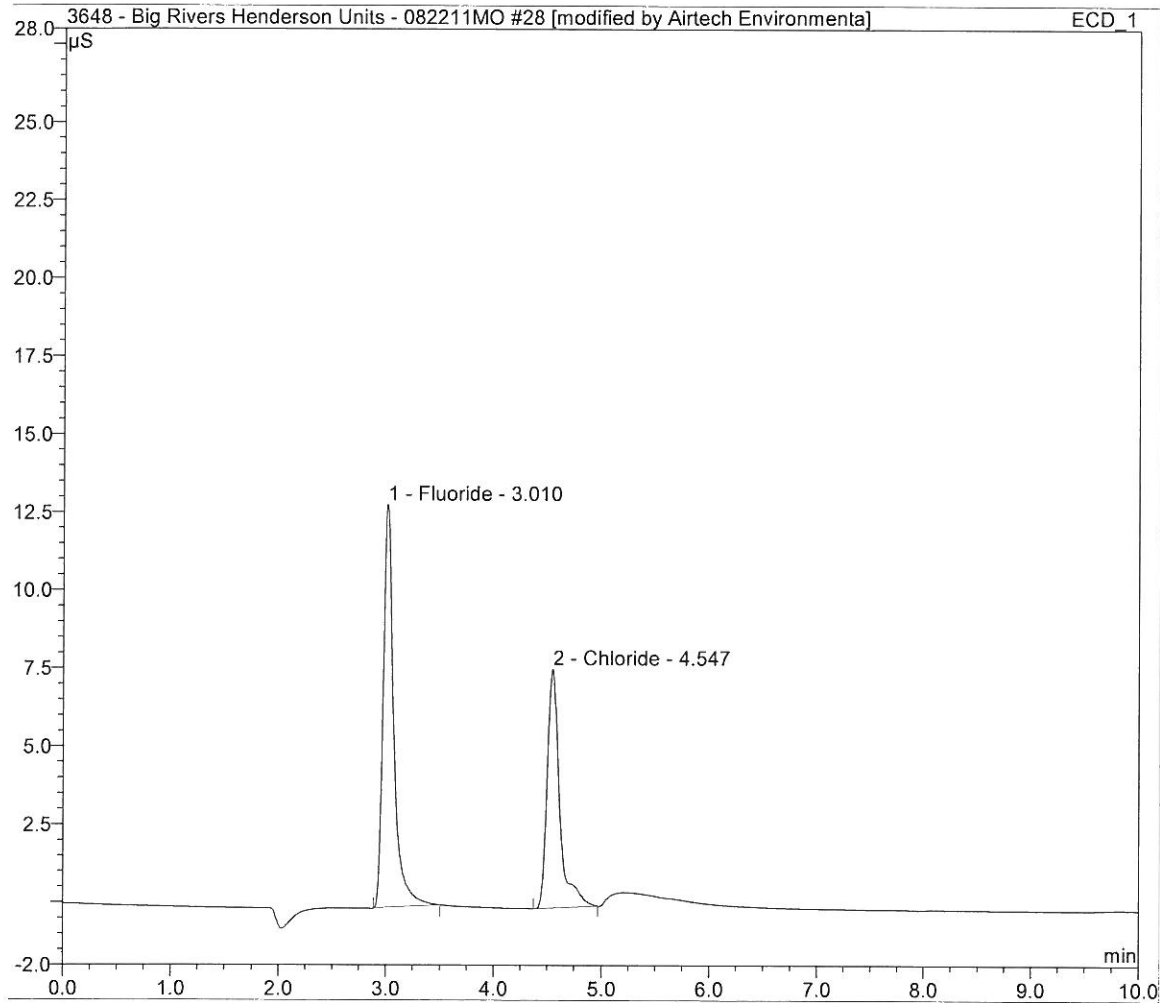
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 08:09 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 3.01 | Fluoride | BMB* | 1.467 | 12.545 | 1.0044 |
| 2 | 4.55 | Chloride | BMB* | 1.014 | 7.500 | 0.9917 |
| TOTAL: | | | | 2.48 | 20.04 | 2.00 |



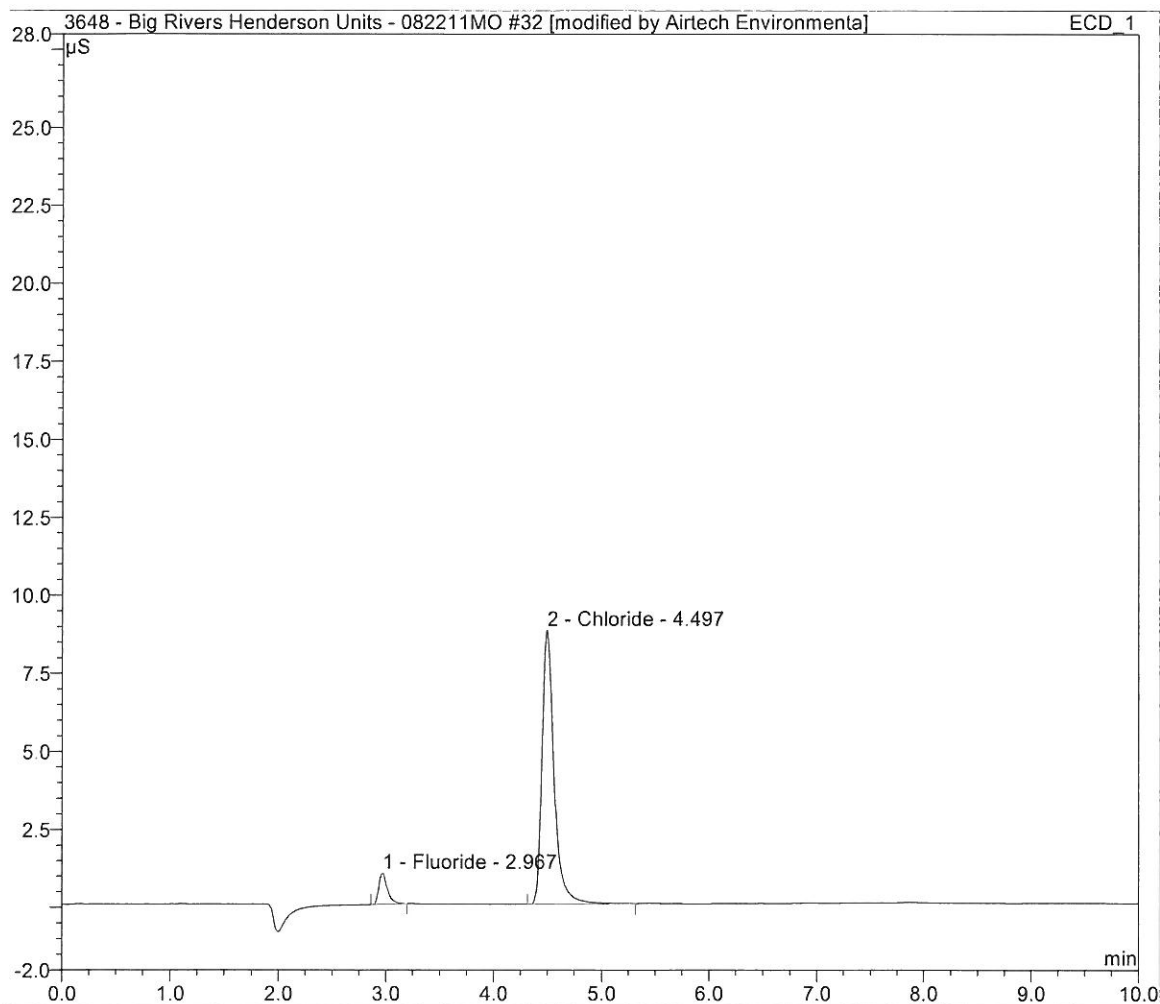
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 08:24 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 3.01 | Fluoride | BMB* | 1.491 | 12.916 | 1.0208 |
| 2 | 4.55 | Chloride | BMB* | 1.030 | 7.656 | 1.0072 |
| TOTAL: | | | | 2.52 | 20.57 | 2.03 |



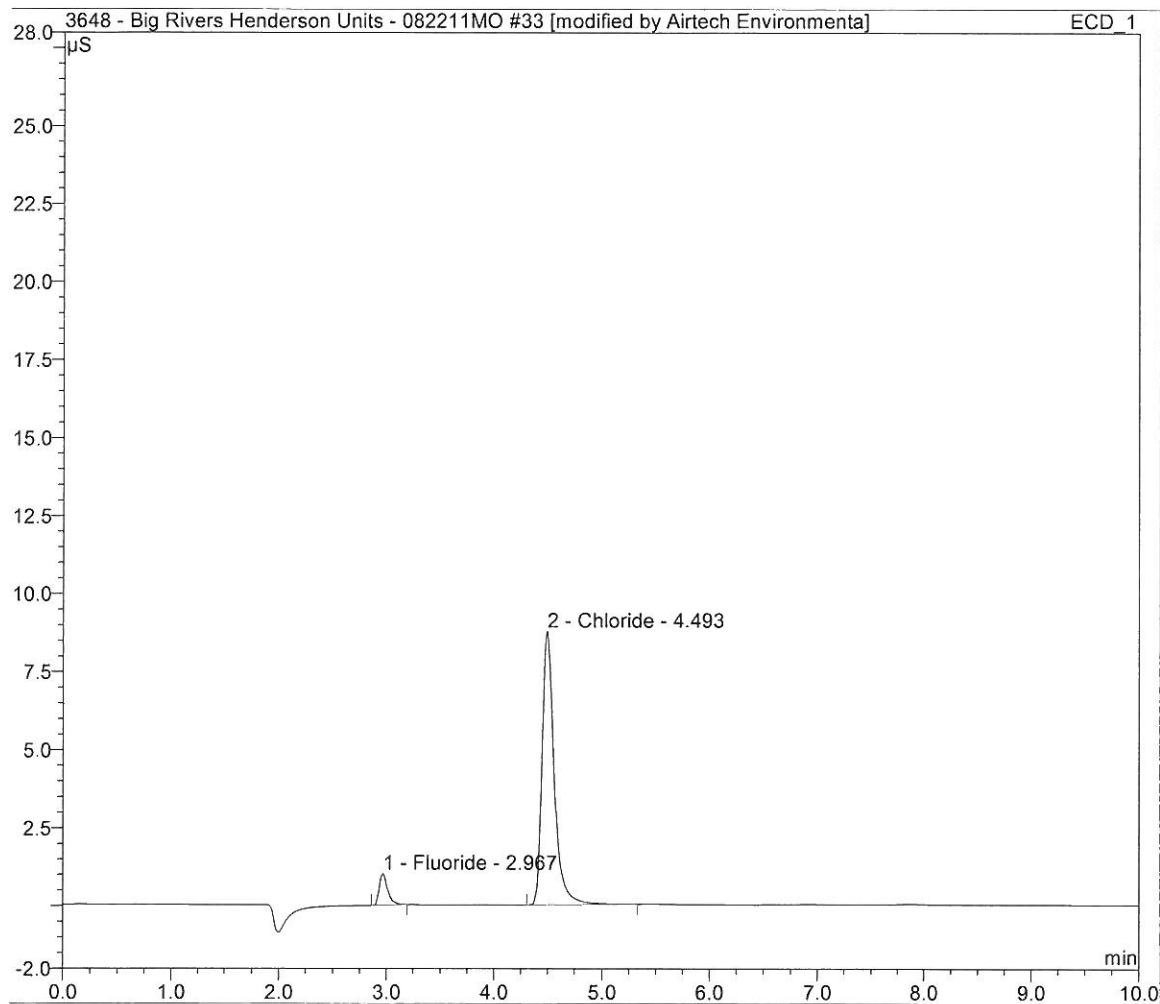
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 1 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 11:24 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB | 0.093 | 1.005 | 0.0637 |
| 2 | 4.50 | Chloride | BMB | 1.147 | 8.789 | 1.1214 |
| TOTAL: | | | | 1.24 | 9.79 | 1.19 |



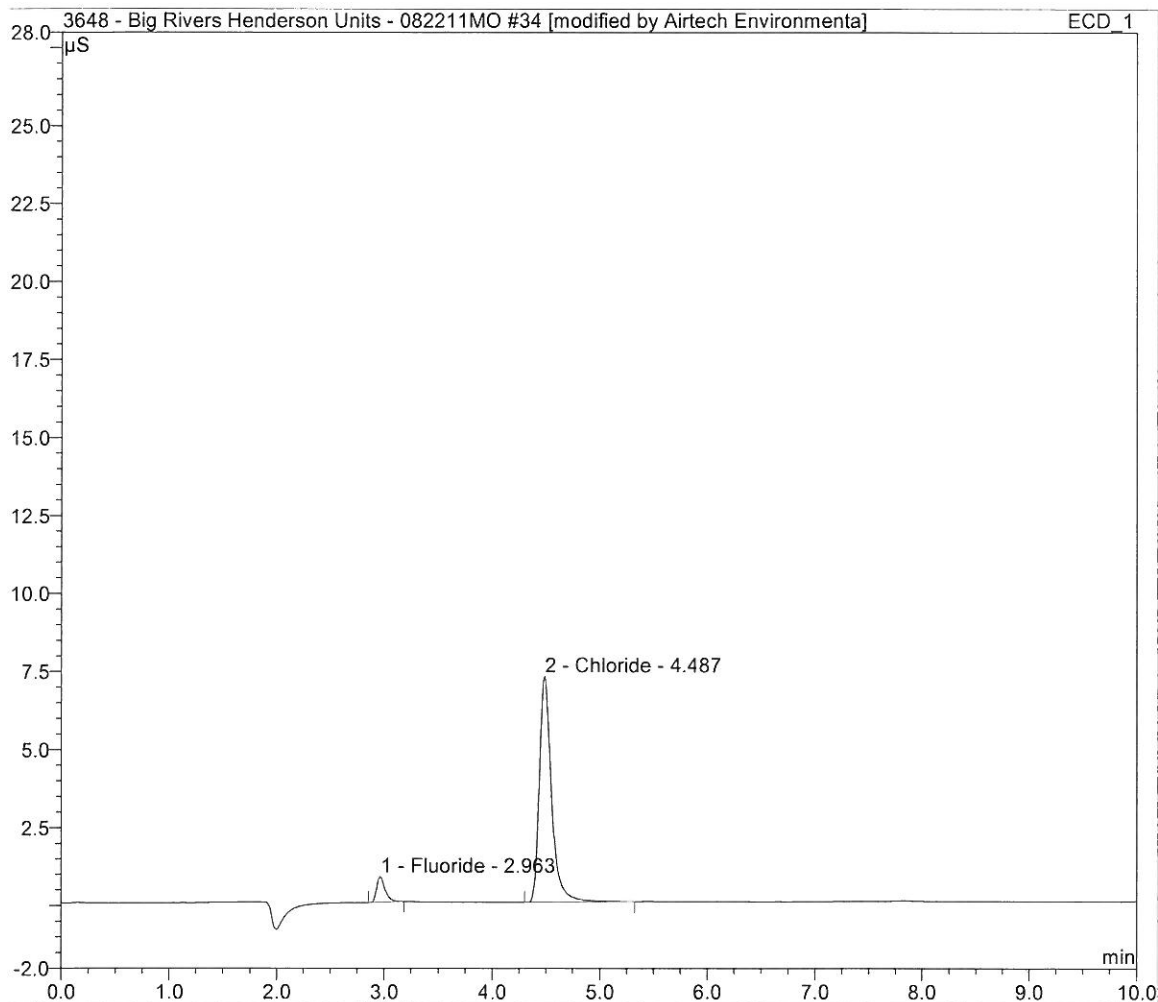
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 1 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 12:04 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB | 0.093 | 1.004 | 0.0634 |
| 2 | 4.49 | Chloride | BMB | 1.144 | 8.762 | 1.1185 |
| TOTAL: | | | | 1.24 | 9.77 | 1.18 |



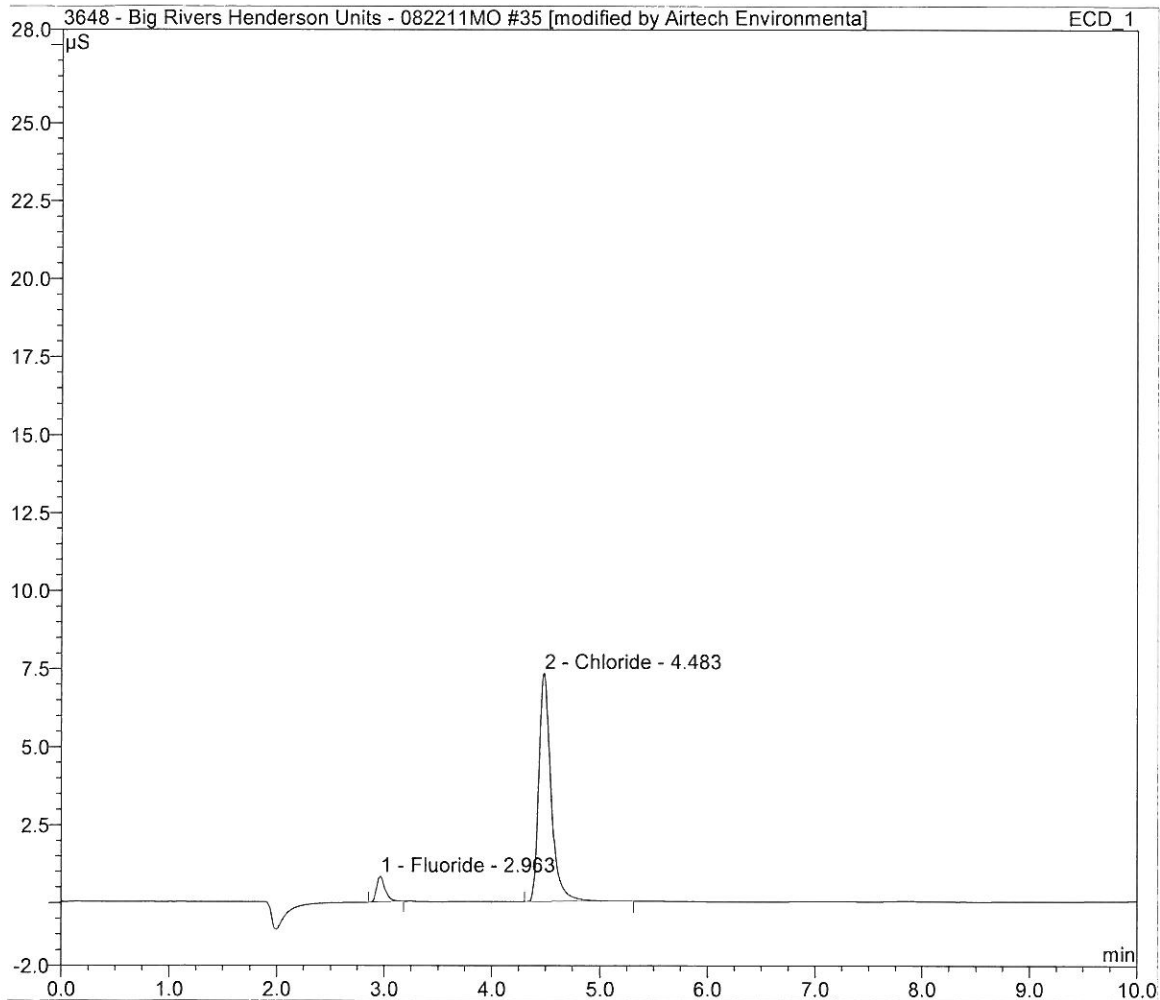
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 2 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 12:27 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.075 | 0.816 | 0.0516 |
| 2 | 4.49 | Chloride | BMB | 0.948 | 7.233 | 0.9272 |
| TOTAL: | | | | 1.02 | 8.05 | 0.98 |



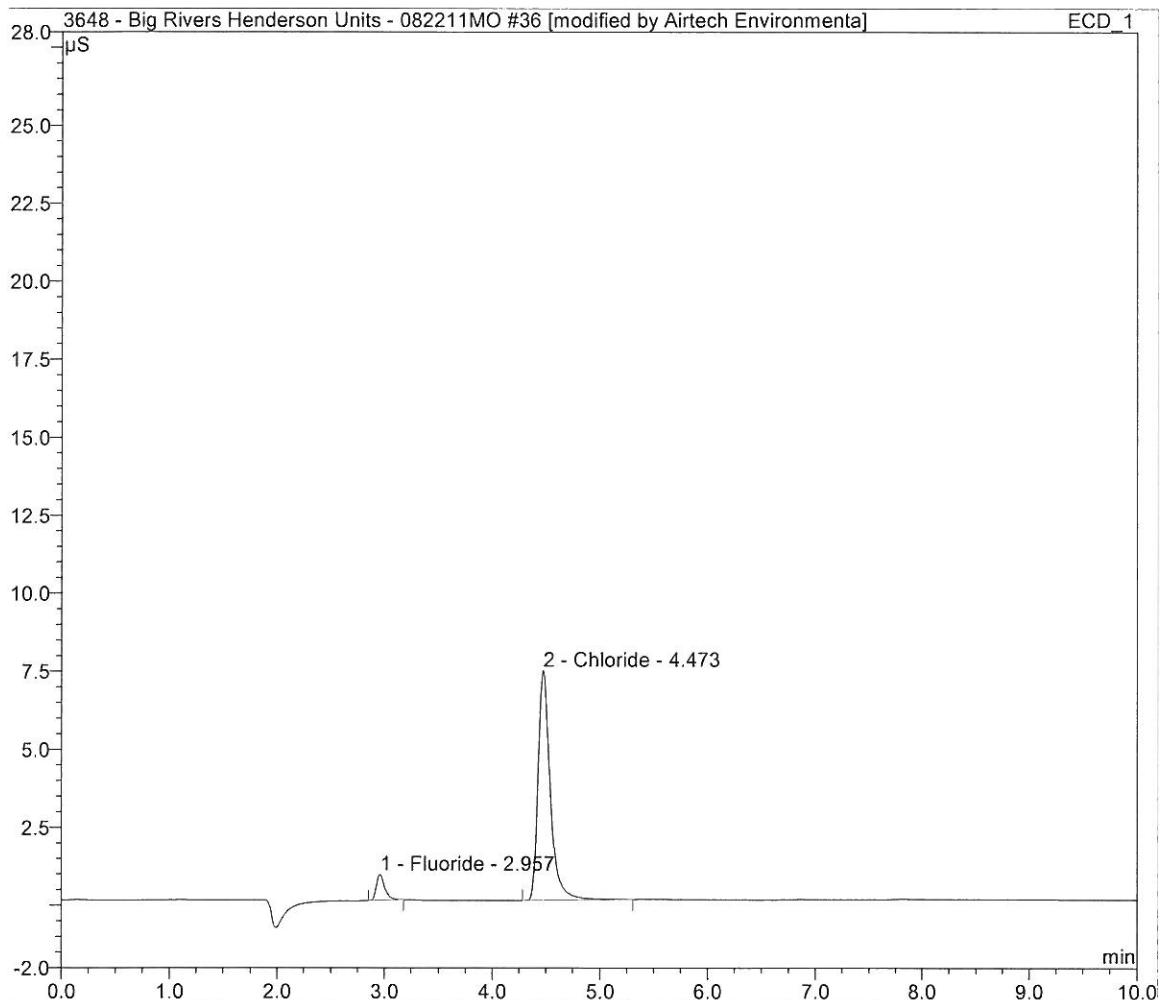
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 2 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 13:01 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.076 | 0.827 | 0.0523 |
| 2 | 4.48 | Chloride | BMB | 0.956 | 7.329 | 0.9353 |
| TOTAL: | | | | 1.03 | 8.16 | 0.99 |



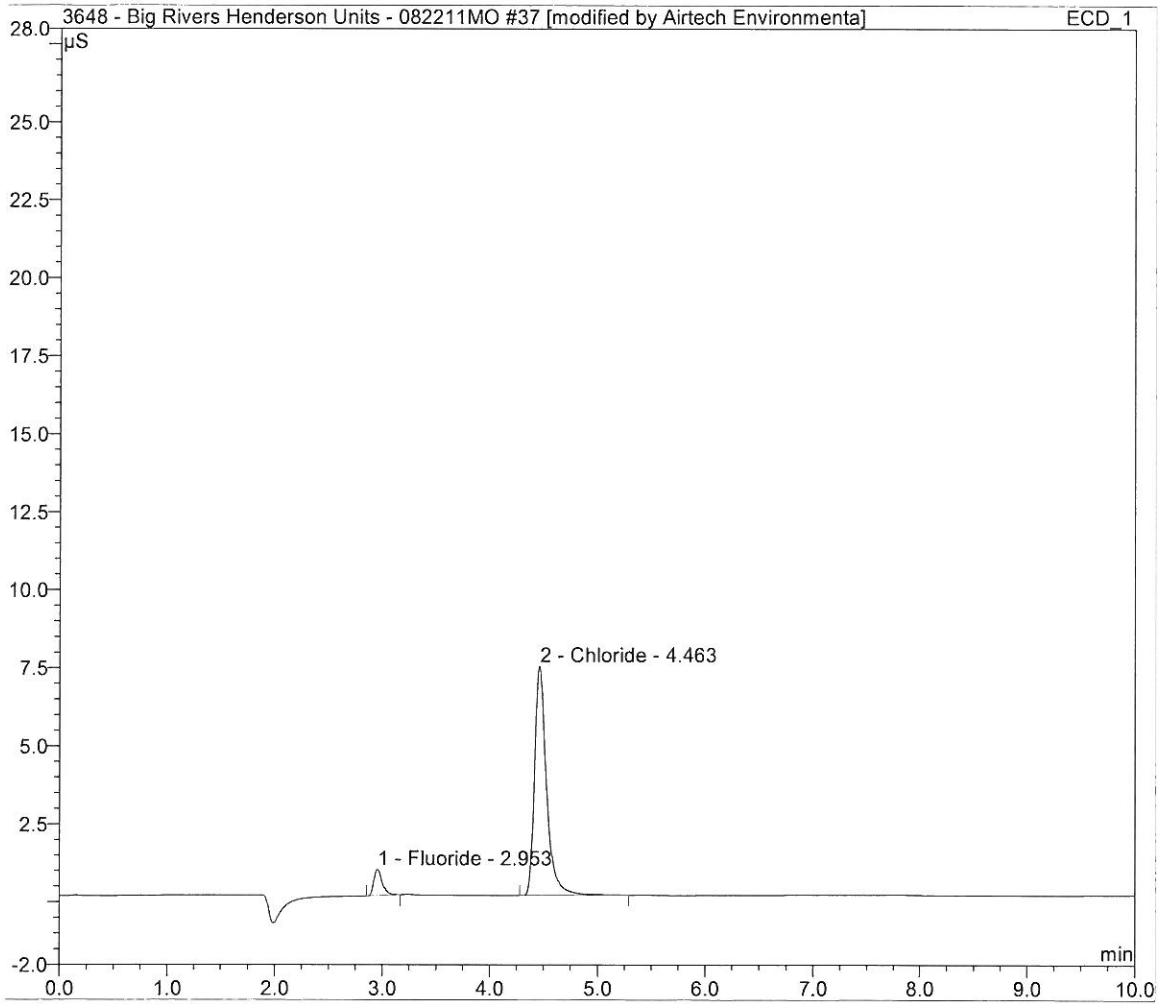
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 3 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 13:22 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.076 | 0.830 | 0.0523 |
| 2 | 4.47 | Chloride | BMB | 0.961 | 7.357 | 0.9402 |
| TOTAL: | | | | 1.04 | 8.19 | 0.99 |



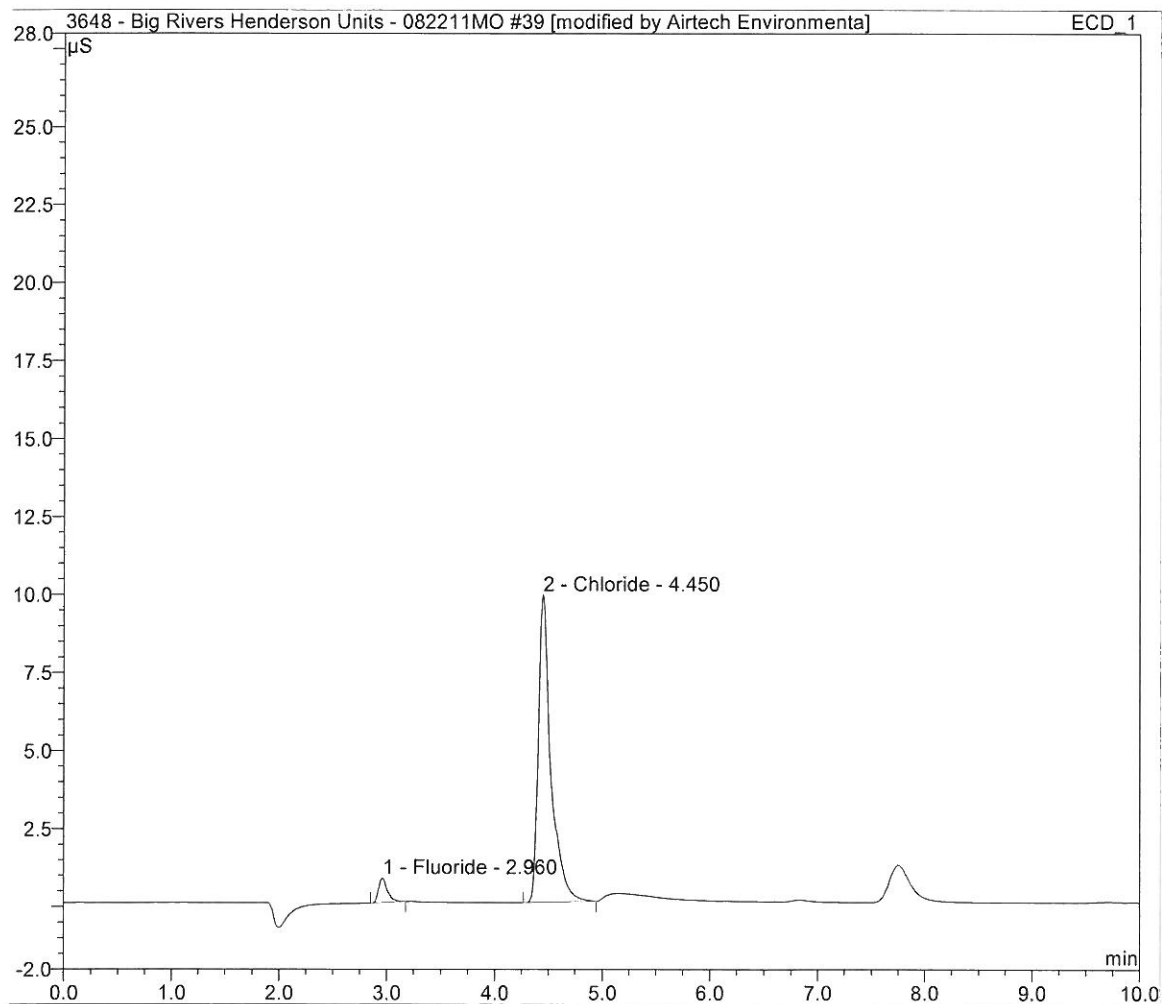
| | | | |
|-----------------|--|------------------|--------|
| Sample Name: | Unit 2 ESP Inlet 1 - Run 3 x66.6667 dilution | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 14:19 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.95 | Fluoride | BMB | 0.077 | 0.849 | 0.0531 |
| 2 | 4.46 | Chloride | BMB | 0.956 | 7.352 | 0.9351 |
| TOTAL: | | | | 1.03 | 8.20 | 0.99 |



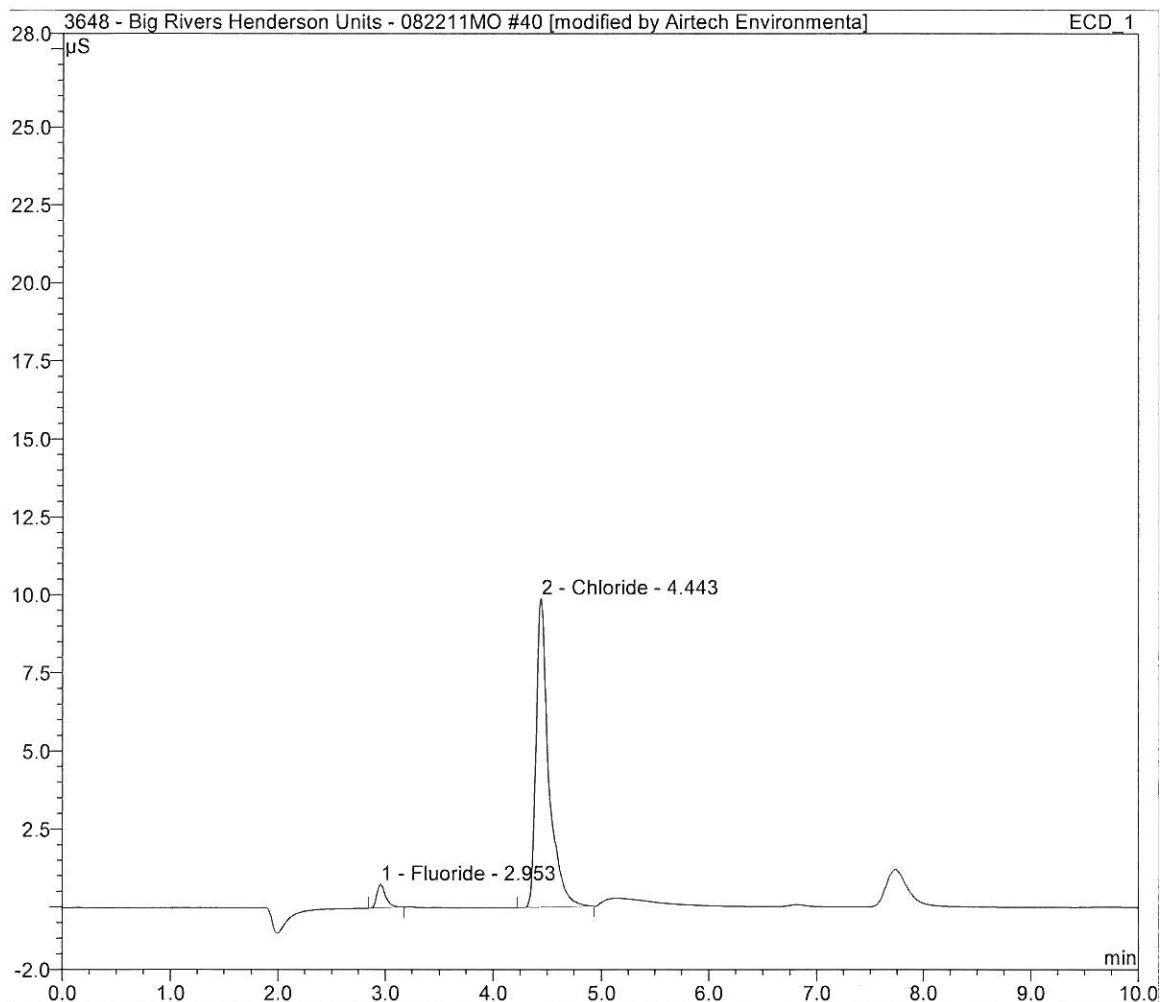
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 1 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 15:27 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.076 | 0.783 | 0.0519 |
| 2 | 4.45 | Chloride | BMB* | 1.345 | 9.845 | 1.3159 |
| TOTAL: | | | | 1.42 | 10.63 | 1.37 |



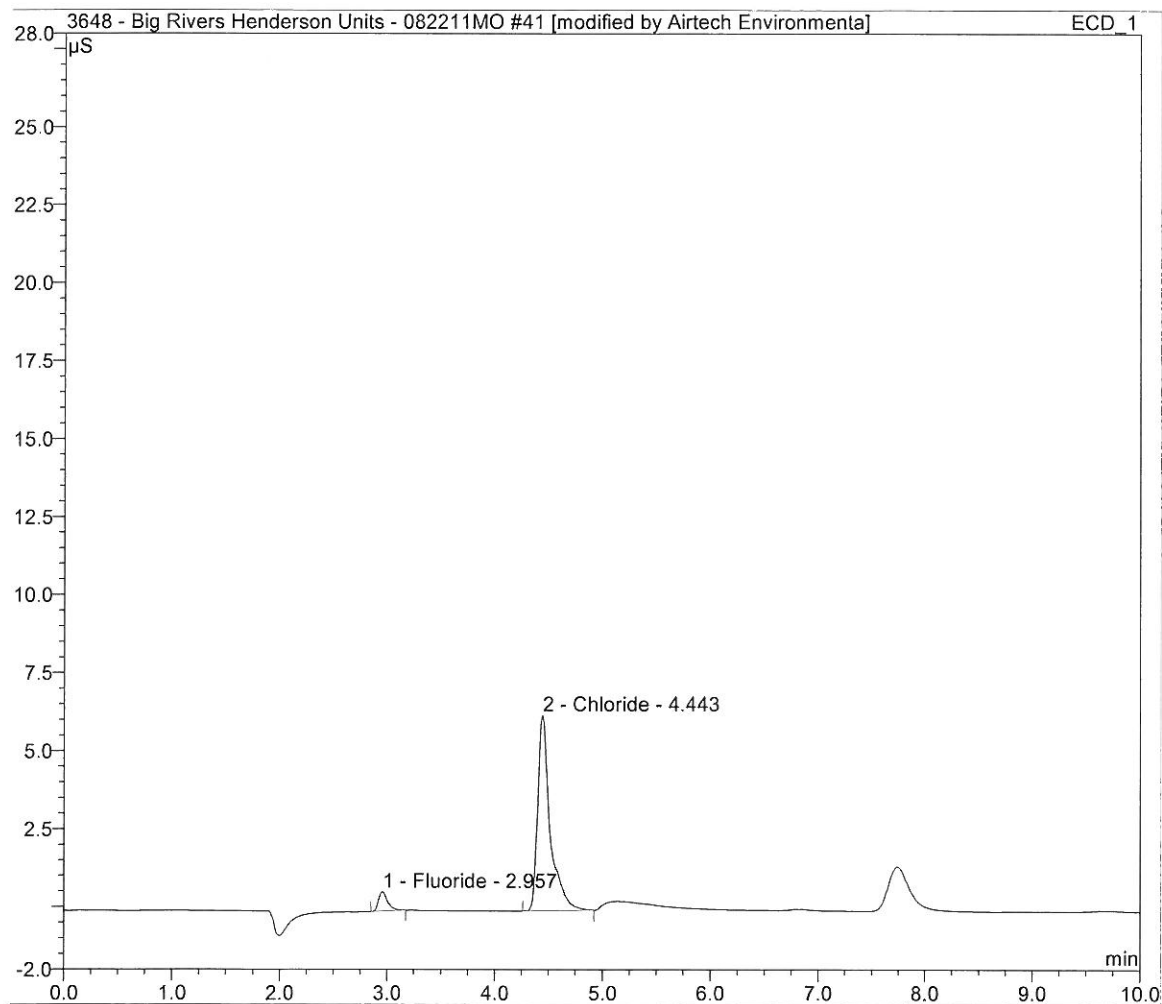
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 1 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 16:02 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.95 | Fluoride | BMB | 0.073 | 0.755 | 0.0500 |
| 2 | 4.44 | Chloride | BMB* | 1.345 | 9.899 | 1.3155 |
| TOTAL: | | | | 1.42 | 10.65 | 1.37 |



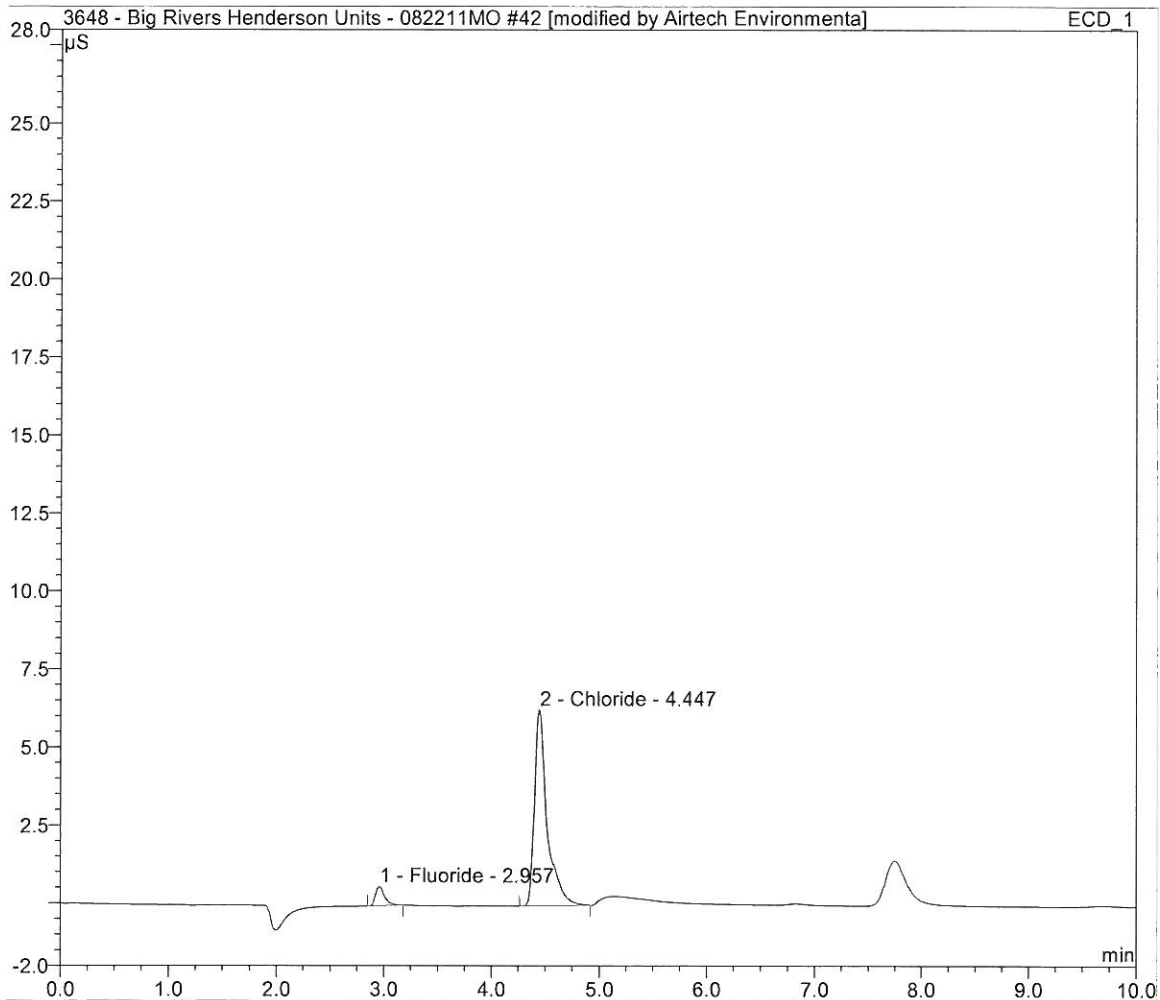
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 2 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 16:29 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.062 | 0.626 | 0.0427 |
| 2 | 4.44 | Chloride | BMB* | 0.852 | 6.269 | 0.8330 |
| TOTAL: | | | | 0.91 | 6.89 | 0.88 |



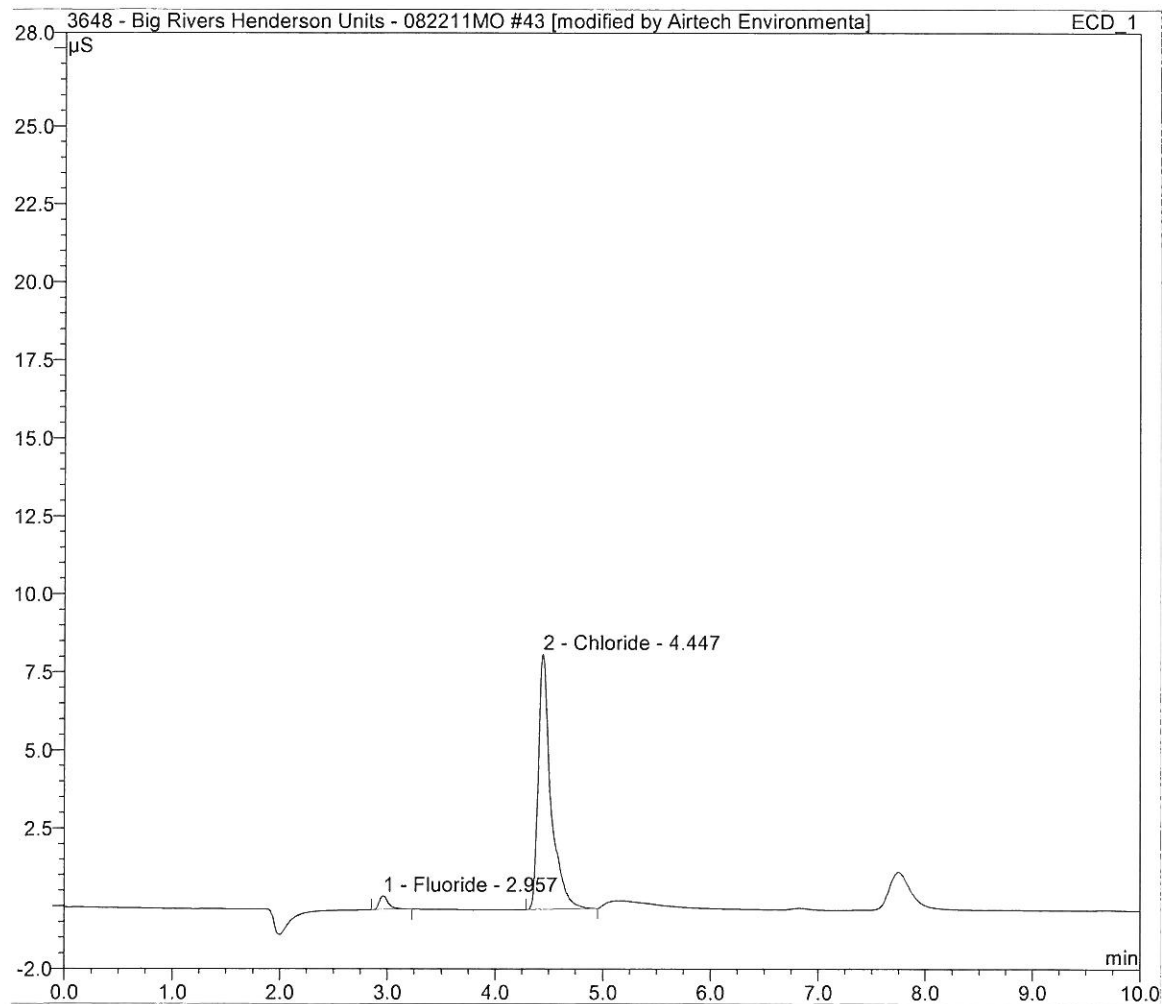
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 2 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 16:59 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB | 0.062 | 0.622 | 0.0425 |
| 2 | 4.45 | Chloride | BMB* | 0.856 | 6.290 | 0.8368 |
| TOTAL: | | | | 0.92 | 6.91 | 0.88 |



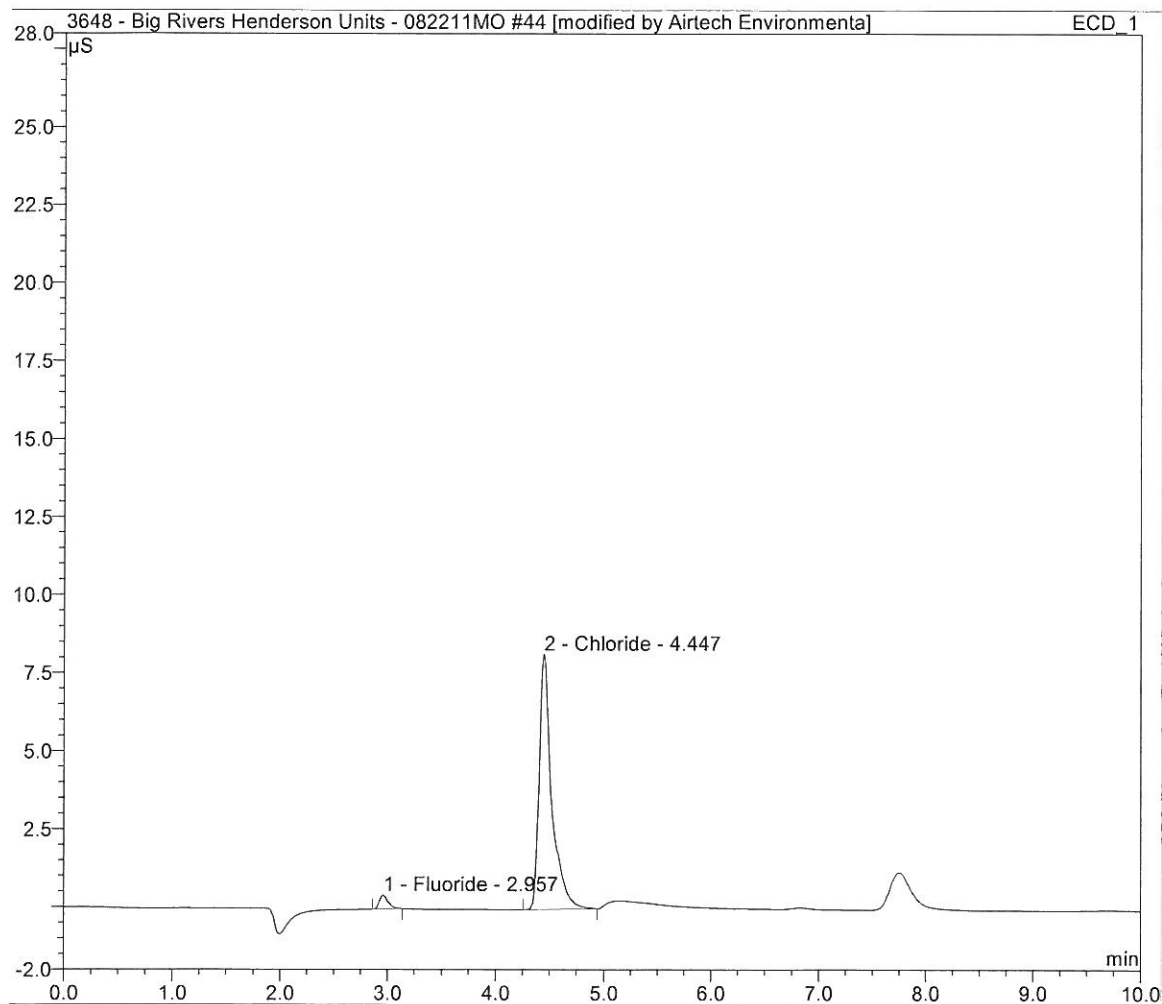
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 3 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 17:15 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|---------------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB* | 0.044 | 0.447 | 0.0304 |
| 2 | 4.45 | Chloride | BMB* | 1.118 | 8.194 | 1.0931 |
| TOTAL: | | | | 1.16 | 8.64 | 1.12 |



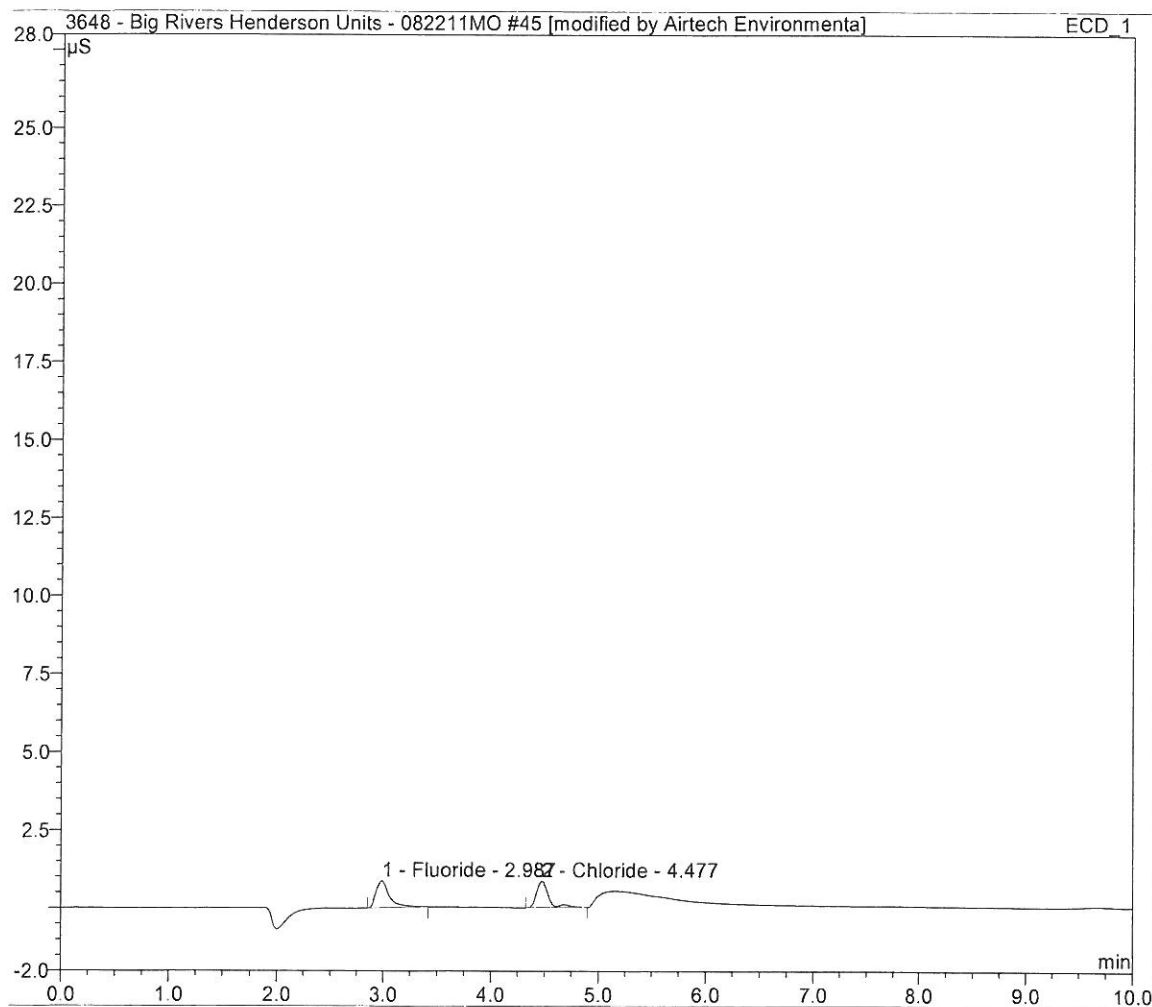
| | | | |
|-----------------|----------------------|------------------|--------|
| Sample Name: | Unit 2 Stack - Run 3 | Inj. Vol.: | 10.0 |
| Sample Type: | unknown | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 24.08.11 17:30 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB* | 0.043 | 0.443 | 0.0294 |
| 2 | 4.45 | Chloride | BMB* | 1.116 | 8.175 | 1.0915 |
| TOTAL: | | | | 1.16 | 8.62 | 1.12 |



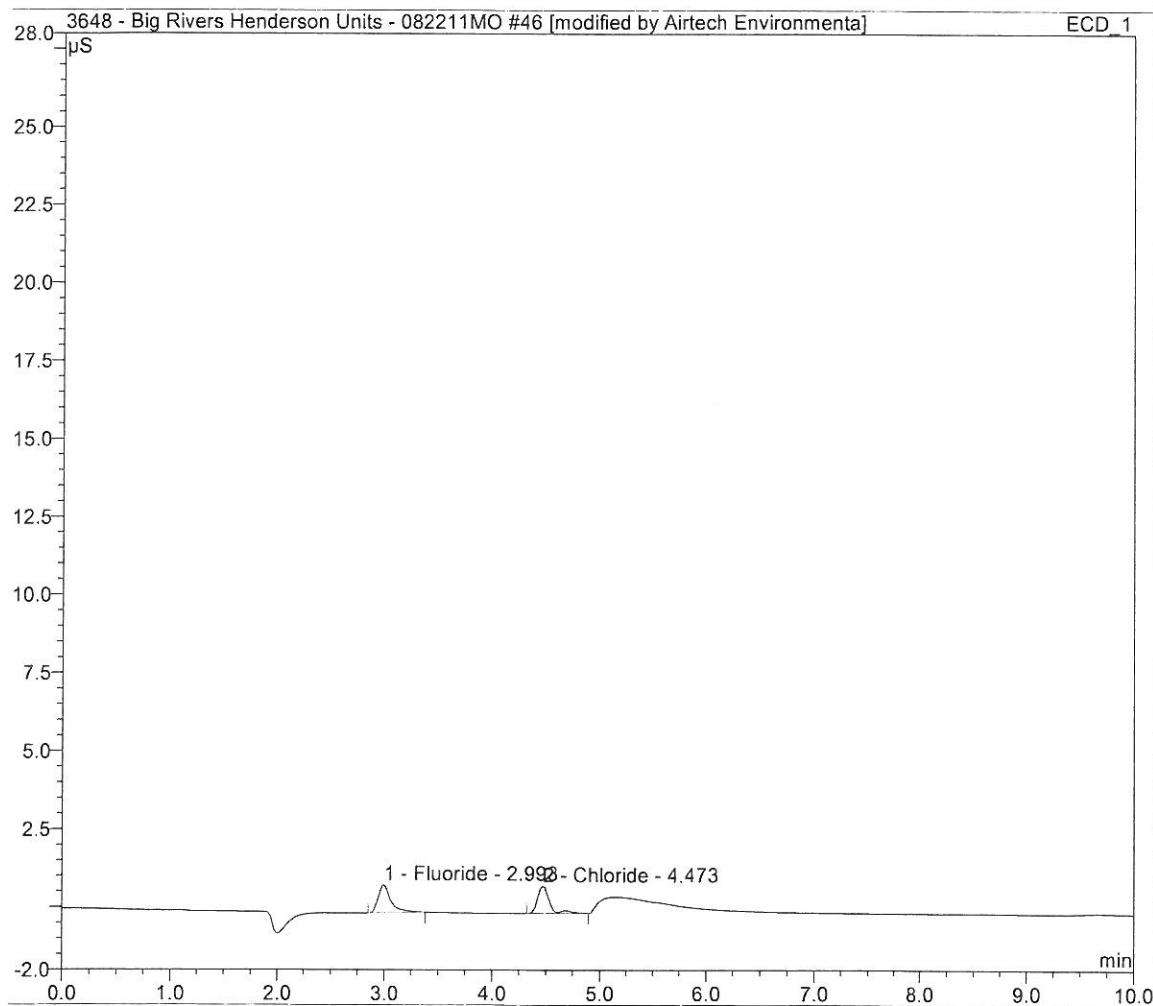
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 1 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 11:35 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.99 | Fluoride | BMB* | 0.130 | 0.870 | 0.0887 |
| 2 | 4.48 | Chloride | BMB* | 0.111 | 0.850 | 0.1081 |
| TOTAL: | | | | 0.24 | 1.72 | 0.20 |



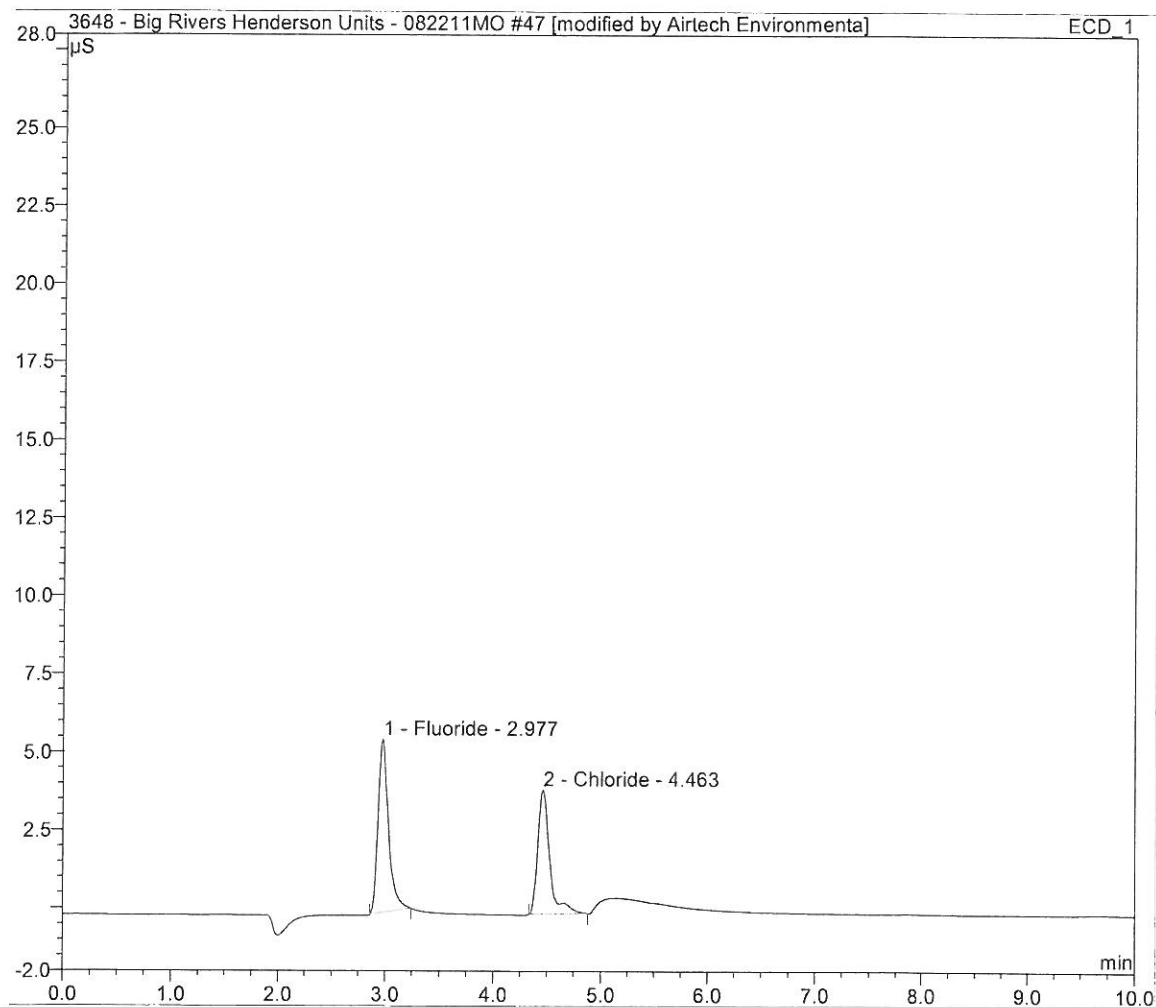
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 1 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 11:51 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.99 | Fluoride | BMB* | 0.126 | 0.909 | 0.0861 |
| 2 | 4.47 | Chloride | BMB* | 0.113 | 0.874 | 0.1101 |
| TOTAL: | | | | 0.24 | 1.78 | 0.20 |



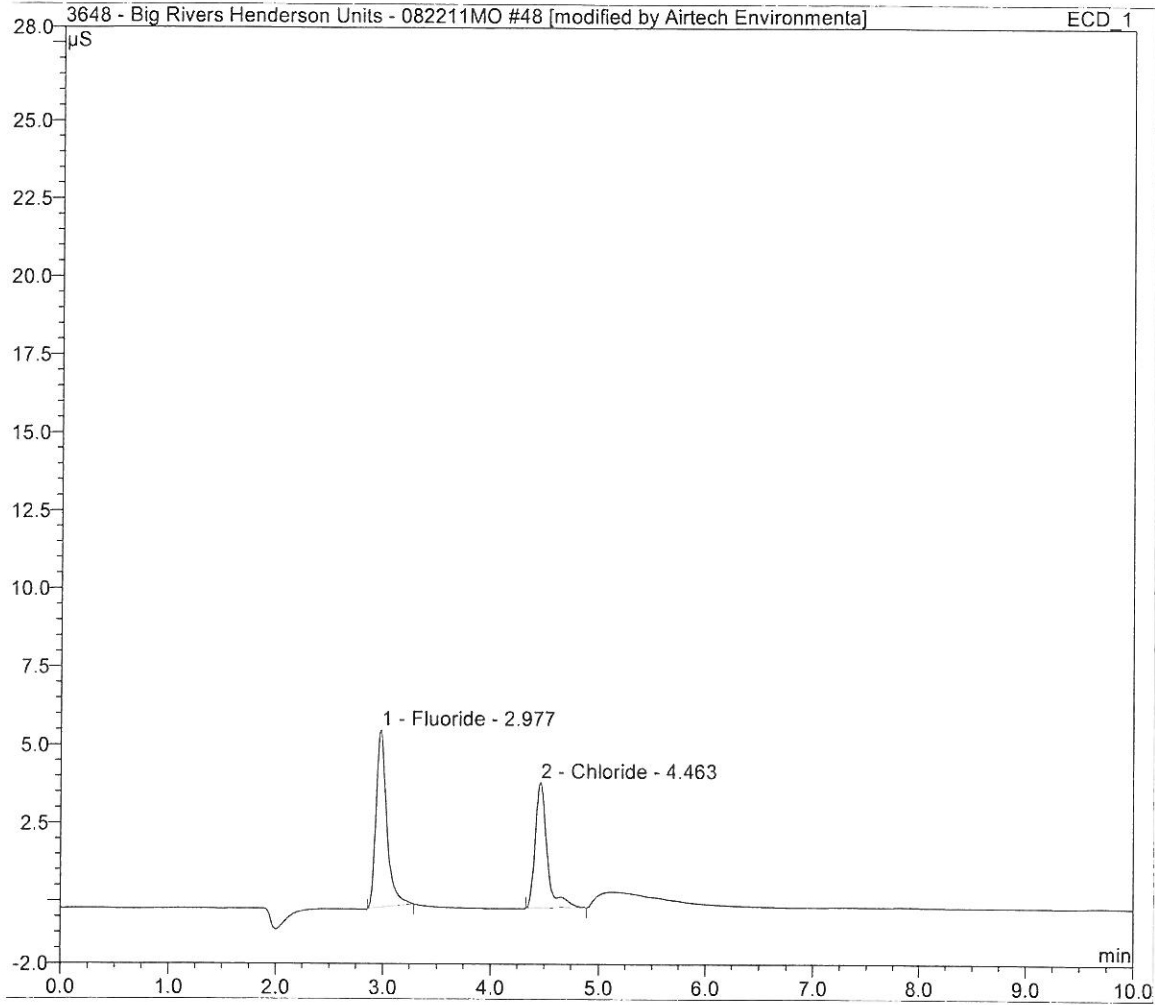
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 2 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 12:06 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area μS*min | Height μS | Amount ug/ml |
|--------|-------------|-----------|------|----------------|--------------|-----------------|
| 1 | 2.98 | Fluoride | BMB* | 0.635 | 5.554 | 0.4348 |
| 2 | 4.46 | Chloride | BMB* | 0.515 | 3.972 | 0.5036 |
| TOTAL: | | | | 1.15 | 9.53 | 0.94 |



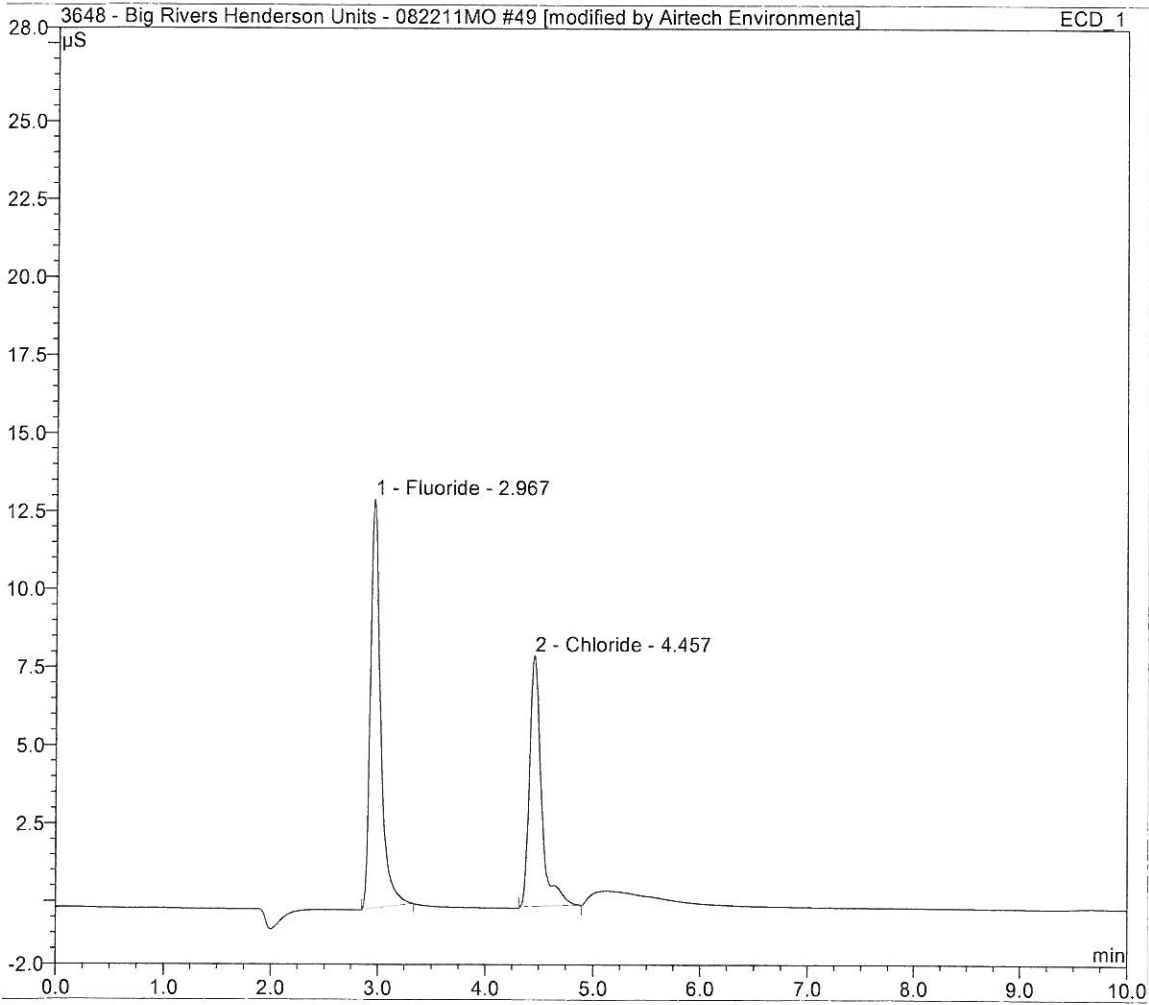
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 2 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 12:27 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.98 | Fluoride | BMB* | 0.663 | 5.692 | 0.4543 |
| 2 | 4.46 | Chloride | BMB* | 0.522 | 4.027 | 0.5102 |
| TOTAL: | | | | 1.19 | 9.72 | 0.96 |



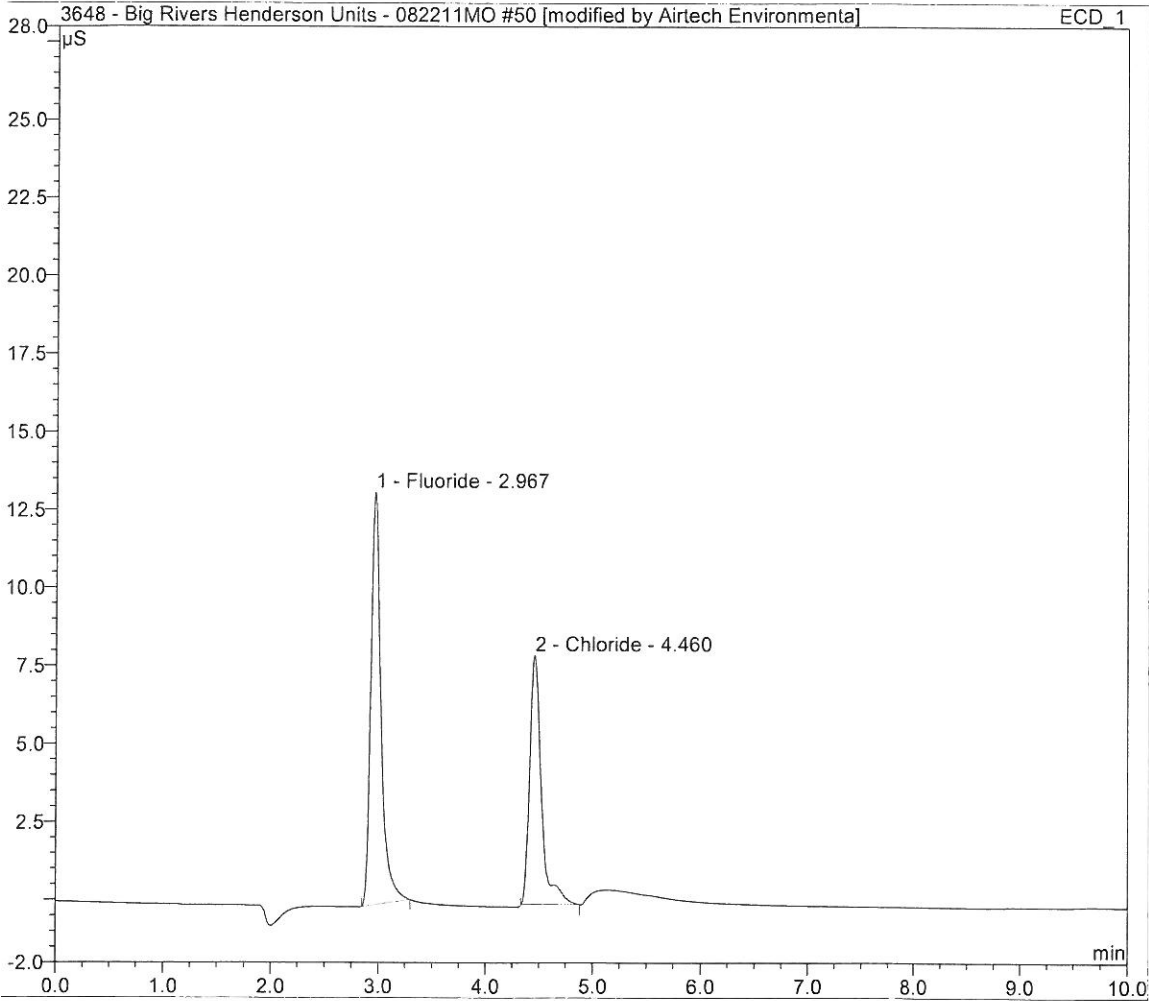
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 12:48 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB* | 1.455 | 13.117 | 0.9963 |
| 2 | 4.46 | Chloride | BMB* | 1.033 | 8.045 | 1.0100 |
| TOTAL: | | | | 2.49 | 21.16 | 2.01 |



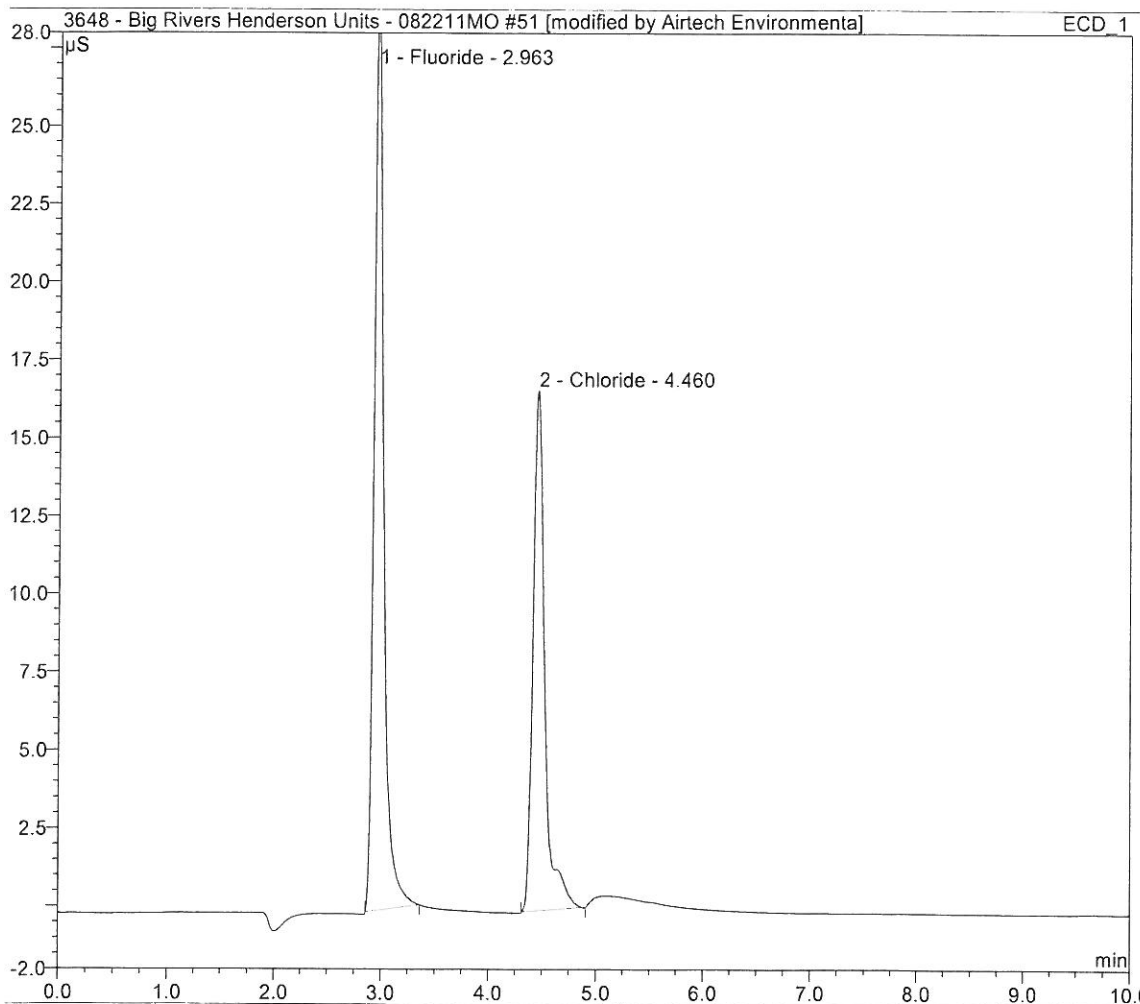
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 3 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 13:05 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.97 | Fluoride | BMB* | 1.452 | 13.238 | 0.9940 |
| 2 | 4.46 | Chloride | BMB* | 1.020 | 7.988 | 0.9976 |
| TOTAL: | | | | 2.47 | 21.23 | 1.99 |



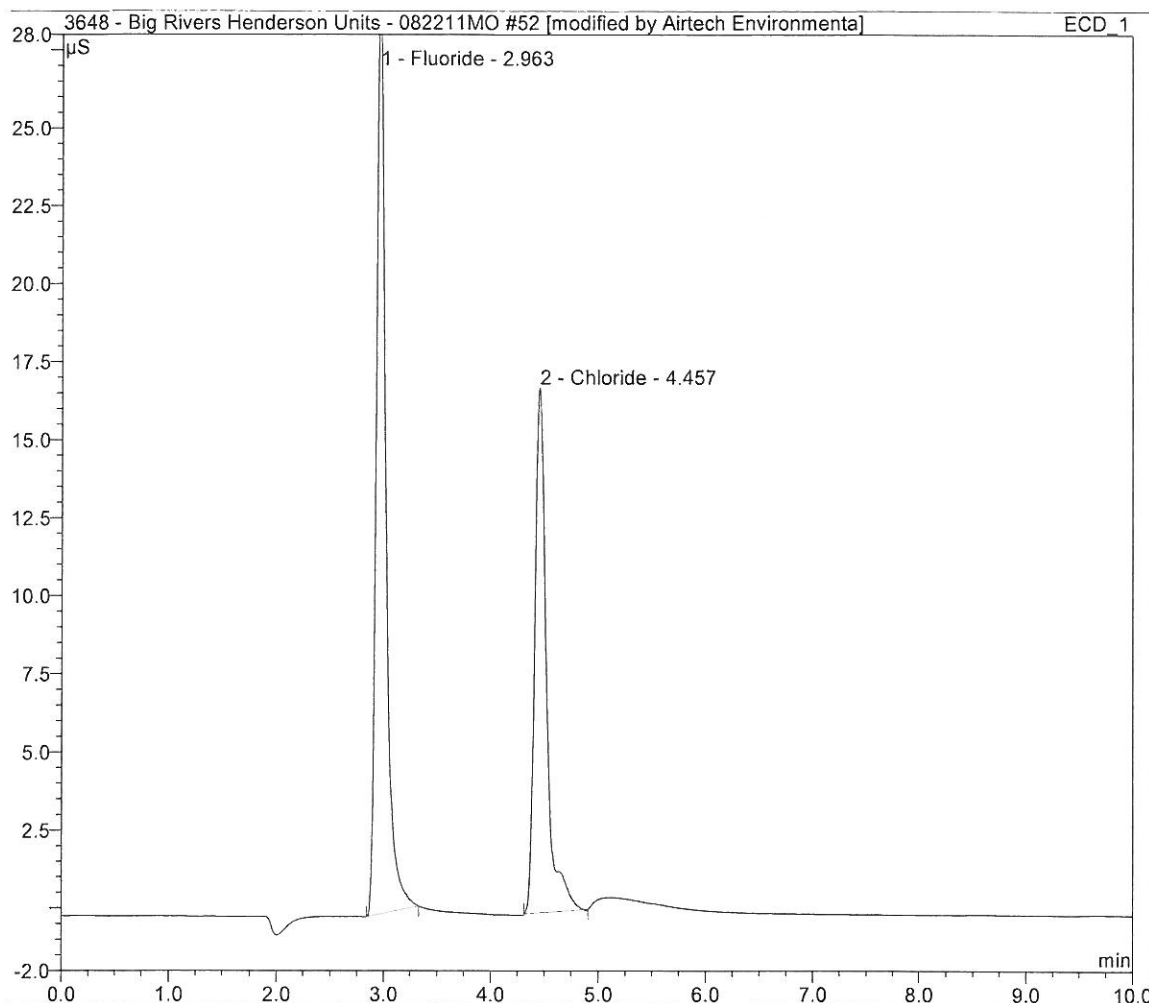
| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 4 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 13:20 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g/ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|-------------------------|
| 1 | 2.96 | Fluoride | BMB* | 3.028 | 29.149 | 2.0735 |
| 2 | 4.46 | Chloride | BMB* | 2.104 | 16.673 | 2.0580 |
| TOTAL: | | | | 5.13 | 45.82 | 4.13 |



| | | | |
|-----------------|----------------|------------------|--------|
| Sample Name: | cal std 4 | Inj. Vol.: | 10.0 |
| Sample Type: | standard | Dilution Factor: | 1.0000 |
| Program: | ChlorideCal | Operator: | n.a. |
| Inj. Date/Time: | 25.08.11 13:39 | Run Time: | 15.00 |

| No. | Time min | Peak Name | Type | Area $\mu\text{S}\cdot\text{min}$ | Height μS | Amount $\mu\text{g}/\text{ml}$ |
|--------|----------|-----------|------|-----------------------------------|----------------------|--------------------------------|
| 1 | 2.96 | Fluoride | BMB* | 3.046 | 29.358 | 2.0861 |
| 2 | 4.46 | Chloride | BMB* | 2.116 | 16.809 | 2.0699 |
| TOTAL: | | | | 5.16 | 46.17 | 4.16 |





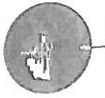
AIRTECH
Environmental
Services Inc

www.airtechenv.com
800 • 941 • 6230



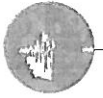
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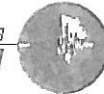
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Big Rivers (3645)

Henderson Unit 2

AIRTECH Environmental Services Inc



ID

UOI (m)

H2 ESP Inlet 1 Run 1 398

" Run 2 481

" Run 3 505

H2 Stack Run 1 539

" Run 2 473

" Run 3 536

dilution was performed by adding
pipetting 3 ml of sample to a 200 ml
volumetric flask and filling to mark w/
reagent water yielding a dilution factor
of 66.67

66.67
dilution

Chain of Custody

Includes the following:

- Field Chain of Custody

Airtech Environmental Services, Inc.

601A Country Club Drive
Bensenville, IL 60106

Project Number: 3648

**Antimony, Arsenic, Beryllium, Cadmium,
Chromium, Cobalt, Lead, Manganese,
Nickel and Selenium**

EPA Method 29 Analysis

**Analytical Report
17131**



Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 17131
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:



Dolores Bradshaw
August 24, 2011

Report Reviewed and Finalized By:



Keni Smith, Laboratory Director
August 24, 2011

SUMMARY OF RESULTS

Summary of Analysis

Front Half – ESP Outlet - Summary of Method 29 Metals Analysis

| Element | ESP Outlet-R1 e17131-4 FH Total µg | ESP Outlet-R2 e17131-5 FH Total µg | ESP Outlet-R2 e17131-5 FH dup Total µg | ESP Outlet-R3 e17131-6 FH Total µg | Reagent Blank e17131-7 FH Total µg |
|-----------|---|---|---|---|---|
| Antimony | 5.54 | 6.81 | 8.15 | 7.57 | < 0.1 |
| Arsenic | 7.04 | 8.48 | 7.87 | 7.8 | < 0.1 |
| Beryllium | 5.89 | 7.86 | 8.68 | 9.93 | < 0.025 |
| Cadmium | 14.7 | 20.6 | 20.7 | 23.0 | < 0.1 |
| Chromium | 222 | 262 | 265 | 302 | 1.88 |
| Cobalt | 16.4 | 20.7 | 21.2 | 25.3 | < 0.1 |
| Lead | 40.1 | 56.3 | 57.7 | 65.3 | 0.200 |
| Manganese | 167 | 216 | 224 | 250 | 4.27 |
| Nickel | 139 | 128 | 128 | 143 | 1.06 |
| Selenium | 85.4 | 102 | 98.6 | 76.6 | < 0.1 |

Back Half – ESP Outlet - Summary of Method 29 Metals Analysis

| Element | ESP Outlet-R1 e17131-4 BH Total µg | ESP Outlet-R2 e17131-5 BH Total µg | ESP Outlet-R2 e17131-5 BH dup Total µg | ESP Outlet-R3 e17131-6 BH Total µg | Reagent Blank e17131-7 BH Total µg |
|-----------|---|---|---|---|---|
| Antimony | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Arsenic | 16.8 | 15.0 | 15.9 | 8.48 | < 0.1 |
| Beryllium | < 0.025 | < 0.025 | < 0.025 | < 0.025 | < 0.025 |
| Cadmium | 0.302 | 0.957 | 1.01 | 0.344 | < 0.1 |
| Chromium | 3.81 | 3.67 | 3.95 | 3.42 | 0.424 |
| Cobalt | < 0.1 | < 0.1 | 0.101 | 0.289 | 0.141 |
| Lead | 1.11 | 0.819 | 0.869 | 0.954 | 0.416 |
| Manganese | 2.42 | 3.13 | 3.31 | 4.94 | 1.12 |
| Nickel | 2.45 | 4.75 | 5.50 | 2.68 | 0.401 |
| Selenium | 65.7 | 40.8 | 48.7 | 47.4 | < 0.1 |

Summary of Analysis

Front Half – Stack - Summary of Method 29 Metals Analysis

| Element | Stack-R1 e17131-1 FH Total µg | Stack-R2 e17131-2 FH Total µg | Stack-R2 e17131-2 FH dup Total µg | Stack-R3 e17131-3 FH Total µg |
|-----------|-------------------------------------|-------------------------------------|---|-------------------------------------|
| Antimony | 1.54 | 2.46 | 2.50 | 1.48 |
| Arsenic | 12.6 | 13.5 | 13.4 | 12.8 |
| Beryllium | 0.765 | 0.677 | 0.715 | 0.706 |
| Cadmium | 3.93 | 3.73 | 3.84 | 3.93 |
| Chromium | 55.8 | 50.1 | 50.9 | 85.7 |
| Cobalt | 2.63 | 2.26 | 2.24 | 3.17 |
| Lead | 10.3 | 7.60 | 7.65 | 7.45 |
| Manganese | 21.8 | 21.2 | 21.2 | 31.0 |
| Nickel | 51.7 | 55.2 | 54.1 | 62.2 |
| Selenium | 58.2 | 68.3 | 66.0 | 60.9 |

Back Half – Stack - Summary of Method 29 Metals Analysis

| Element | Stack-R1 e17131-1 BH Total µg | Stack-R2 e17131-2 BH Total µg | Stack-R2 e17131-2 BH dup Total µg | Stack-R3 e17131-3 BH Total µg |
|-----------|-------------------------------------|-------------------------------------|---|-------------------------------------|
| Antimony | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Arsenic | 0.985 | 0.741 | 0.728 | 0.416 |
| Beryllium | < 0.025 | < 0.025 | < 0.025 | < 0.025 |
| Cadmium | 0.646 | 0.141 | 0.138 | 0.292 |
| Chromium | 1.75 | 3.84 | 3.85 | 1.21 |
| Cobalt | < 0.1 | 0.102 | < 0.1 | 0.231 |
| Lead | 0.957 | 0.902 | 0.879 | 0.557 |
| Manganese | 2.50 | 3.04 | 3.00 | 2.10 |
| Nickel | 2.41 | 14.3 | 13.8 | 1.69 |
| Selenium | 15.4 | 11.7 | 11.8 | 7.28 |

ANALYTICAL NARRATIVE

Element One Analytical Narrative

| | | | |
|------------|---|----------------|-------------|
| Client: | Airtech Environmental Services, Inc. | Element One #: | 17131 |
| Client ID: | 3648/Big Rivers Energy – Henderson Unit 2 | Analyst | DBW |
| Method: | Method 29 | Dates Received | 08/05/11 |
| Analytes: | Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni & Se | Dates Analyzed | 08/08-23/11 |

Summary of Analysis

The Method 29 samples were digested, prepared, and analyzed according to Method 29 protocol. Samples were analyzed for metals using a PerkinElmer ELAN 6100 ICP-MS.

Detection Limits

The ICP-MS instrument reporting limits were 0.25µg/L for beryllium and 1.0µg/L for the other metals.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD), spike sample recovery, and second source calibration verification data are summarized in the Quality Control Section.

*Ref page 9: The nickel spike recovery for the front half fraction of Stack -Run 3 was outside of the ±25% laboratory guidelines with a 72% spike recovery. The sample was extremely high in sulfates causing matrix interference. The sample was re-analyzed using a sulfuric acid curve to neutralize the sulfate interference resulting in a spike recovery of 82%.

** Ref page 9: The beryllium and antimony spike recoveries for Stack R3 were outside of the ±25% laboratory guidelines with 53% and 59% recoveries respectively. The samples were analyzed at a twofold dilution with spike recoveries of 81% and 109% respectively indicating matrix interference.

*** Ref page 9: The beryllium and cadmium spike recoveries for ESP Outlet R3 were outside of the ±25% laboratory guidelines with 65% and 53% respectively. The samples were analyzed at a twofold dilution for beryllium and fivefold dilution for cadmium with recoveries of 89% and 78% respectively indicating matrix interference.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. The ICP analysis of the Reagent Blank samples revealed detectable concentrations of metals, subsequent analyses produced equivalent results.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Metals Duplicate Analysis RPD

(Method 29 QC limits: < 20% for RPD)

| Element | Stack-R2 | ESP Outlet-R2 | Stack-R2 | ESP Outlet-R2 |
|-----------|-------------------|-------------------|------------------|------------------|
| | Front Half RPD | Front Half RPD | Back Half RPD | Back Half RPD |
| Antimony | 1.8% | NA | NA | NA |
| Arsenic | 1.1% | 7.5% | 1.7% | 5.8% |
| Beryllium | 5.5% | 9.8% | NA | NA |
| Cadmium | 2.8% | 0.9% | 2.7% | 5.5% |
| Chromium | 1.6% | 1.0% | 0.1% | 7.3% |
| Cobalt | 0.9% | 2.3% | NA | NA |
| Lead | 0.6% | 2.5% | 2.6% | 6.0% |
| Manganese | 0.1% | 3.5% | 1.1% | 5.6% |
| Nickel | 1.9% | 0.5% | 3.3% | 14.7% |
| Selenium | 3.5% | 3.4% | 1.3% | 17.5% |

Metals Analysis Spike Recoveries

(Method 29 QC limits: ±25% for Spike Recoveries)

| Element | Stack-R3 | ESP Outlet-R3 | Stack-R3 | ESP Outlet-R3 |
|-----------|------------------------|------------------------|-----------------------|-----------------------|
| | Front Half Recovery | Front Half Recovery | Back Half Recovery | Back Half Recovery |
| Antimony | 99% | 85% | **59% | 90% |
| Arsenic | 87% | 104% | 79% | 115% |
| Beryllium | 89% | 87% | **53% | ***65% |
| Cadmium | 88% | 103% | 82% | ***53% |
| Chromium | 92% | 103% | 79% | 109% |
| Cobalt | 103% | 105% | 77% | 90% |
| Lead | 100% | 99% | 89% | 98% |
| Manganese | 90% | 112% | 76% | 93% |
| Nickel | 97% | 107% | *82% | 94% |
| Selenium | 85% | 109% | 85% | 102% |

*See Analytical Narrative, page 7.

**See Analytical Narrative, page 7.

***See Analytical Narrative, page 7.

Summary of Quality Control Data

| Element | Second Source Calibration Check Recoveries | | | | |
|-----------|---|-------|--------|----------|---------|
| | <i>(Method 29 QC limits: ±10% for Second Source Continuing Check Standard*)</i> | | | | |
| | 0.25 ppb | 1 ppb | 50 ppb | 100 ppb* | 250 ppb |
| Antimony | | 115% | 108% | 106% | 103% |
| Arsenic | | 110% | 103% | 106% | 104% |
| Beryllium | 101% | 100% | 103% | 106% | 102% |
| Cadmium | | 108% | 103% | 104% | 101% |
| Chromium | | 101% | 105% | 109% | 106% |
| Cobalt | | 106% | 104% | 106% | 104% |
| Lead | | 111% | 109% | 108% | 102% |
| Manganese | | 83% | 104% | 106% | 102% |
| Nickel | | 75% | 104% | 107% | 104% |
| Selenium | | 107% | 98% | 103% | 100% |

SAMPLE CUSTODY

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17131

| | | | |
|----------------|-------------------|--------------|----------|
| Project Number | 3648 | Location | Sack |
| Client | Big Rivers Energy | Date | 8/4/2011 |
| Plant | Henderson Unit 2 | Completed By | BC |

The following samples consist of a front half 0.1N HNO₃ rinse, a quartz filter and the impinger catch and DI rinse.

Please use the same Reagent blanks for these runs as the reagent blanks found in Henderson Unit 1 Sack COC.

| ID No. | Run No. | Date | Sample Description | Metallic HAPs | | Analysis Requested | | Number of Containers | | Notes |
|--------------|---------|------|-----------------------------------|---------------|--|--------------------|--|----------------------|--|-------|
| | | | | | | | | | | |
| 29-R1-HNO | 1 | | FH Rinse of 0.1N HNO ₃ | X | | | | 1 | | |
| 29-R2-HNO | 2 | | FH Rinse of 0.1N HNO ₃ | X | | | | 1 | | |
| 29-R3-HNO | 3 | | FH Rinse of 0.1N HNO ₃ | X | | | | 1 | | |
| 29-R1-FIL | 1 | | Quartz Filter | | | | | 1 | | |
| 29-R2-FIL | 2 | | Quartz Filter | | | | | 1 | | |
| 29-R3-FIL | 3 | | | X | | | | 1 | | |
| 29-R1-5%/10% | 1 | | Imp catches and rinses | | | | | 1 | | |
| 29-R2-5%/10% | 2 | | Imp catches and rinses | | | | | 1 | | |
| 29-R3-5%/10% | 3 | | Imp catches and rinses | X | | | | 1 | | |

Samples received in good condition. No empty containers.

| | |
|---|---|
| Relinquished By (signature) (printed) <i>David DeVries</i> Date/Time 8-4-11 13:30 | Relinquished By (signature) (printed) <i>David DeVries</i> Date/Time 8-5-11 15:57 |
| Accepted By (signature) (printed) <i>David DeVries</i> Date/Time 8-4-11 13:30 | Accepted By (signature) (printed) <i>Lisa Britton</i> Date/Time 8-5-11 15:57 |



Airtech Environmental Services Inc.
801A County Club Drive
Bensenville, IL 60105
Phone: (630) 680-4740, Fax: (630) 680-4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17131

| Project Number | 3648 | Location | ESP Outlet | Analysis Requested | Page | 1 | of | 1 |
|--|---|----------|-----------------------------------|-----------------------------|----------------------|-------|----|---|
| Client | Big Rivers Energy Henderson Unit 2 | Date | 8/4/2011 | Completed By | RC | | | |
| Plant | The following samples consist of a front half 0.1N HNO ₃ rinse, a quartz filter and the impinger catch and DI rinse. | | | | | | | |
| Please use the same Reagent blanks for these runs as the reagent blanks found in Henderson Unit 1 Stack COC. | | | | | | | | |
| ID No. | Run No. | Date | Sample Description | Metallc HAPs | Number of Containers | Notes | | |
| 29-R1-HNO | 1 | | FH Rinse of 0.1N HNO ₃ | x | 1 | | | |
| 29-R2-HNO | 2 | | FH Rinse of 0.1N HNO ₃ | x | 1 | | | |
| 29-R3-HNO | 3 | | FH Rinse of 0.1N HNO ₃ | x | 1 | | | |
| 29-R1-FIL | 1 | | Quartz Filter | x | 1 | | | |
| 29-R2-FIL | 2 | | Quartz Filter | x | 1 | | | |
| 29-R3-FIL | 3 | | | x | 1 | | | |
| 29-R1-5%/10% | 1 | | Imp catches and rinses | x | 1 | | | |
| 29-R2-5%/10% | 2 | | Imp catches and rinses | x | 1 | | | |
| 29-R3-5%/10% | 3 | | Imp catches and rinses | x | 1 | | | |
| Relinquished By (signature) | | | | Relinquished By (signature) | Carrier | | | |
| Date/Time | | | | Date/Time | Laboratory | | | |
| Accepted By (signature) | | | | Accepted By (signature) | Contact | | | |
| Date/Time | | | | Date/Time | Address | | | |
| Accepted By (signature) | | | | Accepted By (signature) | Phone | | | |
| Date/Time | | | | Date/Time | Fax | | | |
| Date/Time | | | | Date/Time | Date/Time | | | |



Airtech Environmental Services Inc.
801A Country Club Drive
Bensenville, IL 60108
Phone: (630) 890-4740, Fax: (630) 890-4745

ANALYTICAL DATA

Analytical Calculations

Metals-

$$\text{Element Results } (\mu\text{g}) = \text{ICP Results } (\mu\text{g/L}) * \text{Dilution} * \text{Final Volume (L)}$$

Where-

ICP Results= Raw sample concentration (ppb)--*ICP-Data Sheet*

Dilution= $\frac{\text{Diluted Volume}}{\text{Aliquot}}$ --*ICP-MS Run Sheet*

Final Volume= FH=Final Volume (FV)--*Sample Submission*

BH= $\frac{\text{Received Volume (BV)} * \text{Final Volume (FV)}}{\text{Aliquot (Used)}}$ --*Sample Submission*

Combined Results= FH+BH

Analytical Calculations

Spike Recovery-

$$\text{Spike (\%)} = \frac{(\text{Spiked Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Spike Amount } (\mu\text{g/L})} \times 100$$

Where-

Spike Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Sample Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Spike Amount--*ICP-MS Spike Table*

Duplicate Analysis RPD-

$$\text{RPD (\%)} = \frac{(\text{Duplicate Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Average } (\mu\text{g/L})} \times 100$$

Where-

Sample Result and Duplicate Results=Raw sample concentration (ppb)--*ICP-Data Sheet*

$$\text{Average} = \frac{(\text{Duplicate} + \text{Sample Results})}{2}$$

FH / BH Separate Analysis

Analysis Due Date 08.15.11
QA/QC/Report Due Date 08.17.11

| | |
|------------|--------------------------------------|
| Client | Airtech Environmental Services, Inc. |
| Project No | 3648 |
| Project ID | Big Rivers Energy - Henderson Unit 2 |

| | |
|----------|----------|
| Date Rec | 08.05.11 |
| Time Rec | 1557 |
| Rec by | LLB |

| | | | |
|-----------------------------|------------------|----------------|--------------------|
| HNO ₃ Lot: 50322 | HF Lot: 5110096 | HCl Lot: 51035 | Ref. Method: 29 |
| Volume Marked Y/N | Volume Loss Y/N? | | |

| Sample Identification | | | |
|-----------------------|------------------------|---|-----------------------------|
| 1 | Stack-M29-R1 | 4 | ESP Outlet-M29-R1 |
| 2 | Stack-M29-R2 | 5 | ESP Outlet-M29-R2 |
| | Stack-M29-R2 Duplicate | | ESP Outlet-M29-R2 Duplicate |
| 3 | Stack-M29-R3 | 6 | ESP Outlet-M29-R3 |
| | Stack-M29-R3 Spike | | ESP Outlet-M29-R3 Spike |
| 7 | Reagent Blank | | |

| | |
|--------------------|--|
| Analyses Requested | Samples 1-7 <input checked="" type="checkbox"/> As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se |
|--------------------|--|

| Runs / FB | Fil / Ace (FH) | | HNO ₃ (FH) | | 5% HNO ₃ /10% H ₂ O ₂ (BH) | | HNO ₃ (A) | | KMnO ₄ (B) | | HCl © | | |
|-----------|----------------|-------|-----------------------|-------|---|------|----------------------|-------|-----------------------|-------|---------|-------|-------|
| | pH <2.0 | Y/N | pH <2.0 | Y/N | pH <2.0 | Y/N | pH <2.0 | Y/N | pH <2.0 | Y/N | pH <2.0 | Y/N | |
| Lab ID | Fil ID | BV ml | BV ml | FV ml | BV ml | Used | FV ml | BV ml | FV ml | BV ml | FV ml | BV ml | FV ml |
| 1 | | | 90 | 100 | 560 | 280 | 50 | | | | | | |
| 2.D | | | 110 | | 620 | 310 | | | | | | | |
| 3.S | | | 85 | | 570 | 285 | | | | | | | |
| 4 | | | 150 | | 620 | 310 | | | | | | | |
| 5.D | | | 150 | | 540 | 270 | | | | | | | |
| 6.S | | | 115 | | 390 | 195 | | | | | | | |

| M-29 Reagent Blank | | | | | |
|--------------------|---|--------|--------|----------|--|
| Lab ID | Fraction | BV, ml | FV, ml | Comments | |
| 7 | C-7 FH Acetone Blank | | | | |
| | C-8A FH 0.1N HNO ₃ | 250 | 100 | used 100 | |
| | C-8A A 0.1N HNO ₃ | | | | |
| | C-8B B DI H ₂ O | | | | |
| | C-9 BH 5% HNO ₃ /10% H ₂ O ₂ | 240 | 50 | used 120 | |
| | C-10 B 4% KMnO ₄ /10% H ₂ SO ₄ | | | | |
| | C-11 C 8N HCl DI H ₂ O | | | | |
| | C-12-1 FH Filter | | | | |

Lab Communications

- LAB#s spiked FH w/ 250 µL of 25 ppm standard A, B (1st to 02/4/11 - A, B); PH 100 µL

- 4-6 FH samples were very dirty (especially for outlets)

Did not receive RB Filter. Per Jim via phone 08.05.11, he will ship on 08.08.11---LLB Dec 8-8-11 re 1149 via fax DDS

NOTE--Run RB from job #17130

Fractions Received: C1, C3, C4--RB C12, C8a, C9--LLB 08.05.11

SS Page 1 of 1
8/5/2011 4:34:39 PM
SS By ZPB
Labeled By/Date pmh 8/5/11

FH Prep By/Date pmh 8/5/11 A Prep By/Date _____
BH Prep By/Date pmh 8/5/11 B Prep By/Date _____
BH/FH Prep By/Date pmh 8/5/11 C Prep By/Date _____
PM Prep By/Date _____ ID Verification By / Date LLB 8.5.11

Sample/Batch Report

Daphne
8/11/11

User Name: icp
 Computer Name: ICP-MS
 Sample File: C:\elandata_icp\Samplex.sam
 Report Date/Time: Thursday, August 11, 2011 09:39:20

| A/S Loc. | Batch ID | Sample ID | Description | Sample Type | Init. Quant. | Prep. Vol. | Aliquot Vol. | Diluted Vol. | Solids Ratio |
|----------|----------|-----------|-------------|-----------------|--------------|------------|--------------|--------------|--------------|
| | 5 | QC STD 2 | Airtech | Sample | | | | | |
| 201 | x5 | 17130-3fh | Airtech | Sample | | | | | |
| 202 | x5s | 17130-3fh | Airtech | Spike - 1 of 2 | | | | | |
| 203 | x5 | 17130-6fh | Airtech | Sample | | | | | |
| 204 | x5s | 17130-6fh | Airtech | Spike - 1 of 4 | | | | | |
| 205 | x10 | 17130-6fh | Airtech | Sample | | | | | |
| 206 | x10s | 17130-6fh | Airtech | Spike - 1 of 6 | | | | | |
| 207 | x2 | 17130-3bh | Airtech | Sample | | | | | |
| 208 | x2s | 17130-3bh | Airtech | Spike - 1 of 8 | | | | | |
| 209 | x5 | 17130-4bh | Airtech | Sample | | | | | |
| 210 | x10 | 17130-5bh | Airtech | Sample | | | | | |
| 211 | x10d | 17130-5bh | Airtech | Duplicate of 11 | | | | | |
| 212 | x5 | 17130-6bh | Airtech | Sample | | | | | |
| 213 | x5s | 17130-6bh | Airtech | Spike - 1 of 13 | | | | | |
| 214 | x5 | 17131-1fh | Airtech | Sample | | | | | |
| 215 | | 17131-2fh | Airtech | Sample | | | | | |
| 216 | d | 17131-2fh | Airtech | Duplicate of 16 | | | | | |
| 217 | x2 | 17131-3fh | Airtech | Sample | | | | | |
| 218 | x2s | 17131-3fh | Airtech | Spike - 1 of 18 | | | | | |
| 219 | | 17131-5fh | Airtech | Sample | | | | | |
| 220 | d | 17131-5fh | Airtech | Duplicate of 20 | | | | | |
| 221 | x2 | 17131-6fh | Airtech | Sample | | | | | |
| 222 | x2s | 17131-6fh | Airtech | Spike - 1 of 22 | | | | | |
| 223 | x2 | 17131-3bh | Airtech | Sample | | | | | |
| 224 | x2s | 17131-3bh | Airtech | Spike - 1 of 24 | | | | | |
| 225 | x10 | 17131-4bh | Airtech | Sample | | | | | |
| 226 | x10 | 17131-5bh | Airtech | Sample | | | | | |
| 227 | x10d | 17131-5bh | Airtech | Duplicate of 27 | | | | | |
| 228 | x2 | 17131-6bh | Airtech | Sample | | | | | |
| 229 | x2s | 17131-6bh | Airtech | Spike - 1 of 29 | | | | | |
| 230 | x5 | 17131-6bh | Airtech | Sample | | | | | |
| 231 | x5s | 17131-6bh | Airtech | Spike - 1 of 31 | | | | | |
| 232 | x10 | 17132-2fh | Airtech | Sample | | | | | |
| 233 | x10d | 17132-2fh | Airtech | Duplicate of 33 | | | | | |
| 234 | x2 | 17132-3fh | Airtech | Sample | | | | | |
| 235 | x2s | 17132-3fh | Airtech | Spike - 1 of 35 | | | | | |
| 236 | | 17132-2bh | Airtech | Sample | | | | | |
| 237 | d | 17132-2bh | Airtech | Duplicate of 37 | | | | | |
| 238 | x2 | 17132-3bh | Airtech | Sample | | | | | |
| 239 | x2s | 17132-3bh | Airtech | Spike - 1 of 39 | | | | | |
| 240 | x10 | 17133-1FH | Airtech | Sample | | | | | |
| 241 | x5 | 17133-2FH | Airtech | Sample | | | | | |
| 242 | x5d | 17133-2FH | Airtech | Duplicate of 42 | | | | | |
| 243 | x5 | 17133-3FH | Airtech | Sample | | | | | |
| 244 | x5s | 17133-3FH | Airtech | Spike - 1 of 44 | | | | | |
| 245 | x2 | 17133-3BH | Airtech | Sample | | | | | |
| 246 | x2s | 17133-3BH | Airtech | Spike - 1 of 46 | | | | | |
| 247 | x10 | 17130-6bh | Airtech | Sample | | | | | |
| 248 | x10s | 17130-6bh | Airtech | Spike - 1 of 48 | | | | | |

| | | | | |
|-----|------|-----------|---------|-----------------|
| 249 | x5 | 17131-2fh | Airtech | Sample |
| 250 | x5d | 17131-2fh | Airtech | Duplicate of 50 |
| 251 | x10 | 17131-5fh | Airtech | Sample |
| 252 | x10d | 17131-5fh | Airtech | Duplicate of 52 |
| 253 | x5 | 17131-6fh | Airtech | Sample |
| 254 | x5s | 17131-6fh | Airtech | Spike - 1 of 54 |
| 255 | x10 | 17131-6bh | Airtech | Sample |
| 256 | x10s | 17131-6bh | Airtech | Spike - 1 of 56 |
| 257 | x5 | 17133-3FH | Airtech | Sample |
| 258 | x5s | 17133-3FH | Airtech | Spike - 1 of 58 |
| 259 | x20 | 17130-6bh | Airtech | Sample |
| 260 | x20s | 17130-6bh | Airtech | Spike - 1 of 60 |
| 411 | x20 | 17131-6bh | Airtech | Sample |
| 412 | x20s | 17131-6bh | Airtech | Spike - 1 of 62 |

Dataset Report

User Name: icp
Computer Name: ICP-MS
Dataset File Path: C:\elandata_icp\DataSet\081011-2\
Report Date/Time: Thursday, August 11, 2011 09:39:16

Opel
8/11/11

Autosampler Position: 3

The Dataset

| Time | Sample ID | Batch ID | Read Type | Description | Init. Quant | Prep. Vol. | Aliquot. Vol. | Diluted V |
|------------------------|------------|----------|-----------------|-------------|-------------|------------|---------------|-----------|
| 13:47:40 Wed 10-Aug-11 | Blank | | Blank | | | | | |
| 13:49:49 Wed 10-Aug-11 | Standard 1 | | Standard #1 | | | | | |
| 13:51:59 Wed 10-Aug-11 | Standard 2 | | Standard #2 | | | | | |
| 13:54:08 Wed 10-Aug-11 | Standard 3 | | Standard #3 | | | | | |
| 13:56:18 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 13:58:27 Wed 10-Aug-11 | QC Std 2 | | QC Std #2 | | | | | |
| 14:00:37 Wed 10-Aug-11 | QC Std 3 | | QC Std #3 | | | | | |
| 14:02:47 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 14:04:57 Wed 10-Aug-11 | QC Std 5 | | QC Std #5 | | | | | |
| 14:07:07 Wed 10-Aug-11 | QC Std 7 | | QC Std #7 | | | | | |
| 14:09:16 Wed 10-Aug-11 | QC Std 8 | | QC Std #8 | | | | | |
| 14:11:27 Wed 10-Aug-11 | QC STD 2 | | Sample | Airtech | | | | |
| 14:13:38 Wed 10-Aug-11 | 17130-3fh | x5 | Sample | Airtech | | | | |
| 14:15:48 Wed 10-Aug-11 | 17130-3fh | x5s | Spike - 1 of 13 | Airtech | | | | |
| 14:17:57 Wed 10-Aug-11 | 17130-6fh | x5 | Sample | Airtech | | | | |
| 14:20:06 Wed 10-Aug-11 | 17130-6fh | x5s | Spike - 1 of 15 | Airtech | | | | |
| 14:22:15 Wed 10-Aug-11 | 17130-6fh | x10 | Sample | Airtech | | | | |
| 14:24:25 Wed 10-Aug-11 | 17130-6fh | x10s | Spike - 1 of 17 | Airtech | | | | |
| 14:26:34 Wed 10-Aug-11 | 17130-3bh | x2 | Sample | Airtech | | | | |
| 14:28:43 Wed 10-Aug-11 | 17130-3bh | x2s | Spike - 1 of 19 | Airtech | | | | |
| 14:30:53 Wed 10-Aug-11 | 17130-4bh | x5 | Sample | Airtech | | | | |
| 14:33:05 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 14:35:14 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 14:37:26 Wed 10-Aug-11 | 17130-5bh | x10 | Sample | Airtech | | | | |
| 14:39:36 Wed 10-Aug-11 | 17130-5bh | x10d | Duplicate of 24 | Airtech | | | | |
| 14:41:45 Wed 10-Aug-11 | 17130-6bh | x5 | Sample | Airtech | | | | |
| 14:43:54 Wed 10-Aug-11 | 17130-6bh | x5s | Spike - 1 of 26 | Airtech | | | | |
| 14:46:03 Wed 10-Aug-11 | 17131-1fh | x5 | Sample | Airtech | | | | |
| 14:48:13 Wed 10-Aug-11 | 17131-2fh | | Sample | Airtech | | | | |
| 14:50:22 Wed 10-Aug-11 | 17131-2fh | d | Duplicate of 29 | Airtech | | | | |
| 14:52:31 Wed 10-Aug-11 | 17131-3fh | x2 | Sample | Airtech | | | | |
| 14:54:41 Wed 10-Aug-11 | 17131-3fh | x2s | Spike - 1 of 31 | Airtech | | | | |
| 14:56:50 Wed 10-Aug-11 | 17131-5fh | | Sample | Airtech | | | | |
| 14:59:00 Wed 10-Aug-11 | 17131-5fh | d | Duplicate of 33 | Airtech | | | | |
| 15:01:12 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 15:03:21 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 15:05:33 Wed 10-Aug-11 | 17131-6fh | x2 | Sample | Airtech | | | | |
| 15:07:42 Wed 10-Aug-11 | 17131-6fh | x2s | Spike - 1 of 37 | Airtech | | | | |
| 15:09:52 Wed 10-Aug-11 | 17131-3bh | x2 | Sample | Airtech | | | | |
| 15:12:01 Wed 10-Aug-11 | 17131-3bh | x2s | Spike - 1 of 39 | Airtech | | | | |
| 15:14:10 Wed 10-Aug-11 | 17131-4bh | x10 | Sample | Airtech | | | | |
| 15:16:20 Wed 10-Aug-11 | 17131-5bh | x10 | Sample | Airtech | | | | |
| 15:18:29 Wed 10-Aug-11 | 17131-5bh | x10d | Duplicate of 42 | Airtech | | | | |

| | | | | |
|------------------------|-----------|------|-----------------|---------|
| 15:20:39 Wed 10-Aug-11 | 17131-6bh | x2 | Sample | Airtech |
| 15:22:48 Wed 10-Aug-11 | 17131-6bh | x2s | Spike - 1 of 44 | Airtech |
| 15:24:57 Wed 10-Aug-11 | 17131-6bh | x5 | Sample | Airtech |
| 15:27:07 Wed 10-Aug-11 | 17131-6bh | x5s | Spike - 1 of 46 | Airtech |
| 15:29:19 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | |
| 15:31:28 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | |
| 15:33:40 Wed 10-Aug-11 | 17132-2fh | x10 | Sample | Airtech |
| 15:35:50 Wed 10-Aug-11 | 17132-2fh | x10d | Duplicate of 50 | Airtech |
| 15:37:59 Wed 10-Aug-11 | 17132-3fh | x2 | Sample | Airtech |
| 15:40:09 Wed 10-Aug-11 | 17132-3fh | x2s | Spike - 1 of 52 | Airtech |
| 15:42:18 Wed 10-Aug-11 | 17132-2bh | | Sample | Airtech |
| 15:44:28 Wed 10-Aug-11 | 17132-2bh | d | Duplicate of 54 | Airtech |
| 15:46:37 Wed 10-Aug-11 | 17132-3bh | x2 | Sample | Airtech |
| 15:48:46 Wed 10-Aug-11 | 17132-3bh | x2s | Spike - 1 of 56 | Airtech |
| 15:50:56 Wed 10-Aug-11 | 17133-1FH | x10 | Sample | Airtech |
| 15:53:05 Wed 10-Aug-11 | 17133-2FH | x5 | Sample | Airtech |
| 15:55:15 Wed 10-Aug-11 | 17133-2FH | x5d | Duplicate of 59 | Airtech |
| 15:57:27 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | |
| 15:59:36 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | |
| 16:01:48 Wed 10-Aug-11 | 17133-3FH | x5 | Sample | Airtech |
| 16:03:58 Wed 10-Aug-11 | 17133-3FH | x5s | Spike - 1 of 63 | Airtech |
| 16:06:07 Wed 10-Aug-11 | 17133-3BH | x2 | Sample | Airtech |
| 16:08:17 Wed 10-Aug-11 | 17133-3BH | x2s | Spike - 1 of 65 | Airtech |
| 16:10:29 Wed 10-Aug-11 | QC Std 1 | | QC Std #1 | |
| 16:12:39 Wed 10-Aug-11 | QC Std 4 | | QC Std #4 | |
| 08:51:03 Thu 11-Aug-11 | 17130-6bh | x10 | Sample | Airtech |
| 08:53:12 Thu 11-Aug-11 | 17130-6bh | x10s | Spike - 1 of 69 | Airtech |
| 08:55:21 Thu 11-Aug-11 | 17131-2fh | x5 | Sample | Airtech |
| 08:57:31 Thu 11-Aug-11 | 17131-2fh | x5d | Duplicate of 71 | Airtech |
| 08:59:40 Thu 11-Aug-11 | 17131-5fh | x10 | Sample | Airtech |
| 09:01:49 Thu 11-Aug-11 | 17131-5fh | x10d | Duplicate of 73 | Airtech |
| 09:03:59 Thu 11-Aug-11 | 17131-6fh | x5 | Sample | Airtech |
| 09:06:08 Thu 11-Aug-11 | 17131-6fh | x5s | Spike - 1 of 75 | Airtech |
| 09:08:17 Thu 11-Aug-11 | 17131-6bh | x10 | Sample | Airtech |
| 09:10:27 Thu 11-Aug-11 | 17131-6bh | x10s | Spike - 1 of 77 | Airtech |
| 09:12:39 Thu 11-Aug-11 | QC Std 1 | | QC Std #1 | |
| 09:14:48 Thu 11-Aug-11 | QC Std 4 | | QC Std #4 | |
| 09:17:01 Thu 11-Aug-11 | 17133-3FH | x5 | Sample | Airtech |
| 09:19:10 Thu 11-Aug-11 | 17133-3FH | x5s | Spike - 1 of 81 | Airtech |
| 09:21:23 Thu 11-Aug-11 | QC Std 1 | | QC Std #1 | |
| 09:23:32 Thu 11-Aug-11 | QC Std 4 | | QC Std #4 | |
| 09:26:46 Thu 11-Aug-11 | 17130-6bh | x20 | Sample | Airtech |
| 09:28:56 Thu 11-Aug-11 | 17130-6bh | x20s | Spike - 1 of 85 | Airtech |
| 09:31:08 Thu 11-Aug-11 | 17131-6bh | x20 | Sample | Airtech |
| 09:33:17 Thu 11-Aug-11 | 17131-6bh | x20s | Spike - 1 of 87 | Airtech |
| 09:35:29 Thu 11-Aug-11 | QC Std 1 | | QC Std #1 | |
| 09:37:38 Thu 11-Aug-11 | QC Std 4 | | QC Std #4 | |

3 samples are extremely high in Sulfates causing enhanced spike recoveries for As + Se.

elementOne
Analyst:--dbw--

ICP-MS RUN SHEET
8/11/2011

Job Number:

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|---------|-----------------|------------|---------------|
| 5 | | QC STD 2 | Airtech | Sample | | |
| 201 | x5 | 17130-3fh | Airtech | Sample | | 100 |
| 202 | x5s | 17130-3fh | Airtech | Spike - 1 of 2 | | 100 |
| 203 | x5 | 17130-6fh | Airtech | Sample | | 100 |
| 204 | x5s | 17130-6fh | Airtech | Spike - 1 of 4 | | 100 |
| 205 | x10 | 17130-6fh | Airtech | Sample | | 100 |
| 206 | x10s | 17130-6fh | Airtech | Spike - 1 of 6 | | 100 |
| 207 | x2 | 17130-3bh | Airtech | Sample | | 50x2 |
| 208 | x2s | 17130-3bh | Airtech | Spike - 1 of 8 | | 50x2 |
| 209 | x5 | 17130-4bh | Airtech | Sample | | 50x2 |
| 210 | x10 | 17130-5bh | Airtech | Sample | | 50x2 |
| 211 | x10d | 17130-5bh | Airtech | Duplicate of 11 | | 50x2 |
| 212 | x5 | 17130-6bh | Airtech | Sample | | 50x2 |
| 213 | x5s | 17130-6bh | Airtech | Spike - 1 of 13 | | 50x2 |
| 214 | x5 | 17131-1fh | Airtech | Sample | | 100 |
| 215 | | 17131-2fh | Airtech | Sample | | 100 |
| 216 | d | 17131-2fh | Airtech | Duplicate of 16 | | 100 |
| 217 | x2 | 17131-3fh | Airtech | Sample | | 100 |
| 218 | x2s | 17131-3fh | Airtech | Spike - 1 of 18 | | 100 |
| 219 | | 17131-5fh | Airtech | Sample | | 100 |
| 220 | d | 17131-5fh | Airtech | Duplicate of 20 | | 100 |
| 221 | x2 | 17131-6fh | Airtech | Sample | | 100 |
| 222 | x2s | 17131-6fh | Airtech | Spike - 1 of 22 | | 100 |
| 223 | x2 | 17131-3bh | Airtech | Sample | | 50x2 |
| 224 | x2s | 17131-3bh | Airtech | Spike - 1 of 24 | | 50x2 |
| 225 | x10 | 17131-4bh | Airtech | Sample | | 50x2 |
| 226 | x10 | 17131-5bh | Airtech | Sample | | 50x2 |
| 227 | x10d | 17131-5bh | Airtech | Duplicate of 27 | | 50x2 |
| 228 | x2 | 17131-6bh | Airtech | Sample | | 50x2 |
| 229 | x2s | 17131-6bh | Airtech | Spike - 1 of 29 | | 50x2 |
| 230 | x5 | 17131-6bh | Airtech | Sample | | 50x2 |
| 231 | x5s | 17131-6bh | Airtech | Spike - 1 of 31 | | 50x2 |
| 232 | x10 | 17132-2fh | Airtech | Sample | | 100 |
| 233 | x10d | 17132-2fh | Airtech | Duplicate of 33 | | 100 |
| 234 | x2 | 17132-3fh | Airtech | Sample | | 100 |
| 235 | x2s | 17132-3fh | Airtech | Spike - 1 of 35 | | 100 |
| 236 | | 17132-2bh | Airtech | Sample | | 50x2 |
| 237 | d | 17132-2bh | Airtech | Duplicate of 37 | | 50x2 |
| 238 | x2 | 17132-3bh | Airtech | Sample | | 50x2 |
| 239 | x2s | 17132-3bh | Airtech | Spike - 1 of 39 | | 50x2 |
| 240 | x10 | 17133-1FH | Airtech | Sample | | 100 |
| 241 | x5 | 17133-2FH | Airtech | Sample | | 100 |
| 242 | x5d | 17133-2FH | Airtech | Duplicate of 42 | | 100 |
| 243 | x5 | 17133-3FH | Airtech | Sample | | 100 |
| 244 | x5s | 17133-3FH | Airtech | Spike - 1 of 44 | | 100 |
| 245 | x2 | 17133-3BH | Airtech | Sample | | 50x2 |
| 246 | x2s | 17133-3BH | Airtech | Spike - 1 of 46 | | 50x2 |
| 247 | x10 | 17130-6bh | Airtech | Sample | | 50x2 |
| 248 | x10s | 17130-6bh | Airtech | Spike - 1 of 48 | | 50x2 |
| 249 | x5 | 17131-2fh | Airtech | Sample | | 100 |
| 250 | x5d | 17131-2fh | Airtech | Duplicate of 50 | | 100 |
| 251 | x10 | 17131-5fh | Airtech | Sample | | 100 |
| 252 | x10d | 17131-5fh | Airtech | Duplicate of 52 | | 100 |

elementOne

elementOne
Analyst:--dbw--

ICP-MS RUN SHEET
8/11/2011

Job Number:

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|---------|-----------------|------------|---------------|
| 253 | x5 | 17131-6fh | Airtech | Sample | | 100 |
| 254 | x5s | 17131-6fh | Airtech | Spike - 1 of 54 | | 100 |
| 255 | x10 | 17131-6bh | Airtech | Sample | | 50x2 |
| 256 | x10s | 17131-6bh | Airtech | Spike - 1 of 56 | | 50x2 |
| 257 | x5 | 17133-3FH | Airtech | Sample | | 100 |
| 258 | x5s | 17133-3FH | Airtech | Spike - 1 of 58 | | 100 |
| 259 | x20 | 17130-6bh | Airtech | Sample | | 50x2 |
| 260 | x20s | 17130-6bh | Airtech | Spike - 1 of 60 | | 50x2 |
| 411 | x20 | 17131-6bh | Airtech | Sample | | 50x2 |
| 412 | x20s | 17131-6bh | Airtech | Spike - 1 of 62 | | 50x2 |

| | | | | |
|---|---|-------------------------------|---------------|-------------------|
| Spikes are post at 0.02mL of 25ppm spiking solutions lot 021410-ABCD & F in a final volume of 10mL. | | | | |
| Submitted for QC by: | Date/Time: | | QC Review By: | Date/Time: |
| dbw | 8/11/11 9:44 | | DBW | 8/19/11 1340 |
| Re-Test Required: | No: <input checked="" type="checkbox"/> | Yes: <input type="checkbox"/> | Comments: | |
| Resubmitted for QC by: | Date/Time: | | QC Review: | By: Date/Time: |

Sample/Batch Report

User Name: icp
 Computer Name: ICP-MS
 Sample File: C:\elandata_icp\Sample\18.sam
 Report Date/Time: Wednesday, August 10, 2011 09:03:41

| A/S Loc. | Batch ID | Sample ID | Description | Sample Type | Init. Quant. | Prep. Vol. | Aliquot Vol. | Diluted Vol. | Solids Ratio |
|----------|----------|-----------|-------------|-----------------|--------------|------------|--------------|--------------|--------------|
| | 5 | QC STD 2 | | Sample | | | | | |
| 203 | | 17129-1 | | Sample | | | | | |
| 204 | | 17129-2 | | Sample | | | | | |
| 205 | d | 17129-2 | | Duplicate of 3 | | | | | |
| 206 | | 17129-3 | | Sample | | | | | |
| 207 | s | 17129-3 | | Spike - 1 of 5 | | | | | |
| 208 | | 17129-4 | | Sample | | | | | |
| 209 | | 17129-5 | | Sample | | | | | |
| 210 | d | 17129-5 | | Duplicate of 8 | | | | | |
| 211 | | 17129-6 | | Sample | | | | | |
| 212 | s | 17129-6 | | Spike - 1 of 10 | | | | | |
| 213 | | 17129-7 | | Sample | | | | | |
| 401 | | QC Std 1 | | Sample | | | | | |
| 402 | | QC Std 4 | | Sample | | | | | |
| 5 | | QC STD 2 | Airtech | Sample | | | | | |
| 216 | | 17130-1fh | Airtech | Sample | | | | | |
| 217 | | 17130-2fh | Airtech | Sample | | | | | |
| 218 | d | 17130-2fh | Airtech | Duplicate of 17 | | | | | |
| 219 | | 17130-3fh | Airtech | Sample | | | | | |
| 220 | s | 17130-3fh | Airtech | Spike - 1 of 19 | | | | | |
| 221 | | 17130-4fh | Airtech | Sample | | | | | |
| 222 | | 17130-5fh | Airtech | Sample | | | | | |
| 223 | d | 17130-5fh | Airtech | Duplicate of 22 | | | | | |
| 224 | | 17130-6fh | Airtech | Sample | | | | | |
| 225 | s | 17130-6fh | Airtech | Spike - 1 of 24 | | | | | |
| 226 | | 17130-7fh | Airtech | Sample | | | | | |
| 227 | x50 | 17130-1fh | Airtech | Sample | | | | | |
| 228 | x50 | 17130-2fh | Airtech | Sample | | | | | |
| 229 | x50d | 17130-2fh | Airtech | Duplicate of 28 | | | | | |
| 230 | x50 | 17130-3fh | Airtech | Sample | | | | | |
| 231 | x50s | 17130-3fh | Airtech | Spike - 1 of 30 | | | | | |
| 232 | x50 | 17130-4fh | Airtech | Sample | | | | | |
| 233 | x50 | 17130-5fh | Airtech | Sample | | | | | |
| 234 | x50d | 17130-5fh | Airtech | Duplicate of 33 | | | | | |
| 235 | x50 | 17130-6fh | Airtech | Sample | | | | | |
| 236 | x50s | 17130-6fh | Airtech | Spike - 1 of 35 | | | | | |
| 237 | | LRB | Airtech | Sample | | | | | |
| 238 | s | LRB | Airtech | Spike - 1 of 37 | | | | | |
| 239 | | 17130-1bh | Airtech | Sample | | | | | |
| 240 | | 17130-2bh | Airtech | Sample | | | | | |
| 241 | d | 17130-2bh | Airtech | Duplicate of 40 | | | | | |
| 242 | | 17130-3bh | Airtech | Sample | | | | | |
| 243 | s | 17130-3bh | Airtech | Spike - 1 of 42 | | | | | |
| 244 | | 17130-4bh | Airtech | Sample | | | | | |
| 245 | | 17130-5bh | Airtech | Sample | | | | | |
| 246 | d | 17130-5bh | Airtech | Duplicate of 45 | | | | | |
| 247 | | 17130-6bh | Airtech | Sample | | | | | |
| 248 | s | 17130-6bh | Airtech | Spike - 1 of 47 | | | | | |
| 249 | | 17130-7bh | Airtech | Sample | | | | | |

| | | | |
|----------|-----------|---------|------------------|
| 401 | QC Std 1 | Airtech | Sample |
| 402 | QC Std 4 | Airtech | Sample |
| 5 | QC STD 2 | Airtech | Sample |
| 303 | 17131-1fh | Airtech | Sample |
| 304 | 17131-2fh | Airtech | Sample |
| 305 d | 17131-2fh | Airtech | Duplicate of 54 |
| 306 | 17131-3fh | Airtech | Sample |
| 307 s | 17131-3fh | Airtech | Spike - 1 of 56 |
| 308 | 17131-4fh | Airtech | Sample |
| 309 | 17131-5fh | Airtech | Sample |
| 310 d | 17131-5fh | Airtech | Duplicate of 59 |
| 311 | 17131-6fh | Airtech | Sample |
| 312 s | 17131-6fh | Airtech | Spike - 1 of 61 |
| 313 | 17131-7fh | Airtech | Sample |
| 314 x50 | 17131-1fh | Airtech | Sample |
| 315 x50 | 17131-2fh | Airtech | Sample |
| 316 x50d | 17131-2fh | Airtech | Duplicate of 65 |
| 317 x50 | 17131-3fh | Airtech | Sample |
| 318 x50s | 17131-3fh | Airtech | Spike - 1 of 67 |
| 319 x50 | 17131-4fh | Airtech | Sample |
| 320 x50 | 17131-5fh | Airtech | Sample |
| 321 x50d | 17131-5fh | Airtech | Duplicate of 70 |
| 322 x50 | 17131-6fh | Airtech | Sample |
| 323 x50s | 17131-6fh | Airtech | Spike - 1 of 72 |
| 324 | LRB | Airtech | Sample |
| 325 s | LRB | Airtech | Spike - 1 of 74 |
| 326 | 17131-1bh | Airtech | Sample |
| 327 | 17131-2bh | Airtech | Sample |
| 328 d | 17131-2bh | Airtech | Duplicate of 77 |
| 329 | 17131-3bh | Airtech | Sample |
| 330 s | 17131-3bh | Airtech | Spike - 1 of 79 |
| 331 | 17131-4bh | Airtech | Sample |
| 332 | 17131-5bh | Airtech | Sample |
| 333 d | 17131-5bh | Airtech | Duplicate of 82 |
| 334 | 17131-6bh | Airtech | Sample |
| 335 s | 17131-6bh | Airtech | Spike - 1 of 84 |
| 336 | 17131-7bh | Airtech | Sample |
| 403 | QC Std 1 | Airtech | Sample |
| 404 | QC Std 4 | Airtech | Sample |
| 5 | QC STD 2 | Airtech | Sample |
| 339 | 17132-1fh | Airtech | Sample |
| 340 | 17132-2fh | Airtech | Sample |
| 341 d | 17132-2fh | Airtech | Duplicate of 91 |
| 342 | 17132-3fh | Airtech | Sample |
| 343 s | 17132-3fh | Airtech | Spike - 1 of 93 |
| 344 | 17132-4fh | Airtech | Sample |
| 345 | LRB | Airtech | Sample |
| 346 s | LRB | Airtech | Spike - 1 of 96 |
| 347 | 17132-1bh | Airtech | Sample |
| 348 | 17132-2bh | Airtech | Sample |
| 348 d | 17132-2bh | Airtech | Duplicate of 99 |
| 350 | 17132-3bh | Airtech | Sample |
| 351 s | 17132-3bh | Airtech | Spike - 1 of 101 |
| 352 | 17132-4bh | Airtech | Sample |
| 403 | QC Std 1 | Airtech | Sample |
| 404 | QC Std 4 | Airtech | Sample |
| 5 | QC STD 2 | Airtech | Sample |
| 413 | 17133-1 | Airtech | Sample |
| 414 | 17133-2 | Airtech | Sample |
| 415 d | 17133-2 | Airtech | Duplicate of 108 |

| | | | |
|-----|-----------|---------|------------------|
| 416 | 17133-3 | Airtech | Sample |
| 417 | 17133-3 | Airtech | Spike - 1 of 110 |
| 418 | 17133-4 | Airtech | Sample |
| 345 | LRB | Airtech | Sample |
| 346 | LRB | Airtech | Spike - 1 of 113 |
| 419 | 17133-1 | Airtech | Sample |
| 420 | 17133-2 | Airtech | Sample |
| 421 | 17133-2 | Airtech | Duplicate of 116 |
| 422 | 17133-3 | Airtech | Sample |
| 423 | 17133-3 | Airtech | Spike - 1 of 118 |
| 424 | 17133-4 | Airtech | Sample |
| 237 | LRB | Airtech | Sample |
| 238 | LRB | Airtech | Spike - 1 of 121 |
| 239 | 17130-1bh | Airtech | Sample |
| 240 | 17130-2bh | Airtech | Sample |
| 241 | 17130-2bh | Airtech | Duplicate of 124 |
| 242 | 17130-3bh | Airtech | Sample |
| 243 | 17130-3bh | Airtech | Spike - 1 of 126 |
| 244 | 17130-4bh | Airtech | Sample |
| 245 | 17130-5bh | Airtech | Sample |
| 246 | 17130-5bh | Airtech | Duplicate of 129 |
| 247 | 17130-6bh | Airtech | Sample |
| 248 | 17130-6bh | Airtech | Spike - 1 of 131 |
| 249 | 17130-7bh | Airtech | Sample |

Dataset Report

User Name: icp
Computer Name: ICP-MS
Dataset File Path: C:\elandata_icp\DataSet\080911-1\
Report Date/Time: Wednesday, August 10, 2011 09:03:29

Autosampler Position: 4

The Dataset

| Time | Sample ID | Batch ID | Read Type | Description | Init. Quant | Prep. Vol. | Aliquot. Vol. | Diluted V |
|------------------------|------------|----------|-----------------|-------------|-------------|------------|---------------|-----------|
| 07:44:36 Tue 09-Aug-11 | Blank | | Blank | | | | | |
| 07:46:48 Tue 09-Aug-11 | Standard 1 | | Standard #1 | | | | | |
| 07:48:57 Tue 09-Aug-11 | Standard 2 | | Standard #2 | | | | | |
| 07:51:06 Tue 09-Aug-11 | Standard 3 | | Standard #3 | | | | | |
| 07:53:16 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 07:55:25 Tue 09-Aug-11 | QC Std 2 | | QC Std #2 | | | | | |
| 07:57:35 Tue 09-Aug-11 | QC Std 3 | | QC Std #3 | | | | | |
| 07:59:45 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 08:01:55 Tue 09-Aug-11 | QC Std 5 | | QC Std #5 | | | | | |
| 08:04:05 Tue 09-Aug-11 | QC Std 7 | | QC Std #7 | | | | | |
| 08:06:15 Tue 09-Aug-11 | QC Std 8 | | QC Std #8 | | | | | |
| 08:08:25 Tue 09-Aug-11 | QC Std 9 | | QC Std #9 | | | | | |
| 08:10:35 Tue 09-Aug-11 | QC Std 10 | | QC Std #10 | | | | | |
| 08:12:45 Tue 09-Aug-11 | QC STD 2 | | Sample | Airtech | | | | |
| 08:14:55 Tue 09-Aug-11 | 17131-1fn | | Sample | Airtech | | | | |
| 08:17:04 Tue 09-Aug-11 | 17131-2fn | | Sample | Airtech | | | | |
| 08:19:14 Tue 09-Aug-11 | 17131-2fn | d | Duplicate of 16 | Airtech | | | | |
| 08:21:23 Tue 09-Aug-11 | 17131-3fn | | Sample | Airtech | | | | |
| 08:23:32 Tue 09-Aug-11 | 17131-3fn | s | Spike - 1 of 18 | Airtech | | | | |
| 08:25:41 Tue 09-Aug-11 | 17131-4fn | | Sample | Airtech | | | | |
| 08:27:51 Tue 09-Aug-11 | 17131-5fn | | Sample | Airtech | | | | |
| 08:30:00 Tue 09-Aug-11 | 17131-5fn | d | Duplicate of 21 | Airtech | | | | |
| 08:32:09 Tue 09-Aug-11 | 17131-6fn | | Sample | Airtech | | | | |
| 08:34:19 Tue 09-Aug-11 | 17131-6fn | s | Spike - 1 of 23 | Airtech | | | | |
| 08:36:29 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 08:38:39 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 08:40:49 Tue 09-Aug-11 | 17131-7fn | | Sample | Airtech | | | | |
| 08:42:58 Tue 09-Aug-11 | 17131-1fn | x50 | Sample | Airtech | | | | |
| 08:45:08 Tue 09-Aug-11 | 17131-2fn | x50 | Sample | Airtech | | | | |
| 08:47:17 Tue 09-Aug-11 | 17131-2fn | x50d | Duplicate of 29 | Airtech | | | | |
| 08:49:26 Tue 09-Aug-11 | 17131-3fn | x50 | Sample | Airtech | | | | |
| 08:51:36 Tue 09-Aug-11 | 17131-3fn | x50s | Spike - 1 of 31 | Airtech | | | | |
| 08:53:45 Tue 09-Aug-11 | 17131-4fn | x50 | Sample | Airtech | | | | |
| 08:55:54 Tue 09-Aug-11 | 17131-5fn | x50 | Sample | Airtech | | | | |
| 08:58:04 Tue 09-Aug-11 | 17131-5fn | x50d | Duplicate of 34 | Airtech | | | | |
| 09:00:13 Tue 09-Aug-11 | 17131-6fn | x50 | Sample | Airtech | | | | |
| 09:02:22 Tue 09-Aug-11 | 17131-6fn | x50s | Spike - 1 of 36 | Airtech | | | | |
| 09:04:34 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 09:06:44 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 09:08:55 Tue 09-Aug-11 | LRB | | Sample | Airtech | | | | |
| 09:11:05 Tue 09-Aug-11 | LRB | s | Spike - 1 of 40 | Airtech | | | | |
| 09:13:14 Tue 09-Aug-11 | 17131-1bh | | Sample | Airtech | | | | |
| 09:15:23 Tue 09-Aug-11 | 17131-2bh | | Sample | Airtech | | | | |

| | | | |
|------------------------|------------|---|-------------------------|
| 09:17:33 Tue 09-Aug-11 | 17131-2bh | d | Duplicate of 43 Airtech |
| 09:19:42 Tue 09-Aug-11 | 17131-3bh | | Sample Airtech |
| 09:21:52 Tue 09-Aug-11 | 17131-3bh | s | Spike - 1 of 45 Airtech |
| 09:24:01 Tue 09-Aug-11 | 17131-4bh | | Sample Airtech |
| 09:26:10 Tue 09-Aug-11 | 17131-5bh | | Sample Airtech |
| 09:28:20 Tue 09-Aug-11 | 17131-5bh | d | Duplicate of 48 Airtech |
| 09:30:31 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 09:32:41 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 09:34:53 Tue 09-Aug-11 | 17131-6bh | | Sample Airtech |
| 09:37:02 Tue 09-Aug-11 | 17131-6bh | s | Spike - 1 of 52 Airtech |
| 09:39:11 Tue 09-Aug-11 | 17131-7bh | | Sample Airtech |
| 09:41:23 Tue 09-Aug-11 | QC Std 1 | | Sample Airtech |
| 09:43:32 Tue 09-Aug-11 | QC Std 4 | | Sample Airtech |
| 09:45:44 Tue 09-Aug-11 | Blank | | Blank |
| 09:47:54 Tue 09-Aug-11 | Standard 1 | | Standard #1 |
| 09:50:03 Tue 09-Aug-11 | Standard 2 | | Standard #2 |
| 09:52:12 Tue 09-Aug-11 | Standard 3 | | Standard #3 |
| 09:54:22 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 09:56:31 Tue 09-Aug-11 | QC Std 2 | | QC Std #2 |
| 09:58:41 Tue 09-Aug-11 | QC Std 3 | | QC Std #3 |
| 10:00:51 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 10:03:02 Tue 09-Aug-11 | QC Std 5 | | QC Std #5 |
| 10:05:11 Tue 09-Aug-11 | QC Std 7 | | QC Std #7 |
| 10:07:21 Tue 09-Aug-11 | QC Std 8 | | QC Std #8 |
| 10:09:30 Tue 09-Aug-11 | QC Std 9 | | QC Std #9 |
| 10:11:40 Tue 09-Aug-11 | QC Std 10 | | QC Std #10 |
| 10:13:51 Tue 09-Aug-11 | QC STD 2 | | Sample Airtech |
| 10:16:02 Tue 09-Aug-11 | 17132-1fn | | Sample Airtech |
| 10:18:11 Tue 09-Aug-11 | 17132-2fn | | Sample Airtech |
| 10:20:21 Tue 09-Aug-11 | 17132-2fn | d | Duplicate of 72 Airtech |
| 10:22:30 Tue 09-Aug-11 | 17132-3fn | | Sample Airtech |
| 10:24:40 Tue 09-Aug-11 | 17132-3fn | s | Spike - 1 of 74 Airtech |
| 10:26:51 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 10:29:01 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 10:31:12 Tue 09-Aug-11 | 17132-4fn | | Sample Airtech |
| 10:33:22 Tue 09-Aug-11 | LRB | | Sample Airtech |
| 10:35:31 Tue 09-Aug-11 | LRB | s | Spike - 1 of 79 Airtech |
| 10:37:40 Tue 09-Aug-11 | 17132-1bh | | Sample Airtech |
| 10:39:50 Tue 09-Aug-11 | 17132-2bh | | Sample Airtech |
| 10:42:02 Tue 09-Aug-11 | 17132-2bh | d | Duplicate of 82 Airtech |
| 10:44:12 Tue 09-Aug-11 | 17132-3bh | | Sample Airtech |
| 10:46:21 Tue 09-Aug-11 | 17132-3bh | s | Spike - 1 of 84 Airtech |
| 10:48:31 Tue 09-Aug-11 | 17132-4bh | | Sample Airtech |
| 10:50:42 Tue 09-Aug-11 | QC Std 1 | | Sample Airtech |
| 10:52:54 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 10:55:03 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 10:57:15 Tue 09-Aug-11 | QC Std 4 | | Sample Airtech |
| 10:59:27 Tue 09-Aug-11 | Blank | | Blank |
| 11:01:36 Tue 09-Aug-11 | Standard 1 | | Standard #1 |
| 11:03:46 Tue 09-Aug-11 | Standard 2 | | Standard #2 |
| 11:05:55 Tue 09-Aug-11 | Standard 3 | | Standard #3 |
| 11:08:05 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 11:10:15 Tue 09-Aug-11 | QC Std 2 | | QC Std #2 |
| 11:12:24 Tue 09-Aug-11 | QC Std 3 | | QC Std #3 |
| 11:14:34 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 11:16:45 Tue 09-Aug-11 | QC Std 5 | | QC Std #5 |

> use first curve

> use first curve

| | | | |
|------------------------|------------|-----------|-------------------------|
| 11:18:55 Tue 09-Aug-11 | QC Std 7 | | QC Std #7 |
| 11:21:04 Tue 09-Aug-11 | QC Std 8 | | QC Std #8 |
| 11:23:14 Tue 09-Aug-11 | QC Std 9 | | QC Std #9 |
| 11:25:23 Tue 09-Aug-11 | QC Std 10 | | QC Std #10 |
| 11:27:34 Tue 09-Aug-11 | QC STD 2 | | Sample Airtech |
| 11:29:45 Tue 09-Aug-11 | 17133-1 | <i>FH</i> | Sample Airtech |
| 11:31:55 Tue 09-Aug-11 | 17133-2 | | Sample Airtech |
| 11:34:05 Tue 09-Aug-11 | 17133-2 | <i>d</i> | Duplicate of 10 Airtech |
| 11:36:14 Tue 09-Aug-11 | 17133-3 | | Sample Airtech |
| 16:00:34 Tue 09-Aug-11 | Blank | | Blank |
| 16:02:43 Tue 09-Aug-11 | Standard 1 | | Standard #1 |
| 16:04:53 Tue 09-Aug-11 | Standard 2 | | Standard #2 |
| 16:07:02 Tue 09-Aug-11 | Standard 3 | | Standard #3 |
| 16:09:12 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 16:11:21 Tue 09-Aug-11 | QC Std 2 | | QC Std #2 |
| 16:13:30 Tue 09-Aug-11 | QC Std 3 | | QC Std #3 |
| 16:15:41 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 16:17:51 Tue 09-Aug-11 | QC Std 5 | | QC Std #5 |
| 16:20:01 Tue 09-Aug-11 | QC Std 7 | | QC Std #7 |
| 16:22:10 Tue 09-Aug-11 | QC Std 8 | | QC Std #8 |
| 16:24:20 Tue 09-Aug-11 | QC Std 9 | | QC Std #9 |
| 16:26:29 Tue 09-Aug-11 | QC Std 10 | | QC Std #10 |
| 16:28:40 Tue 09-Aug-11 | QC STD 2 | | Sample Airtech |
| 16:30:52 Tue 09-Aug-11 | 17133-1 | <i>FH</i> | Sample Airtech |
| 16:33:01 Tue 09-Aug-11 | 17133-2 | | Sample Airtech |
| 16:35:10 Tue 09-Aug-11 | 17133-2 | <i>d</i> | Duplicate of 12 Airtech |
| 16:37:19 Tue 09-Aug-11 | 17133-3 | | Sample Airtech |
| 16:39:29 Tue 09-Aug-11 | 17133-3 | <i>s</i> | Spike - 1 of 12 Airtech |
| 16:41:38 Tue 09-Aug-11 | 17133-4 | | Sample Airtech |
| 16:43:49 Tue 09-Aug-11 | LRB | | Sample Airtech |
| 16:45:58 Tue 09-Aug-11 | LRB | <i>s</i> | Spike - 1 of 12 Airtech |
| 16:48:08 Tue 09-Aug-11 | 17133-1 | | Sample Airtech |
| 16:50:20 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 16:52:30 Tue 09-Aug-11 | QC Std 4 | <i>BH</i> | QC Std #4 |
| 16:54:42 Tue 09-Aug-11 | 17133-2 | | Sample Airtech |
| 16:56:51 Tue 09-Aug-11 | 17133-2 | <i>d</i> | Duplicate of 13 Airtech |
| 16:59:00 Tue 09-Aug-11 | 17133-3 | | Sample Airtech |
| 17:01:10 Tue 09-Aug-11 | 17133-3 | <i>s</i> | Spike - 1 of 13 Airtech |
| 17:03:19 Tue 09-Aug-11 | 17133-4 | | Sample Airtech |
| 17:05:29 Tue 09-Aug-11 | LRB | | Sample Airtech |
| 17:07:39 Tue 09-Aug-11 | LRB | <i>s</i> | Spike - 1 of 13 Airtech |
| 17:09:48 Tue 09-Aug-11 | 17130-1bh | | Sample Airtech |
| 17:11:57 Tue 09-Aug-11 | 17130-2bh | | Sample Airtech |
| 17:14:07 Tue 09-Aug-11 | 17130-2bh | <i>d</i> | Duplicate of 14 Airtech |
| 17:16:18 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 17:18:28 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |
| 17:20:40 Tue 09-Aug-11 | 17130-3bh | | Sample Airtech |
| 17:22:49 Tue 09-Aug-11 | 17130-3bh | <i>s</i> | Spike - 1 of 14 Airtech |
| 17:24:59 Tue 09-Aug-11 | 17130-4bh | | Sample Airtech |
| 17:27:08 Tue 09-Aug-11 | 17130-5bh | | Sample Airtech |
| 17:29:17 Tue 09-Aug-11 | 17130-5bh | <i>d</i> | Duplicate of 14 Airtech |
| 17:31:27 Tue 09-Aug-11 | 17130-6bh | | Sample Airtech |
| 17:33:36 Tue 09-Aug-11 | 17130-6bh | <i>s</i> | Spike - 1 of 15 Airtech |
| 17:35:45 Tue 09-Aug-11 | 17130-7bh | | Sample Airtech |
| 17:37:57 Tue 09-Aug-11 | QC Std 1 | | QC Std #1 |
| 17:40:06 Tue 09-Aug-11 | QC Std 4 | | QC Std #4 |

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|---------|------------------|------------|---------------|
| 5 | | QC STD 2 | Airtech | Sample | | |
| 303 | | 17131-1fh | Airtech | Sample | | 100 |
| 304 | | 17131-2fh | Airtech | Sample | | 100 |
| 305 | d | 17131-2fh | Airtech | Duplicate of 54 | | 100 |
| 306 | | 17131-3fh | Airtech | Sample | | 100 |
| 307 | s | 17131-3fh | Airtech | Spike - 1 of 56 | | 100 |
| 308 | | 17131-4fh | Airtech | Sample | | 100 |
| 309 | | 17131-5fh | Airtech | Sample | | 100 |
| 310 | d | 17131-5fh | Airtech | Duplicate of 59 | | 100 |
| 311 | | 17131-6fh | Airtech | Sample | | 100 |
| 312 | s | 17131-6fh | Airtech | Spike - 1 of 61 | | 100 |
| 313 | | 17131-7fh | Airtech | Sample | | 100 |
| 314 | x50 | 17131-1fh | Airtech | Sample | | 100 |
| 315 | x50 | 17131-2fh | Airtech | Sample | | 100 |
| 316 | x50d | 17131-2fh | Airtech | Duplicate of 65 | | 100 |
| 317 | x50 | 17131-3fh | Airtech | Sample | | 100 |
| 318 | x50s | 17131-3fh | Airtech | Spike - 1 of 67 | | 100 |
| 319 | x50 | 17131-4fh | Airtech | Sample | | 100 |
| 320 | x50 | 17131-5fh | Airtech | Sample | | 100 |
| 321 | x50d | 17131-5fh | Airtech | Duplicate of 70 | | 100 |
| 322 | x50 | 17131-6fh | Airtech | Sample | | 100 |
| 323 | x50s | 17131-6fh | Airtech | Spike - 1 of 72 | | 100 |
| 324 | | LRB | Airtech | Sample | | 50 |
| 325 | s | LRB | Airtech | Spike - 1 of 74 | | 50 |
| 326 | | 17131-1bh | Airtech | Sample | | 50x2 |
| 327 | | 17131-2bh | Airtech | Sample | | 50x2 |
| 328 | d | 17131-2bh | Airtech | Duplicate of 77 | | 50x2 |
| 329 | | 17131-3bh | Airtech | Sample | | 50x2 |
| 330 | s | 17131-3bh | Airtech | Spike - 1 of 79 | | 50x2 |
| 331 | | 17131-4bh | Airtech | Sample | | 50x2 |
| 332 | | 17131-5bh | Airtech | Sample | | 50x2 |
| 333 | d | 17131-5bh | Airtech | Duplicate of 82 | | 50x2 |
| 334 | | 17131-6bh | Airtech | Sample | | 50x2 |
| 335 | s | 17131-6bh | Airtech | Spike - 1 of 84 | | 50x2 |
| 336 | | 17131-7bh | Airtech | Sample | | 50x2 |
| 403 | | QC Std 1 | Airtech | Sample | | |
| 404 | | QC Std 4 | Airtech | Sample | | |
| 5 | | QC STD 2 | Airtech | Sample | | |
| 339 | | 17132-1fh | Airtech | Sample | | 100 |
| 340 | | 17132-2fh | Airtech | Sample | | 100 |
| 341 | d | 17132-2fh | Airtech | Duplicate of 91 | | 100 |
| 342 | | 17132-3fh | Airtech | Sample | | 100 |
| 343 | s | 17132-3fh | Airtech | Spike - 1 of 93 | | 100 |
| 344 | | 17132-4fh | Airtech | Sample | | 100 |
| 345 | | LRB | Airtech | Sample | | 50 |
| 346 | s | LRB | Airtech | Spike - 1 of 96 | | 50 |
| 347 | | 17132-1bh | Airtech | Sample | | 50x2 |
| 348 | | 17132-2bh | Airtech | Sample | | 50x2 |
| 348 | d | 17132-2bh | Airtech | Duplicate of 99 | | 50x2 |
| 350 | | 17132-3bh | Airtech | Sample | | 50x2 |
| 351 | s | 17132-3bh | Airtech | Spike - 1 of 101 | | 50x2 |
| 352 | | 17132-4bh | Airtech | Sample | | 50x2 |
| 403 | | QC Std 1 | Airtech | Sample | | |

elementOne
Analyst:--KMS--

ICP-MS RUN SHEET
8/10/2011

Job Number:

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|---------|------------------|------------|---------------|
| 404 | | QC Std 4 | Airtech | Sample | | |
| 5 | | QC STD 2 | Airtech | Sample | | |
| 413 | | 17133-1 | Airtech | Sample | | |
| 414 | | 17133-2 | Airtech | Sample | | 100 |
| 415 | d | 17133-2 | Airtech | Duplicate of 108 | | 100 |
| 416 | | 17133-3 | Airtech | Sample | | 100 |
| 417 | s | 17133-3 | Airtech | Spike - 1 of 110 | | 100 |

Spikes are post at 0.02mL of 25ppm spiking solutions lot 021410-ABCD & F in a final volume of 10mL

| | | | |
|------------------------|---|-------------------------------|-------------------|
| Submitted for QC by: | Date/Time: | QC Review By: | Date/Time: |
| KMS | 8/10/11 9:11 | DBL | 8/19/11 1500 |
| Re-Test Required: | No: <input checked="" type="checkbox"/> | Yes: <input type="checkbox"/> | Comments: |
| Resubmitted for QC by: | Date/Time: | QC Review: | By: Date/Time: |

Dataset Report

User Name: icp
 Computer Name: ICP-MS
 Dataset File Path: C:\elandata_icp\DataSet\082211-1\
 Report Date/Time: Tuesday, August 23, 2011 08:09:13

KMS
8-23-11

Autosampler Position: 3

The Dataset

| Time | Sample ID | Batch ID | Read Type | Description | Init. Quant | Prep. Vol. | Allquot. Vol. | Diluted V |
|------------------------|------------|----------|-----------------|-------------|-------------|------------|---------------|-----------|
| 14:42:48 Mon 22-Aug-11 | Blank | | Blank | | | | | |
| 14:44:57 Mon 22-Aug-11 | Standard 1 | | Standard #1 | | | | | |
| 14:47:06 Mon 22-Aug-11 | Standard 2 | | Standard #2 | | | | | |
| 14:49:16 Mon 22-Aug-11 | Standard 3 | | Standard #3 | | | | | |
| 14:51:28 Mon 22-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 14:53:35 Mon 22-Aug-11 | QC Std 2 | | QC Std #2 | | | | | |
| 14:55:44 Mon 22-Aug-11 | QC Std 3 | | QC Std #3 | | | | | |
| 14:57:55 Mon 22-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 15:00:05 Mon 22-Aug-11 | QC Std 5 | | QC Std #5 | | | | | |
| 15:02:16 Mon 22-Aug-11 | QC Std 2 | | Sample | Air Tech | | | | |
| 15:04:26 Mon 22-Aug-11 | 17131-2 | | Sample | Air Tech | | | | |
| 15:06:35 Mon 22-Aug-11 | 17131-2 | d | Duplicate of 11 | Air Tech | | | | |
| 15:11:35 Mon 22-Aug-11 | 17131-2 | x5 | Sample | Air Tech | | | | |
| 15:13:44 Mon 22-Aug-11 | 17131-2 | x5d | Duplicate of 13 | Air Tech | | | | |
| 15:15:36 Mon 22-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 15:18:05 Mon 22-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 18:32:50 Mon 22-Aug-11 | 17131-4bh | x50 | Sample | Air Tech | | | | |
| 18:34:59 Mon 22-Aug-11 | 17131-5bh | x50 | Sample | Air Tech | | | | |
| 18:37:09 Mon 22-Aug-11 | 17131-6bh | x50d | Duplicate of 16 | Air Tech | | | | |
| 18:39:18 Mon 22-Aug-11 | 17131-6bh | x50 | Sample | Air Tech | | | | |
| 18:41:27 Mon 22-Aug-11 | 17131-6bh | x50s | Spike - 1 of 20 | Air Tech | | | | |
| 18:43:39 Mon 22-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 18:45:48 Mon 22-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 18:50:52 Mon 22-Aug-11 | 17131-4bh | x100 | Sample | Air Tech | | | | |
| 18:53:02 Mon 22-Aug-11 | 17131-5bh | x100 | Sample | Air Tech | | | | |
| 18:55:11 Mon 22-Aug-11 | 17131-5bh | x100d | Duplicate of 25 | Air Tech | | | | |
| 18:57:20 Mon 22-Aug-11 | 17131-6bh | x100 | Sample | Air Tech | | | | |
| 18:59:29 Mon 22-Aug-11 | 17131-6bh | x100s | Spike - 1 of 27 | Air Tech | | | | |
| 19:01:41 Mon 22-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 19:03:50 Mon 22-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |

elementOne
Analyst:--dbw--

ICP-MS RUN SHEET
8/23/2011

Job Number:

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|----------|-----------------|------------|---------------|
| 5 | | QC Std 2 | Air Tech | Sample | | |
| 101 | | 17131-2 | Air Tech | Sample | | |
| 102 | d | 17131-2 | Air Tech | Duplicate of 2 | | |
| 105 | x50 | 17131-4bh | Air Tech | Sample | | |
| 106 | x50 | 17131-6bh | Air Tech | Sample | | |
| 107 | x50d | 17131-5bh | Air Tech | Duplicate of 5 | | |
| 108 | x50 | 17131-8bh | Air Tech | Sample | | |
| 109 | x50s | 17131-8bh | Air Tech | Spike - 1 of 7 | | |
| 110 | x100 | 17131-4bh | Air Tech | Sample | | |
| 111 | x100 | 17131-5bh | Air Tech | Sample | | |
| 112 | x100d | 17131-5bh | Air Tech | Duplicate of 10 | 1.0303 | 200 |
| 113 | x100 | 17131-6bh | Air Tech | Sample | 1.0034 | 200 |
| 114 | x100s | 17131-6bh | Air Tech | Spike - 1 of 12 | 1.0642 | 200 |
| 312 | x500d | 17218-1 | | Duplicate of 13 | 1.0968 | 200 |
| 313 | x500 | 17218-1 | | Sample | 1.0642 | 200 |
| 314 | x500d | 17218-1 | | Duplicate of 15 | 1.0968 | 200 |

KMS
8-23-11

| | | | |
|------------------------|---|-------------------------------|---|
| Submitted for QC by: | Date/Time: | QC Review By: | Date/Time: |
| kms | 8/23/11 8:08 | DSB | 0900 |
| Re-Test Required: | No: <input checked="" type="checkbox"/> | Yes: <input type="checkbox"/> | Comments: |
| Resubmitted for QC by: | Date/Time: | QC Review: | By: Date/Time: |

ILAN Full/Process Session | Quantitative Analysis Method | C:\Program Files\ElementOne\bin\77\bin\Default

File Edit Analysis Options Automation Window Help

Method Sample Dataset Interactive CellView RptOption RptView SmartTime Optimize Devices

QC

| Analyte | Mass (amu) | Spike Table 1 (Conc.) | Spike Table 1 Det. Limit (Conc.) | Spike Table 2 (Conc.) | Spike Table 2 Det. Limit (Conc.) | Spike Table 3 (Conc.) | Spike Table 3 Det. Limit (Conc.) | Spike Table 4 (Conc.) | Spike Table 4 Det. Limit (Conc.) | Spike Table 5 (Conc.) |
|---------|------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|
| 1 | Be | 701.9 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 2 | | 44.0650 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 3 | | 51.9415 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 4 | | 53.9407 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 5 | | 54.9381 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 6 | | 56.9372 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 7 | | 57.9357 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 8 | | 74.9225 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 9 | | 76.9217 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 10 | | 77.9202 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 11 | | 114.916 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 12 | | 115.914 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 13 | | 117.913 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 14 | | 118.911 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 15 | | 119.909 | 50 | 1 | 25 | 1 | 100 | 1 | | |
| 16 | | 120.907 | 50 | 1 | 25 | 1 | 100 | 1 | | |

QC Stds | QC Measurement Frequency | QC Std. Int. Stds | Calibration Stds | Sample Int Stds | Sample | Spike | Dilution | Duplicate | Spike Tables | QC Action Controls | Autosampler

NLM LOG

Wednesday, Aug 10, 2011 09:03 AM

Sample/Batch Report

User Name: icp
 Computer Name: ICP-MS
 Sample File: C:\elandata_icp\Sample\6.sam
 Report Date/Time: Tuesday, August 23, 2011 20:25:33

| A/S Loc. | Batch ID | Sample ID | Description | Sample Type | Init. Quant. | Prep. Vol. | Aliquot Vol. | Diluted Vol. | Solids Ratio |
|----------|----------|-----------|-------------|-----------------|--------------|------------|--------------|--------------|--------------|
| | s | QC Std 2 | - | Sample | | | | | |
| 203 | | 17213-1fh | | Sample | | | | | |
| 204 | | 17213-2fh | | Sample | | | | | |
| 205 | d | 17213-2fh | | Duplicate of 3 | | | | | |
| 208 | | 17213-3fh | | Sample | | | | | |
| 207 | s | 17213-3fh | | Spike - 1 of 5 | | | | | |
| 208 | | 17213-4fh | | Sample | | | | | |
| 209 | | LRB | | Sample | | | | | |
| 210 | a | LRB | | Spike - 1 of 8 | | | | | |
| 211 | | 17213-1bh | | Sample | | | | | |
| 212 | | 17213-2bh | | Sample | | | | | |
| 213 | d | 17213-2bh | | Duplicate of 11 | | | | | |
| 214 | | 17213-3bh | | Sample | | | | | |
| 215 | s | 17213-3bh | | Spike - 1 of 13 | | | | | |
| 216 | | 17213-4bh | | Sample | | | | | |
| 217 | x50 | 17213-1fh | | Sample | | | | | |
| 218 | x50 | 17213-2fh | | Sample | | | | | |
| 219 | x50d | 17213-2fh | | Duplicate of 17 | | | | | |
| 220 | x50 | 17213-3fh | | Sample | | | | | |
| 221 | x50s | 17213-3fh | | Spike - 1 of 19 | | | | | |
| 222 | x2 | 17213-3bh | | Sample | | | | | |
| 223 | x2s | 17213-3bh | | Spike - 1 of 21 | | | | | |
| 225 | x5 | 17131-4 | Air Tech | Sample | | | | | |
| 226 | x5 | 17131-5 | Air Tech | Sample | | | | | |
| 227 | x5d | 17131-5 | Air Tech | Duplicate of 24 | | | | | |
| 228 | x5 | 17131-6 | Air Tech | Sample | | | | | |
| 229 | x5s | 17131-6 | Air Tech | Spike - 1 of 26 | | | | | |
| 230 | x2 | 17146-4 | | Sample | | | | | |
| 231 | x5 | 17146-4 | | Sample | | | | | |
| 232 | x2 | 17146-5 | | Sample | | | | | |
| 233 | x5 | 17146-5 | | Sample | | | | | |
| 234 | x1 | 17146-5 | | Sample | | | | | |

Kus
 8.23.11

Dataset Report

User Name: icp
 Computer Name: ICP-MS
 Dataset File Path: C:\elandata_icp\DataSet\082311-3\1
 Report Date/Time: Tuesday, August 23, 2011 20:22:45

Autosampler Position: 3

The Dataset

| Time | Sample ID | Batch ID | Read Type | Description | Init. Quant | Prep. Vol. | Aliquot. Vol. | Diluted V |
|------------------------|------------|----------|-----------------|-------------|-------------|------------|---------------|-----------|
| 17:35:52 Tue 23-Aug-11 | Blank | | Blank | | | | | |
| 17:36:01 Tue 23-Aug-11 | Standard 1 | | Standard #1 | | | | | |
| 17:40:10 Tue 23-Aug-11 | Standard 2 | | Standard #2 | | | | | |
| 17:42:19 Tue 23-Aug-11 | Standard 3 | | Standard #3 | | | | | |
| 17:44:29 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 17:46:39 Tue 23-Aug-11 | QC Std 2 | | QC Std #2 | | | | | |
| 17:48:48 Tue 23-Aug-11 | QC Std 3 | | QC Std #3 | | | | | |
| 17:50:58 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 17:53:09 Tue 23-Aug-11 | QC Std 5 | | QC Std #5 | | | | | |
| 17:55:19 Tue 23-Aug-11 | QC Std 7 | | QC Std #7 | | | | | |
| 17:57:28 Tue 23-Aug-11 | QC Std 8 | | QC Std #8 | | | | | |
| 17:59:38 Tue 23-Aug-11 | QC Std 9 | | QC Std #9 | | | | | |
| 18:01:48 Tue 23-Aug-11 | QC Std 10 | | QC Std #10 | | | | | |
| 18:03:59 Tue 23-Aug-11 | QC Std 2 | | Sample | | | | | |
| 18:06:10 Tue 23-Aug-11 | 17213-1fh | | Sample | | | | | |
| 18:08:19 Tue 23-Aug-11 | 17213-2fh | | Sample | | | | | |
| 18:10:29 Tue 23-Aug-11 | 17213-2fh | d | Duplicate of 1f | | | | | |
| 18:12:38 Tue 23-Aug-11 | 17213-3fh | | Sample | | | | | |
| 18:14:47 Tue 23-Aug-11 | 17213-3fh | s | Spike - 1 of 1f | | | | | |
| 18:16:57 Tue 23-Aug-11 | 17213-4fh | | Sample | | | | | |
| 18:19:06 Tue 23-Aug-11 | LRB | | Sample | | | | | |
| 18:21:15 Tue 23-Aug-11 | LRB | s | Spike - 1 of 21 | | | | | |
| 18:23:25 Tue 23-Aug-11 | 17213-1bh | | Sample | | | | | |
| 18:26:37 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 18:27:46 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 18:29:59 Tue 23-Aug-11 | 17213-2bh | | Sample | | | | | |
| 18:32:09 Tue 23-Aug-11 | 17213-2bh | d | Duplicate of 2f | | | | | |
| 18:34:18 Tue 23-Aug-11 | 17213-3bh | | Sample | | | | | |
| 18:36:27 Tue 23-Aug-11 | 17213-3bh | s | Spike - 1 of 28 | | | | | |
| 18:38:36 Tue 23-Aug-11 | 17213-4bh | | Sample | | | | | |
| 18:40:46 Tue 23-Aug-11 | 17213-1fh | x50 | Sample | | | | | |
| 18:42:55 Tue 23-Aug-11 | 17213-2fh | x50 | Sample | | | | | |
| 18:45:04 Tue 23-Aug-11 | 17213-2fh | x50d | Duplicate of 3f | | | | | |
| 18:47:14 Tue 23-Aug-11 | 17213-3fh | x50 | Sample | | | | | |
| 18:49:23 Tue 23-Aug-11 | 17213-3fh | x50s | Spike - 1 of 34 | | | | | |
| 18:53:45 Tue 23-Aug-11 | 17213-2fh | x50 | Sample | | | | | |
| 18:55:54 Tue 23-Aug-11 | 17213-2fh | x50d | Duplicate of 36 | | | | | |
| 18:58:33 Tue 23-Aug-11 | 17213-3bh | x2 | Sample | | | | | |
| 19:00:43 Tue 23-Aug-11 | 17213-3bh | x2s | Spike - 1 of 38 | | | | | |
| 19:02:55 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 | | | | | |
| 19:05:04 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 | | | | | |
| 19:08:38 Tue 23-Aug-11 | 17131-4 | x5 | Sample | Air Tech | | | | |
| 19:10:45 Tue 23-Aug-11 | 17131-5 | x5 | Sample | Air Tech | | | | |

200PPB

*KMS
8-23-11*

| | | | |
|------------------------|----------|-----|--------------------------|
| 19:12:54 Tue 23-Aug-11 | 17131-5 | x5d | Duplicate of 43 Air Tech |
| 19:15:04 Tue 23-Aug-11 | 17131-6 | x5 | Sample Air Tech |
| 19:17:13 Tue 23-Aug-11 | 17131-8 | x5s | Spike - 1 of 45 Air Tech |
| 19:19:25 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 |
| 19:21:34 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 |
| 19:25:11 Tue 23-Aug-11 | 17131-5 | x5 | Sample Air Tech |
| 19:27:20 Tue 23-Aug-11 | 17131-5 | x5d | Duplicate of 49 Air Tech |
| 19:29:32 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 |
| 19:31:41 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 |
| 19:33:53 Tue 23-Aug-11 | 17146-4 | x2 | Sample |
| 19:36:03 Tue 23-Aug-11 | 17146-4 | x5 | Sample |
| 19:38:12 Tue 23-Aug-11 | 17146-5 | x2 | Sample |
| 19:40:21 Tue 23-Aug-11 | 17146-5 | x5 | Sample |
| 19:42:33 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 |
| 19:44:43 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 |
| 19:51:59 Tue 23-Aug-11 | 17146-5 | x1 | Sample |
| 19:54:11 Tue 23-Aug-11 | QC Std 1 | | QC Std #1 |
| 19:56:21 Tue 23-Aug-11 | QC Std 4 | | QC Std #4 |

8-23-11

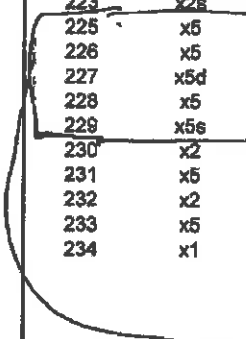
elementOne
Analyst:--KMS--

ICP-MS RUN SHEET
8/23/2011

Job Number:

KVZ

| A/S Loc. | Dilution | Sample ID | Client | Type | Weight (g) | Prep Vol (ml) |
|----------|----------|-----------|----------|-----------------|------------|---------------|
| 5 | | QC Std 2 | | Sample | | |
| 203 | | 17213-1fh | | Sample | | 100 |
| 204 | | 17213-2fh | | Sample | | 100 |
| 205 | d | 17213-2fh | | Duplicate of 3 | | 100 |
| 206 | | 17213-3fh | | Sample | | 100 |
| 207 | s | 17213-3fh | | Spike - 1 of 5 | | 100 |
| 208 | | 17213-4fh | | Sample | | 50 |
| 209 | | LRB | | Sample | | 50 |
| 210 | s | LRB | | Spike - 1 of 8 | | 50 |
| 211 | | 17213-1bh | | Sample | | 50 |
| 212 | | 17213-2bh | | Sample | | 50 |
| 213 | d | 17213-2bh | | Duplicate of 11 | | 50 |
| 214 | | 17213-3bh | | Sample | | 50 |
| 215 | s | 17213-3bh | | Spike - 1 of 13 | | 50 |
| 216 | | 17213-4bh | | Sample | | 50 |
| 217 | x50 | 17213-1fh | | Sample | | 100 |
| 218 | x50 | 17213-2fh | | Sample | | 100 |
| 219 | x50d | 17213-2fh | | Duplicate of 17 | | 100 |
| 220 | x50 | 17213-3fh | | Sample | | 100 |
| 221 | x50s | 17213-3fh | | Spike - 1 of 19 | | 100 |
| 222 | x2 | 17213-3bh | | Sample | | 50 |
| 223 | x2s | 17213-3bh | | Spike - 1 of 21 | | 50 |
| 225 | x5 | 17131-4 | Air Tech | Sample | fh | 100 |
| 226 | x5 | 17131-5 | Air Tech | Sample | fh | 100 |
| 227 | x5d | 17131-5 | Air Tech | Duplicate of 24 | fh | 100 |
| 228 | x5 | 17131-8 | Air Tech | Sample | fh | 100 |
| 229 | x5s | 17131-8 | Air Tech | Spike - 1 of 26 | fh | 100 |
| 230 | x2 | 17146-4 | | Sample | bh | 50 |
| 231 | x5 | 17146-4 | | Sample | bh | 50 |
| 232 | x2 | 17146-5 | | Sample | bh | 50 |
| 233 | x5 | 17146-5 | | Sample | bh | 50 |
| 234 | x1 | 17146-5 | | Sample | bh | 50 |



8-23-11
KMS

| | | | |
|------------------------|---|-------------------------------|----------------------|
| Submitted for QC by: | Date/Time: | QC Review By: | Date/Time: |
| kms | 8/23/11 20:06 | <i>DJB</i> | <i>8/24/11 08:15</i> |
| Re-Test Required: | No: <input checked="" type="checkbox"/> | Yes: <input type="checkbox"/> | Comments: |
| Resubmitted for QC by: | Date/Time: | QC Review: | By: Date/Time: |

| Analyte | Mass (amu) | Spike Table 1 (Conc.) | Spike Table 1 Det. Limit (Conc.) | Spike Table 2 (Conc.) | Spike Table 2 Det. Limit (Conc.) | Spike Table 3 (Conc.) | Spike Table 3 Det. Limit (Conc.) | Spike Table 4 (Conc.) | Spike Table 4 Det. Limit (Conc.) | Spike Table 5 (Conc.) | Spike Table 5 Det. Limit (Conc.) |
|---------|------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|
| 1 Br | 79.904 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 2 Br | 157.808 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 3 Cl | 35.453 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 4 Cl | 70.907 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 5 Mn | 54.938 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 6 Cd | 112.411 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 7 Ni | 58.693 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 8 Al | 26.982 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 9 Se | 78.96 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 10 Sn | 118.71 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 11 Cd | 112.411 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 12 Cd | 112.411 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 13 Sr | 87.62 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 14 Fe | 55.845 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 15 Pb | 207.2 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |
| 16 C | 12.011 | 50 | 1 | 25 | 1 | 100 | 1 | | | | |

Tuesday, Aug 23, 2011 08:24 PM

ICP Standards and QC Standards Values Table

| Element or Test | Mass | Symbol | Std.#1 ppb | Std.#2 ppb | Std.#3 ppb | QC #1 | QC #2 | QC #3 | QC #4 | QC #6 A | QC #7 AB | QC #8 .25 | QC #9 LRB | QC #10 LRB+ | QC #11 LRB+ |
|-----------------|------|-----------|---------------|---------------|---------------|-------|-------|-------|-------|------------|-------------|--------------|--------------|----------------|----------------|
| Lithium | 6 | <i>Li</i> | | | | | | | | | | | | | |
| Lithium | 7 | Li | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Beryllium | 9 | Be | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | 0.25 | 0 | 50 | 100 |
| Boron | 10 | <i>B</i> | 1 | 50 | 100 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Boron | 11 | B | 1 | 50 | 100 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Sodium | 23 | Na | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | | | | 0 | 718 | |
| Magnesium | 24 | Mg | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | | | | 0 | 550 | |
| Magnesium | 25 | <i>Mg</i> | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | | | | 0 | 550 | |
| Aluminum | 27 | Al | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Phosphorus | 31 | P | 20 | 1000 | 5000 | 0 | 20 | 2500 | 1000 | | | | 0 | 200 | |
| Potassium | 39 | K | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | | | | 0 | 500 | |
| Calcium | 44 | Ca | 50 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | | | | 0 | 550 | |
| Scandium | 45 | | | | | | | | | | | | | | |
| Titanium | 47 | Ti | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Titanium | 49 | Ti | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Vanadium | 51 | V | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 20 | | 0 | 50 | 100 |
| Vanadium | 51 | V | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 20 | | 0 | 50 | 100 |
| Chromium | 52 | Cr | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | 10 | | 0 | 50 | 100 |
| Chromium | 53 | <i>Cr</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | 10 | | 0 | 50 | 100 |
| Iron | 54 | <i>Fe</i> | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | 0 | | | 0 | | |
| Manganese | 55 | Mn | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Iron | 57 | Fe | 20 | 1100 | 5500 | 0 | 21 | 2500 | 1100 | 0 | | | 0 | | |
| Cobalt | 58 | Co | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 20 | | 0 | 50 | 100 |
| Nickel | 60 | Ni | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 20 | | 0 | 50 | 100 |
| Copper | 63 | Cu | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Copper | 65 | Cu | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Zinc | 66 | Zn | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Zinc | 67 | <i>Zn</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Zinc | 68 | <i>Zn</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Germanium | 72 | Ge | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Arsenic | 75 | As | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Selenium | 77 | Se | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Selenium | 82 | Se | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Strontium | 88 | Sr | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Molybdenum | 95 | <i>Mo</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Molybdenum | 97 | <i>Mo</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Molybdenum | 98 | Mo | 1 | 100 | 500 | 0 | 1 | 200 | 100 | | | | 0 | 50 | 100 |
| Rhodium | 103 | | | | | | | | | | | | | | |
| Silver | 107 | Ag | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Silver | 109 | <i>Ag</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 10 | | 0 | 50 | 100 |
| Cadmium | 111 | Cd | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 5 | | 0 | 50 | 100 |
| Cadmium | 114 | <i>Cd</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | 5 | | 0 | 50 | 100 |
| Tin | 118 | Sn | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Antimony | 121 | <i>Sb</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Antimony | 123 | Sb | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Tellurium | 128 | Te | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Cesium | 133 | | | | | | | | | | | | | | |
| Barium | 135 | <i>Ba</i> | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Barium | 137 | Ba | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Lanthanum | 139 | La | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Tantalum | 159 | Ta | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Platinum | 195 | Pt | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Gold | 181 | Au | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Thallium | 205 | Tl | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Lead | 208 | Pb | 1 | 100 | 500 | 0 | 1 | 250 | 100 | 0 | | | 0 | 50 | 100 |
| Bismuth | 209 | Bi | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Thorium | 232 | Th | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Uranium | 238 | U | 1 | 100 | 500 | 0 | 1 | 250 | 100 | | | | 0 | 50 | 100 |
| Krypton | 83 | | | | | | | | | | | | | | |

elementOne

elementOne

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Blank
 Sample Date: Tuesday, August 09, 2011 07:44:58
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|-------|-------------------|
| Li | 6 | 43641.8 | | ppb |
| Be | 9 | 14.7 | | ppb |
| Sc | 45 | 1334.7 | | ppb |
| Cr | 52 | 12445.4 | | ppb |
| Co | 53 | 59726.8 | | ppb |
| Mn | 55 | 26531.4 | | ppb |
| Ni | 60 | 574.4 | | ppb |
| As | 60 | 1097.1 | | ppb |
| Sr | 77 | 1303.9 | | ppb |
| Se | 82 | 31.2 | | ppb |
| Rh | 103 | 63766.5 | | ppb |
| Cd | 111 | 181 | | ppb |
| Cd | 114 | 342.3 | | ppb |
| Sb | 121 | 11895.8 | | ppb |
| Sb | 123 | 8646.3 | | ppb |
| Hg | 175 | 834764.3 | | ppb |
| Pb | 208 | 11310.1 | | ppb |
| Kr | 83 | 105.4 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Standard 1
 Sample Date: Tuesday, August 09, 2011 07:46:46
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|----------|-------------------|
| Li | 6 | 45941.5 | | ppb |
| Be | 9 | 460.7 | 1.06233 | ppb |
| Sc | 45 | 27115.3 | 1.01844 | ppb |
| Cr | 52 | 6966.3 | 1.9823 | ppb |
| Mn | 55 | 2411.1 | -0.13363 | ppb |
| Co | 59 | 16822.9 | 1.22334 | ppb |
| Ni | 60 | 4040.8 | 0.32963 | ppb |
| As | 75 | 3914.4 | 0.88846 | ppb |
| Se | 77 | 8780.2 | -0.98742 | ppb |
| Se | 82 | 20.7 | 0.87687 | ppb |
| Rh | 103 | 637854.2 | | ppb |
| Cd | 111 | 3293.8 | 1.0121 | ppb |
| Cd | 114 | 7921 | 1.80738 | ppb |
| Sb | 121 | 17321 | 0.51668 | ppb |
| Sb | 123 | 13045.4 | 0.53365 | ppb |
| Hg | 185 | 173741.1 | | ppb |
| Pb | 208 | 47773 | 0.22872 | ppb |
| Kr | 83 | -56.4 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Standard 2
 Sample Date: Tuesday, August 09, 2011 07:48:57
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|-----------|-------------------|
| Li | 6 | 45218.2 | | ppb |
| Be | 9 | 40839.7 | 101.72407 | ppb |
| Sc | 45 | 282771.8 | | ppb |
| Cr | 52 | 114433.2 | 100.38665 | ppb |
| Co | 53 | 197542.8 | 105.07355 | ppb |
| Mn | 55 | 182856.7 | 53.56912 | ppb |
| Ni | 60 | 1498737.3 | 97.57520 | ppb |
| As | 60 | 317327.4 | 100.11436 | ppb |
| As | 75 | 23057.2 | 100.9161 | ppb |
| Se | 77 | 25820.3 | 101.10104 | ppb |
| Se | 82 | 22720.5 | 83.02102 | ppb |
| Rh | 103 | 61007.2 | | ppb |
| Cd | 111 | 234657.8 | 101.8085 | ppb |
| Cd | 114 | 681100.5 | 89.81426 | ppb |
| Sb | 121 | 971331.2 | 101.75458 | ppb |
| Sb | 123 | 712214.1 | 102.39118 | ppb |
| Hg | 185 | 946989.8 | | ppb |
| Pb | 208 | 3846758.4 | 104.42187 | ppb |
| Kr | 83 | -10404.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Standard 3
 Sample Date: Tuesday, August 09, 2011 07:51:00
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|-----------|-------------------|
| Li | 6 | 43910.7 | | ppb |
| Be | 9 | 30497.4 | 499.65553 | ppb |
| Sc | 45 | 282731.0 | | ppb |
| Cr | 52 | 591908.8 | 486.82233 | ppb |
| Co | 53 | 718939.6 | 708.93876 | ppb |
| Mn | 55 | 901500.8 | 500.23003 | ppb |
| Co | 59 | 747937.6 | 500.48478 | ppb |
| Ni | 60 | 1523843.2 | 488.97727 | ppb |
| As | 75 | 1139052 | 488.86596 | ppb |
| Se | 77 | 81381.1 | -9.78372 | ppb |
| Se | 82 | 114387 | 500.26344 | ppb |
| Rh | 103 | 603077.2 | | ppb |
| Cd | 111 | 1382734.3 | 488.67901 | ppb |
| Cd | 114 | 3087877.1 | 500.01707 | ppb |
| Sb | 121 | 4705543.9 | 699.85005 | ppb |
| Sb | 123 | 3691008.7 | 486.52572 | ppb |
| Hg | 185 | 238147.8 | | ppb |
| Pb | 208 | 1980140.7 | 452.11581 | ppb |
| Kr | 83 | -43880.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 1
 Sample Date: Tuesday, August 09, 2011 07:53:16
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|----------|-------------------|
| Li | 6 | 44817.7 | | ppb |
| Be | 9 | 24.3 | 0.0232 | ppb |
| Sc | 45 | 213035.8 | | ppb |
| Cr | 52 | 19116.7 | 0.09413 | ppb |
| Co | 53 | 59437.4 | 0.48138 | ppb |
| Mn | 55 | 27336.1 | 0.08824 | ppb |
| Co | 59 | 821.4 | 0.01747 | ppb |
| Ni | 60 | 877.4 | -0.085 | ppb |
| As | 60 | 410.0 | -0.55862 | ppb |
| Se | 77 | 7186.7 | -0.8037 | ppb |
| Se | 82 | 28.5 | -0.00888 | ppb |
| Rh | 103 | 816353.8 | | ppb |
| Cd | 111 | 216.7 | 0.01154 | ppb |
| Cd | 114 | 451.7 | 0.01722 | ppb |
| Sb | 121 | 5718.5 | -0.71427 | ppb |
| Sb | 123 | 4317.3 | -0.70160 | ppb |
| Hg | 175 | 963991.8 | | ppb |
| Pb | 208 | 117133.6 | 0.00274 | ppb |
| Kr | 83 | 146.1 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 2
 Sample Date: Tuesday, August 09, 2011 07:55:22
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Intensity | Conc. | Meas. Report Unit |
|---------|------|-----------------|----------|-------------------|
| Li | 6 | 47775.1 | | ppb |
| Be | 9 | 507 | 1.12288 | ppb |
| Sc | 45 | 273570.5 | | ppb |
| Cr | 52 | 33889.1 | 1.25877 | ppb |
| Co | 53 | 61962.1 | 0.22373 | ppb |
| Mn | 55 | 40845.7 | 0.17782 | ppb |
| Ni | 60 | 8271.2 | 1.11975 | ppb |
| As | 60 | 8271.2 | 1.58884 | ppb |
| As | 75 | 2218.3 | 0.4285 | ppb |
| Se | 77 | 7673.4 | -8.23879 | ppb |
| Se | 82 | 284.3 | 0.96667 | ppb |
| Rh | 103 | 844259.5 | | ppb |
| Cd | 111 | 3422.7 | 1.08358 | ppb |
| Cd | 114 | 7497 | 1.08084 | ppb |
| Sb | 121 | 15813.1 | 0.36801 | ppb |
| Sb | 123 | 12141.3 | 0.28518 | ppb |
| Hg | 185 | 1011682.2 | | ppb |
| Pb | 208 | 28635.7 | 1.17644 | ppb |
| Kr | 83 | -73.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 3
 Sample Date: Tuesday, August 09, 2011 07:57:35
 Sample Description:
 Concentration Results

| Analyte | Mass | Mean | Intens | Conc. | Mean | Report Unit |
|---------|------|-----------|--------|--------|------|-------------|
| Li | 6 | 22514.5 | | | | ppb |
| Be | 9 | 10379.2 | 501 | 1503.2 | | ppb |
| B | 10 | 134930.2 | | | | ppb |
| Cr | 52 | 264747.7 | 520 | 53003 | | ppb |
| Mn | 55 | 11715.5 | 651 | 81161 | | ppb |
| Co | 59 | 4414851.1 | 507 | 5519 | | ppb |
| Ni | 58 | 363796.1 | 622 | 57652 | | ppb |
| As | 75 | 54854.4 | 499 | 6363 | | ppb |
| Se | 77 | 48465.5 | 540 | 38535 | | ppb |
| Sr | 82 | 5969.9 | 471 | 36482 | | ppb |
| Rb | 103 | 292769 | | | | ppb |
| Cd | 111 | 672118.4 | 495 | 531 | | ppb |
| Ce | 114 | 1591838.3 | 622 | 10408 | | ppb |
| Sb | 121 | 2265805.8 | 621 | 15264 | | ppb |
| Bi | 123 | 1672949.2 | 467 | 7024 | | ppb |
| Hg | 165 | 72456.6 | | | | ppb |
| Pb | 208 | 952041.7 | 502 | 3741 | | ppb |
| Kr | 83 | 45013.1 | | | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 4
 Sample Date: Tuesday, August 09, 2011 07:59:42
 Sample Description:
 Concentration Results

| Analyte | Mass | Mean | Intens | Conc. | Mean | Report Unit |
|---------|------|-----------|--------|-------|------|-------------|
| Li | 6 | 2931.4 | | | | ppb |
| Be | 9 | 45832.5 | 102 | 48012 | | ppb |
| B | 10 | 277144.8 | | | | ppb |
| Cr | 52 | 1211775.8 | 100.87 | 344 | | ppb |
| Mn | 55 | 204354.7 | 102 | 547 | | ppb |
| Co | 59 | 183679.3 | 101 | 869 | | ppb |
| Ni | 58 | 1385164.8 | 100 | 21728 | | ppb |
| As | 75 | 337017.8 | 104 | 9705 | | ppb |
| Se | 77 | 241773 | 101 | 7048 | | ppb |
| Sr | 82 | 24892.2 | 102 | 7786 | | ppb |
| Rb | 103 | 641881.8 | | | | ppb |
| Cd | 111 | 305420.3 | 102 | 80595 | | ppb |
| Ce | 114 | 740202.8 | 102 | 10317 | | ppb |
| Sb | 121 | 865386.5 | 101 | 287 | | ppb |
| Bi | 123 | 758916 | 101 | 37165 | | ppb |
| Hg | 165 | 1010004.9 | | | | ppb |
| Pb | 208 | 4257972.1 | 105 | 82495 | | ppb |
| Kr | 83 | 33020.6 | | | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 5
 Sample Date: Tuesday, August 09, 2011 08:01:52
 Sample Description:
 Concentration Results

| Analyte | Mass | Mean | Intens | Conc. | Mean | Report Unit |
|---------|------|-----------|--------|-------|------|-------------|
| Li | 6 | 8293.5 | | | | ppb |
| Be | 9 | 23847.3 | 48 | 954 | | ppb |
| B | 10 | 294235.1 | | | | ppb |
| Cr | 52 | 616339.7 | 49 | 4811 | | ppb |
| Mn | 55 | 129727.1 | 47 | 3742 | | ppb |
| Co | 59 | 972889.9 | 48 | 81582 | | ppb |
| Ni | 58 | 781301.8 | 48 | 81274 | | ppb |
| As | 75 | 186133.3 | 51 | 10061 | | ppb |
| Se | 77 | 123464.9 | 49 | 59131 | | ppb |
| Sr | 82 | 18844.2 | 49 | 87429 | | ppb |
| Rb | 103 | 12353.3 | 48 | 60165 | | ppb |
| Cd | 111 | 854090.7 | | | | ppb |
| Ce | 114 | 148921.6 | 49 | 48186 | | ppb |
| Sb | 121 | 332116.8 | 49 | 62067 | | ppb |
| Bi | 123 | 493048.2 | 49 | 1357 | | ppb |
| Hg | 165 | 377403 | 48 | 37373 | | ppb |
| Pb | 208 | 107027.5 | | | | ppb |
| Kr | 83 | 2129523.8 | 50 | 79163 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 7
 Sample Date: Tuesday, August 09, 2011 08:04:02
 Sample Description:
 Concentration Results

| Analyte | Mass | Mean | Intens | Conc. | Mean | Report Unit |
|---------|------|-----------|--------|-------|------|-------------|
| Li | 6 | 50721.7 | | | | ppb |
| Be | 9 | 278.3 | 0 | 56267 | | ppb |
| B | 10 | 270035.5 | | | | ppb |
| Cr | 52 | 146250.1 | 12 | 09032 | | ppb |
| Mn | 55 | 72852.2 | 15 | 87932 | | ppb |
| Co | 59 | 240037.8 | 12 | 17778 | | ppb |
| Ni | 58 | 313151.6 | 21 | 53175 | | ppb |
| As | 75 | 64804.8 | 21 | 89153 | | ppb |
| Se | 77 | 22223.5 | 8 | 50033 | | ppb |
| Sr | 82 | 11756.6 | 22 | 5217 | | ppb |
| Rb | 103 | 2246.4 | 10 | 1785 | | ppb |
| Cd | 111 | 513537.5 | | | | ppb |
| Ce | 114 | 19131.9 | 5 | 5648 | | ppb |
| Sb | 121 | 42045.7 | 6 | 8273 | | ppb |
| Bi | 123 | 15077.2 | 0 | 28264 | | ppb |
| Hg | 165 | 10423.6 | 0 | 0735 | | ppb |
| Pb | 208 | 1004673.5 | | | | ppb |
| Kr | 83 | 35180 | 0 | 58389 | | ppb |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 8
 Sample Date: Tuesday, August 09, 2011 08:06:12
 Sample Description:
 Concentration Results

| Analyte | Mass | Mean | Intens | Conc. | Mean | Report Unit |
|---------|------|-----------|--------|-------|------|-------------|
| Li | 6 | 76801.2 | | | | ppb |
| Be | 9 | 203.3 | 0 | 25314 | | ppb |
| B | 10 | 44073.1 | | | | ppb |
| Cr | 52 | 36774.2 | 0 | 53848 | | ppb |
| Mn | 55 | 88631.2 | -2 | 48307 | | ppb |
| Co | 59 | 1827.2 | 0 | 86686 | | ppb |
| Ni | 58 | 7675.8 | 0 | 27531 | | ppb |
| As | 75 | 12729.2 | 2 | 21808 | | ppb |
| Se | 77 | -30.1 | -0.7 | 391 | | ppb |
| Sr | 82 | 12843.7 | -3 | 54139 | | ppb |
| Rb | 103 | 17.2 | 0 | 22887 | | ppb |
| Cd | 111 | 988291.3 | | | | ppb |
| Ce | 114 | 141.9 | 0 | 28305 | | ppb |
| Sb | 121 | 3289 | 0 | 25267 | | ppb |
| Bi | 123 | 11532.8 | -2 | 55862 | | ppb |
| Hg | 165 | 8728.8 | -0 | 5436 | | ppb |
| Pb | 208 | 1951535.3 | | | | ppb |
| Kr | 83 | 4248.2 | 0 | 38302 | | ppb |

Method 6020 & 200.8 Metals Summary Report

Sample ID: C-3 Std 9
 Sample Date: Tuesday, August 03, 2011 09:07:25
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Conc. | Meas. Report Unit |
|---------|------|------------|-----------|-------------------|
| Li | 6 | 54.04.8 | | ppb |
| Be | 9 | 5 | -0.0284 | ppb |
| B | 45 | 277751.2 | | ppb |
| Sc | 52 | 342.2 | 0.7187 | ppb |
| Cr | 53 | 28231.7 | -28.34807 | ppb |
| Mn | 55 | 1216.4.2 | 4.37981 | ppb |
| Co | 59 | 1984.2 | 0.05277 | ppb |
| Ni | 60 | 3022.2 | 0.00025 | ppb |
| As | 75 | 121.1 | -0.68807 | ppb |
| Sa | 77 | 1408.8 | -42.12867 | ppb |
| Se | 82 | 6.8 | -0.10679 | ppb |
| Rh | 103 | 705.2.6 | | ppb |
| Cd | 111 | 114.6 | -0.02753 | ppb |
| Cd | 114 | 22.3 | -0.01915 | ppb |
| Sb | 121 | 52415 | 3.38362 | ppb |
| Sb | 123 | 40189.6 | 3.42803 | ppb |
| Hg | 165 | 1180.25.1 | | ppb |
| Pb | 206 | 35975.2 | 0.55893 | ppb |
| Kr | 83 | 86.3 | | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: GC STD 10
 Sample Date: Tuesday, August 03, 2011 09:10:31
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Conc. | Meas. Report Unit |
|---------|------|------------|-----------|-------------------|
| Li | 6 | 77533.3 | | ppb |
| Be | 9 | 171.6.8 | 31.51572 | ppb |
| Sc | 45 | 230419.8 | | ppb |
| Cr | 52 | 709705.3 | 50.75319 | ppb |
| Cr | 53 | 87793.8 | 17.82702 | ppb |
| Mn | 55 | 123189.2 | 54.75173 | ppb |
| Co | 59 | 81424.9 | 45.54863 | ppb |
| Ni | 60 | 184866.8 | 49.74849 | ppb |
| As | 75 | 29584.5 | 33.27882 | ppb |
| Sa | 77 | 8811.6 | -18.80017 | ppb |
| Se | 82 | 7723.9 | 21.90777 | ppb |
| Rh | 103 | 733828.9 | | ppb |
| Cd | 111 | 12789.9 | 37.78885 | ppb |
| Cd | 114 | 301140.4 | 37.78889 | ppb |
| Sb | 121 | 418572.8 | 34.45905 | ppb |
| Sb | 123 | 217761.1 | 21.46284 | ppb |
| Hg | 165 | 1223725.8 | | ppb |
| Pb | 206 | 2358498.4 | 48.10033 | ppb |
| Kr | 83 | 95.1 | | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: GC STD 2
 Sample Date: Tuesday, August 03, 2011 09:12:11
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Conc. | Meas. Report Unit |
|---------|------|------------|----------|-------------------|
| Li | 6 | 5347.3 | | ppb |
| Be | 9 | 500.4 | 1.10484 | ppb |
| Sc | 45 | 325393.7 | | ppb |
| Cr | 52 | 41687.3 | 1.21614 | ppb |
| Cr | 53 | 70410.1 | 2.94027 | ppb |
| Mn | 55 | 44108.1 | 0.73025 | ppb |
| Co | 59 | 19630.3 | 1.10678 | ppb |
| Ni | 60 | 6372.7 | 1.95176 | ppb |
| As | 75 | 1717.1 | -0.07898 | ppb |
| Sa | 77 | 10534.8 | 3.12701 | ppb |
| Se | 82 | 305.1 | 1.035 | ppb |
| Rh | 103 | 69984.8 | | ppb |
| Cd | 111 | 3657.6 | 1.3481 | ppb |
| Cd | 114 | 871.1 | 1.109 | ppb |
| Sb | 121 | 1444.1 | 0.1217 | ppb |
| Sb | 123 | 10978.2 | 0.1754 | ppb |
| Hg | 165 | 160036.6 | | ppb |
| Pb | 206 | 58952.7 | 1.14033 | ppb |
| Kr | 83 | 99.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-2th
 Sample Date: Tuesday, August 03, 2011 09:14:56
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Conc. | Meas. Report Unit |
|---------|------|------------|-----------|-------------------|
| Li | 6 | 80289 | | ppb |
| Be | 9 | 3109.2 | 5.59719 | ppb |
| Sc | 45 | 7291.6 | | ppb |
| Cr | 52 | 6390997.5 | 997.35228 | ppb |
| Cr | 53 | 71272.2 | 533.14788 | ppb |
| Mn | 55 | 3849945.1 | 218.21863 | ppb |
| Co | 59 | 342020.2 | 22.83897 | ppb |
| Ni | 60 | 1356813.7 | 104.21851 | ppb |
| As | 75 | 235428.1 | 111.0759 | ppb |
| Sa | 77 | 51030.4 | 489.67057 | ppb |
| Se | 82 | 121032.5 | 928.90037 | ppb |
| Rh | 103 | 609837.3 | | ppb |
| Cd | 111 | 87455.2 | 34.87989 | ppb |
| Cd | 114 | 217742.1 | 33.05104 | ppb |
| Sb | 121 | 12784.3 | 10.80677 | ppb |
| Sb | 123 | 87342.3 | 10.49873 | ppb |
| Hg | 165 | 1135111.2 | | ppb |
| Pb | 206 | 4082050.3 | 80.00713 | ppb |
| Kr | 83 | 37846.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-2th
 Sample Date: Tuesday, August 03, 2011 09:17:07
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Conc. | Meas. Report Unit |
|---------|------|------------|-----------|-------------------|
| Li | 6 | 58881.2 | | ppb |
| Be | 9 | 2883.5 | 5.45485 | ppb |
| Sc | 45 | 586552.1 | | ppb |
| Cr | 52 | 5384454.1 | 820.54795 | ppb |
| Cr | 53 | 686881.1 | 514.37798 | ppb |
| Mn | 55 | 417842.1 | 243.7446 | ppb |
| Co | 59 | 365594 | 2.83677 | ppb |
| Ni | 60 | 148822.8 | 817.58967 | ppb |
| As | 75 | 285842.8 | 132.4873 | ppb |
| Sa | 77 | 102420.7 | 585.74183 | ppb |
| Se | 82 | 130544.3 | 671.45401 | ppb |
| Rh | 103 | 570204 | | ppb |
| Cd | 111 | 63044.8 | 33.64045 | ppb |
| Cd | 114 | 181185.8 | 30.62444 | ppb |
| Sb | 121 | 21722.4 | 20.08113 | ppb |
| Sb | 123 | 177822.7 | 20.20734 | ppb |
| Hg | 165 | 1137414.1 | | ppb |
| Pb | 206 | 5161084.2 | 78.10425 | ppb |
| Kr | 83 | 37868.1 | | mg/L |

PerkinElmer ELAN 3100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3h
 Sample Date: Tuesday, August 09, 2011 09:19:14
 Sample Description: Airtech

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Lj | 6 | 52893.6 | | ppb |
| Be | 9 | 26701.5 | 79.26 | ppb |
| Sc | 45 | 24183.081 | | ppb |
| Cr | 52 | 22012.28 | 2365.8147 | ppb |
| Cr | 53 | 272038.7 | 284.5263 | ppb |
| Mn | 55 | 28321123 | 2368.3114 | ppb |
| Co | 59 | 2249170.1 | 220.86074 | ppb |
| Ni | 60 | 2831263.9 | 1268.8421 | ppb |
| As | 75 | 596316 | 398.85014 | ppb |
| Se | 77 | 92332.8 | 398.85014 | ppb |
| Rh | 82 | 1251701 | 808.475 | ppb |
| Rh | 103 | 41229.7 | | ppb |
| Cd | 111 | 328930.6 | 173.54974 | ppb |
| Cd | 114 | 89182.4 | 148.29349 | ppb |
| Sb | 121 | 48324.1 | 41.45727 | ppb |
| Sb | 123 | 11920.3 | 61.27186 | ppb |
| Hg | 165 | 1101762.8 | | ppb |
| Pb | 208 | 1833081 | 380.02582 | ppb |
| Kr | 83 | -36906.3 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3h
 Sample Date: Tuesday, August 09, 2011 09:21:22
 Sample Description: Airtech

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Lj | 6 | 62207.9 | | ppb |
| Be | 9 | 3237.8 | 5.85874 | ppb |
| Sc | 45 | 596027.8 | | ppb |
| Cr | 52 | 10783.15 | 810.23942 | ppb |
| Cr | 53 | 1213051.1 | 861.7846 | ppb |
| Mn | 55 | 688878.1 | 529.28339 | ppb |
| Co | 59 | 447397.4 | 29.45533 | ppb |
| Ni | 60 | 139120.8 | 871.23616 | ppb |
| As | 75 | 292213.7 | 125.5454 | ppb |
| Se | 77 | 109330.8 | 680.36733 | ppb |
| Rh | 82 | 142733.6 | 630.82336 | ppb |
| Rh | 103 | 616208.8 | | ppb |
| Cd | 111 | 109884.8 | 38.80873 | ppb |
| Cd | 114 | 246628.9 | 36.92883 | ppb |
| Sb | 121 | 128321.9 | 10.7141 | ppb |
| Sb | 123 | 57198.9 | 10.64983 | ppb |
| Hg | 165 | 1118393.3 | | ppb |
| Pb | 208 | 1033498.3 | 68.19882 | ppb |
| Kr | 83 | -37873.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3h
 Sample Date: Tuesday, August 09, 2011 08:23:37
 Sample Description: Airtech

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Lj | 6 | 87387.5 | | ppb |
| Be | 9 | 22458 | 36.30082 | ppb |
| Sc | 45 | 134632.5 | | ppb |
| Cr | 52 | 1074978 | 408.70821 | ppb |
| Cr | 53 | 1258258.2 | 216.43175 | ppb |
| Mn | 55 | 683738.1 | 386.11795 | ppb |
| Co | 59 | 115341.8 | 78.25188 | ppb |
| Ni | 60 | 188757.4 | 626.74771 | ppb |
| As | 75 | 33643.1 | 183.60835 | ppb |
| Se | 77 | 114407.3 | 831.19767 | ppb |
| Rh | 82 | 131830.8 | 672.30807 | ppb |
| Rh | 103 | 596597.2 | | ppb |
| Cd | 111 | 213889.6 | 7.81258 | ppb |
| Cd | 114 | 413177.8 | 75.21442 | ppb |
| Sb | 121 | 518246.5 | 3.38319 | ppb |
| Sb | 123 | 382517.4 | 48.35229 | ppb |
| Hg | 165 | 1081430.7 | | ppb |
| Pb | 208 | 483488.1 | 110.89707 | ppb |
| Kr | 83 | -37382.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-4h
 Sample Date: Tuesday, August 09, 2011 09:25:41
 Sample Description: Airtech

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Lj | 6 | 43048.7 | | ppb |
| Be | 9 | 20145 | 51.12278 | ppb |
| Sc | 45 | 107881.3 | | ppb |
| Cr | 52 | 20323363 | 2805.2886 | ppb |
| Cr | 53 | 2430133.5 | 2801.2788 | ppb |
| Mn | 55 | 2381372.2 | 1833.8453 | ppb |
| Co | 59 | 1601707.1 | 173.31615 | ppb |
| Ni | 60 | 2127577.7 | 1428.8142 | ppb |
| As | 75 | 413083.7 | 280.2235 | ppb |
| Se | 77 | 82334.8 | 847.58703 | ppb |
| Se | 82 | 111820.3 | 703.59217 | ppb |
| Rh | 103 | 421858.8 | | ppb |
| Cd | 111 | 245459.8 | 12.54871 | ppb |
| Cd | 114 | 482072.9 | 107.54787 | ppb |
| Sb | 121 | 341477.9 | 32.7137 | ppb |
| Sb | 123 | 281884.7 | 32.81038 | ppb |
| Hg | 165 | 1614195.3 | | ppb |
| Pb | 208 | 1231837.9 | 280.78784 | ppb |
| Kr | 83 | -251874.4 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5th
 Sample Date: Tuesday, August 09, 2011 06:27:51
 Sample Description: Airtech
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 37362.4 | | ppb |
| Be | 9 | 2857.3 | 74.61636 | ppb |
| Sc | 45 | 162807.4 | | ppb |
| Cr | 52 | 21132517 | 2867.260 | ppb |
| Co | 53 | 2625.48 | 2893.9073 | ppb |
| Mn | 55 | 21190365 | 2267.2394 | ppb |
| Ni | 59 | 2184228 | 2117.03 | ppb |
| Ni | 60 | 257860.8 | 1336.2716 | ppb |
| As | 75 | 548983.8 | 352.37203 | ppb |
| Se | 77 | 92081.5 | 142.2895 | ppb |
| Se | 82 | 124041.4 | 73.05884 | ppb |
| Rh | 103 | 471435.4 | | ppb |
| Cd | 111 | 215161.1 | 185.1793 | ppb |
| Cd | 114 | 642503.7 | 142.8261 | ppb |
| Sb | 121 | 444455.7 | 42.80213 | ppb |
| Sb | 123 | 3387.021 | 42.61539 | ppb |
| Ho | 165 | 106811.5 | | ppb |
| Pb | 208 | 15300226 | 365.82661 | ppb |
| Kr | 83 | -321403.4 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5th
 Sample Date: Tuesday, August 09, 2011 06:30:00
 Sample Description: Airtech
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 61769.2 | | ppb |
| Be | 9 | 1104.5 | 5.28112 | ppb |
| Sc | 45 | 15211.3 | | ppb |
| Cr | 52 | 597143.2 | 547.91821 | ppb |
| Co | 53 | 883918 | 591.93068 | ppb |
| Mn | 55 | 1144799.1 | 248.1053 | ppb |
| Co | 59 | 733226 | 22.37832 | ppb |
| Ni | 60 | 1480152.4 | 485.78215 | ppb |
| As | 75 | 261350.8 | 116.2645 | ppb |
| Se | 77 | 100982.2 | 365.91425 | ppb |
| Se | 82 | 133891.4 | 606.46115 | ppb |
| Rh | 103 | 585379.4 | | ppb |
| Cd | 111 | 61730.1 | 30.3177 | ppb |
| Cd | 114 | 179254.9 | 28.19432 | ppb |
| Sb | 121 | 222792.7 | 20.70521 | ppb |
| Sb | 123 | 166211.5 | 20.65216 | ppb |
| Ho | 165 | 1012350.3 | | ppb |
| Pb | 208 | 2409927 | 58.45055 | ppb |
| Kr | 83 | -79776.6 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5th
 Sample Date: Tuesday, August 09, 2011 06:32:00
 Sample Description: Airtech
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 34521.3 | | ppb |
| Be | 9 | 27921.1 | 67.2942 | ppb |
| Sc | 45 | 221200.3 | | ppb |
| Cr | 52 | 2312684 | 3296.4226 | ppb |
| Co | 53 | 2760640.7 | 3314.452 | ppb |
| Mn | 55 | 2833699 | 2329.5441 | ppb |
| Co | 59 | 219899.3 | 234.53704 | ppb |
| Ni | 60 | 768836.6 | 1352.6503 | ppb |
| As | 75 | 50023.3 | 352.61467 | ppb |
| Se | 77 | 67853.5 | 543.3417 | ppb |
| Se | 82 | 14515.2 | 590.79592 | ppb |
| Rh | 103 | 377485.0 | | ppb |
| Cd | 111 | 712672.3 | 186.33369 | ppb |
| Cd | 114 | 632649.8 | 158.82388 | ppb |
| Sb | 121 | 427303.3 | 45.77734 | ppb |
| Sb | 123 | 354901.5 | 45.53958 | ppb |
| Ho | 165 | 1044104.2 | | ppb |
| Pb | 208 | 17388028 | 417.65367 | ppb |
| Kr | 83 | -123952.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5th
 Sample Date: Tuesday, August 09, 2011 06:34:15
 Sample Description: Airtech
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 32147.1 | | ppb |
| Be | 9 | 40143.1 | 143.9119 | ppb |
| Sc | 45 | 2187708.3 | | ppb |
| Cr | 52 | 21786158 | 3411.4711 | ppb |
| Co | 53 | 2720862.7 | 3463.8347 | ppb |
| Mn | 55 | 2945897 | 2716.47 | ppb |
| Co | 59 | 2117710.1 | 320.06053 | ppb |
| Ni | 60 | 2612064.3 | 1488.4263 | ppb |
| As | 75 | 621471.1 | 416.57234 | ppb |
| Se | 77 | 65825.2 | 612.22405 | ppb |
| Se | 82 | 17677.1 | 698.45682 | ppb |
| Rh | 103 | 354153 | | ppb |
| Cd | 111 | 376116.1 | 232.27059 | ppb |
| Cd | 114 | 765821.4 | 204.8822 | ppb |
| Sb | 121 | 730138.2 | 77.89119 | ppb |
| Sb | 123 | 682713.8 | 78.1916 | ppb |
| Ho | 165 | 675431.3 | | ppb |
| Pb | 208 | 17388168 | 453.33669 | ppb |
| Kr | 83 | -325129.2 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC S14
 Sample Date: Tuesday, August 09, 2011 06:35:22
 Sample Description:
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 65344.8 | | ppb |
| Be | 9 | 7.3 | -0.02451 | ppb |
| Sc | 45 | 242921.3 | | ppb |
| Cr | 52 | 18121.3 | -0.18071 | ppb |
| Co | 53 | 33976.8 | -18.69961 | ppb |
| Mn | 55 | 30228.6 | 0.25707 | ppb |
| Co | 59 | 362.7 | -0.01026 | ppb |
| Ni | 60 | 884.4 | -0.02819 | ppb |
| As | 75 | -184.3 | -0.81583 | ppb |
| Se | 77 | 5205.5 | -19.34173 | ppb |
| Se | 82 | 86 | 0.15985 | ppb |
| Rh | 103 | 606911.7 | | ppb |
| Cd | 111 | 102.1 | -0.02806 | ppb |
| Cd | 114 | 168.7 | -0.02496 | ppb |
| Sb | 121 | 1717.2 | -1.14407 | ppb |
| Sb | 123 | 1252.8 | -1.13856 | ppb |
| Ho | 165 | 896832.3 | | ppb |
| Pb | 208 | 112411.4 | -0.00867 | ppb |
| Kr | 83 | 68.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC S14
 Sample Date: Tuesday, August 09, 2011 06:35:36
 Sample Description:
 Concentration Results:

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 8 | 67104 | | ppb |
| Be | 9 | 56225.4 | 92.48417 | ppb |
| Sc | 45 | 269233.8 | | ppb |
| Cr | 52 | 1267645.3 | 1062.37 | ppb |
| Co | 53 | 184730 | 82.12386 | ppb |
| Mn | 55 | 2157523 | 115.08696 | ppb |
| Co | 59 | 1582236.7 | 102.7362 | ppb |
| Ni | 60 | 33166.2 | 105.69144 | ppb |
| As | 75 | 246787.7 | 105.69108 | ppb |
| Se | 77 | 24723.1 | 51.6303 | ppb |
| Se | 82 | 25453.8 | 107.82228 | ppb |
| Rh | 103 | 624851.4 | | ppb |
| Cd | 111 | 332054.5 | 106.17011 | ppb |
| Cd | 114 | 710884.4 | 104.83738 | ppb |
| Sb | 121 | 895622.2 | 103.73783 | ppb |
| Sb | 123 | 750139.1 | 103.11801 | ppb |
| Ho | 165 | 886212.7 | | ppb |
| Pb | 208 | 217180.3 | 113.88784 | ppb |
| Kr | 83 | -20.866 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-7th
 Sample Date: Tuesday, August 09, 2011 01:02:45
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 54917.6 | | ppb |
| Ba | 9 | 17.7 | -0.0012 | ppb |
| Sc | 45 | 223541.6 | | ppb |
| Cr | 52 | 214793.8 | 14.80233 | ppb |
| Co | 53 | 31850.4 | -17.7557 | ppb |
| Mn | 55 | 744420.3 | 42.88570 | ppb |
| Co | 59 | 3702.8 | 0.2273 | ppb |
| Ni | 60 | 31598.2 | 10.84650 | ppb |
| As | 75 | 801.1 | -0.45413 | ppb |
| Se | 77 | 504.7 | -0.65773 | ppb |
| Se | 82 | 22.6 | -0.02673 | ppb |
| Rh | 103 | 66649.1 | | ppb |
| Cd | 111 | 356.5 | 0.1689 | ppb |
| Cd | 114 | 39.1 | 0.00856 | ppb |
| Sb | 121 | 5137.8 | -0.82168 | ppb |
| Sb | 123 | 3952.9 | -0.70959 | ppb |
| Hg | 165 | 1048297.6 | | ppb |
| Pb | 206 | 9678.1 | 2.00035 | ppb |
| Kr | 83 | -811 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-1th
 Sample Date: Tuesday, August 09, 2011 01:12:56
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 13357.6 | | ppb |
| Ba | 9 | 107.3 | 0.13854 | ppb |
| Sc | 45 | 267803 | | ppb |
| Cr | 52 | 155501 | 11.72294 | ppb |
| Co | 53 | 51116.3 | -6.40861 | ppb |
| Mn | 55 | 36557.3 | 3.53401 | ppb |
| Co | 59 | 7032.7 | 0.48928 | ppb |
| Ni | 60 | 31773.1 | 0.7877 | ppb |
| As | 75 | 5996.7 | 1.80235 | ppb |
| Se | 77 | 7410.4 | -0.50558 | ppb |
| Se | 82 | 3153.3 | 13.1587 | ppb |
| Rh | 103 | 67332.5 | | ppb |
| Cd | 111 | 2555.8 | 0.82007 | ppb |
| Cd | 114 | 6017.9 | 0.73073 | ppb |
| Sb | 121 | 4261 | -0.89767 | ppb |
| Sb | 123 | 3653.3 | -0.87755 | ppb |
| Hg | 165 | 1019828.1 | | ppb |
| Pb | 206 | 8732.3 | 1.61137 | ppb |
| Kr | 83 | -691 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-2th
 Sample Date: Tuesday, August 09, 2011 08:45:05
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 89676 | | ppb |
| Ba | 9 | 103.3 | 0.13249 | ppb |
| Sc | 45 | 22448.1 | | ppb |
| Cr | 52 | 134281.4 | 10.28409 | ppb |
| Co | 53 | 52481.4 | -4.23849 | ppb |
| Mn | 55 | 16336.7 | 4.93776 | ppb |
| Co | 59 | 7134.1 | 0.43705 | ppb |
| Ni | 60 | 34521.5 | 10.71719 | ppb |
| As | 75 | 6257.7 | 1.92041 | ppb |
| Se | 77 | 1272.2 | -3.49209 | ppb |
| Se | 82 | 3287 | 14.12675 | ppb |
| Rh | 103 | 11157.2 | | ppb |
| Cd | 111 | 2148.8 | 0.70970 | ppb |
| Cd | 114 | 4781.6 | 0.86895 | ppb |
| Sb | 121 | 6231.1 | -0.86571 | ppb |
| Sb | 123 | 4930.8 | -0.87395 | ppb |
| Hg | 165 | 779084.6 | | ppb |
| Pb | 206 | 69744.2 | 1.48901 | ppb |
| Kr | 83 | -49.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3th
 Sample Date: Tuesday, August 09, 2011 06:17:17
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 85183.4 | | ppb |
| Ba | 9 | 87.9 | 0.10868 | ppb |
| Sc | 45 | 277638.5 | | ppb |
| Cr | 52 | 133801.7 | 10.23214 | ppb |
| Co | 53 | 51760.2 | -2.84071 | ppb |
| Mn | 55 | 11349.7 | 4.89403 | ppb |
| Co | 59 | 7030.8 | 0.43942 | ppb |
| Ni | 60 | 33746.9 | 10.74334 | ppb |
| As | 75 | 6035.3 | 1.83303 | ppb |
| Se | 77 | 7954.5 | -0.77754 | ppb |
| Se | 82 | 2119.3 | 1.58803 | ppb |
| Rh | 103 | 604786.2 | | ppb |
| Cd | 111 | 2184.3 | 0.71998 | ppb |
| Cd | 114 | 4780.1 | 0.87679 | ppb |
| Sb | 121 | 5882.9 | -0.86340 | ppb |
| Sb | 123 | 4543.5 | -0.87107 | ppb |
| Hg | 165 | 867727.5 | | ppb |
| Pb | 206 | 85026.1 | 1.43488 | ppb |
| Kr | 83 | -617.6 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3th
 Sample Date: Tuesday, August 09, 2011 06:17:21
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 83802.3 | | ppb |
| Ba | 9 | 89 | 0.11544 | ppb |
| Sc | 45 | 271600.1 | | ppb |
| Cr | 52 | 205021 | 17.08076 | ppb |
| Co | 53 | 47031.1 | -4.77283 | ppb |
| Mn | 55 | 143073.5 | 0.98476 | ppb |
| Co | 59 | 8020.5 | 0.57899 | ppb |
| Ni | 60 | 37380.7 | 12.13661 | ppb |
| As | 75 | 6147.9 | 2.01899 | ppb |
| Se | 77 | 7847.8 | -2.37048 | ppb |
| Se | 82 | 3156.6 | 13.94127 | ppb |
| Rh | 103 | 565390.3 | | ppb |
| Cd | 111 | 2878.6 | 0.92005 | ppb |
| Cd | 114 | 586.2 | 0.80125 | ppb |
| Sb | 121 | 3643.4 | -0.83742 | ppb |
| Sb | 123 | 2781.2 | -0.91675 | ppb |
| Hg | 165 | 956696.2 | | ppb |
| Pb | 206 | 85017.1 | 1.40241 | ppb |
| Kr | 83 | -586.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-3th
 Sample Date: Tuesday, August 09, 2011 01:51:32
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. | Conc. | Meas. Report Unit |
|---------|------|---------------|----------|-------------------|
| Li | 6 | 63578.3 | | ppb |
| Ba | 9 | 28316.7 | 45.17795 | ppb |
| Sc | 45 | 27097.5 | | ppb |
| Cr | 52 | 734422.3 | 80.91462 | ppb |
| Co | 53 | 130037.9 | 39.51063 | ppb |
| Mn | 55 | 108888.6 | 01.95804 | ppb |
| Co | 59 | 7436.7 | 0.81183 | ppb |
| Ni | 60 | 192348.2 | 64.0552 | ppb |
| As | 75 | 119010.2 | 32.96682 | ppb |
| Se | 77 | 18582.1 | 48.88617 | ppb |
| Se | 82 | 1487.5 | 15.23785 | ppb |
| Rh | 103 | 593682.4 | | ppb |
| Cd | 111 | 145524.4 | 33.20048 | ppb |
| Cd | 114 | 338272.3 | 52.87366 | ppb |
| Sb | 121 | 468817.8 | 49.28551 | ppb |
| Sb | 123 | 367307.3 | 49.33030 | ppb |
| Hg | 165 | 869640.7 | | ppb |
| Pb | 206 | 2050140.8 | 57.9522 | ppb |
| Kr | 83 | -419.9 | | mg/L |

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Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-4h
 Sample Date: Tuesday, August 09, 2011 08:53:42
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62112.9 | ppb |
| Be | 9 | 110.7 | 1.17349 ppb |
| Sc | 45 | 291562.4 | ppb |
| Cr | 52 | 91937.2 | 44.3235 ppb |
| Co | 53 | 79907.2 | 30.3271 ppb |
| Mn | 55 | 630081.4 | 307319 ppb |
| Co | 59 | 49615.6 | 2.27578 ppb |
| Ni | 60 | 96768.9 | 27.6486 ppb |
| Fe | 75 | 149172.9 | 5.7117 ppb |
| Ca | 77 | 8042.6 | -3.11803 ppb |
| Se | 82 | 396.2 | 17.073 ppb |
| Rh | 103 | 611158 | ppb |
| Cd | 111 | 8430.9 | 2.9351 ppb |
| Cd | 114 | 1822.4 | 2.70825 ppb |
| Sb | 121 | 11149.2 | -0.21244 ppb |
| Sb | 123 | 8820 | -0.1779 ppb |
| Hg | 185 | 1041937.8 | ppb |
| Pb | 208 | 346541.6 | 8.02213 ppb |
| Kr | 83 | 8340 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5h
 Sample Date: Tuesday, August 09, 2011 08:57:54
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62597.8 | ppb |
| Be | 9 | 936.7 | 1.57221 ppb |
| Sc | 45 | 31170.0 | ppb |
| Cr | 52 | 583578 | 52.3571 ppb |
| Co | 53 | 107457.7 | 39.89438 ppb |
| Mn | 55 | 773707.4 | 43.0791 ppb |
| Co | 59 | 60270.2 | 4.14187 ppb |
| Ni | 60 | 78224.6 | 25.98215 ppb |
| As | 75 | 19833.8 | 0.32195 ppb |
| Fe | 77 | 6622.4 | 2.58213 ppb |
| Se | 82 | 4927.9 | -0.39630 ppb |
| Rh | 103 | 585036.5 | ppb |
| Cd | 111 | 11218.5 | 4.11016 ppb |
| Cd | 114 | 24559.9 | 3.82189 ppb |
| Sb | 121 | 14706.7 | 0.4113 ppb |
| Sb | 123 | 1138.2 | 0.29115 ppb |
| Hg | 185 | 935578.2 | ppb |
| Pb | 208 | 454084.5 | 11.26242 ppb |
| Kr | 83 | -8087.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5h
 Sample Date: Tuesday, August 09, 2011 08:57:54
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62677.3 | ppb |
| Be | 9 | 1017.1 | 1.73501 ppb |
| Sc | 45 | 32209.5 | ppb |
| Cr | 52 | 570485.8 | 52.8036 ppb |
| Co | 53 | 107832.5 | 40.3357 ppb |
| Mn | 55 | 805878.2 | 44.72354 ppb |
| Co | 59 | 82062.8 | 4.2377 ppb |
| Ni | 60 | 77134.4 | 25.88491 ppb |
| Fe | 75 | 18944.2 | 0.3388 ppb |
| Se | 77 | 6658.8 | 2.39238 ppb |
| Se | 82 | 4410.6 | 19.7206 ppb |
| Rh | 103 | 699402.5 | ppb |
| Cd | 111 | 11369.2 | 4.14515 ppb |
| Cd | 114 | 24444.7 | 3.77291 ppb |
| Sb | 121 | 14660.3 | 0.27223 ppb |
| Sb | 123 | 11398.2 | 0.28313 ppb |
| Hg | 185 | 976036.5 | ppb |
| Pb | 208 | 41807.1 | 11.54485 ppb |
| Kr | 83 | -8670.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5h
 Sample Date: Tuesday, August 09, 2011 09:00:13
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62654.7 | ppb |
| Be | 9 | 1171.7 | 1.89655 ppb |
| Sc | 45 | 3719.8 | ppb |
| Cr | 52 | 699211.7 | 60.4711 ppb |
| Co | 53 | 116229.5 | 48.30554 ppb |
| Mn | 55 | 988407.1 | 50.08359 ppb |
| Co | 59 | 72844.9 | 5.08556 ppb |
| Ni | 60 | 47022.8 | 28.69075 ppb |
| As | 75 | 20659.1 | 0.47441 ppb |
| Fe | 77 | 7322.3 | -2.10735 ppb |
| Se | 82 | 3391.2 | 15.3146 ppb |
| Rh | 103 | 580723.4 | ppb |
| Cd | 111 | 12725 | 4.58345 ppb |
| Cd | 114 | 28889.8 | 2.25345 ppb |
| Sb | 121 | 10559.7 | 0.43187 ppb |
| Sb | 123 | 12798.7 | 0.17148 ppb |
| Hg | 185 | 903628.8 | ppb |
| Pb | 208 | 523712.0 | 13.06437 ppb |
| Kr | 83 | -10467.4 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-4h
 Sample Date: Tuesday, August 09, 2011 09:07:22
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62048.8 | ppb |
| Be | 9 | 25926.9 | 45.35974 ppb |
| Sc | 45 | 37737.6 | ppb |
| Cr | 52 | 1189840.5 | 111.83158 ppb |
| Co | 53 | 179626 | 100.7078 ppb |
| Mn | 55 | 1819822.4 | 1081144 ppb |
| Co | 59 | 811222.3 | 87.62262 ppb |
| Ni | 60 | 27089.5 | 82.21588 ppb |
| As | 75 | 130759.5 | 80.30082 ppb |
| Se | 77 | 16480.2 | 52.6333 ppb |
| Fe | 77 | 15080.9 | 88.87895 ppb |
| Rh | 103 | 57020.4 | ppb |
| Cd | 111 | 147254.3 | 95.05418 ppb |
| Cd | 114 | 342900 | 55.3459 ppb |
| Sb | 121 | 46592.7 | 49.82752 ppb |
| Sb | 123 | 35207.2 | 48.29258 ppb |
| Hg | 185 | 903818.7 | ppb |
| Pb | 208 | 2403073.4 | 62.49882 ppb |
| Kr | 83 | -10118.3 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC 816 1
 Sample Date: Tuesday, August 09, 2011 09:04:34
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 80183.8 | ppb |
| Be | 9 | 3.7 | -0.00015 ppb |
| Sc | 45 | 257360.4 | ppb |
| Cr | 52 | 13871.7 | -0.38431 ppb |
| Co | 53 | 38592.4 | 14.01981 ppb |
| Mn | 55 | 28405.8 | 0.073 ppb |
| Co | 59 | 200.7 | -0.02233 ppb |
| Ni | 60 | 770 | -0.00313 ppb |
| As | 75 | -495.5 | -0.65503 ppb |
| Se | 77 | 4988.7 | -20.41587 ppb |
| Se | 82 | 25.7 | -0.01712 ppb |
| Rh | 103 | 602654.4 | ppb |
| Cd | 111 | 52.8 | -0.0437 ppb |
| Cd | 114 | 87 | -0.0384 ppb |
| Sb | 121 | 829 | -1.27314 ppb |
| Sb | 123 | 487.5 | -1.29544 ppb |
| Hg | 185 | 1017827.3 | ppb |
| Pb | 208 | 10672.5 | -0.6333 ppb |
| Kr | 83 | 78.4 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Ed 4
 Sample Date: Tuesday, August 09, 2011 09:04:11
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|-----------|--------------|------------------|
| Li | 6 | 15365.3 | | ppb |
| Ba | 9 | 52402.3 | 80.0973 | ppb |
| Sc | 45 | 220942.1 | | ppb |
| Cr | 52 | 115354.4 | 172.35224 | ppb |
| Cr | 53 | 181463.2 | 80.2763 | ppb |
| Mn | 55 | 182202.1 | 102.88775 | ppb |
| Co | 59 | 15159.7 | 88.8675 | ppb |
| Ni | 63 | 323311.2 | 103.0178 | ppb |
| As | 75 | 238623.4 | 101.6781 | ppb |
| Se | 77 | 24343.2 | 83.55717 | ppb |
| Sa | 82 | 25168.6 | 101.1707 | ppb |
| Rh | 103 | 622141.8 | | ppb |
| Cd | 111 | 309249.5 | 108.1039 | ppb |
| Cd | 114 | 729286 | 107.49352 | ppb |
| Sb | 121 | 696427.5 | 96.88087 | ppb |
| Sb | 123 | 754942.5 | 97.02816 | ppb |
| Ho | 165 | 1036136.1 | | ppb |
| Pb | 208 | 4855910.6 | 10.11497 | ppb |
| Kr | 83 | -2028.9 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: LRB
 Sample Date: Tuesday, August 09, 2011 09:00:00
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|----------|--------------|------------------|
| Li | 6 | 4300.5 | | ppb |
| Be | 9 | 8.7 | -0.01235 | ppb |
| Sc | 45 | 156021.7 | | ppb |
| Cr | 52 | 103061 | 10.28353 | ppb |
| Cr | 53 | 1843.1 | 24.68004 | ppb |
| Mn | 55 | 213484.6 | 17.2181 | ppb |
| Co | 59 | 1633.2 | 0.15883 | ppb |
| Ni | 63 | 20626.6 | 8.30023 | ppb |
| As | 75 | -117.5 | -0.1113 | ppb |
| Se | 77 | 59.7 | -0.74135 | ppb |
| Se | 82 | 11 | -0.00879 | ppb |
| Rh | 103 | 471040.1 | | ppb |
| Cd | 111 | 67.4 | 0.23286 | ppb |
| Cd | 114 | 1482.9 | 0.2344 | ppb |
| Sb | 121 | 194759.1 | 20.2332 | ppb |
| Sb | 123 | 146736.8 | 21.12917 | ppb |
| Ho | 165 | 919899.9 | | ppb |
| Pb | 208 | 404223.9 | 10.73621 | ppb |
| Kr | 83 | -14 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: LRB
 Sample Date: Tuesday, August 09, 2011 06:11:00
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|-----------|--------------|------------------|
| Li | 6 | 5733.1 | | ppb |
| Be | 9 | 3182.7 | 80.84416 | ppb |
| Sc | 45 | 20489.6 | | ppb |
| Cr | 52 | 103307.2 | 100.07725 | ppb |
| Cr | 53 | 12740.8 | 65.61253 | ppb |
| Mn | 55 | 171032.2 | 108.43376 | ppb |
| Co | 59 | 12622.7 | 85.71835 | ppb |
| Ni | 63 | 289229.6 | 6.18745 | ppb |
| As | 75 | 14366.1 | 70.48717 | ppb |
| Se | 77 | 10536.1 | 20.23363 | ppb |
| Se | 82 | 13942.1 | 67.03683 | ppb |
| Rh | 103 | 538259.9 | | ppb |
| Cd | 111 | 209416.7 | 85.03979 | ppb |
| Cd | 114 | 494823.6 | 83.24136 | ppb |
| Sb | 121 | 772347.1 | 84.04785 | ppb |
| Sb | 123 | 591199.9 | 84.25108 | ppb |
| Ho | 165 | 951071.1 | | ppb |
| Pb | 208 | 4010500.6 | 105.60219 | ppb |
| Kr | 83 | 34.7 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-1b
 Sample Date: Tuesday, August 09, 2011 08:13:14
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|----------|--------------|------------------|
| Li | 6 | 44306.7 | | ppb |
| Be | 9 | 38.3 | 0.05331 | ppb |
| Sc | 45 | 17752.7 | | ppb |
| Cr | 52 | 186335.8 | 17.543 | ppb |
| Cr | 53 | 24114.7 | 20.17686 | ppb |
| Mn | 55 | 17069.9 | 23.0326 | ppb |
| Co | 59 | 787.4 | 0.63866 | ppb |
| Ni | 63 | 48319.8 | 19.89187 | ppb |
| As | 75 | 16780 | -8.8487 | ppb |
| Se | 77 | 20681.8 | 108.6219 | ppb |
| Sa | 82 | 27455.5 | 154.14621 | ppb |
| Rh | 103 | 472088.6 | | ppb |
| Cd | 111 | 14141.8 | 6.46816 | ppb |
| Cd | 114 | 33085.3 | 6.41879 | ppb |
| Sb | 121 | 5712.5 | -0.70436 | ppb |
| Sb | 123 | 4418.7 | -0.67898 | ppb |
| Ho | 165 | 648315.8 | | ppb |
| Pb | 208 | 372883 | 8.5705 | ppb |
| Kr | 83 | -804.6 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-2b
 Sample Date: Tuesday, August 09, 2011 09:15:22
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|----------|--------------|------------------|
| Li | 6 | 51460.6 | | ppb |
| Be | 9 | 42.3 | 0.0573 | ppb |
| Sc | 45 | 180365 | | ppb |
| Cr | 52 | 365708 | 23.41172 | ppb |
| Cr | 53 | 48883.7 | 1.18085 | ppb |
| Mn | 55 | 470105.7 | 30.3833 | ppb |
| Co | 59 | 12941.2 | 7.01684 | ppb |
| Ni | 63 | 324023.8 | 128.85558 | ppb |
| As | 75 | 15217.8 | 7.40728 | ppb |
| Se | 77 | 16485.3 | 68.03631 | ppb |
| Sa | 82 | 22433.4 | 118.93728 | ppb |
| Rh | 103 | 496820 | | ppb |
| Cd | 111 | 3383.2 | 1.41373 | ppb |
| Cd | 114 | 7378.9 | 1.31416 | ppb |
| Sb | 121 | 5386.4 | -0.62084 | ppb |
| Sb | 123 | 4627.7 | -0.61418 | ppb |
| Ho | 165 | 904916.4 | | ppb |
| Pb | 208 | 336047.8 | 8.07203 | ppb |
| Kr | 83 | -1094.9 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-2b
 Sample Date: Tuesday, August 09, 2011 09:17:14
 Sample Description:
 Concentration Results:

| Analyte | Mass | Mean | Intern Conc. | Mean Report Unit |
|---------|------|----------|--------------|------------------|
| Li | 6 | 5443.4 | | ppb |
| Be | 9 | 41.3 | 0.04844 | ppb |
| Sc | 45 | 220366.7 | | ppb |
| Cr | 52 | 382252.7 | 38.47156 | ppb |
| Cr | 53 | 49917.5 | 0.64001 | ppb |
| Mn | 55 | 491910.6 | 30.03662 | ppb |
| Co | 59 | 13168.7 | 0.93875 | ppb |
| Ni | 63 | 53122.1 | 127.18577 | ppb |
| As | 75 | 15523.9 | 7.29116 | ppb |
| Se | 77 | 17267.4 | 68.0308 | ppb |
| Sa | 82 | 33854.1 | 118.46568 | ppb |
| Rh | 103 | 51807.5 | | ppb |
| Cd | 111 | 3411.6 | 1.3754 | ppb |
| Cd | 114 | 7574.5 | 1.29456 | ppb |
| Sb | 121 | 6114.1 | -0.63364 | ppb |
| Sb | 123 | 7130.8 | -0.60816 | ppb |
| Ho | 165 | 912889.6 | | ppb |
| Pb | 208 | 330144.1 | 8.78424 | ppb |
| Kr | 83 | -1151.9 | | mg/L |

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Method 6200 & 200.8 Metals Summary Report
 Sample ID: 17131-3bb
 Sample Date: Tuesday, August 09, 2011 05:19:41
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 52964.8 | ppb |
| Be | 9 | 18 | 0.00006 ppb |
| B | 45 | 105800.8 | ppb |
| Cr | 52 | 133191.1 | 12.31911 ppb |
| Cr | 53 | 18107.7 | -28.98114 ppb |
| Mn | 55 | 750107.1 | 21.02173 ppb |
| Co | 59 | 30399.5 | 2.38658 ppb |
| Ni | 60 | 4275.2 | 15.00019 ppb |
| As | 75 | 7059.7 | 4.16081 ppb |
| Se | 77 | 11347.4 | -9.82753 ppb |
| Se | 82 | 14483.3 | 72.7808 ppb |
| Rh | 103 | 230236.3 | ppb |
| Cd | 111 | 7014.9 | 2.87717 ppb |
| Cd | 114 | 15398.7 | 2.14868 ppb |
| Sb | 121 | 3018.5 | -1.00407 ppb |
| Sb | 123 | 2268.4 | -0.89376 ppb |
| Hg | 165 | 957.198 | ppb |
| Pb | 208 | 226112.2 | 6.72651 ppb |
| Kr | 83 | -203.1 | mg/L |

Method 6200 & 200.8 Metals Summary Report
 Sample ID: 17131-3bb
 Sample Date: Tuesday, August 09, 2011 05:21:52
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 58202.9 | ppb |
| Be | 9 | 13398.4 | 26.25734 ppb |
| Se | 45 | 219445.1 | ppb |
| Cr | 52 | 599548.9 | 51.57238 ppb |
| Cr | 53 | 73423.8 | 12.6115 ppb |
| Mn | 55 | 1073308.7 | 59.0273 ppb |
| Co | 59 | 3887.17 | 40.59011 ppb |
| Ni | 60 | 154490.8 | 50.98485 ppb |
| As | 75 | 1037.80 | 43.78857 ppb |
| As | 76 | 20009 | 65.18054 ppb |
| Se | 82 | 28909.6 | 115.27143 ppb |
| Rh | 103 | 699150.2 | ppb |
| Cd | 111 | 83286.1 | 33.82806 ppb |
| Cd | 114 | 221323.3 | 34.04462 ppb |
| Sb | 121 | 534108.9 | 29.1311 ppb |
| Sb | 123 | 240054.9 | 2.37795 ppb |
| Hg | 165 | 1117480.8 | ppb |
| Pb | 208 | 2247731.4 | 50.16183 ppb |
| Kr | 83 | -186.1 | mg/L |

Method 6200 & 200.8 Metals Summary Report
 Sample ID: 17131-4bb
 Sample Date: Tuesday, August 09, 2011 05:21:01
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 6544 | ppb |
| Be | 9 | 27 | 0.02734 ppb |
| B | 45 | 177990.4 | ppb |
| Cr | 52 | 291712.5 | 28.14347 ppb |
| Cr | 53 | 44908.5 | 10.10727 ppb |
| Mn | 55 | 201062 | 24.18342 ppb |
| Co | 59 | 7125.5 | 0.71741 ppb |
| Ni | 60 | 47915 | 24.41587 ppb |
| As | 75 | 242398.4 | 187.87185 ppb |
| As | 77 | 140890.7 | 1261.1629 ppb |
| Se | 82 | 189149.1 | 1300.798 ppb |
| Rh | 103 | 382736.7 | ppb |
| Cd | 111 | 5429.4 | 3.01953 ppb |
| Cd | 114 | 11728.3 | 2.13874 ppb |
| Sb | 121 | 5398.3 | -0.34478 ppb |
| Sb | 123 | 4088.7 | -1.33318 ppb |
| Hg | 165 | 71556.3 | ppb |
| Pb | 208 | 274543.3 | 11.13895 ppb |
| Kr | 83 | 1892.4 | mg/L |

Method 6200 & 200.8 Metals Summary Report
 Sample ID: 17131-5bb
 Sample Date: Tuesday, August 09, 2011 05:26:11
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 47859.3 | ppb |
| Be | 9 | 34.3 | 0.04407 ppb |
| Se | 45 | 170224.6 | ppb |
| Cr | 52 | 28274.2 | 36.67008 ppb |
| Cr | 53 | 40721.8 | 3.15521 ppb |
| Mn | 55 | 391433.6 | 91.39137 ppb |
| Co | 59 | 8710.2 | 0.95023 ppb |
| Ni | 60 | 98082.8 | 47.44235 ppb |
| As | 75 | 225597.7 | 179.97939 ppb |
| As | 77 | 64898.1 | 795.584 ppb |
| Se | 82 | 157717.3 | 135.24803 ppb |
| Rh | 103 | 388418.5 | ppb |
| Cd | 111 | 17973.2 | 8.98572 ppb |
| Cd | 114 | 33096.3 | 8.87884 ppb |
| Sb | 121 | 4028.2 | -0.62261 ppb |
| Sb | 123 | 3037.9 | -0.61122 ppb |
| Hg | 165 | 591722 | ppb |
| Pb | 208 | 200057.4 | 0.11635 ppb |
| Kr | 83 | 171.4 | mg/L |

Method 6200 & 200.8 Metals Summary Report
 Sample ID: 17131-5bb
 Sample Date: Tuesday, August 09, 2011 05:26:11
 Sample Description: Airtech
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 43712.5 | ppb |
| Be | 9 | 27 | 0.04407 ppb |
| Se | 45 | 170128.2 | ppb |
| Cr | 52 | 284391.4 | 27.4511 ppb |
| Cr | 53 | 30930.7 | -1.74378 ppb |
| Mn | 55 | 383983.5 | 33.11228 ppb |
| Co | 59 | 9627.4 | 1.00278 ppb |
| Ni | 60 | 104344.5 | 63.91153 ppb |
| As | 75 | 217153.4 | 158.83433 ppb |
| Se | 77 | 83487.3 | 836.9673 ppb |
| Se | 82 | 127345.4 | 800.25284 ppb |
| Rh | 103 | 374885.3 | ppb |
| Cd | 111 | 17818.2 | 10.10674 ppb |
| Cd | 114 | 36734.2 | 8.40721 ppb |
| Sb | 121 | 3889.2 | -0.63951 ppb |
| Sb | 123 | 2977.8 | -0.57873 ppb |
| Hg | 165 | 552881.1 | ppb |
| Pb | 208 | 189271.1 | 0.68885 ppb |
| Kr | 83 | 1495.7 | mg/L |

Method 6200 & 200.8 Metals Summary Report
 Sample ID: GC 2-11
 Sample Date: Tuesday, August 09, 2011 09:10:31
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 17333.2 | ppb |
| Be | 9 | 8.3 | -0.02574 ppb |
| Cr | 52 | 297346 | ppb |
| Cr | 53 | 14850 | -0.32368 ppb |
| Mn | 55 | 26344.8 | -24.24022 ppb |
| Ni | 60 | 21980.1 | 0.12863 ppb |
| Co | 59 | 335.3 | -0.02115 ppb |
| Ni | 60 | 831.4 | -0.00001 ppb |
| As | 75 | -233.6 | -0.64694 ppb |
| Se | 77 | 50391.8 | 20.91674 ppb |
| Se | 82 | -5.1 | -0.15402 ppb |
| Rh | 103 | 63307.8 | ppb |
| Cd | 111 | 57.9 | -0.04273 ppb |
| Cd | 114 | 145.8 | -0.07287 ppb |
| Sb | 121 | 749.4 | -1.21107 ppb |
| Sb | 123 | 601.8 | -1.21367 ppb |
| Hg | 165 | 861181.7 | ppb |
| Pb | 208 | 8562.8 | -0.09163 ppb |
| Kr | 83 | 197.8 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: CC 171-4
 Sample Date: Tuesday, August 09, 2011 08:37:11
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 6 | 70124.5 | | ppb |
| Be | 9 | 60415.2 | 94.16 | ppb |
| B | 11 | 302576.8 | | ppb |
| Cr | 52 | 174372.2 | 111.38912 | ppb |
| Co | 59 | 18615.9 | 87.08674 | ppb |
| Mn | 55 | 221889.8 | 113.2855 | ppb |
| Ni | 60 | 1878410.5 | 104.13889 | ppb |
| As | 75 | 354727.2 | 107.891 | ppb |
| Sr | 87 | 201007.1 | 105.70737 | ppb |
| Se | 77 | 25471.3 | 88.16297 | ppb |
| Rh | 103 | 28233.4 | 106.43615 | ppb |
| Cd | 111 | 311577.3 | 107.73413 | ppb |
| Cd | 114 | 32712.6 | 103.3861 | ppb |
| Sb | 121 | 988542.2 | 101.5253 | ppb |
| Sb | 123 | 76851.8 | 102.44749 | ppb |
| Hg | 165 | 1017328.6 | | ppb |
| Pb | 208 | 4337810.7 | 104.31155 | ppb |
| Kr | 83 | -20922.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-61h
 Sample Date: Tuesday, August 09, 2011 08:34:51
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 6 | 44797.5 | | ppb |
| Be | 9 | 21.7 | 0.01585 | ppb |
| B | 11 | 187387.2 | | ppb |
| Cr | 52 | 230327.4 | 34.17146 | ppb |
| Co | 59 | 33587.9 | -1.14117 | ppb |
| Mn | 55 | 547138.3 | 43.472 | ppb |
| Co | 59 | 28198.1 | 2.80225 | ppb |
| Ni | 60 | 48482.4 | 25.73879 | ppb |
| As | 75 | 173275.4 | 1.47111 | ppb |
| Se | 77 | 85285.8 | 560.3707 | ppb |
| Se | 82 | 95293.6 | 822.79827 | ppb |
| Rh | 103 | 97350 | | ppb |
| Cd | 111 | 5837.1 | 3.439 | ppb |
| Cd | 114 | 5866.6 | 1.4673 | ppb |
| Sb | 121 | 10787.4 | 0.689 | ppb |
| Sb | 123 | 8325.6 | 0.71158 | ppb |
| Hg | 165 | 969797.5 | | ppb |
| Pb | 208 | 221448.9 | 8.53767 | ppb |
| Kr | 83 | 1212.2 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-7bh
 Sample Date: Tuesday, August 09, 2011 08:37:02
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 6 | 44688 | | ppb |
| Be | 9 | 132247 | 32.28389 | ppb |
| B | 11 | 188477.7 | | ppb |
| Cr | 52 | 812214.3 | 76.786 | ppb |
| Co | 59 | 75243.5 | 50.57158 | ppb |
| Mn | 55 | 1037257.3 | 95.9282 | ppb |
| Co | 59 | 430288.2 | 47.8974 | ppb |
| Ni | 60 | 173580.2 | 73.73883 | ppb |
| As | 75 | 317873.3 | 230.21514 | ppb |
| Sr | 77 | 74021.1 | 670.7083 | ppb |
| Se | 62 | 88304.3 | 711.13729 | ppb |
| Rh | 103 | 386387.2 | | ppb |
| Cd | 111 | 30230.4 | 29.31658 | ppb |
| Cd | 114 | 106722.2 | 27.30275 | ppb |
| Sb | 121 | 257287.3 | 97.1434 | ppb |
| Sb | 123 | 198112.9 | 45.05108 | ppb |
| Hg | 165 | 582825.6 | | ppb |
| Pb | 208 | 1385593.2 | 68.52816 | ppb |
| Kr | 83 | 579.2 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-7bh
 Sample Date: Tuesday, August 09, 2011 08:38:11
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|----------|-------------------|
| Li | 6 | 3945.4 | | ppb |
| Be | 9 | 18 | 0.00254 | ppb |
| B | 11 | 176591.0 | | ppb |
| Cr | 52 | 53836.3 | 4.23915 | ppb |
| Co | 59 | 6013.5 | -7.38184 | ppb |
| Mn | 55 | 188473.9 | 11.78808 | ppb |
| Co | 59 | 17851.5 | 1.41235 | ppb |
| Ni | 60 | 10811.3 | 4.05888 | ppb |
| As | 75 | 238.1 | -0.60842 | ppb |
| Se | 77 | 230 | -1.38821 | ppb |
| Se | 82 | 5.4 | 0.02273 | ppb |
| Rh | 103 | 500178.6 | | ppb |
| Cd | 111 | 786.3 | 0.11054 | ppb |
| Cd | 114 | -1087.8 | -0.24889 | ppb |
| Sb | 121 | 1416.4 | -1.18887 | ppb |
| Sb | 123 | 1103 | -1.17404 | ppb |
| Hg | 165 | 1035102.6 | | ppb |
| Pb | 208 | 14782.3 | 4.18315 | ppb |
| Kr | 83 | -480 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: CC 171-4
 Sample Date: Tuesday, August 09, 2011 08:41:22
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|----------|-------------------|
| Li | 6 | 75107.5 | | ppb |
| Be | 9 | 11 | -0.00242 | ppb |
| B | 11 | 721932.5 | | ppb |
| Cr | 52 | 15535.1 | -0.34659 | ppb |
| Co | 59 | 23899.9 | -24.3853 | ppb |
| Mn | 55 | 33258.1 | 0.22117 | ppb |
| Co | 59 | 691.7 | -0.03317 | ppb |
| Ni | 60 | 872.4 | -0.00252 | ppb |
| As | 75 | -442.3 | -0.8084 | ppb |
| Se | 77 | 5331.2 | 22.32883 | ppb |
| Se | 82 | -2.3 | -0.14228 | ppb |
| Rh | 103 | 881917.2 | | ppb |
| Cd | 111 | 10.5 | -0.03284 | ppb |
| Cd | 114 | 117.5 | -0.02723 | ppb |
| Sb | 121 | 831.4 | -1.27481 | ppb |
| Sb | 123 | 489 | -1.25487 | ppb |
| Hg | 165 | 1083671.7 | | ppb |
| Pb | 208 | 10028.1 | -0.09615 | ppb |
| Kr | 83 | 172.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: CC 171-4
 Sample Date: Tuesday, August 09, 2011 08:43:32
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens | Conc. | Meas. Report Unit |
|---------|------|--------------|-----------|-------------------|
| Li | 6 | 82247.7 | | ppb |
| Be | 9 | 65714.2 | 89.21088 | ppb |
| B | 11 | 291512.2 | | ppb |
| Cr | 52 | 1240081.0 | 108.87116 | ppb |
| Co | 59 | 173140 | 87.2102 | ppb |
| Mn | 55 | 2027894.8 | 111.29815 | ppb |
| Co | 59 | 1552710.3 | 103.80884 | ppb |
| Ni | 60 | 73912.1 | 108.46282 | ppb |
| As | 75 | 740328.1 | 104.80371 | ppb |
| Se | 77 | 22870.4 | 84.49818 | ppb |
| Se | 82 | 23853.3 | 103.25187 | ppb |
| Rh | 103 | 80838.35 | | ppb |
| Cd | 111 | 285171.4 | 102.185 | ppb |
| Cd | 114 | 668354.1 | 100.011 | ppb |
| Sb | 121 | 988755.5 | 101.88053 | ppb |
| Sb | 123 | 715026 | 101.7942 | ppb |
| Hg | 165 | 88322.2 | | ppb |
| Pb | 208 | 335427.4 | 101.18033 | ppb |
| Kr | 83 | -19161.3 | | mg/L |

PerkinElmer ELAN 8100 ICP-MS

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 1

Sample Date/Time: August 08, 2011 05:51:22

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 8235.63 | ppb |
| Be | 9 | 3.7 | 0.0167 ppb |
| B | 45 | 202319.3 | ppb |
| Cr | 52 | 14833.0 | -0.19173 ppb |
| Mn | 55 | 292052.7 | -19.87002 ppb |
| Co | 59 | 28522.8 | 0.29975 ppb |
| Ni | 60 | 873.7 | 0.02793 ppb |
| Cu | 63 | 800 | -0.02823 ppb |
| Zn | 75 | 245.7 | -0.7175 ppb |
| Se | 77 | 4983.6 | -0.2270 ppb |
| Te | 127 | 39.7 | 0.05572 ppb |
| Rh | 103 | 56094.2 | ppb |
| Cd | 111 | 339.6 | 0.6211 ppb |
| Ce | 114 | 764.8 | 0.07545 ppb |
| U | 121 | 1123.1 | -1.20217 ppb |
| Sr | 123 | 730.2 | -1.19599 ppb |
| Hg | 195 | 8.3290 | ppb |
| Pb | 208 | 11230.8 | 0.01813 ppb |
| Kr | 83 | 115.3 | mg/L |

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 2

Sample Date/Time: August 08, 2011 08:26:31

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 66142.5 | ppb |
| Be | 9 | 62.7 | 0.89878 ppb |
| B | 45 | 275960.6 | ppb |
| Cr | 52 | 282.2 | 0.89291 ppb |
| Mn | 55 | 30772.0 | -19.89794 ppb |
| Co | 59 | 40322.0 | 0.80033 ppb |
| Ni | 60 | 16772.8 | 1.12191 ppb |
| Cu | 63 | 5982 | 1.6442 ppb |
| Zn | 75 | 2065.1 | 0.15442 ppb |
| Se | 77 | 710.3 | -1.1575 ppb |
| Te | 127 | 245.7 | 0.96449 ppb |
| Rh | 103 | 594710.3 | ppb |
| Cd | 111 | 3186.2 | 1.10435 ppb |
| Ce | 114 | 7497.2 | 1.10886 ppb |
| U | 121 | 10563.8 | -1.12051 ppb |
| Sr | 123 | 8156.2 | -0.09125 ppb |
| Hg | 195 | 919788.9 | ppb |
| Pb | 208 | 53391.6 | 1.16029 ppb |
| Kr | 83 | -65.3 | mg/L |

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 3

Sample Date/Time: August 08, 2011 08:56:41

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 13636.7 | ppb |
| Be | 9 | 128909.2 | 480.96121 ppb |
| B | 45 | 173500.1 | ppb |
| Cr | 52 | 2811967.8 | 544.8489 ppb |
| Mn | 55 | 355293.4 | 542.28918 ppb |
| Co | 59 | 4489138.1 | 540.32175 ppb |
| Ni | 60 | 3449130.0 | 602.78059 ppb |
| Cu | 63 | 711812.6 | 607.83448 ppb |
| Zn | 75 | 534850.6 | 611.28226 ppb |
| Se | 77 | 44854.7 | 628.91225 ppb |
| Te | 127 | 52691.8 | 601.86682 ppb |
| Rh | 103 | 27311.8 | ppb |
| Cd | 111 | 638590.8 | 660.03427 ppb |
| Ce | 114 | 1473820.8 | 652.27219 ppb |
| U | 121 | 2124447.5 | 608.96209 ppb |
| Sr | 123 | 197882.9 | 608.79672 ppb |
| Hg | 195 | 439197.6 | ppb |
| Pb | 208 | 8708178.4 | 601.15079 ppb |
| Kr | 83 | -43226.6 | mg/L |

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 4

Sample Date/Time: August 08, 2011 10:00:51

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 70007.8 | ppb |
| Be | 9 | 5863.8 | 67.32779 ppb |
| B | 45 | 280882.1 | ppb |
| Cr | 52 | 1323242.0 | 160.12292 ppb |
| Mn | 55 | 1401980.6 | 61.38155 ppb |
| Co | 59 | 2188068.0 | 112.80131 ppb |
| Ni | 60 | 1632714.2 | 103.63167 ppb |
| Cu | 63 | 344723.7 | 105.64839 ppb |
| Zn | 75 | 259242.5 | 104.44642 ppb |
| Se | 77 | 25189.5 | 86.02873 ppb |
| Te | 127 | 28228.9 | 107.45223 ppb |
| Rh | 103 | 61822.1 | ppb |
| Cd | 111 | 306006.0 | 104.10290 ppb |
| Ce | 114 | 730597.1 | 104.14117 ppb |
| U | 121 | 1007381.2 | 101.88531 ppb |
| Sr | 123 | 765945.3 | 100.80762 ppb |
| Hg | 195 | 102805.5 | ppb |
| Pb | 208 | 4287853.4 | 104.6237 ppb |
| Kr | 83 | -80793.0 | mg/L |

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 5

Sample Date/Time: August 08, 2011 10:00:02

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 72557.6 | ppb |
| Be | 9 | 29308.5 | 44.83863 ppb |
| B | 45 | 300214.8 | ppb |
| Cr | 52 | 67581.8 | 53.42078 ppb |
| Mn | 55 | 108719.8 | 32.39754 ppb |
| Co | 59 | 1652701.1 | 63.10586 ppb |
| Ni | 60 | 610593.3 | 60.03052 ppb |
| Cu | 63 | 172023.0 | 51.7129 ppb |
| Zn | 75 | 127230.4 | 50.9228 ppb |
| Se | 77 | 14665.2 | 29.72040 ppb |
| Te | 127 | 12894.5 | 31.65291 ppb |
| Rh | 103 | 155208.3 | ppb |
| Cd | 111 | 154575.4 | 61.77560 ppb |
| Ce | 114 | 112272.8 | 60.71590 ppb |
| U | 121 | 494882.6 | 48.4415 ppb |
| Sr | 123 | 37886.0 | 48.14862 ppb |
| Hg | 195 | 103753.3 | ppb |
| Pb | 208 | 2111768.4 | 60.7384 ppb |
| Kr | 83 | 111.7 | mg/L |

Method 8220 & 200.8 Metals Summary Report

Sample ID: QC Sid 7

Sample Date/Time: August 08, 2011 10:05:11

Sample Description:

Concentration Results:

| Analyte | Mass | Meas. Inters. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 17467 | ppb |
| Be | 9 | 301 | 0.54132 ppb |
| B | 45 | 282411.6 | ppb |
| Cr | 52 | 162386.3 | 12.8952 ppb |
| Mn | 55 | 55180.2 | 1.11804 ppb |
| Co | 59 | 250633.9 | 1.40386 ppb |
| Ni | 60 | 31081.2 | 22.2714 ppb |
| Cu | 63 | 6345.3 | 21.88386 ppb |
| Zn | 75 | 22853.0 | 8.9632 ppb |
| Se | 77 | 107.74 | 14.18037 ppb |
| Te | 127 | 2282.5 | 10.58116 ppb |
| Rh | 103 | 62378.4 | ppb |
| Cd | 111 | 14788.0 | 8.818 ppb |
| Ce | 114 | 38888.0 | 6.26731 ppb |
| U | 121 | 75.0 | -0.54893 ppb |
| Sr | 123 | 57.631 | -0.52 ppb |
| Hg | 195 | 104236.3 | ppb |
| Pb | 208 | 34062 | 0.54743 ppb |
| Kr | 83 | -82 | mg/L |

PerkinElmer ELAN 8100 ICP-AES

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 8
 Sample Date: Tuesday, August 09, 2011 10:07:21

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 100212 | ppb |
| Be | 9 | 368.7 | 0.35222 ppb |
| Sc | 45 | 41626.3 | ppb |
| Cr | 52 | 42380 | 0.88435 ppb |
| Mn | 55 | 56568.1 | -15.73138 ppb |
| Fe | 57 | 77345.8 | 1.49501 ppb |
| Co | 59 | 10358 | 0.42585 ppb |
| Ni | 60 | 12910 | 2.4226 ppb |
| As | 75 | 751.4 | -0.51589 ppb |
| Sb | 77 | 8454.6 | -10.31412 ppb |
| Rh | 82 | 191 | -1148.1 ppb |
| Rh | 103 | 85333.7 | ppb |
| Cd | 111 | 1557.7 | 0.30365 ppb |
| Cd | 114 | 3332 | 0.28133 ppb |
| Sb | 121 | 5502.1 | -0.81307 ppb |
| Sb | 123 | 4221.6 | -0.91807 ppb |
| Hg | 163 | 1455252.9 | ppb |
| Pb | 208 | 45228.6 | 0.17775 ppb |
| Kr | 83 | 71.5 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: LC Std 9
 Sample Date: Tuesday, August 09, 2011 10:08:33

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 87019.2 | ppb |
| Be | 9 | 7 | -0.02538 ppb |
| Sc | 45 | 265420.7 | ppb |
| Cr | 52 | 27233.1 | 0.73648 ppb |
| Cr | 55 | 10181.5 | -36.33149 ppb |
| Mn | 55 | 117138.1 | 4.80734 ppb |
| Co | 59 | 1602.5 | 0.02677 ppb |
| Mn | 60 | 2253.7 | 0.45412 ppb |
| As | 75 | 289.3 | -0.8005 ppb |
| Se | 77 | 618.7 | -1.25212 ppb |
| Se | 82 | 26.7 | -0.01985 ppb |
| Rh | 103 | 613704.9 | ppb |
| Cd | 111 | 95.8 | -0.02978 ppb |
| Cd | 114 | 332.3 | -0.01862 ppb |
| Sb | 121 | 47807.3 | 3.51581 ppb |
| Sb | 123 | 33911.8 | 3.4815 ppb |
| Hg | 163 | 1031580.5 | ppb |
| Pb | 208 | 36152.4 | 0.57654 ppb |
| Kr | 83 | 83.6 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: LC Std 10
 Sample Date: Tuesday, August 09, 2011 10:11:43

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 69654.4 | ppb |
| Be | 9 | 20426.3 | 33.94794 ppb |
| Sc | 45 | 263559.4 | ppb |
| Cr | 52 | 695892.4 | 67.07383 ppb |
| Cr | 53 | 85053.4 | 19.92485 ppb |
| Mn | 55 | 1176570.9 | 63.37351 ppb |
| Cu | 59 | 75508.1 | 46.48174 ppb |
| Ni | 60 | 162282 | 51.54004 ppb |
| As | 75 | 86889.8 | 35.9888 ppb |
| Se | 77 | 6785.7 | -14.28582 ppb |
| Se | 82 | 7549.7 | 32.48435 ppb |
| Rh | 103 | 614355.4 | ppb |
| Cd | 111 | 114635.8 | 40.473 ppb |
| Cd | 114 | 26746 | -0.11273 ppb |
| Sb | 121 | 373877.7 | 37.58875 ppb |
| Sb | 123 | 265627.4 | 37.69891 ppb |
| Hg | 163 | 1007945.9 | ppb |
| Pb | 208 | 1971826.7 | 48.81788 ppb |
| Kr | 83 | 86.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC STD 2
 Sample Date: Tuesday, August 09, 2011 10:13:51

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 72318.9 | ppb |
| Be | 9 | 884.7 | 0.89534 ppb |
| Sc | 45 | 313275.7 | ppb |
| Cr | 52 | 37074.8 | 1.75548 ppb |
| Cr | 53 | 40811.8 | 18.64465 ppb |
| Mn | 55 | 45314.7 | 0.12612 ppb |
| Mn | 59 | 18935.6 | 1.12301 ppb |
| Ni | 60 | 6742.5 | 1.6368 ppb |
| As | 75 | 2088.1 | 0.07638 ppb |
| Se | 77 | 8511.7 | -15.28175 ppb |
| Se | 82 | 3422.7 | 1.20671 ppb |
| Rh | 103 | 78217.3 | ppb |
| Cd | 111 | 3627.8 | 1.0449 ppb |
| Cd | 114 | 8635.7 | 1.13487 ppb |
| Sb | 121 | 11861.8 | -0.16368 ppb |
| Sb | 123 | 8112.2 | -0.13014 ppb |
| Hg | 163 | 1039489.1 | ppb |
| Pb | 208 | 62250.1 | 1.17003 ppb |
| Kr | 83 | -130.2 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Blank
 Sample Date: Monday, August 22, 2011 14:42:41

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 61634 | ppb |
| Be | 9 | 5.3 | ppb |
| Sc | 45 | 227972.5 | ppb |
| Cr | 52 | 17773 | ppb |
| Cr | 53 | 17136.2 | ppb |
| Mn | 55 | 3006.2 | ppb |
| Co | 59 | 142.7 | ppb |
| Ni | 60 | 5.27 | ppb |
| As | 75 | 2.28 | ppb |
| Se | 77 | 2058.2 | ppb |
| Se | 82 | 9.1 | ppb |
| Rh | 103 | 326059.4 | ppb |
| Cd | 111 | 11.2 | ppb |
| Cd | 114 | 51.8 | ppb |
| Sb | 121 | 65 | ppb |
| Sb | 123 | 4.2 | ppb |
| Hg | 163 | 87694.4 | ppb |
| Pb | 208 | 2448.8 | ppb |
| Kr | 83 | 198.5 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Standard 1
 Sample Date: Monday, August 22, 2011 14:44:51

Sample Description:
 Concentration Results

| Analyte | Mass | Mu.as. Intern Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 62073.3 | ppb |
| Be | 9 | 8.3 | 0.00204 ppb |
| Sc | 45 | 225908.8 | ppb |
| Cr | 52 | 11788 | -0.01012 ppb |
| Cr | 53 | 20678.8 | 2.65386 ppb |
| Mn | 55 | 4323.3 | 0.03615 ppb |
| Co | 59 | 1.45 | 0.00803 ppb |
| Ni | 60 | 430.3 | 0.03398 ppb |
| As | 75 | 131.4 | -0.00201 ppb |
| Se | 77 | 2073.0 | -0.02513 ppb |
| Se | 82 | 14.8 | 0.02714 ppb |
| Rh | 103 | 532885.2 | ppb |
| Cd | 111 | 54.2 | 0.01569 ppb |
| Cd | 114 | 98 | 0.00888 ppb |
| Sb | 121 | 67 | -0.00263 ppb |
| Sb | 123 | 43.4 | -0.00362 ppb |
| Hg | 163 | 951896.4 | ppb |
| Pb | 208 | 3520.3 | 0.00432 ppb |
| Kr | 83 | 163.4 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date/Time: August 22, 2011 14:47:11

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 21895.2 | ppb |
| | Be | 9 | 49433.8 | 102.75907 ppb |
| | Sc | 45 | 21022.3 | ppb |
| | Cr | 52 | 10234.2 | 100.06828 ppb |
| | Mn | 55 | 14146.3 | 107.7701 ppb |
| | Co | 59 | 1180281.2 | 96.53211 ppb |
| | Ni | 60 | 248213.7 | 104.40037 ppb |
| | As | 75 | 222303.2 | 102.28847 ppb |
| | Se | 77 | 18255.3 | 102.40583 ppb |
| | Rh | 82 | 20580.7 | 102.62317 ppb |
| | Rh | 103 | 5075.4 | ppb |
| | Cd | 111 | 270385.5 | 104.69457 ppb |
| | Cd | 114 | 841565 | 102.36175 ppb |
| | Sb | 121 | 80447.8 | 101.8702 ppb |
| | Sb | 123 | 694493.2 | 101.82888 ppb |
| | Hg | 165 | 9120.3 | ppb |
| | Pb | 208 | 4289144.6 | 104.81044 ppb |
| | Kr | 83 | -16987.4 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date/Time: August 22, 2011 14:48:11

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 56780.6 | ppb |
| | Be | 9 | 21895.5 | 494.45012 ppb |
| | Sc | 45 | 221845.2 | ppb |
| | Cr | 52 | 505170.4 | 497.9836 ppb |
| | Cr | 53 | 626102.5 | 498.4723 ppb |
| | Mn | 55 | 8041773.7 | 486.40095 ppb |
| | Co | 59 | 5984120.8 | 500.02556 ppb |
| | Ni | 60 | 1173402.5 | 489.12163 ppb |
| | Au | 75 | 873786.4 | 487.5447 ppb |
| | Se | 77 | 78914.7 | 459.62008 ppb |
| | Se | 78 | 98421.7 | 488.47731 ppb |
| | Rh | 103 | 509582.1 | ppb |
| | Cd | 111 | 1252897.1 | 499.08505 ppb |
| | Cd | 114 | 3112171.6 | 486.62264 ppb |
| | Sb | 121 | 4574787.8 | 486.63747 ppb |
| | Sb | 123 | 3485271.4 | 486.63623 ppb |
| | Hg | 165 | 63128.1 | ppb |
| | Pb | 208 | 2383812.0 | 488.07986 ppb |
| | Kr | 83 | -6862.6 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date/Time: August 22, 2011 14:51:27

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 61011.9 | ppb |
| | Be | 9 | 10.7 | 0.01203 ppb |
| | Sc | 45 | 22.714 | ppb |
| | Cr | 52 | 12424.2 | 0.0491 ppb |
| | Cr | 53 | 25974.4 | 0.22898 ppb |
| | Mn | 55 | 27119.8 | -0.31887 ppb |
| | Co | 59 | 273.3 | 0.01031 ppb |
| | Ni | 60 | 257.7 | -0.03561 ppb |
| | As | 75 | 52.1 | -0.1171 ppb |
| | Se | 77 | 7777.8 | -0.0181 ppb |
| | Se | 82 | 77.5 | 0.13482 ppb |
| | Rh | 103 | 63892.7 | ppb |
| | Cd | 111 | 47.1 | 0.01309 ppb |
| | Cd | 114 | 130.8 | 0.01163 ppb |
| | Sb | 121 | 178.3 | 0.01016 ppb |
| | Sb | 123 | 121.7 | 0.01035 ppb |
| | Hg | 165 | 847890.7 | ppb |
| | Pb | 208 | 3188.2 | 0.01711 ppb |
| | Kr | 83 | 108.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date/Time: August 22, 2011 14:53:35

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 61203.7 | ppb |
| | Be | 9 | 429 | 1.09715 ppb |
| | Sc | 45 | 224245.7 | ppb |
| | Cr | 52 | 25901.3 | 1.302 ppb |
| | Cr | 53 | 23127 | 9.85978 ppb |
| | Mn | 55 | 20388.5 | 1.71783 ppb |
| | Co | 59 | 13213.6 | 1.51813 ppb |
| | Ni | 60 | 2272.6 | 1.05861 ppb |
| | As | 75 | 2401.6 | 1.01693 ppb |
| | Se | 77 | 2527.7 | 2.71528 ppb |
| | Se | 82 | 279.2 | 1.29223 ppb |
| | Rh | 103 | 63733 | ppb |
| | Cd | 111 | 3089.4 | 1.12436 ppb |
| | Cd | 114 | 7334.1 | 1.10488 ppb |
| | Sb | 121 | 10363.6 | 1.11848 ppb |
| | Sb | 123 | 7914.1 | 1.12008 ppb |
| | Hg | 165 | 938414.9 | ppb |
| | Pb | 208 | 50388.4 | 1.14219 ppb |
| | Kr | 83 | -64.2 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date/Time: August 22, 2011 14:55:47

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 61203.7 | ppb |
| | Be | 9 | 112903.7 | 257.53902 ppb |
| | Sc | 45 | 217255.8 | ppb |
| | Cr | 52 | 259622.3 | 244.4207 ppb |
| | Cr | 53 | 310662.7 | 247.34787 ppb |
| | Mn | 55 | 3914918.2 | 238.88256 ppb |
| | Co | 59 | 2849134.2 | 243.95743 ppb |
| | Ni | 60 | 587181.1 | 245.0191 ppb |
| | As | 75 | 498872.8 | 251.57828 ppb |
| | Se | 77 | 42382 | 255.677 ppb |
| | Se | 82 | 51447.1 | 255.63326 ppb |
| | Rh | 103 | 509593.3 | ppb |
| | Cd | 111 | 878971.2 | 256.69776 ppb |
| | Cd | 114 | 198384.8 | 248.33333 ppb |
| | Sb | 121 | 2318831.2 | 254.45848 ppb |
| | Sb | 123 | 1868924.3 | 243.03372 ppb |
| | Hg | 165 | 630246 | ppb |
| | Pb | 208 | 10635407 | 284.88777 ppb |
| | Kr | 83 | -40331.7 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date/Time: August 22, 2011 14:57:56

Sample Description:

| Concentration Results | Element | Mass | Meas. Intern. Conc. | Meas. Report Unit |
|-----------------------|---------|------|---------------------|-------------------|
| | Li | 6 | 61451.0 | ppb |
| | Be | 9 | 47385.4 | 104.9726 ppb |
| | Sc | 45 | 22363.7 | ppb |
| | Cr | 52 | 102742.4 | 85.8113 ppb |
| | Cr | 53 | 145690.7 | 107.83334 ppb |
| | Mn | 55 | 151382.3 | 85.31781 ppb |
| | Co | 59 | 1178526.8 | 81.24859 ppb |
| | Ni | 60 | 248498.3 | 107.20133 ppb |
| | As | 75 | 208075.2 | 104.73882 ppb |
| | Se | 77 | 17960.5 | 107.12568 ppb |
| | Se | 82 | 21787.8 | 107.62254 ppb |
| | Rh | 103 | 611878 | ppb |
| | Cd | 111 | 270385.4 | 105.61181 ppb |
| | Cd | 114 | 858785.5 | 103.73322 ppb |
| | Sb | 121 | 928122.2 | 101.70747 ppb |
| | Sb | 123 | 704782.8 | 101.28876 ppb |
| | Hg | 165 | 931118.7 | ppb |
| | Pb | 208 | 4078528.4 | 105.14942 ppb |
| | Kr | 83 | -17302.6 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6
 Sample Date: Monday, August 22, 2011 15:00:06

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 65700.8 | ppb |
| Be | 9 | 24023 | ppb |
| Ba | 45 | 27472.8 | ppb |
| Cr | 52 | 532899.8 | ppb |
| Co | 59 | 50677 | ppb |
| Mn | 55 | 66121.7 | ppb |
| Ni | 59 | 60798.9 | ppb |
| Na | 60 | 13071.6 | ppb |
| Pb | 75 | 10694.2 | ppb |
| Se | 77 | 11981.7 | ppb |
| Si | 82 | 11300.1 | ppb |
| Rh | 103 | 54534.1 | ppb |
| Ru | 111 | 14645.4 | ppb |
| Cd | 114 | 342293.5 | ppb |
| Sb | 121 | 478118.5 | ppb |
| Bi | 123 | 38573.8 | ppb |
| Ho | 165 | 10040.3 | ppb |
| Pt | 208 | 224123.7 | ppb |
| Kr | 83 | 52.2 | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2
 Sample Date: Monday, August 22, 2011 15:02:16

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 60573.5 | ppb |
| Be | 9 | 521.3 | ppb |
| Ba | 45 | 21311.1 | ppb |
| Cr | 52 | 29181.8 | ppb |
| Co | 59 | 50767.7 | ppb |
| Mn | 55 | 19434.0 | ppb |
| Na | 60 | 12590.7 | ppb |
| Ni | 59 | 2901.8 | ppb |
| As | 75 | 2703 | ppb |
| Se | 77 | 2410.7 | ppb |
| Sa | 82 | 335.6 | ppb |
| Rh | 103 | 49753.9 | ppb |
| Cd | 114 | 2970.6 | ppb |
| Cd | 114 | 6835.1 | ppb |
| Sb | 121 | 9901.9 | ppb |
| Sb | 121 | 74.43 | ppb |
| Ho | 165 | 80124.8 | ppb |
| Pt | 208 | 47821.7 | ppb |
| Kr | 83 | 81 | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 1711-2
 Sample Date: Monday, August 22, 2011 15:04:26

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 10551.3 | ppb |
| Be | 9 | 2737.8 | ppb |
| Ba | 45 | 5205.9 | ppb |
| Cr | 52 | 367354.5 | ppb |
| Co | 59 | 44782.7 | ppb |
| Mn | 55 | 240723 | ppb |
| Na | 60 | 20839.2 | ppb |
| Ni | 59 | 534817.3 | ppb |
| As | 75 | 167319.8 | ppb |
| Se | 77 | 76893.4 | ppb |
| Sa | 82 | 9788.1 | ppb |
| Rh | 103 | 120499.8 | ppb |
| Cd | 111 | 67485.6 | ppb |
| Cd | 114 | 152170.4 | ppb |
| Sb | 121 | 165339.3 | ppb |
| Bi | 123 | 140037.1 | ppb |
| Ho | 165 | 364230.1 | ppb |
| Pt | 208 | 2718208.8 | ppb |
| Kr | 83 | 42091 | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-2
 Sample Date: Monday, August 22, 2011 15:08:22

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 58079.3 | ppb |
| Be | 9 | 2393 | ppb |
| Ba | 45 | 440820.7 | ppb |
| Cr | 52 | 338284.7 | ppb |
| Co | 59 | 539314.2 | ppb |
| Mn | 55 | 2273369.4 | ppb |
| Na | 60 | 173195.8 | ppb |
| Ni | 60 | 626150.8 | ppb |
| As | 75 | 167379.8 | ppb |
| Se | 77 | 20731.4 | ppb |
| Sa | 82 | 67198.4 | ppb |
| Rh | 103 | 340179.5 | ppb |
| Cd | 111 | 59828.9 | ppb |
| Cd | 114 | 139516.4 | ppb |
| Sb | 121 | 160461.1 | ppb |
| Sb | 123 | 126670.5 | ppb |
| Ho | 165 | 7474.12 | ppb |
| Pt | 208 | 2517143.8 | ppb |
| Kr | 83 | 20815.2 | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-2
 Sample Date: Monday, August 22, 2011 15:11:22

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 61337.4 | ppb |
| Be | 9 | 614.4 | ppb |
| Ba | 45 | 243895.9 | ppb |
| Cr | 52 | 769296.8 | ppb |
| Co | 59 | 104281.4 | ppb |
| Mn | 55 | 506719.2 | ppb |
| Na | 60 | 36598 | ppb |
| Ni | 60 | 192845.6 | ppb |
| As | 75 | 24111.4 | ppb |
| Se | 77 | 10444.8 | ppb |
| Sa | 82 | 20122.2 | ppb |
| Rh | 103 | 372257.5 | ppb |
| Cd | 111 | 14187.5 | ppb |
| Cd | 114 | 2215 | ppb |
| Sb | 121 | 37295.4 | ppb |
| Bi | 123 | 28949.9 | ppb |
| Ho | 165 | 143322.4 | ppb |
| Pt | 208 | 579793.4 | ppb |
| Kr | 83 | 4344.8 | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-2
 Sample Date: Monday, August 22, 2011 15:15:14

Sample Description:
 Sample De Air Tech

Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 61892.9 | ppb |
| Be | 9 | 651.7 | ppb |
| Ba | 45 | 233946.4 | ppb |
| Cr | 52 | 760277.5 | ppb |
| Co | 59 | 103007.3 | ppb |
| Mn | 55 | 501051.1 | ppb |
| Na | 60 | 34243.0 | ppb |
| Ni | 60 | 167439.8 | ppb |
| As | 75 | 56866.5 | ppb |
| Se | 77 | 15254 | ppb |
| Sa | 82 | 18712.2 | ppb |
| Rh | 103 | 363615.3 | ppb |
| Cd | 111 | 1446 | ppb |
| Cd | 114 | 33070 | ppb |
| Sb | 121 | 37823.4 | ppb |
| Sb | 123 | 21743.3 | ppb |
| Ho | 165 | 77773.8 | ppb |
| Pt | 208 | 53304.4 | ppb |
| Kr | 83 | 4252.7 | ng/L |

Method 6020 & 200.6 Metals Summary Report

Sample ID: CC-1d.1

Sample Date/Time: August 22, 2011 16:18:56

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 83364.3 | | ppb |
| Be | 9 | 3.3 | -0.00104 | ppb |
| Sc | 45 | 179622.8 | | ppb |
| Cr | 52 | 8145.3 | 0.0261 | ppb |
| Co | 53 | 21051 | 8.81789 | ppb |
| Mn | 55 | 152.85 | -0.00857 | ppb |
| Cu | 59 | 63 | -0.00683 | ppb |
| Ni | 60 | 216.3 | -0.0221 | ppb |
| As | 75 | 103.2 | -0.0764 | ppb |
| Se | 77 | 1527.5 | -0.2171 | ppb |
| Sr | 82 | 52.5 | 0.18759 | ppb |
| Rh | 103 | 38218.7 | | ppb |
| Cd | 111 | 12.8 | 0.00209 | ppb |
| Cd | 114 | 28 | -0.00229 | ppb |
| Sb | 121 | 31 | -0.00527 | ppb |
| Sb | 123 | 27.8 | -0.0030 | ppb |
| Hg | 165 | 793023.3 | | ppb |
| Pb | 206 | 20.5 | -0.00131 | ppb |
| Kr | 83 | 10.4 | | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: CC-1d.4

Sample Date/Time: August 22, 2011 16:18:06

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|-----------|---------------|-------------------|
| Li | 6 | 90988 | | ppb |
| Be | 9 | 42424.7 | 97.8607 | ppb |
| Sc | 45 | 176302.4 | | ppb |
| Cr | 52 | 36938.5 | 100.76121 | ppb |
| Co | 53 | 112888.8 | 110.61048 | ppb |
| Mn | 55 | 130897.1 | 87.54933 | ppb |
| Cu | 59 | 888972.3 | 88.72236 | ppb |
| Ni | 60 | 1916.4 | 105.8115 | ppb |
| As | 75 | 156407.9 | 103.72248 | ppb |
| Se | 77 | 14035.2 | 104.67227 | ppb |
| Sr | 82 | 1847.1 | 106.08268 | ppb |
| Rh | 103 | 385377.9 | | ppb |
| Cd | 111 | 214786.2 | 109.13885 | ppb |
| Cd | 114 | 515823 | 108.14625 | ppb |
| Sb | 121 | 749492.5 | 98.91856 | ppb |
| Sb | 123 | 54283.1 | 98.3138 | ppb |
| Hg | 165 | 773109.1 | | ppb |
| Pb | 206 | 3696416.8 | 109.1905 | ppb |
| Kr | 83 | 1207.9 | | ng/L |

Method 6020 & 200.3 Metals Summary Report

Sample ID: 17131-4b

Sample Date/Time: August 22, 2011 16:52:55

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 83677.1 | | ppb |
| Be | 9 | 6.7 | 0.00396 | ppb |
| Sc | 45 | 177939.5 | | ppb |
| Cr | 52 | 15655.2 | 0.89064 | ppb |
| Co | 53 | 25679.8 | 13.7148 | ppb |
| Mn | 55 | 6620.1 | 0.50492 | ppb |
| Cu | 59 | 206.3 | 0.01082 | ppb |
| Ni | 60 | 1247.1 | 0.5290 | ppb |
| As | 75 | 215.2 | 1.40818 | ppb |
| Se | 77 | 3163.8 | 13.28187 | ppb |
| Sr | 82 | 2152.1 | 15.78843 | ppb |
| Rh | 103 | 394482.4 | | ppb |
| Cd | 111 | 214.8 | 0.10287 | ppb |
| Cd | 114 | 516 | 0.2678 | ppb |
| Sb | 121 | 210.3 | 0.01867 | ppb |
| Sb | 123 | 130.1 | 0.02038 | ppb |
| Hg | 165 | 744472.1 | | ppb |
| Pb | 206 | 11500.8 | 0.21038 | ppb |
| Kr | 83 | 61 | | ng/L |

Method 6020 & 200.6 Metals Summary Report

Sample ID: 17131-5b

Sample Date/Time: August 22, 2011 16:04:56

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 53463.3 | | ppb |
| Be | 9 | 8.7 | 0.0103 | ppb |
| Sc | 45 | 157049.4 | | ppb |
| Cr | 52 | 1587.7 | 1.2458 | ppb |
| Co | 53 | 22714.4 | 15.53129 | ppb |
| Mn | 55 | 11918.3 | 0.91352 | ppb |
| Cu | 59 | 281.3 | 0.02568 | ppb |
| Ni | 60 | 2322 | 1.38412 | ppb |
| As | 75 | 2280.1 | 1.81845 | ppb |
| Se | 77 | 2528.4 | 12.4785 | ppb |
| Sr | 82 | 1306.5 | 10.8984 | ppb |
| Rh | 103 | 329581.6 | | ppb |
| Cd | 111 | 888.9 | 0.395 | ppb |
| Cd | 114 | 1587.2 | 0.3837 | ppb |
| Sb | 121 | 143.7 | 0.01403 | ppb |
| Sb | 123 | 109.2 | 0.0181 | ppb |
| Hg | 165 | 831836.2 | | ppb |
| Pb | 206 | 10189.8 | 0.30014 | ppb |
| Kr | 83 | 100.9 | | ng/L |

Method 6020 & 200.6 Metals Summary Report

Sample ID: 17131-5b

Sample Date/Time: August 22, 2011 16:01:06

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 5101.8 | | ppb |
| Be | 9 | 4.9 | -0.00018 | ppb |
| Sc | 45 | 147440.1 | | ppb |
| Cr | 52 | 18158.4 | 1.8228 | ppb |
| Co | 53 | 23908 | 15.11201 | ppb |
| Mn | 55 | 2013.8 | 1.84904 | ppb |
| Cu | 59 | 295 | 0.02987 | ppb |
| Ni | 60 | 2774 | 1.51481 | ppb |
| As | 75 | 2654.7 | 1.57432 | ppb |
| Se | 77 | 2432.7 | 12.90554 | ppb |
| Sr | 82 | 1500 | 10.83212 | ppb |
| Rh | 103 | 380024.1 | | ppb |
| Cd | 111 | 658.8 | 0.41589 | ppb |
| Cd | 114 | 1483.3 | 0.38213 | ppb |
| Sb | 121 | 135 | 0.01365 | ppb |
| Sb | 123 | 110.3 | 0.01725 | ppb |
| Hg | 165 | 80108.1 | | ppb |
| Pb | 206 | 8451.8 | 0.25612 | ppb |
| Kr | 83 | 88.9 | | ng/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-5b

Sample Date/Time: August 22, 2011 16:39:16

Sample Description:

| Analyte | Mass | Mean | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 52054.3 | | ppb |
| Be | 9 | 5.7 | 0.00311 | ppb |
| Sc | 45 | 147355.1 | | ppb |
| Cr | 52 | 14224.1 | 1.21021 | ppb |
| Co | 53 | 18624.5 | 13.52522 | ppb |
| Mn | 55 | 1218.7 | 1.18979 | ppb |
| Cu | 59 | 845.4 | 0.07353 | ppb |
| Ni | 60 | 1234.3 | 0.63541 | ppb |
| As | 75 | 2023.3 | 1.5643 | ppb |
| Se | 77 | 2277.3 | 11.28987 | ppb |
| Sr | 82 | 1210.7 | 8.86618 | ppb |
| Rh | 103 | 305482.2 | | ppb |
| Cd | 111 | 215.1 | 0.13404 | ppb |
| Cd | 114 | 280.7 | 0.08378 | ppb |
| Sb | 121 | 277.7 | 0.02537 | ppb |
| Sb | 123 | 277.7 | 0.05448 | ppb |
| Hg | 165 | 600076.3 | | ppb |
| Pb | 206 | 9638.1 | 0.31282 | ppb |
| Kr | 83 | 88.3 | | ng/L |

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6-3
 Sample Description: August 22, 2011 18:41:22
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|-----------|---------------|-------------------|
| Li | 6 | 44720.5 | | ppb |
| Be | 9 | 15726.0 | 47.01301 | ppb |
| Sc | 45 | 136815.5 | | ppb |
| Cr | 52 | 299715.9 | 51.70617 | ppb |
| Mn | 55 | 649396.2 | 50.02422 | ppb |
| Co | 59 | 335567 | 33.53169 | ppb |
| Ni | 60 | 73277.6 | 55.82432 | ppb |
| As | 75 | 84504.6 | 59.17134 | ppb |
| Sa | 77 | 5333.8 | 53.96205 | ppb |
| Rh | 103 | 432 | 50.82563 | ppb |
| Cd | 111 | 77981.8 | 54.43533 | ppb |
| Cd | 114 | 18354.8 | 32.19255 | ppb |
| Sb | 121 | 28501.2 | 30.51314 | ppb |
| Sb | 123 | 200381.2 | 30.03105 | ppb |
| Ho | 165 | 57749.6 | | ppb |
| Pb | 208 | 1301911.4 | 54.29575 | ppb |
| Kr | 83 | 82.1 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: GC SL 1
 Sample Description: August 22, 2011 18:43:36
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 61448.5 | | ppb |
| Be | 9 | 4.7 | -0.00145 | ppb |
| Sc | 45 | 172213.3 | | ppb |
| Cr | 52 | 9879.2 | 0.12806 | ppb |
| Mn | 55 | 20149.3 | 8.26064 | ppb |
| Co | 59 | 1412.3 | -0.19455 | ppb |
| Ni | 60 | 90.7 | -0.00161 | ppb |
| As | 75 | 230.7 | -0.00102 | ppb |
| Sa | 77 | 114.2 | -0.00877 | ppb |
| Rh | 82 | 12.3 | 0.03822 | ppb |
| Cd | 103 | 365320.8 | | ppb |
| Cd | 111 | 19.5 | 0.00563 | ppb |
| Cd | 114 | 32.2 | -0.00125 | ppb |
| Sb | 121 | 40 | -0.00136 | ppb |
| Sb | 123 | 1.7 | -0.00132 | ppb |
| Ho | 165 | 77036.8 | | ppb |
| Pb | 208 | 2214.1 | 0.00951 | ppb |
| Kr | 83 | 100.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: GC F # 4
 Sample Description: August 22, 2011 18:35:46
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|-----------|---------------|-------------------|
| Li | 6 | 67392.4 | | ppb |
| Be | 9 | 41064.4 | 95.80024 | ppb |
| Sc | 45 | 171867.5 | | ppb |
| Cr | 52 | 77327 | 95.40969 | ppb |
| Mn | 55 | 112469.8 | 113.56946 | ppb |
| Co | 59 | 1204980.7 | 84.50892 | ppb |
| Ni | 60 | 912313.7 | 86.90116 | ppb |
| As | 75 | 183533.4 | 103.78659 | ppb |
| Sa | 77 | 157841.3 | 101.83014 | ppb |
| Rh | 82 | 14134 | 102.1519 | ppb |
| Cd | 103 | 18344.6 | 104.53273 | ppb |
| Cd | 111 | 39735.8 | | ppb |
| Cd | 114 | 223577.3 | 110.17796 | ppb |
| Sb | 121 | 633720.5 | 168.37177 | ppb |
| Sb | 123 | 737226.3 | 101.0475 | ppb |
| Ho | 165 | 57803.2 | 100.22089 | ppb |
| Pb | 208 | 784803.5 | | ppb |
| Kr | 83 | 353498.9 | 104.911 | ppb |
| Kr | 83 | -12876.5 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6-4
 Sample Description: August 22, 2011 18:50:52
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 54703.2 | | ppb |
| Be | 9 | 5.7 | 0.0024 | ppb |
| Sc | 45 | 181837.7 | | ppb |
| Cr | 52 | 12900 | 0.73445 | ppb |
| Mn | 55 | 20985.8 | 17.06336 | ppb |
| Co | 59 | 5607.7 | 0.31629 | ppb |
| Ni | 60 | 184 | 0.00867 | ppb |
| As | 75 | 87 | 0.7492 | ppb |
| Sa | 77 | 1018.5 | 0.81641 | ppb |
| Rh | 82 | 2236.5 | 8.25752 | ppb |
| Cd | 103 | 904 | 6.57334 | ppb |
| Cd | 111 | 34593.5 | | ppb |
| Cd | 114 | 121.2 | 0.0416 | ppb |
| Sb | 121 | 241.8 | 0.04051 | ppb |
| Sb | 123 | 104.2 | 0.14662 | ppb |
| Ho | 165 | 62.2 | 0.00643 | ppb |
| Pb | 208 | 65697.0 | | ppb |
| Kr | 83 | 7080.1 | 0.17671 | ppb |
| Kr | 83 | 97.3 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6-5
 Sample Description: August 22, 2011 18:53:02
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 57096.1 | | ppb |
| Be | 9 | 3.7 | -0.001 | ppb |
| Sc | 45 | 163720.1 | | ppb |
| Cr | 52 | 12214.8 | 0.62819 | ppb |
| Mn | 55 | 19670.6 | 10.06929 | ppb |
| Co | 59 | 6142.4 | 0.38974 | ppb |
| Ni | 60 | 177.9 | 0.01009 | ppb |
| As | 75 | 1180.1 | 0.56029 | ppb |
| Sa | 77 | 102.1 | 0.8157 | ppb |
| Rh | 82 | 1054.5 | 5.41792 | ppb |
| Cd | 103 | 5702 | 4.06329 | ppb |
| Cd | 111 | 3601.21 | | ppb |
| Cd | 114 | 33.1 | 0.18384 | ppb |
| Sb | 121 | 778.1 | 0.17115 | ppb |
| Sb | 123 | 102.7 | 0.03659 | ppb |
| Ho | 165 | 70.6 | 0.00476 | ppb |
| Pb | 208 | 68248 | | ppb |
| Kr | 83 | 827.8 | 0.15563 | ppb |
| Kr | 83 | 108.1 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6-6
 Sample Description: August 22, 2011 18:55:11
 Sample Description Tech

Concentration Results

| Analyte | Mass | Mass | Intern. Conc. | Meas. Report Unit |
|---------|------|----------|---------------|-------------------|
| Li | 6 | 53092 | | ppb |
| Be | 9 | 3 | -0.00411 | ppb |
| Sc | 45 | 152793.3 | | ppb |
| Cr | 52 | 12421.1 | 0.78853 | ppb |
| Mn | 55 | 19833.3 | 12.2751 | ppb |
| Co | 59 | 8817.9 | 0.27221 | ppb |
| Ni | 60 | 214.5 | 0.01174 | ppb |
| As | 75 | 1951.2 | 1.10062 | ppb |
| Sa | 77 | 847.5 | 0.60337 | ppb |
| Rh | 82 | 1386.9 | 7.26467 | ppb |
| Cd | 103 | 830 | 4.8567 | ppb |
| Cd | 111 | 324115.2 | | ppb |
| Cd | 114 | 360.8 | 0.2136 | ppb |
| Sb | 121 | 845.2 | 0.20313 | ppb |
| Sb | 123 | 167.7 | 0.01803 | ppb |
| Ho | 165 | 118.9 | 0.01838 | ppb |
| Pb | 208 | 67002.2 | | ppb |
| Kr | 83 | 8108.1 | 0.23109 | ppb |
| Kr | 83 | 84.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-02b

Sample Date: Monday, August 22, 2011 18:57:25

Sample Description: Air Tech

| Concentration Results | | | |
|-----------------------|------|-------------------|------------------|
| Analyte | Mass | Mass Intens Conc. | Meas Report Unit |
| Li | 6 | 429.33 | ppb |
| Be | 9 | 0 | 0.0047 ppb |
| Sc | 45 | 145191.1 | ppb |
| Cr | 52 | 12043 | 0.81026 ppb |
| Cr | 53 | 19530.3 | 12.83137 ppb |
| Mn | 55 | 7859.1 | 7.03714 ppb |
| Co | 59 | 424 | 0.04648 ppb |
| Ni | 60 | 807.4 | 0.48059 ppb |
| As | 75 | 4211.5 | 0.85411 ppb |
| Sa | 77 | 2017.9 | 8.25885 ppb |
| Se | 82 | 561.4 | 4.7435 ppb |
| Rh | 103 | 31273.1 | ppb |
| Cd | 111 | 107.2 | 0.01445 ppb |
| Cd | 114 | 171.4 | 0.05646 ppb |
| Sb | 121 | 185 | 0.02354 ppb |
| Sb | 123 | 157.2 | 0.02782 ppb |
| Hg | 165 | 0.60014.9 | ppb |
| Pb | 208 | 6377.1 | 0.18319 ppb |
| Kr | 83 | 46.2 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17131-02b

Sample Date: Monday, August 22, 2011 11:58:26

Sample Description: Air Tech

| Concentration Results | | | |
|-----------------------|------|-------------------|------------------|
| Analyte | Mass | Mass Intens Conc. | Meas Report Unit |
| Li | 6 | 54153.2 | ppb |
| Be | 9 | 18415.2 | 41.28534 ppb |
| Cr | 45 | 156453.5 | ppb |
| Cr | 53 | 309724.7 | 46.37816 ppb |
| Cr | 53 | 52941.4 | 57.88101 ppb |
| Mn | 55 | 48775 | 45.15213 ppb |
| Co | 59 | 2494.2 | 49.53809 ppb |
| Ni | 60 | 7481.9 | 9.3412 ppb |
| As | 75 | 60348.5 | 48.51299 ppb |
| Sa | 77 | 3007 | 57.70122 ppb |
| Se | 82 | 7081.9 | 55.50605 ppb |
| Rh | 103 | 321104 | ppb |
| Cd | 111 | 78894.4 | 46.92602 ppb |
| Cd | 114 | 184546 | 46.32577 ppb |
| Sb | 121 | 269184.8 | 42.77675 ppb |
| Sb | 123 | 205053.5 | 42.70585 ppb |
| Hg | 165 | 64155.8 | ppb |
| Pb | 208 | 1.61371.5 | 47.45276 ppb |
| Kr | 83 | 119.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Monday, August 22, 2011 10:01:41

Sample Description:

| Concentration Results | | | |
|-----------------------|------|-------------------|------------------|
| Analyte | Mass | Mass Intens Conc. | Meas Report Unit |
| Li | 6 | 61423.8 | ppb |
| Be | 9 | 5 | -0.00021 ppb |
| Sc | 45 | 182145.3 | ppb |
| Cr | 52 | 11316.1 | 0.21483 ppb |
| Cr | 53 | 20786.7 | 7.92988 ppb |
| Mn | 55 | 10305.2 | 0.16933 ppb |
| Co | 59 | 116.3 | 0.00078 ppb |
| Ni | 60 | 438.3 | 0.08255 ppb |
| As | 75 | 75.4 | -0.05502 ppb |
| Sa | 77 | 1681.5 | 0.87507 ppb |
| Se | 82 | 31.9 | 0.15442 ppb |
| Rh | 103 | 405679.8 | ppb |
| Cd | 111 | 19.5 | 0.03558 ppb |
| Cd | 114 | 20.2 | -0.00134 ppb |
| Sb | 121 | 47.7 | -0.0028 ppb |
| Sb | 123 | 35.4 | -0.0005 ppb |
| Hg | 165 | 76653.4 | ppb |
| Pb | 208 | 2274.8 | 0.00077 ppb |
| Kr | 83 | 1.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Monday, August 22, 2011 18:02:52

Sample Description:

| Concentration Results | | | |
|-----------------------|------|-------------------|------------------|
| Analyte | Mass | Mass Intens Conc. | Meas Report Unit |
| Li | 6 | 57344.1 | ppb |
| Be | 9 | 40186.9 | 85.52048 ppb |
| Sc | 45 | 171888.1 | ppb |
| Cr | 52 | 77729.7 | 87.5081 ppb |
| Cr | 53 | 111576.8 | 107.92291 ppb |
| Mn | 55 | 122008.6 | 96.62856 ppb |
| Co | 59 | 912742.8 | 88.06287 ppb |
| Ni | 60 | 19455.4 | 105.42993 ppb |
| As | 75 | 155217.2 | 101.10467 ppb |
| Sa | 77 | 17334.1 | 91.3329 ppb |
| Se | 82 | 15735.2 | 101.07784 ppb |
| Rh | 103 | 302549.5 | ppb |
| Cd | 111 | 1.8112.5 | 109.05451 ppb |
| Cd | 114 | 52320.7 | 107.414 ppb |
| Sb | 121 | 740055.7 | 103.4134 ppb |
| Sb | 123 | 559788.2 | 103.3485 ppb |
| Hg | 165 | 731088.8 | ppb |
| Pb | 208 | 2448798.4 | 105.49824 ppb |
| Kr | 83 | 195.3 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: B10

Sample Date: Wednesday, August 10, 2011 01:00:12

Sample Description:

| Concentration Results | | | |
|-----------------------|------|-------------------|------------------|
| Analyte | Mass | Mass Intens Conc. | Meas Report Unit |
| Li | 6 | 54838.9 | ppb |
| Be | 9 | 3.7 | ppb |
| Sc | 45 | 230388.7 | ppb |
| Cr | 52 | 8200.2 | ppb |
| Cr | 53 | 10134.6 | ppb |
| Mn | 55 | 4158.2 | ppb |
| Co | 59 | 12.2 | ppb |
| Ni | 60 | 530.7 | ppb |
| As | 75 | 507.5 | ppb |
| Sa | 77 | 485 | ppb |
| Se | 82 | 152.3 | ppb |
| Rh | 103 | 548052.8 | ppb |
| Cd | 111 | 23.1 | ppb |
| Cd | 114 | 23.2 | ppb |
| Sb | 121 | 180.3 | ppb |
| Sb | 123 | 182.9 | ppb |
| Hg | 165 | 803897 | ppb |
| Pb | 208 | 11686.1 | ppb |
| Kr | 83 | 148 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1
 Sample Date: Tuesday, August 10, 2011 09:02:12
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 48.8 | ppb |
| Be | 9 | 771 | 1.31712 ppb |
| B | 45 | 230878 | ppb |
| Cr | 52 | 1674.3 | 1.21052 ppb |
| Mn | 55 | 87.2 | 1.33197 ppb |
| Co | 59 | 105.8 | 1.33007 ppb |
| Ni | 60 | 2537 | 1.10147 ppb |
| As | 75 | 3158.7 | 1.55047 ppb |
| Se | 77 | 629 | 3.52489 ppb |
| Cd | 82 | 503.8 | 2.13407 ppb |
| Rh | 103 | 4442.7 | ppb |
| Cd | 111 | 2538.2 | 0.52610 ppb |
| Cd | 114 | 2571.2 | 1.0075 ppb |
| Sb | 121 | 8472.5 | 1.08407 ppb |
| Sb | 123 | 6471.5 | 1.05489 ppb |
| Ho | 165 | 13233.8 | ppb |
| Pb | 208 | 43327.1 | 1.06405 ppb |
| Kr | 83 | -11.5 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2
 Sample Date: Wednesday, August 10, 2011 09:04:31
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 593856 | ppb |
| Be | 9 | 5146.1 | 136.8454 ppb |
| B | 45 | 233600.4 | ppb |
| Cr | 52 | 1142118.1 | 84.87825 ppb |
| Mn | 55 | 136143.3 | 81.37323 ppb |
| Co | 59 | 1837803.5 | 84.19788 ppb |
| Ni | 60 | 1309164.4 | 83.76777 ppb |
| As | 75 | 275193.3 | 88.74921 ppb |
| Se | 77 | 33204.4 | 146.12978 ppb |
| Se | 77 | 386.0 | 1.6233205 ppb |
| Se | 77 | 3070.8 | 205.05488 ppb |
| Rh | 103 | 83785.5 | ppb |
| Cd | 111 | 286172.7 | 87.31816 ppb |
| Cd | 111 | 65900.4 | 84.24235 ppb |
| Sb | 121 | 104514.1 | 102.3225 ppb |
| Sb | 123 | 781484.6 | 103.35272 ppb |
| Ho | 165 | 1010239.8 | ppb |
| Pb | 208 | 450009.5 | 89.80408 ppb |
| Kr | 83 | -18794 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3
 Sample Date: Friday, August 10, 2011 09:06:41
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 46614.8 | ppb |
| Be | 9 | 23030.0 | 4.621241 ppb |
| B | 45 | 221991.1 | ppb |
| Cr | 52 | 468043.2 | 500.01637 ppb |
| Cr | 53 | 538930 | 504.17836 ppb |
| Mn | 55 | 7957707.6 | 500.37488 ppb |
| Co | 59 | 5488635.6 | 500.37913 ppb |
| Ni | 60 | 1120078.5 | 498.42543 ppb |
| As | 75 | 1250784.8 | 498.93918 ppb |
| Se | 77 | 132284.7 | 498.78877 ppb |
| Se | 77 | 181814.8 | 498.2707 ppb |
| Rh | 103 | 494863.3 | ppb |
| Cd | 111 | 1186912.6 | 498.58328 ppb |
| Cd | 114 | 8187.4 | 498.33415 ppb |
| Sb | 121 | 4306161.7 | 494.9743 ppb |
| Sb | 123 | 3234969.1 | 497.78784 ppb |
| Ho | 165 | 883917.3 | ppb |
| Pb | 208 | 1465145.2 | 494.6786 ppb |
| Kr | 83 | -77739 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank
 Sample Date: Friday, August 23, 2011 17:46:56
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 53677.8 | ppb |
| Be | 9 | 4.7 | ppb |
| B | 45 | 191988.2 | ppb |
| Cr | 52 | 11805.4 | ppb |
| Cr | 53 | 24284.8 | ppb |
| Mn | 55 | 19255 | ppb |
| Co | 59 | 104.3 | ppb |
| Ni | 60 | 203.7 | ppb |
| As | 75 | 38.9 | ppb |
| Se | 77 | 2094.8 | ppb |
| Se | 82 | 30.4 | ppb |
| Rh | 103 | 490086.7 | ppb |
| Cd | 111 | 21.4 | ppb |
| Cd | 114 | 35.0 | ppb |
| Sb | 121 | 50.7 | ppb |
| Sb | 123 | 41.2 | ppb |
| Ho | 165 | 897148.5 | ppb |
| Pb | 208 | 1213 | ppb |
| Kr | 83 | 130.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1
 Sample Date: Tuesday, August 23, 2011 17:31:01
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 87892.0 | ppb |
| Be | 9 | 488.7 | 1.085 ppb |
| B | 45 | 214006.6 | ppb |
| Cr | 52 | 21574.4 | 1.07129 ppb |
| Cr | 53 | 26373.7 | 0.8413 ppb |
| Mn | 55 | 17130.1 | 1.04778 ppb |
| Co | 59 | 11727.9 | 1.08852 ppb |
| Ni | 60 | 2721.3 | 1.11119 ppb |
| As | 75 | 1864.4 | 0.89788 ppb |
| Se | 77 | 2282.9 | 1.18304 ppb |
| Se | 82 | 239 | 1.04158 ppb |
| Rh | 103 | 43565.5 | ppb |
| Cd | 111 | 2847 | 1.088 ppb |
| Cd | 114 | 8455.5 | 1.04571 ppb |
| Sb | 121 | 9208 | 1.0725 ppb |
| Sb | 123 | 7018 | 1.08887 ppb |
| Ho | 165 | 91365.1 | ppb |
| Pb | 208 | 49888.5 | 1.11802 ppb |
| Kr | 83 | -50.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2
 Sample Date: Tuesday, August 23, 2011 17:09:10
 Sample Description:

Concentration Results

| Analyte | Mass | Mass Inten. Conc. | Meas. Report Unit |
|---------|------|-------------------|-------------------|
| Li | 6 | 54917 | ppb |
| Be | 9 | 42385.4 | 105.63998 ppb |
| B | 45 | 203842.8 | ppb |
| Cr | 52 | 960936.9 | 107.82339 ppb |
| Cr | 53 | 137868.8 | 107.15071 ppb |
| Mn | 55 | 1466770 | 102.7291 ppb |
| Co | 59 | 1911177 | 108.38789 ppb |
| Ni | 60 | 237488.4 | 108.18919 ppb |
| As | 75 | 206791.1 | 108.28429 ppb |
| Se | 77 | 18388.9 | 108.24005 ppb |
| Se | 82 | 20470.5 | 108.18996 ppb |
| Rh | 103 | 477871.2 | ppb |
| Cd | 111 | 286657.2 | 105.8056 ppb |
| Cd | 114 | 609167 | 105.8047 ppb |
| Sb | 121 | 80017.3 | 107.7838 ppb |
| Sb | 123 | 68479.3 | 107.9747 ppb |
| Ho | 165 | 92278 | ppb |
| Pb | 208 | 400900.8 | 102.19862 ppb |
| Kr | 83 | -15181.7 | mg/L |

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
 Sample ID: Standard C
 Sample Date/Time: August 23, 2011 17:42:16
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 52407.4 | ppb |
| Be | 9 | 197743.5 | 438.87283 ppb |
| Sc | 45 | 192304.3 | ppb |
| Cr | 52 | 4674634.2 | 496.63613 ppb |
| Cr | 53 | 534642.5 | 78.57016 ppb |
| Mn | 55 | 1753298.2 | 486.7144 ppb |
| Co | 59 | 5065422.2 | 492.1403 ppb |
| Ni | 60 | 1053668.5 | 496.36195 ppb |
| Zn | 75 | 68095.2 | 46.34113 ppb |
| Se | 77 | 73111.8 | 486.14832 ppb |
| Sr | 84 | 92279 | 448.364 ppb |
| Rb | 103 | 620711.9 | ppb |
| Y | 111 | 1204976.2 | 496.8304 ppb |
| Cd | 114 | 2859326.5 | 496.83687 ppb |
| Cd | 121 | 4145106.5 | 498.84134 ppb |
| Sb | 123 | 3178136.8 | 496.80491 ppb |
| Hg | 185 | 88425.4 | ppb |
| Pb | 208 | 18627852 | 496.87264 ppb |
| Kr | 83 | -1346 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 1
 Sample Date/Time: August 23, 2011 17:44:25
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 53.68 | ppb |
| Be | 9 | 16.7 | 0.0296 ppb |
| Sc | 45 | 197303.4 | ppb |
| Cr | 52 | 124871.9 | 0.12431 ppb |
| Cr | 53 | 24317.2 | 0.50677 ppb |
| Mn | 55 | 5106 | 0.23532 ppb |
| Co | 59 | 468.7 | 0.0232 ppb |
| Ni | 60 | 146 | 0.0481 ppb |
| As | 75 | 193.7 | 0.12811 ppb |
| Cu | 77 | 207.2 | 0.36643 ppb |
| Se | 82 | 20 | -0.03689 ppb |
| Rh | 103 | 107973.9 | ppb |
| Cd | 111 | 90.6 | 0.02853 ppb |
| Cd | 114 | 232.2 | 0.03346 ppb |
| Sb | 121 | 284.7 | 0.02581 ppb |
| Sb | 123 | 200.6 | 0.0256 ppb |
| Hg | 185 | 636.5 | ppb |
| Pb | 208 | 294.2 | 0.0372 ppb |
| Kr | 83 | 15.7 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 2
 Sample Date/Time: August 23, 2011 17:44:36
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 53125.7 | ppb |
| Be | 9 | 127.7 | 1.05067 ppb |
| Sc | 45 | 191533.2 | ppb |
| Cr | 52 | 2177.7 | 1.16446 ppb |
| Cr | 53 | 25889.4 | 2.21036 ppb |
| Mn | 55 | 1922.2 | 1.1648 ppb |
| Co | 59 | 12022.3 | 1.13614 ppb |
| Ni | 60 | 2972.2 | 1.2721 ppb |
| As | 75 | 2114.3 | 1.1673 ppb |
| Se | 77 | 2247.3 | 1.6527 ppb |
| Sr | 84 | 2.3 | 1.0496 ppb |
| Rh | 103 | 476226.4 | ppb |
| Cd | 111 | 2775.5 | 1.10223 ppb |
| Cd | 114 | 6573.4 | 1.1081 ppb |
| Sb | 121 | 6548.1 | 1.14884 ppb |
| Sb | 123 | 7177.3 | 1.1618 ppb |
| Hg | 185 | 895636.5 | ppb |
| Pb | 208 | 47337.2 | 1.18344 ppb |
| Kr | 83 | 39.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 3
 Sample Date/Time: August 23, 2011 17:45:06
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 52462.9 | ppb |
| Be | 9 | 7846.8 | 201.21615 ppb |
| Sc | 45 | 181814.5 | ppb |
| Cr | 52 | 173111.2 | 202.40758 ppb |
| Cr | 53 | 228534.1 | 203.72631 ppb |
| Mn | 55 | 2707897.4 | 202.31453 ppb |
| Co | 59 | 2022936.1 | 201.81364 ppb |
| Ni | 60 | 426479.1 | 204.29414 ppb |
| As | 75 | 358673.1 | 202.21827 ppb |
| Se | 77 | 30215.2 | 193.53857 ppb |
| Sr | 82 | 14683.7 | 188.78036 ppb |
| Rh | 103 | 454775.7 | ppb |
| Cd | 111 | 472715.3 | 197.88666 ppb |
| Cd | 114 | 112871.3 | 186.12865 ppb |
| Sb | 121 | 102646.2 | 188.68345 ppb |
| Sb | 123 | 122350.6 | 197.58812 ppb |
| Hg | 185 | 864810.8 | ppb |
| Pb | 208 | 7715476.8 | 188.59064 ppb |
| Kr | 83 | -2746.7 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 4
 Sample Date/Time: August 23, 2011 17:50:54
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 54438.3 | ppb |
| Be | 9 | 44418.6 | 107.77725 ppb |
| Sc | 45 | 209125.2 | ppb |
| Cr | 52 | 49285.7 | 106.46147 ppb |
| Cr | 53 | 117881.1 | 105.82855 ppb |
| Mn | 55 | 1426642.9 | 105.32089 ppb |
| Co | 59 | 110877.4 | 105.39418 ppb |
| Ni | 60 | 217348.8 | 107.03126 ppb |
| As | 75 | 201301.2 | 107.23105 ppb |
| Se | 77 | 1859.5 | 108.6429 ppb |
| Sr | 82 | 20861.2 | 107.22196 ppb |
| Rh | 103 | 482890.7 | ppb |
| Cd | 111 | 238177.3 | 104.80626 ppb |
| Cd | 114 | 628517.7 | 104.86518 ppb |
| Sb | 121 | 891325.8 | 106.32827 ppb |
| Sb | 123 | 886352.3 | 108.8598 ppb |
| Hg | 185 | 896523.3 | ppb |
| Pb | 208 | 4312186.4 | 107.5714 ppb |
| Kr | 83 | -15376.6 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 5
 Sample Date/Time: August 23, 2011 17:53:06
 Sample Description:
 Concentration Results

| Analyte | Mass | Mass Intens Conc. | Mean Report Unit |
|---------|------|-------------------|------------------|
| Li | 6 | 57357.6 | ppb |
| Be | 9 | 18939 | 49.3157 ppb |
| Sc | 45 | 190421.1 | ppb |
| Cr | 52 | 46181.5 | 80.89036 ppb |
| Cr | 53 | 74888.8 | 51.03546 ppb |
| Mn | 55 | 898736.8 | 51.51878 ppb |
| Co | 59 | 510392.7 | 50.11951 ppb |
| Ni | 60 | 1074956.3 | 50.78589 ppb |
| Zn | 75 | 87190.8 | 46.43314 ppb |
| Se | 77 | 8580.4 | 46.053 ppb |
| Sr | 82 | 877.2 | 44.95005 ppb |
| Rh | 103 | 458941.3 | ppb |
| Cd | 111 | 121726 | 50.38471 ppb |
| Cd | 114 | 290562.3 | 50.86586 ppb |
| Sb | 121 | 108562.8 | 51.58971 ppb |
| Sb | 123 | 306412.8 | 50.75609 ppb |
| Hg | 185 | 843350.7 | ppb |
| Pb | 208 | 1927752.8 | 51.11602 ppb |
| Kr | 83 | 165.8 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 7
 Sample Date/Time: August 23, 2011 17:55:16
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 6 | 55377.2 | | ppb |
| Be | 9 | 23.3 | 0.14451 | ppb |
| B | 11 | 206220.3 | | ppb |
| Cr | 52 | 10957.4 | 11.40153 | ppb |
| Co | 53 | 3668.9 | 15.43692 | ppb |
| Mn | 55 | 186597.3 | 12.06379 | ppb |
| Cd | 58 | 226346.6 | 22.0663 | ppb |
| Ni | 60 | 4975.1 | 21.97206 | ppb |
| As | 75 | 17138.1 | 10.8544 | ppb |
| Se | 77 | 4453.5 | 19.63326 | ppb |
| Sr | 82 | 1801.6 | 10.01562 | ppb |
| Rh | 103 | 464083.4 | | ppb |
| Cd | 111 | 12208.1 | 4.99325 | ppb |
| Cd | 114 | 33117.3 | 5.7183 | ppb |
| Sb | 121 | 1336.4 | 0.16821 | ppb |
| Sb | 123 | 1008.7 | 0.19579 | ppb |
| Hg | 165 | 67622.1 | | ppb |
| Pb | 208 | 8.562 | 0.21091 | ppb |
| Kr | 83 | 55.9 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 8
 Sample Date/Time: August 23, 2011 17:57:11
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 6 | 63411 | | ppb |
| Be | 9 | 136 | 0.25524 | ppb |
| Se | 45 | 239679.5 | | ppb |
| Cr | 52 | 1807.0 | 0.59923 | ppb |
| Cr | 53 | 29670.7 | 1.3493 | ppb |
| Mn | 55 | 21650.2 | 1.16156 | ppb |
| Co | 58 | 435.1 | 0.38266 | ppb |
| Ni | 60 | 3196.8 | 1.14555 | ppb |
| As | 75 | 716.7 | 0.57031 | ppb |
| Se | 77 | 2697.4 | 1.81872 | ppb |
| Se | 32 | 63.6 | 0.12471 | ppb |
| Rh | 103 | 589822.8 | | ppb |
| Cd | 111 | 870.3 | 0.38545 | ppb |
| Cd | 114 | 1846.1 | 0.27222 | ppb |
| Sb | 121 | 3114.5 | 0.31291 | ppb |
| Sb | 123 | 234.1 | 0.27711 | ppb |
| Hg | 165 | 104266.8 | | ppb |
| Pb | 208 | 2234.3 | 0.49904 | ppb |
| Kr | 83 | 27 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 9
 Sample Date/Time: August 23, 2011 17:59:36
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 6 | 52384.4 | | ppb |
| Be | 9 | 12 | 0.01659 | ppb |
| B | 11 | 205389.7 | | ppb |
| Cr | 52 | 41587.5 | 2.62069 | ppb |
| Cr | 53 | 12736.8 | 9.90916 | ppb |
| Mn | 55 | 127165 | 5.11753 | ppb |
| Co | 58 | 1211.1 | 0.10752 | ppb |
| Ni | 60 | 3793.9 | 1.67571 | ppb |
| As | 75 | 1319.5 | 0.7489 | ppb |
| Se | 77 | 366.7 | 10.30011 | ppb |
| Se | 45 | 63.6 | 0.10952 | ppb |
| Rh | 103 | 468841.7 | | ppb |
| Cd | 111 | 620.3 | 0.24357 | ppb |
| Cd | 114 | 988.8 | 0.2882 | ppb |
| Sb | 121 | 5335.3 | 0.60642 | ppb |
| Sb | 123 | 4078.7 | 0.60533 | ppb |
| Hg | 165 | 93066.9 | | ppb |
| Pb | 208 | 7073.2 | 1.78311 | ppb |
| Kr | 83 | -126.8 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 10
 Sample Date/Time: August 23, 2011 18:01:46
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 3 | 56371.5 | | ppb |
| Be | 9 | 16687.4 | 39.58753 | ppb |
| B | 11 | 205100.7 | | ppb |
| Cr | 52 | 45042.3 | 46.64673 | ppb |
| Cr | 53 | 80748.6 | 34.55323 | ppb |
| Mn | 55 | 70671.7 | 62.67281 | ppb |
| Co | 58 | 50170.8 | 47.64222 | ppb |
| Ni | 60 | 107340.9 | 45.81706 | ppb |
| As | 75 | 73113.3 | 38.44512 | ppb |
| Se | 77 | 5413.9 | 22.73801 | ppb |
| Se | 82 | 6587.9 | 34.0679 | ppb |
| Rh | 103 | 473723 | | ppb |
| Cd | 111 | 100456.5 | 40.75757 | ppb |
| Cd | 114 | 20580.6 | 41.47358 | ppb |
| Sb | 121 | 361175.8 | 41.29508 | ppb |
| Sb | 123 | 276452.1 | 41.32938 | ppb |
| Hg | 165 | 93372.7 | | ppb |
| Pb | 208 | 167149.9 | 43.21872 | ppb |
| Kr | 83 | 41.2 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 2
 Sample Date/Time: August 23, 2011 18:03:55
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 6 | 56950.6 | | ppb |
| Be | 9 | 499 | 1.0553 | ppb |
| Se | 45 | 143680.1 | | ppb |
| Cr | 52 | 23712.3 | 1.41554 | ppb |
| Cr | 53 | 29578.9 | 1.71242 | ppb |
| Mn | 55 | 16882.7 | 1.09572 | ppb |
| Co | 58 | 11245.3 | 1.08692 | ppb |
| Ni | 60 | 2810.5 | 1.24671 | ppb |
| As | 75 | 1695.7 | 0.94238 | ppb |
| Se | 77 | 2815.7 | 4.19033 | ppb |
| Se | 62 | 266.8 | 1.06602 | ppb |
| Rh | 103 | 476972.2 | | ppb |
| Cd | 111 | 2629.4 | 1.12675 | ppb |
| Cd | 114 | 6711.7 | 1.13224 | ppb |
| Sb | 121 | 8621.4 | 1.12687 | ppb |
| Sb | 123 | 7414.9 | 1.13316 | ppb |
| Hg | 165 | 80731.3 | | ppb |
| Pb | 208 | 46959.8 | 1.16679 | ppb |
| Kr | 83 | -44.9 | | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Sid 1
 Sample Date/Time: August 23, 2011 18:05:56
 Sample Description:

Concentration Results

| Analyte | Mass | Meas. Int. | Intens. Conc. | Meas. Report Unit |
|---------|------|------------|---------------|-------------------|
| Li | 6 | 51425.4 | | ppb |
| Be | 9 | 8 | 0.00368 | ppb |
| Se | 45 | 163981.6 | | ppb |
| Cr | 52 | 13164.9 | 0.37257 | ppb |
| Cr | 53 | 26516.3 | 5.47089 | ppb |
| Mn | 55 | 1767.9 | 0.09814 | ppb |
| Co | 58 | 56 | -0.00353 | ppb |
| Ni | 60 | 1.0 | -0.01944 | ppb |
| As | 75 | -86 | -0.02562 | ppb |
| Se | 77 | 2212.2 | 10.64771 | ppb |
| Se | 82 | 28.1 | -0.0237 | ppb |
| Rh | 103 | 426707.6 | | ppb |
| Cd | 111 | 22.5 | 0.02163 | ppb |
| Cd | 114 | 58. | 0.00464 | ppb |
| Sb | 121 | 52.7 | 0.00023 | ppb |
| Sb | 123 | 56.8 | -0.00022 | ppb |
| Hg | 165 | 80804.4 | | ppb |
| Pb | 208 | 1505 | 0.01153 | ppb |
| Kr | 83 | 91.2 | | mg/L |

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-4
 Sample Date: Tuesday, August 23, 2011 11:05:04
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 43541.1 | ppb |
| Be | 9 | 25415.3 | 95.0515 ppb |
| Sc | 45 | 163446.7 | ppb |
| Cr | 52 | 17347.2 | 97.3129 ppb |
| Cr | 53 | 11638.6 | 101.02375 ppb |
| Mn | 55 | 120295.2 | 85.45439 ppb |
| Co | 59 | 86098.1 | 102.85675 ppb |
| Ni | 60 | 203912.7 | 10.0650 ppb |
| As | 75 | 11272.1 | 104.31934 ppb |
| Se | 77 | 16271.0 | 108.72893 ppb |
| Sr | 87 | 17360.6 | 101.21431 ppb |
| Rh | 103 | 424885.9 | ppb |
| Cd | 111 | 23141.4 | 103.5235 ppb |
| Cd | 114 | 545615.2 | 103.4725 ppb |
| Sb | 121 | 7827.04 | 108.03204 ppb |
| Sb | 123 | 605734.4 | 108.0462 ppb |
| Hg | 185 | 807131.7 | ppb |
| Pb | 208 | 398445.5 | 107.87075 ppb |
| Kr | 83 | -13545.0 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-4
 Sample Date: Tuesday, August 23, 2011 18:08:36
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 43550.2 | ppb |
| Be | 9 | 5708.5 | 18.05347 ppb |
| Sc | 45 | 519103.9 | ppb |
| Cr | 52 | 374545.2 | 859.5771 ppb |
| Cr | 53 | 403603 | 544.13211 ppb |
| Mn | 55 | 441917.8 | 415.6363 ppb |
| Co | 59 | 354814 | 42.78795 ppb |
| Ni | 60 | 555050.3 | 524.0822 ppb |
| As | 75 | 7785.9 | 85.47118 ppb |
| Se | 77 | 20366.2 | 164.50424 ppb |
| Sr | 87 | 24454.7 | 164.373 ppb |
| Rh | 103 | 31628.7 | ppb |
| Cd | 111 | 59172.5 | 30.59151 ppb |
| Cd | 114 | 12738.7 | 27.6348 ppb |
| Sb | 121 | 94382.7 | 11.20545 ppb |
| Sb | 123 | 53985.7 | 11.07254 ppb |
| Hg | 185 | 605203.7 | ppb |
| Pb | 208 | 2793357.4 | 77.32945 ppb |
| Kr | 83 | -53731.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-5
 Sample Date: Tuesday, August 23, 2011 18:10:42
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 44185.6 | ppb |
| Be | 9 | 721.6 | 22.02891 ppb |
| Sc | 45 | 31412.6 | ppb |
| Cr | 52 | 42304.2 | 587.09893 ppb |
| Cr | 53 | 5143.4 | 505.5745 ppb |
| Mn | 55 | 633520.4 | 685.9897 ppb |
| Co | 59 | 44380.3 | 53.25494 ppb |
| Ni | 60 | 912288 | 283.57079 ppb |
| As | 75 | 12574.1 | 85.26326 ppb |
| Se | 77 | 2273.1 | 123.16447 ppb |
| Sr | 87 | 27475.3 | 176.18424 ppb |
| Rh | 103 | 380030 | ppb |
| Cd | 111 | 7821.3 | 9.9674 ppb |
| Cd | 114 | 16750 | 35.72316 ppb |
| Sb | 121 | 11226.1 | 13.7321 ppb |
| Sb | 123 | 64953 | 13.62957 ppb |
| Hg | 185 | 887092 | ppb |
| Pb | 208 | 360524.6 | 87.94344 ppb |
| Kr | 83 | -14721 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6
 Sample Date: Tuesday, August 23, 2011 18:11:52
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 34527.6 | ppb |
| Be | 9 | 7011.1 | 27.1021 ppb |
| Sc | 45 | 679978.1 | ppb |
| Cr | 52 | 4133904.5 | 750.77857 ppb |
| Cr | 53 | 523365.6 | 741.81968 ppb |
| Mn | 55 | 538121.7 | 818.420 ppb |
| Co | 59 | 41387.1 | 68.07423 ppb |
| Ni | 60 | 623250.1 | 527.62321 ppb |
| As | 75 | 116468.1 | 101.43844 ppb |
| Se | 77 | 23844.7 | 211.86005 ppb |
| Sr | 87 | 34429.5 | 204.62521 ppb |
| Rh | 103 | 236137.9 | ppb |
| Cd | 111 | 78153.5 | 50.18163 ppb |
| Cd | 114 | 4888.7 | 45.2401 ppb |
| Sb | 121 | 106712.9 | 18.43977 ppb |
| Sb | 123 | 63447.6 | 16.29785 ppb |
| Hg | 185 | 709394.4 | ppb |
| Pb | 208 | 3544531.6 | 111.88174 ppb |
| Kr | 83 | -71847.1 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6
 Sample Date: Tuesday, August 23, 2011 18:17:15
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 41819.8 | ppb |
| Be | 9 | 7739.6 | 24.49279 ppb |
| Sc | 45 | 67436.2 | ppb |
| Cr | 52 | 4632741.1 | 889.30645 ppb |
| Cr | 53 | 548903.7 | 855.7449 ppb |
| Mn | 55 | 5731503.4 | 536.15703 ppb |
| Co | 59 | 479189.9 | 56.22033 ppb |
| Ni | 60 | 508631.6 | 304.36587 ppb |
| As | 75 | 11357.2 | 83.31888 ppb |
| Se | 77 | 16237.8 | 120.48333 ppb |
| Sr | 87 | 18727.9 | 130.71803 ppb |
| Rh | 103 | 34429.6 | ppb |
| Cd | 111 | 84613.7 | 44.18279 ppb |
| Cd | 114 | 181477.2 | 40.3163 ppb |
| Sb | 121 | 121384.9 | 15.40029 ppb |
| Sb | 123 | 81589.1 | 15.14856 ppb |
| Hg | 185 | 844617.7 | ppb |
| Pb | 208 | 309453.6 | 105.88086 ppb |
| Kr | 83 | -78773.3 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-6
 Sample Date: Tuesday, August 23, 2011 18:17:15
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens. Conc. | Meas. Report Unit |
|---------|------|---------------------|-------------------|
| Li | 6 | 37187 | ppb |
| Be | 9 | 20401.8 | 72.77229 ppb |
| Sc | 45 | 653305 | ppb |
| Cr | 52 | 4125187 | 786.44243 ppb |
| Cr | 53 | 573859 | 750.7263 ppb |
| Mn | 55 | 617670.5 | 625.72124 ppb |
| Co | 59 | 522406.4 | 118.13572 ppb |
| Ni | 60 | 582513.7 | 40.73811 ppb |
| As | 75 | 18061.7 | 147.84658 ppb |
| Se | 77 | 20841.4 | 158.1112 ppb |
| Sr | 87 | 1765.8 | 194.40338 ppb |
| Rh | 103 | 316509.1 | ppb |
| Cd | 111 | 161043.2 | 87.53403 ppb |
| Cd | 114 | 362891.4 | 82.40256 ppb |
| Sb | 121 | 41577.3 | 57.3403 ppb |
| Sb | 123 | 318791.1 | 57.4058 ppb |
| Hg | 185 | 78916.8 | ppb |
| Pb | 208 | 547232.5 | 153.17845 ppb |
| Kr | 83 | -73144 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 1
 Sample Date: Tuesday, August 23, 2011 16:16:28
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 50463 | ppb |
| Be | 9 | 5.3 | 0.00351 ppb |
| B | 45 | 101593.3 | ppb |
| Cr | 52 | 1230.8 | 0.11648 ppb |
| Cr | 53 | 18325.5 | -0.18214 ppb |
| Mn | 55 | 1802.2 | 0.00089 ppb |
| Co | 59 | 65.3 | 0.00074 ppb |
| Ni | 60 | 153.3 | -0.00084 ppb |
| As | 75 | -77.4 | -0.00318 ppb |
| Sa | 77 | 1612.8 | 0.38274 ppb |
| Se | 82 | 16.5 | -0.04287 ppb |
| Rh | 103 | 372891.6 | ppb |
| Cd | 111 | 23.4 | 0.00367 ppb |
| Cd | 114 | 56.0 | 0.00841 ppb |
| Sb | 121 | 48.7 | 0.0036 ppb |
| Sb | 123 | 49.2 | 0.00196 ppb |
| Hg | 165 | 722547.2 | ppb |
| Pb | 208 | 1821.4 | 0.01487 ppb |
| Kr | 83 | 88.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 4
 Sample Date: Tuesday, August 23, 2011 16:21:34
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 50132.1 | ppb |
| B | 9 | 35423.6 | 93.42422 ppb |
| Be | 45 | 159598.8 | ppb |
| Cr | 52 | 72732.2 | 107.68416 ppb |
| Cr | 53 | 103700.6 | 107.48732 ppb |
| Mn | 55 | 1138184 | 104.77181 ppb |
| Co | 59 | 6027.7 | 108.09403 ppb |
| Ni | 60 | 1837.1 | 111.22543 ppb |
| As | 75 | 148888.8 | 104.81947 ppb |
| Se | 77 | 13889.4 | 103.00336 ppb |
| Se | 82 | 14776.1 | 101.98554 ppb |
| Rh | 103 | 358646.6 | ppb |
| Cd | 111 | 200631.8 | 103.38889 ppb |
| Cd | 114 | 436841.1 | 108.78322 ppb |
| Sb | 121 | 701556.9 | 104.1727 ppb |
| Sb | 123 | 507886.8 | 104.94716 ppb |
| Hg | 165 | 715472.8 | ppb |
| Pb | 208 | 349328.3 | 108.18326 ppb |
| Kr | 83 | -11628.3 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-S
 Sample Date: Tuesday, August 23, 2011 18:23:11
 Sample Description: Air Tech
 Concentration Results

| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 441.8 | ppb |
| Be | 9 | 7141.8 | 21.1274 ppb |
| B | 45 | 605387.8 | ppb |
| Cr | 52 | 4001838.6 | 888.0357 ppb |
| Cr | 53 | 493933.7 | 384.16466 ppb |
| Mn | 55 | 5168880.0 | 488.8061 ppb |
| Co | 59 | 420545.3 | 53.24432 ppb |
| Ni | 60 | 403314.8 | 261.5821 ppb |
| As | 75 | 118887.8 | 83.83238 ppb |
| Sa | 77 | 21122.5 | 174.4869 ppb |
| Se | 82 | 2500.4 | 173.02927 ppb |
| Se | 82 | 309526 | ppb |
| Rh | 103 | 14776.1 | 14.83846 ppb |
| Cd | 111 | 181873.2 | 38.72244 ppb |
| Cd | 114 | 181873.2 | 38.72244 ppb |
| Sb | 121 | 104348 | 12.88918 ppb |
| Sb | 123 | 40321.3 | 12.87248 ppb |
| Hg | 165 | 867140 | ppb |
| Pb | 208 | 3579025.8 | 82.28433 ppb |
| Kr | 83 | -68848.2 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17131-S
 Sample Date: Tuesday, August 23, 2011 18:27:22
 Sample Description: Air Tech
 Concentration Results

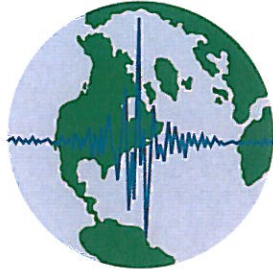
| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 43832.7 | ppb |
| Be | 9 | 1749.9 | 20.43271 ppb |
| B | 45 | 588474.4 | ppb |
| Cr | 52 | 361548.4 | 374.53042 ppb |
| Cr | 53 | 403615.8 | 381.308 ppb |
| Mn | 55 | 4923234.3 | 470.1074 ppb |
| Co | 59 | 384128.7 | 50.18389 ppb |
| Ni | 60 | 447748.8 | 273.9734 ppb |
| As | 75 | 110450 | 79.88019 ppb |
| Se | 77 | 19507.8 | 161.06158 ppb |
| Se | 82 | 24886.8 | 187.2388 ppb |
| Rh | 103 | 358497.8 | ppb |
| Cd | 111 | 7374.1 | 38.4121 ppb |
| Cd | 114 | 18052.4 | 38.73185 ppb |
| Sb | 121 | 104847.8 | 12.88117 ppb |
| Sb | 123 | 79688.5 | 12.82205 ppb |
| Hg | 165 | 867457.1 | ppb |
| Pb | 208 | 3578471.7 | 82.2538 ppb |
| Kr | 83 | 61187.8 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 1
 Sample Date: Tuesday, August 23, 2011 19:29:32
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 48721.2 | ppb |
| Be | 9 | 3 | -0.00343 ppb |
| B | 45 | 100880.5 | ppb |
| Cr | 52 | 9673.4 | 0.16677 ppb |
| Cr | 53 | 18678.5 | 0.5413 ppb |
| Mn | 55 | 2370.7 | 0.0829 ppb |
| Co | 59 | 67.9 | 0.0911 ppb |
| Ni | 60 | 194.7 | 0.02289 ppb |
| As | 75 | -154.1 | -0.08914 ppb |
| Sa | 77 | 1000.8 | 0.40722 ppb |
| Se | 82 | 21.1 | -0.01582 ppb |
| Rh | 103 | 388477.8 | ppb |
| Cd | 111 | 24.5 | 0.0042 ppb |
| Cd | 114 | 36.5 | 0.00174 ppb |
| Sb | 121 | 42.7 | -0.00057 ppb |
| Sb | 123 | 32.8 | -0.0007 ppb |
| Hg | 165 | 73948.4 | ppb |
| Pb | 208 | 1481.4 | 0.0141 ppb |
| Kr | 83 | 88.9 | mg/L |

Method 6020 & 200.8 Metals Summary Report
 Sample ID: QC Std 4
 Sample Date: Tuesday, August 23, 2011 19:31:41
 Sample Description:
 Concentration Results

| Analyte | Mass | Meas. Intens Conc. | Meas. Report Unit |
|---------|------|--------------------|-------------------|
| Li | 6 | 49418.8 | ppb |
| Be | 9 | 36177.8 | 86.81086 ppb |
| B | 45 | 162854.7 | ppb |
| Cr | 52 | 73873.7 | 106.32884 ppb |
| Cr | 53 | 108418.5 | 106.38736 ppb |
| Mn | 55 | 11402.9 | 104.0135 ppb |
| Co | 59 | 86785.7 | 105.58862 ppb |
| Ni | 60 | 163171.2 | 108.9718 ppb |
| As | 75 | 163801.7 | 108.28484 ppb |
| Sa | 77 | 13567.8 | 102.88884 ppb |
| Se | 82 | 15478.2 | 102.87043 ppb |
| Rh | 103 | 372891.6 | ppb |
| Cd | 111 | 205402.8 | 104.7674 ppb |
| Cd | 114 | 431744.7 | 106.03487 ppb |
| Sb | 121 | 711522.8 | 106.00714 ppb |
| Sb | 123 | 540223.4 | 104.05341 ppb |
| Hg | 165 | 728000.0 | ppb |
| Pb | 208 | 346128.4 | 107.49326 ppb |
| Kr | 83 | -12217.2 | mg/L |



AIRTECH
*Environmental
Services Inc.*

**Ohio Lumex Spectrometer
(Mercury)
Analytical Report**

Performed for
Big Rivers Electric Corporation
Henderson Station
Unit 2
Project No. 3648
August 29, 2011

Analyst: _____

Michael Ogletree

Reviewer: _____

Patrick Clark P.E.

Table of Contents

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| <i>Chain of Custody</i> | |

Project Summary

General

| Project Information | |
|----------------------------------|----------------|
| Date Received | 8/10/2011 |
| Analytical Protocol | EPA Method 30B |
| Total Number of Samples Received | 12 |
| Total Number of Blanks Received | NA |

Analytical Equipment

| Equipment Information | Manufacturer | Model | Serial |
|-----------------------|--------------|---------|--------|
| Zeeman Mercury | Ohio Lumex | RA-915+ | 1283 |

| Parameters | Conditions |
|------------------|--------------|
| Oven Temperature | 585° Celsius |
| Flow Rate | 2.0 LPM |

Condition of Samples When Received

Samples were received for analysis in good condition without any noticeable contamination or breakage of samples tubes.

Methodology

All samples were analyzed according to the EPA Method 30B procedures found in 40 CFR Part 60 Appendix A.

QA/QC

The mercury calibration curve was generated using seven calibration standards. The standards were prepared by using a micro pipette to transfer a known amount of NIST traceable mercury standards to a bed of activated carbon and covered with potassium chloride.

The preparation of the mercury standards used for this project is detailed in the table below. All standards were supplied by Ohio Lumex, Twinsburg, Ohio 44087.

| Concentration ($\mu\text{g}/\text{ml}$) | Volume (μl) | Final Hg (ng) |
|---|--------------------------|---------------|
| 0.1 | 20 | 2 |
| 0.1 | 50 | 5 |
| 0.1 | 100 | 10 |
| 1 | 25 | 25 |
| 1 | 50 | 50 |
| 1 | 100 | 100 |
| 10 | 25 | 250 |
| 10 | 50 | 500 |

An independent calibration standard was analyzed along with the mercury calibration standards; results can be found in the calibration standards spreadsheet. A continuing calibration standard of 250 ng/ml was analyzed along with samples at least once every ten runs.

Appendix

Includes the following:

- Results
- Calibration Data

Results

Includes the following:

- Mercury Results

Analysis Date: 8/25/11

Analyst: MO

| Sample Parameters | Henderson Unit 2 | Henderson Unit 2 | Henderson Unit 2 |
|-----------------------------|------------------|------------------|------------------|
| | Run 1 | Run 2 | Run 3 |
| Particulate Coil | 172 | 265 | 100 |
| Oxidized Front Half (area) | 50,900 | 39,100 | 44,100 |
| Oxidized Back Half (area) | 15,900 | 19,200 | 11,500 |
| Elemental Front Half (area) | 4,440 | 9,550 | 8,870 |
| Elemental Back Half (area) | 27 | 0 | 0 |

RESULTS

| | | | |
|----------------------------|------------|------------|------------|
| Ash Bonded (ng) | 0.858 | 1.32 | 0.499 |
| Oxidized Front Half (ng) | 232 | 178 | 201 |
| Oxidized Back Half (ng) | 72.5 | 87.5 | 52.4 |
| Oxidized Breakthrough (%) | 23.8 | 32.9 | 20.7 |
| Total Oxidized (ng) | 304 | 266 | 253 |
| Elemental Front Half (ng) | 20.2 | 43.5 | 40.4 |
| Elemental Back Half (ng) | 0.135 | 0.00 | 0.00 |
| Elemental Breakthrough (%) | 0.7 | 0.0 | 0.0 |
| Total Elemental (ng) | 20.4 | 43.5 | 40.4 |
| Total Mercury (ng) | 326 | 311 | 294 |

| Sample Parameters | Henderson Unit 2 | Henderson Unit 2 | Henderson Unit 2 |
|-------------------|------------------|------------------|------------------|
| | Run 1 Spike | Run 2 Spike | Run 3 Spike |
| Particulate Coil | 204 | 35 | 216 |
| Front Half (area) | 102,000 | 101,000 | 105,000 |
| Back Half (area) | 0 | 27 | 10 |

RESULTS

| | | | |
|---------------------------|------------|------------|------------|
| Ash Bonded (ng) | 1.02 | 0.175 | 1.08 |
| Front Half (ng) | 464.8 | 460.2 | 478.5 |
| Back Half (ng) | 0.00 | 0.135 | 0.0499 |
| Breakthrough (%) | 0.0 | 0.0 | 0.0 |
| Total Mercury (ng) | 466 | 461 | 480 |
| Spike Recovery | 93.0% | 94.9% | 102.2% |

Analysis Date: 8/25/11

Analyst: MO

| Sample Parameters | Henderson Unit 2 | Henderson Unit 2 | Henderson Unit 2 |
|-----------------------------|------------------|------------------|------------------|
| | Stack Run 1 | Stack Run 2 | Stack Run 3 |
| Particulate Coil | 1,520 | 1,720 | 2,300 |
| Oxidized Front Half (area) | 2,180 | 1,860 | 1,910 |
| Oxidized Back Half (area) | 0 | 46 | 113 |
| Elemental Front Half (area) | 1,720 | 2,140 | 1,750 |
| Elemental Back Half (area) | 0 | 0 | 0 |

RESULTS

| | | | |
|----------------------------|-------------|-------------|-------------|
| Ash Bonded (ng) | 6.93 | 7.84 | 10.5 |
| Oxidized Front Half (ng) | 9.93 | 8.48 | 8.70 |
| Oxidized Back Half (ng) | 0.00 | 0.229 | 0.564 |
| Oxidized Breakthrough (%) | 0.0 | 2.6 | 6.1 |
| Total Oxidized (ng) | 9.93 | 8.71 | 9.27 |
| Elemental Front Half (ng) | 7.84 | 9.75 | 7.97 |
| Elemental Back Half (ng) | 0.00 | 0.00 | 0.00 |
| Elemental Breakthrough (%) | 0.0 | 0.0 | 0.0 |
| Total Elemental (ng) | 7.84 | 9.75 | 7.97 |
| Total Mercury (ng) | 24.7 | 26.3 | 27.7 |

| Sample Parameters | Henderson Unit 2 | Henderson Unit 2 | Henderson Unit 2 |
|-------------------|----------------------|----------------------|----------------------|
| | Stack Run 1 Spike | Stack Run 2 Spike | Stack Run 3 Spike |
| Particulate Coil | 3,210 | 2,260 | 2,810 |
| Front Half (area) | 7,470 | 7,540 | 6,930 |
| Back Half (area) | 41 | 78 | 82 |

RESULTS

| | | | |
|---------------------------|-------------|-------------|-------------|
| Ash Bonded (ng) | 14.6 | 10.3 | 12.8 |
| Front Half (ng) | 34.0 | 34.4 | 31.6 |
| Back Half (ng) | 0.204 | 0.389 | 0.409 |
| Breakthrough (%) | 0.4 | 0.9 | 0.9 |
| Total Mercury (ng) | 48.9 | 45.0 | 44.8 |
| Spike Recovery | 109.3% | 97.3% | 93.9% |

Calibration Data

Includes the following:

- Mercury Standards
- Mercury Calibration Curves

Date: 8/25/11
 Analyzer: Ohio Lumex
 Analyst: MO

INITIAL CALIBRATION

| Standard Number | Amount (ng) | Response (area) | RF (ng/area) | Calculated Value (ng) | Error (%) | Valid? |
|-----------------|-------------|-----------------|--------------|-----------------------|-----------|--------|
| 1 | 5 | 1,140 | 0.00439 | 5.19 | 3.9 | Yes |
| 2 | 10 | 2,180 | 0.00459 | 9.9 | -0.7 | Yes |
| 3 | 25 | 5,510 | 0.00454 | 25.1 | 0.4 | Yes |
| 4 | 50 | 10,900 | 0.00459 | 49.7 | -0.7 | Yes |
| 5 | 100 | 21,700 | 0.00461 | 98.9 | -1.1 | Yes |
| 6 | 250 | 53,800 | 0.00465 | 245 | -1.9 | Yes |
| 7 | 500 | 110,000 | 0.00455 | 501 | 0.3 | Yes |

Average Response Factor (ng/area) 0.00456
 R-Squared 1.000

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

| Standard Number | Amount (ng) | Response (area) | RF (ng/area) | Calculated Value (ng) | Error (%) | Valid? |
|-----------------|-------------|-----------------|--------------|-----------------------|-----------|--------|
| NA | 2 | 401 | 0.00499 | 2 | -8.6 | NA |

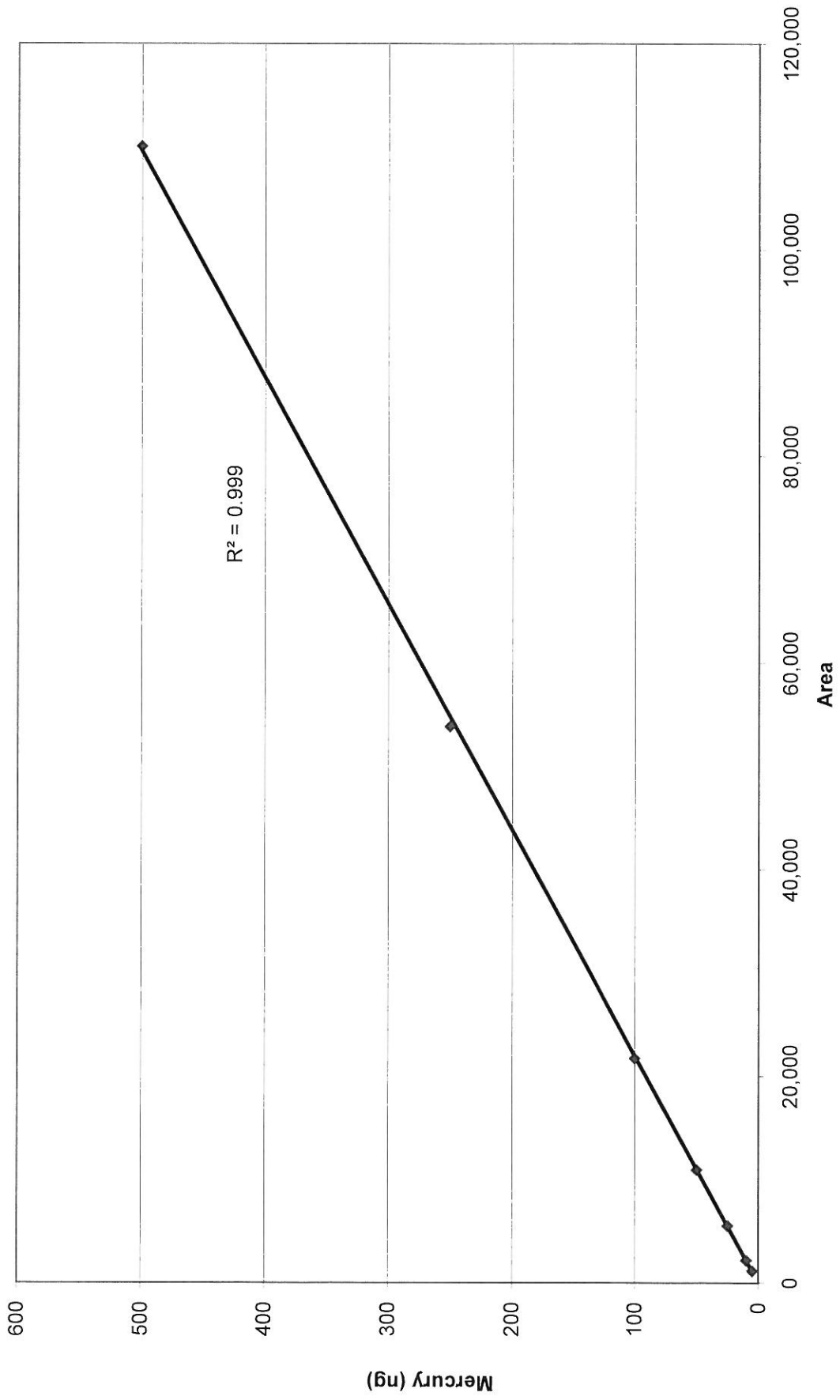
SECOND SOURCE CHECK STANDARD ANALYSIS

| Standard Number | Amount (ng) | Response (area) | RF (ng/area) | Calculated Value (ng) | Error (%) | Valid? |
|-----------------|-------------|-----------------|--------------|-----------------------|-----------|--------|
| NA | 250 | 51,200 | 0.00488 | 233 | -6.7 | Yes |

CONTINUING CALIBRATION VERIFICATION STANDARDS

| Standard Number | Amount (ng) | Response (area) | RF (ng/area) | Calculated Value (ng) | Error (%) | Valid? |
|-----------------|-------------|-----------------|--------------|-----------------------|-----------|--------|
| NA | 250 | 52,200 | 0.00479 | 237.87 | -4.9 | Yes |
| NA | 250 | 54,200 | 0.00461 | 246.98 | -1.2 | Yes |
| NA | 250 | 52,000 | 0.00481 | 236.96 | -5.2 | Yes |
| NA | 250 | 54,900 | 0.00455 | 250.17 | 0.1 | Yes |
| NA | 250 | 52,400 | 0.00477 | 238.78 | -4.5 | Yes |
| NA | 250 | 52,400 | 0.00477 | 238.78 | -4.5 | Yes |
| NA | 250 | 54,000 | 0.00463 | 246.07 | -1.6 | Yes |
| NA | 250 | 53,300 | 0.00469 | 242.88 | -2.8 | Yes |

Mercury Calibration Summary (Henderson Unit 2)





G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
SUMMERVILLE, PA 15864
(814) 849-2559
FAX (814) 849-8878

RECEIVED FROM:

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

BENSONVILLE, IL

60106

894730

LAB NO.

08/04/11

SAMPLED

08/11/11

RECEIVED

08/26/11

REPORTED

SAMPLE MARKED:

PROJECT #3648
BIG RIVERS ELECTRIC
SAMPLE ID:025
HENDERSON UNIT 2/FUEL SAMPLE RUN 1
CHLORINE 2087 MG/KG DRY (USGS BULLETIN 1823)
MERCURY 0.119 MG/KG DRY OR PPM DRY (ASTM 6722)
FLUORINE 89 MG/KG DRY (ASTM 3761-96)

ANALYSIS REPORT

| | AS RECEIVED | DRY BASIS |
|------------------------------|-------------|-----------|
| % Moisture..... | 6.82 | |
| % Ash | 8.20 | 8.80 |
| % Sulfur..... | 3.27 | 3.51 |
| B.T.U..... | 12,620 | 13,544 |
| BTU (Moisture-ash free)..... | | 14,851 |
| % Volatile Matter..... | 39.27 | 42.14 |
| % Fixed Carbon..... | 45.71 | 49.06 |

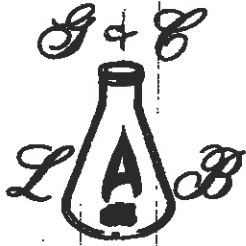
2.59 Lbs. Sul./mil. BTU

6.50 Lbs. Ash./mil. BTU

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

G&C COAL ANALYSIS LAB., INC.


G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

RECEIVED FROM:

AIRTECH ENVIRONMENTAL
601A COUNTRY CLUB DRIVE
BENSONVILLE, IL 60106

Lab # : 894730
Date Sampled: 08/04/11
Date Received: 08/11/11
Date Reported: 08/24/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE #025
BIG RIVERS ELECTRIC
FUEL SAMPLE RUN 1 - HENDERSON UNIT 2

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

As Received**

Dry Basis

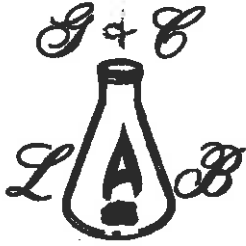
| | As Received** | Dry Basis |
|-----------------------------|---------------|-----------|
| % CARBON | 64.69 | 73.85 |
| % HYDROGEN | 4.48 | 5.12 |
| % NITROGEN | 1.39 | 1.59 |
| % OXYGEN (by difference) | 6.10 | 6.96 |
| % ASH | 8.24 | 9.41 |
| % SULFUR | 2.69 | 3.07 |
| % MOISTURE | 12.41 | |

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road
Summerville, Pa 15864
814-849-2559
Fax: 814-849-8878

Received From:

G&C Lab#: 894730

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 08/04/11

Date Received: 08/11/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

BIG RIVERS ELECTRIC

SAMPLE ID:025

HENDERSON UNIT 2/FUEL SAMPLE RUN 1

CHLORINE 2087 MG/KG DRY (USGS BULLETIN 1823)

MERCURY 0.119 MG/KG DRY OR PPM DRY (ASTM 6722)

FLUORINE 89 MG/KG DRY (ASTM 3761-96)

% Total Moisture 6.82

% Ash Dry 8.80

% Ash As Received 8.20

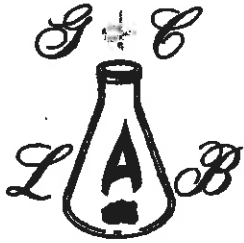
| | OF ASH MG/KG | COAL (DRY) MG/KG | COAL (AS REC) MG/KG |
|-----------|-----------------|---------------------|------------------------|
| Antimony | 0.15 | 0.01 | 0.01 |
| Arsenic | 33.64 | 2.96 | 2.76 |
| Beryllium | 9.51 | 0.84 | 0.78 |
| Cadmium | 3.64 | 0.32 | 0.30 |
| Chromium | 54.01 | 4.75 | 4.43 |
| Cobalt | 22.86 | 2.01 | 1.87 |
| Lead | 105.72 | 9.30 | 8.67 |
| Manganese | 163.58 | 14.40 | 13.41 |
| Nickel | 75.98 | 6.69 | 6.23 |

Procedure followed using EPA-SW-846, ASTM Method 3030b,6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

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 SUMMERVILLE, PA 15864
 (814) 849-2559
 FAX (814) 849-8878

RECEIVED FROM:

AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

BENSONVILLE, IL

60106

894729

LAB NO. 08/04/11
 SAMPLED 08/11/11
 RECEIVED 08/26/11
 REPORTED

SAMPLE MARKED:

PROJECT #3648
 BIG RIVERS ELECTRIC
 SAMPLE ID:026
 HENDERSON UNIT 2/FUEL SAMPLE RUN 2
 CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)
 MERCURY 0.111 MG/KG DRY OR PPM DRY (ASTM 6722)
 FLUORINE 69 MG/KG DRY (ASTM 3761-96)

ANALYSIS REPORT

| | AS RECEIVED | DRY BASIS |
|------------------------------|-------------|-----------|
| % Moisture..... | 7.09 | |
| % Ash | 8.90 | 9.58 |
| % Sulfur..... | 3.40 | 3.66 |
| B.T.U..... | 12,439 | 13,388 |
| BTU (Moisture-ash free)..... | | 14,806 |
| % Volatile Matter..... | 38.72 | 41.67 |
| % Fixed Carbon..... | 45.29 | 48.75 |

2.73 Lbs. Sul./mil. BTU
 7.15 Lbs. Ash./mil. BTU

THE ABOVE ANALYTICAL RESULTS WERE
 OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY G&C COAL ANALYSIS LAB., INC.


G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 894729

 AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

Date Sampled: 08/04/11

Date Received: 08/11/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:026

HENDERSOON UNIT 2/FUEL SAMPLE RUN 2

CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)

BIG RIVERS ELECTRIC

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

 As Received Dry Basis
 ----- -----

| | | |
|------------------|-------|-------|
| % CARBON | 69.78 | 75.10 |
| % HYDROGEN | 4.90 | 5.27 |
| % NITROGEN | 1.35 | 1.45 |
| % Oxygen | 6.23 | 6.67 |
| (by Difference) | | |
| % Ash | 8.90 | 9.58 |
| % Sulfur | 3.40 | 3.66 |
| % Total Moisture | 7.09 | |

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 894729

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 08/04/11

Date Received: 08/11/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:026

HENDERSOON UNIT 2/FUEL SAMPLE RUN 2

CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)

MERCURY 0.111 MG/KG DRY OR PPM DRY (ASTM 6722)

FLUORINE 69 MG/KG DRY (ASTM 3761-96)

BIG RIVERS ELECTRIC

% Total Moisture 7.09

% Ash Dry 9.58

% Ash As Received 8.90

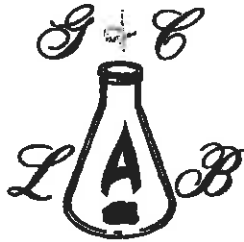
| | OF ASH MG/KG | COAL (DRY) MG/KG | COAL (AS REC) MG/KG |
|-----------|-----------------|---------------------|------------------------|
| Antimony | 0.40 | 0.04 | 0.04 |
| Arsenic | 3.47 | 0.33 | 0.31 |
| Beryllium | 7.42 | 0.71 | 0.66 |
| Cadmium | 4.24 | 0.41 | 0.38 |
| Chromium | 28.70 | 2.75 | 2.55 |
| Cobalt | 19.98 | 1.91 | 1.78 |
| Lead | 108.50 | 10.39 | 9.66 |
| Manganese | 150.66 | 14.43 | 13.41 |
| Nickel | 64.21 | 6.15 | 5.71 |

Procedure followed using EPA-SW-846, ASTM Method 3030b, 6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
 SUMMERVILLE, PA 15864
 (814) 849-2559
 FAX (814) 849-8878

894728

RECEIVED FROM:

AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

LAB NO. 08/04/11

SAMPLED 08/11/11

RECEIVED

REPORTED 08/26/11

BENSONVILLE, IL

60106

SAMPLE MARKED:

PROJECT #3648
 BIG RIVERS ELECTRIC
 SAMPLE ID:027
 HENDERSON UNIT 2/FUEL SAMPLE RUN 3
 CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)
 MERCURY 0.121 MG/KG DRY OR PPM DRY (ASTM 6722)
 FLUORINE 88 MG/KG DRY (ASTM 3761-96)

ANALYSIS REPORT

| | AS RECEIVED | DRY BASIS |
|------------------------------|-------------|-----------|
| % Moisture..... | 7.67 | |
| % Ash | 9.96 | 10.79 |
| % Sulfur..... | 3.22 | 3.49 |
| B.T.U..... | 12,174 | 13,185 |
| BTU (Moisture-ash free)..... | | 14,780 |
| % Volatile Matter..... | 38.05 | 41.21 |
| % Fixed Carbon..... | 44.32 | 48.00 |
| 2.64 Lbs. Sul./mil. BTU | | |
| 8.18 Lbs. Ash./mil. BTU | | |

THE ABOVE ANALYTICAL RESULTS WERE
 OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

[Signature]
 G&C COAL ANALYSIS LAB., INC.


G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road
 Summerville, Pa 15864
 814-849-2559
 Fax: 814-849-8878

Received From:

G&C Lab#: 894728

AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

Date Sampled: 08/04/11

Date Received: 08/11/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

BIG RIVERS ELECTRIC

SAMPLE ID:027

HENDERSON UNIT 2/FUEL SAMPLE RUN 3

CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

| | As Received | Dry Basis |
|------------------|-------------|-----------|
| % CARBON | 68.35 | 74.03 |
| % HYDROGEN | 4.78 | 5.18 |
| % NITROGEN | 1.37 | 1.48 |
| % Oxygen | 6.30 | 6.76 |
| (by Difference) | | |
| % Ash | 9.96 | 10.79 |
| % Sulfur | 3.22 | 3.49 |
| % Total Moisture | 7.67 | |

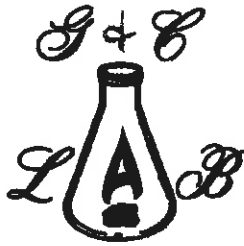
| | As Received | Dry Basis |
|------------------|-------------|-----------|
| % CARBON | 68.35 | 74.03 |
| % HYDROGEN | 4.78 | 5.18 |
| % NITROGEN | 1.37 | 1.48 |
| % Oxygen | 6.30 | 6.76 |
| (by Difference) | | |
| % Ash | 9.96 | 10.79 |
| % Sulfur | 3.22 | 3.49 |
| % Total Moisture | 7.67 | |

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY



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Summerville, Pa 15864
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Fax: 814-849-8878

Received From:

G&C Lab#: 894728

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 08/04/11

Date Received: 08/11/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

BIG RIVERS ELECTRIC

SAMPLE ID:027

HENDERSON UNIT 2/FUEL SAMPLE RUN 3

CHLORINE 2160 MG/KG DRY (USGS BULLETIN 1823)

MERCURY 0.121 MG/KG DRY OR PPM DRY (ASTM 6722)

FLUORINE 88 MG/KG DRY (ASTM 3761-96)

% Total Moisture 7.67

% Ash Dry 10.79

% Ash As Received 9.96

| | OF ASH MG/KG | COAL (DRY) MG/KG | COAL (AS REC) MG/KG |
|-----------|-----------------|---------------------|------------------------|
| Antimony | 0.76 | 0.08 | 0.08 |
| Arsenic | 47.04 | 5.08 | 4.69 |
| Beryllium | 7.97 | 0.86 | 0.79 |
| Cadmium | 3.87 | 0.42 | 0.39 |
| Chromium | 49.42 | 5.33 | 4.92 |
| Cobalt | 21.31 | 2.30 | 2.12 |
| Lead | 99.53 | 10.74 | 9.91 |
| Manganese | 196.70 | 21.22 | 19.59 |
| Nickel | 68.97 | 7.44 | 6.87 |

Procedure followed using EPA-SW-846, ASTM Method 3030b, 6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____

BIG RIVERS ELECTRIC CORP. CHAIN OF CUSTODY RECORD

No. _____

Sampling Location: HPMRL

| Plant ID. Sample Number | Date Time | Central Lab ID. Sample Number | Station Description | Sampling Method | Sample Size | Type of Preservation | Analysis Requested |
|------------------------------------|------------------|-------------------------------|----------------------------------|-----------------|-------------|--------------------------------|--------------------|
| 022 | 8-20-11 10:00 | | High Voltage Unit #1 Main Bus | | 2 bags | | |
| 023 | 8-20-11 12:00 | | High Voltage Unit #1 Main Bus | | 1 bag | | |
| 024 | 8-30-11 16:00 | | High Voltage Unit #1 Main Bus | | 1 bag | | |
| 025 | 8-4-11 10:00 | | High Voltage Unit #1 Main Bus | | 1 bag | | |
| 026 | 8-4-11 12:00 | | High Voltage Unit #1 Main Bus | | 1 bag | | |
| 027 | 8-4-11 16:00 | | High Voltage Unit #1 Main Bus | | 1 bag | | |
| Samplers (Signatures) | | | | | | | |
| Relinquished By (Signature) | | Date | | Time | | Received By (Signature) | |
| <i>[Signature]</i> | | 8/21/11 | | 12:00 | | <i>[Signature]</i> | |
| Relinquished By (Signature) | | Date | | Time | | Received By (Signature) | |
| <i>[Signature]</i> | | | | | | <i>[Signature]</i> | |
| Relinquished By (Signature) | | Date | | Time | | Received By (Signature) | |
| <i>[Signature]</i> | | | | | | <i>[Signature]</i> | |
| Relinquished By (Signature) | | Date | | Time | | Received By (Signature) | |
| <i>[Signature]</i> | | | | | | <i>[Signature]</i> | |

White Copy - Central Lab
 Yellow Copy - Plant (Final Copy)
 Pink Copy - Plant Env. Contact
 Gold Copy - Plant Lab

NOTE: Sample is A + B mix (2 bags)
 04 bag sample