

***Laboratory Data***



**AIRTECH**

*Environmental  
Services Inc.*

## **Gravimetric Analytical Report**

**Performed for  
Big Rivers  
Wilson Station-  
Petcoke**  
*Project No. 3648  
August 22, 2011*

Analyst: \_\_\_\_\_  
James Christ

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

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## **APPENDIX**

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

## Project Summary

### General

<b>Project Information</b>	
Date Received	July 18, 2011
Analytical Protocol	EPA Methods 5B/202
Number of Samples Received	75

### 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.

At ESP 1 Outlet Run 1 and ESP 4 Outlet Run 2, the front half rinses were heavily laden with material. This could be caused by some port scrapings. From a review the job log there were issues with the ports not being cleaned out fully which could cause the nozzle to scrap against the buildup. No attempt was made to separate out the material from the sample.

### 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**

<b>Stack</b>			
<b>Filterable PM</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Front-Half Particulate (g)	0.0342	0.0130	0.0247
<b>Condensable Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Condensable Particulate (g)	0.0172	0.0145	0.0186
<b>Total Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Total Particulate (g)	0.0513	0.0276	0.0433
<b>ESP 1 Outlet</b>			
<b>Filterable PM</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Front-Half Particulate (g)	0.2054	0.0067	0.0188
<b>Condensable Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Condensable Particulate (g)	0.0399	0.0161	0.0606
<b>Total Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Total Particulate (g)	0.2453	0.0228	0.0795
<b>ESP 2 Outlet</b>			
<b>Filterable PM</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Front-Half Particulate (g)	0.0061	0.0061	0.0057
<b>Condensable Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Condensable Particulate (g)	0.0179	0.0140	0.0224
<b>Total Particulate</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Total Particulate (g)	0.0240	0.0201	0.0280

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

**ESP 3 Outlet**

Filterable PM	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Front-Half Particulate (g)	0.0058	0.0039	0.0193

Condensable Particulate	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Condensable Particulate (g)	0.0495	0.0483	0.0222

Total Particulate	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Total Particulate (g)	0.0554	0.0522	0.0416

**ESP 4 Outlet**

Filterable PM	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Front-Half Particulate (g)	0.0038	0.0304	0.0021

Condensable Particulate	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Condensable Particulate (g)	0.0319	0.0128	0.0331

Total Particulate	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>
Total Particulate (g)	0.0357	0.0432	0.0352

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# Appendix

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**Includes the following:**

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

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## *Data Entry*

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**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>		12074	12125	12142
Filter tare weight (g)	Trial 1	0.3540	0.3443	0.3560
	Trial 2	0.3541	0.3442	0.3557
	Average	0.3541	0.3443	0.3559
Filter final weight (g)	Trial 1	0.3592	0.3508	0.3614
	Trial 2	0.3595	0.3504	0.3619
	Average	0.3594	0.3506	0.3617
<b>Filter net weight, <math>m_f</math> (g)</b>		<b>0.0053</b>	<b>0.0064</b>	<b>0.0058</b>
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 49	38	58
Beaker tare weight (g)	Trial 1	35.7610	33.9784	30.6513
	Trial 2	35.7611	33.9781	30.6512
	Average	35.7611	33.9783	30.6513
Beaker final weight (g)	Trial 1	35.7898	33.9849	30.6702
	Trial 2	35.7900	33.9850	30.6701
	Average	35.7899	33.9850	30.6702
Volume of Wash, $V_{aw}$ (ml)		100	160	75
<b>Beaker weight, <math>m_a</math> (g)</b>		<b>0.0289</b>	<b>0.0067</b>	<b>0.0189</b>
<u>Organic Fraction</u>		<i>Weighing tin ID</i> A2	A3	A4
Weighing tin tare weight (g)	Trial 1	3.5655	3.5644	3.5481
	Trial 2	3.5653	3.5643	3.5483
	Average	3.5654	3.5644	3.5482
Weighing tin final weight (g)	Trial 1	3.5732	3.5688	3.5629
	Trial 2	3.5728	3.5692	3.5625
	Average	3.5730	3.5690	3.5627
Volume of Wash, $V_{aw}$ (ml)		375	300	425
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0076</b>	<b>0.0046</b>	<b>0.0145</b>
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 61	205	140
Weighing tin tare weight (g)	Trial 1	103.5480	84.8560	85.8962
	Trial 2	103.5484	84.8556	85.8967
	Average	103.5482	84.8558	85.8965
Weighing tin final weight (g)	Trial 1	103.5587	84.8671	85.9020
	Trial 2	103.5592	84.8666	85.9015
	Average	103.5590	84.8669	85.9018
Volume of Wash, $V_{aw}$ (ml)		400	415	430
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0108</b>	<b>0.0111</b>	<b>0.0053</b>

Method 5B/202 Parameters		Run 1	Run 2	Run 3
<u>Filter</u>		12071	12124	12140
Filter tare weight (g)	Trial 1	0.3562	0.3416	0.3534
	Trial 2	0.3557	0.3416	0.3530
	Average	0.3560	0.3416	0.3532
Filter final weight (g)	Trial 1	0.3751	0.3438	0.3675
	Trial 2	0.3754	0.3441	0.3671
	Average	0.3753	0.3440	0.3673
<b>Filter net weight, <math>m_r</math> (g)</b>		<b>0.0193</b>	<b>0.0023</b>	<b>0.0141</b>
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 21	24	56
Beaker tare weight (g)	Trial 1	35.8155	35.3629	36.6345
	Trial 2	35.8152	35.3628	36.6340
	Average	35.8154	35.3629	36.6343
Beaker final weight (g)	Trial 1	36.0016	35.3670	36.6391
	Trial 2	36.0012	35.3674	36.6389
	Average	36.0014	35.3672	36.6390
Volume of Wash, $V_{aw}$ (ml)		145	100	145
<b>Beaker net weight, <math>m_a</math> (g)</b>		<b>0.1861</b>	<b>0.0043</b>	<b>0.0047</b>
<u>Organic Fraction</u>		<i>Weighing tin ID</i> 415	411	409
Weighing tin tare weight (g)	Trial 1	106.4700	103.3249	107.5265
	Trial 2	106.4696	103.3246	107.5264
	Average	106.4698	103.3248	107.5265
Weighing tin final weight (g)	Trial 1	106.4945	103.3340	107.5789
	Trial 2	106.4949	103.3335	107.5790
	Average	106.4947	103.3338	107.5790
Volume of Wash, $V_{aw}$ (ml)		325	400	310
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0249</b>	<b>0.0090</b>	<b>0.0525</b>
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> D6	D7	D8
Weighing tin tare weight (g)	Trial 1	3.5709	3.5468	3.5604
	Trial 2	3.5709	3.5470	3.5608
	Average	3.5709	3.5469	3.5606
Weighing tin final weight (g)	Trial 1	3.5873	3.5553	3.5698
	Trial 2	3.5869	3.5550	3.5700
	Average	3.5871	3.5552	3.5699
Volume of Wash, $V_{aw}$ (ml)		400	450	475
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0162</b>	<b>0.0083</b>	<b>0.0093</b>

Method 5B/202 Parameters		Run 1	Run 2	Run 3
<u>Filter</u>		12148	12127	12141
Filter tare weight (g)	Trial 1	0.3509	0.3419	0.3574
	Trial 2	0.3509	0.3422	0.3572
	Average	0.3509	0.3421	0.3573
Filter final weight (g)	Trial 1	0.3533	0.3456	0.3602
	Trial 2	0.3532	0.3459	0.3604
	Average	0.3533	0.3458	0.3603
<b>Filter net weight, <math>m_f</math> (g)</b>		<b>0.0024</b>	<b>0.0037</b>	<b>0.0030</b>
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 15	30	28
Beaker tare weight (g)	Trial 1	40.1538	35.6451	40.3713
	Trial 2	40.1540	35.6451	40.3712
	Average	40.1539	35.6451	40.3713
Beaker final weight (g)	Trial 1	40.1576	35.6474	40.3738
	Trial 2	40.1577	35.6477	40.3740
	Average	40.1577	35.6476	40.3739
Volume of Wash, $V_{aw}$ (ml)		125	110	90
<b>Beaker net weight, <math>m_a</math> (g)</b>		<b>0.0038</b>	<b>0.0024</b>	<b>0.0027</b>
<u>Organic Fraction</u>		<i>Weighing tin ID</i> C8	D1	D2
Weighing tin tare weight (g)	Trial 1	3.5624	3.5292	3.4931
	Trial 2	3.5621	3.5295	3.4932
	Average	3.5623	3.5294	3.4932
Weighing tin final weight (g)	Trial 1	3.5682	3.5335	3.5039
	Trial 2	3.5678	3.5330	3.5036
	Average	3.5680	3.5333	3.5038
Volume of Wash, $V_{aw}$ (ml)		390	250	390
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0058</b>	<b>0.0039</b>	<b>0.0106</b>
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 224	306	408
Weighing tin tare weight (g)	Trial 1	81.4896	85.4126	106.3243
	Trial 2	81.4897	85.4126	106.3245
	Average	81.4897	85.4126	106.3244
Weighing tin final weight (g)	Trial 1	81.5029	85.4238	106.3376
	Trial 2	81.5031	85.4239	106.3371
	Average	81.5030	85.4239	106.3374
Volume of Wash, $V_{aw}$ (ml)		320	345	345
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0134</b>	<b>0.0113</b>	<b>0.0130</b>

Method 5B/202 Parameters		Run 1	Run 2	Run 3
<u>Filter</u>		12072	12082	12143
Filter tare weight (g)	Trial 1	0.3527	0.3496	0.3584
	Trial 2	0.3523	0.3497	0.3587
	Average	0.3525	0.3497	0.3586
Filter final weight (g)	Trial 1	0.3552	0.3524	0.3674
	Trial 2	0.3552	0.3519	0.3676
	Average	0.3552	0.3522	0.3675
<b>Filter net weight, <math>m_f</math> (g)</b>		<b>0.0027</b>	<b>0.0025</b>	<b>0.0089</b>
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 46	33	51
Beaker tare weight (g)	Trial 1	34.4579	33.1962	43.4099
	Trial 2	34.4575	33.1959	43.4096
	Average	34.4577	33.1961	43.4098
Beaker final weight (g)	Trial 1	34.4606	33.1972	43.4199
	Trial 2	34.4611	33.1976	43.4204
	Average	34.4609	33.1974	43.4202
Volume of Wash, $V_{aw}$ (ml)		75	60	60
<b>Beaker net weight, <math>m_a</math> (g)</b>		<b>0.0031</b>	<b>0.0014</b>	<b>0.0104</b>
<u>Organic Fraction</u>		<i>Weighing tin ID</i> C2	C3	C4
Weighing tin tare weight (g)	Trial 1	3.5708	3.5301	3.5199
	Trial 2	3.5711	3.5301	3.5197
	Average	3.5710	3.5301	3.5198
Weighing tin final weight (g)	Trial 1	3.5853	3.5381	3.5313
	Trial 2	3.5852	3.5382	3.5309
	Average	3.5853	3.5382	3.5311
Volume of Wash, $V_{aw}$ (ml)		375	380	520
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0143</b>	<b>0.0080</b>	<b>0.0113</b>
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 226	413	24
Weighing tin tare weight (g)	Trial 1	85.2855	105.0427	95.5548
	Trial 2	85.2856	105.0429	95.5544
	Average	85.2856	105.0428	95.5546
Weighing tin final weight (g)	Trial 1	85.3222	105.0840	95.5668
	Trial 2	85.3217	105.0845	95.5666
	Average	85.3220	105.0843	95.5667
Volume of Wash, $V_{aw}$ (ml)		375	350	275
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0364</b>	<b>0.0414</b>	<b>0.0121</b>



Method 5B/202 Parameters		Run 1	Run 2	Run 3	Blank
<u>Filter</u>		12073	12126	12144	
Filter tare weight (g)	Trial 1	0.3532	0.3445	0.3583	
	Trial 2	0.3531	0.3446	0.3586	
	Average	0.3532	0.3446	0.3585	
Filter final weight (g)	Trial 1	0.3552	0.3503	0.3600	
	Trial 2	0.3548	0.3503	0.3600	
	Average	0.3550	0.3503	0.3600	
<b>Filter net weight, <math>m_f</math> (g)</b>		<b>0.0018</b>	<b>0.0057</b>	<b>0.0016</b>	
<u>PM Front Half Wash</u>	<i>Beaker ID</i>	42	57	26	X6
Beaker tare weight (g)	Trial 1	30.6915	40.6286	33.9297	3.6040
	Trial 2	30.6917	40.6283	33.9300	3.6039
	Average	30.6916	40.6285	33.9299	3.6040
Beaker final weight (g)	Trial 1	30.6935	40.6530	33.9304	3.6038
	Trial 2	30.6936	40.6532	33.9305	3.6036
	Average	30.6936	40.6531	33.9305	3.6037
Volume of Wash, $V_{aw}$ (ml)		75	75	45	200
<b>Beaker net weight, <math>m_a</math> (g)</b>		<b>0.0020</b>	<b>0.0246</b>	<b>0.0006</b>	<b>0.0000</b>
<u>Organic Fraction</u>					
	<i>Weighing tin ID</i>	A8	B5	B6	X5
Weighing tin tare weight (g)	Trial 1	3.5722	3.5777	3.5278	3.5545
	Trial 2	3.5719	3.5777	3.5279	3.5546
	Average	3.5721	3.5777	3.5279	3.5546
Weighing tin final weight (g)	Trial 1	3.5779	3.5800	3.5342	3.5543
	Trial 2	3.5780	3.5797	3.5339	3.5542
	Average	3.5780	3.5799	3.5341	3.5543
Volume of Wash, $V_{aw}$ (ml)		385	385	375	200
<b>Weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0059</b>	<b>0.0021</b>	<b>0.0062</b>	<b>0.0000</b>
<u>Inorganic Fraction</u>					
	<i>Weighing tin ID</i>	303	121	132	421
Weighing tin tare weight (g)	Trial 1	87.7732	85.8692	81.6881	106.1451
	Trial 2	87.7729	85.8688	81.6881	106.1449
	Average	87.7731	85.8690	81.6881	106.1450
Weighing tin final weight (g)	Trial 1	87.8004	85.8806	81.7160	106.1460
	Trial 2	87.8001	85.8811	81.7164	106.1464
	Average	87.8003	85.8809	81.7162	106.1462
Volume of Wash, $V_{aw}$ (ml)		300	385	375	200
<b>weighing tin net weight, <math>m_a</math> (g)</b>		<b>0.0272</b>	<b>0.0119</b>	<b>0.0281</b>	<b>0.0012</b>

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## *Raw Data*

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**Includes the following:**

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

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
12070			Tare	0.3526	4/10 11:03	0.3522	4/12 10:42		✓
			Tech						
			Final						
			Tech						
			Notes						
1	3648 Wilson ESP-1	Light Dots	Tare	0.3562	4/10 11:24	0.3557	4/11 10:43		✓
			Tech						
			Final	0.3751	7/28 10:24	0.3754	7/28 16:32		✓
			Tech						
			Notes						
1	3648 Wilson ESP 3	White Dots	Tare	0.3527	4/10 11:25	0.3523	4/11 10:49		✓
			Tech						
			Final	0.3552	7/27 10:11	0.3552	7/28 10:11		✓
			Tech						
			Notes						
1	3648 Wilson ESP 3	White	Tare	0.3532	4/10 11:26	0.3531	4/11 10:49		✓
			Tech						
			Final	0.3582	7/27 10:08	0.3548	7/28 10:08		✓
			Tech						
			Notes						
1	3648 Wilson Stack	Light Spots	Tare	0.3540	4/10 11:27	0.3541	4/11 10:56		✓
			Tech						
			Final	0.3592	7/27 15:47	0.3595	7/28 10:29		✓
			Tech						
			Notes						
1	3615 Shakeout	Lt. Dots	Tare	0.3530	4/10 11:27	0.3529	4/11 10:57		✓
			Tech						
			Final	0.3547	6/6 7:05	0.3546	6/6 7:10		✓
			Tech						
			Notes						
2	3615 Shakeout	Lt. Dots	Tare	0.3540	4/10 11:28	0.3535	4/11 10:58		✓
			Tech						
			Final	0.3555	6/6 7:04	0.3555	6/6 7:11		✓
			Tech						
			Notes						
12077			Tare	0.3534	4/10 11:29	0.3530	4/11 11:06		✓
			Tech						
			Final						
			Tech						
			Notes						
12078			Tare	0.3528	4/10 11:30	0.3531	4/11 11:01		✓
			Tech						
			Final						
			Tech						
			Notes	Filter Grav					

AIRTECH ENVIRONMENTAL SERVICES INC.  
Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
1 Filter ID 12079	3498 B3	Black	Tare	0.3569	4/20 11:31	0.3570	4/21 11:02		✓
			Tech						
			Final	0.6049	6/13 8:57	0.6051	6/16 11:09		✓
			Tech				EA		
Notes	1								
2 Filter ID 12080	3498 B3	Black	Tare	0.3533	4/20 11:33	0.3530	4/21 11:03		✓
			Tech						
			Final	0.6459	6/13 8:55	0.6464	6/16 11:14		✓
			Tech				EA		
Notes	1								
3 Filter ID 12081	3498 B3	Black	Tare	0.3500	4/20 11:34	0.3500	4/21 11:11		✓
			Tech						
			Final	0.5874	6/13 8:36	0.5878	6/16/14 11:11		✓
			Tech				EA		
Notes	1								
2 Filter ID 12082	3648 Wilson ESP3	light Brown	Tare	0.3496	4/20 11:35	0.3497	4/21 11:13		✓
			Tech	0.3524					
			Final	0.3524	7/27 14:04	0.3519	7/28 10:07		✓
			Tech				MT		
Notes	1								
1 Filter ID 12083	512 3601 5/202	Lt. B Dots	Tare	0.3532	4/20 11:35	0.3528	4/21 11:14		✓
			Tech						
			Final	0.3540	6/22 15:28	0.3545	6/23 10:56		✓
			Tech						
Notes	1								
2 Filter ID 12084	512 3601 5/202	Lt. B Dots	Tare	0.3521	4/20 11:36	0.3519	4/21 11:15		✓
			Tech						
			Final	0.3529	6/22 15:27	0.3531	6/23 10:56		✓
			Tech						
Notes	1								
1 Filter ID 12085	15A 3601 5/202	white	Tare	0.3539	4/20 11:37	0.3540	4/21 11:16		✓
			Tech						
			Final	0.3539	6/22 15:30	0.3539	6/23 10:57		✓
			Tech						
Notes	1								
2 Filter ID 12086	3601 15A 5/202	w	Tare	0.3521	4/20 11:38	0.3521	4/21 11:16		✓
			Tech						
			Final	0.3520	6/22 15:31	0.3520	6/23 10:57		✓
			Tech						
Notes	1								
1 Filter ID 12087	3601 15B 5/202		Tare	0.3579	4/20 11:38	0.3579	4/21 11:17		✓
			Tech						
			Final	0.3579	6/22 15:29	0.3579	6/23 11:00		✓
			Tech						
Notes	Filter Grav								

Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
2 Filter ID 12124	3648 Wilson ESP 1	light spots	Tare	0.3416	9/6 10:51	0.3416	6/10 11:37			✓
			Tech		ML		ML			
			Final	0.3436	7/27 15:00	0.3441	7/28 10:19			✓
			Tech		SH		ML			
Notes										
2 Filter ID 12125	3648 Wilson stack	light spots	Tare	0.3443	9/6 10:51	0.3442	6/10 11:33			✓
			Tech		ML		ML			
			Final	0.3508	7/27 15:51	0.3504	7/28 10:25			✓
			Tech		SH		ML			
Notes										
2 Filter ID 12126	3648 Wilson ESP 4	Dots white	Tare	0.3445	9/6 10:52	0.3446	6/10 11:34			✓
			Tech		ML		ML			
			Final	0.3503	7/27 15:25	0.3503	7/28 10:10			✓
			Tech		SH		ML			
Notes										
1 Filter ID 12127	3648 Wilson ESP 2	light spots	Tare	0.3419	9/6 10:52	0.3422	6/10 11:35			✓
			Tech		ML		ML			
			Final	0.3456	7/27 15:57	0.3459	7/28 10:31			✓
			Tech		SH		ML			
Notes										
2 Filter ID 12128	3648 Coleman ESP 1	Brown	Tare	0.3403	9/6 10:53	0.3405	6/10 11:36			✓
			Tech		ML		ML			
			Final	0.5855	7/27 14:28	0.5841	7/28 9:42	0.5857	4/11 7/28	✓
			Tech		SH		ML		ML	
Notes										
3 Filter ID 12129	3648 Coleman ESP 1	Brown	Tare	0.3536	9/6 11:10	0.3535	6/10 11:36			✓
			Tech		ML		ML			
			Final	0.5499	7/27 14:46	0.5499	7/28 9:41			✓
			Tech		SH		ML			
Notes										
2 Filter ID 12130	3648 Coleman stack	Black spots	Tare	0.3542	9/6 11:10	0.3541	6/10 11:37			✓
			Tech		ML		ML			
			Final	0.3643	7/27 14:51	0.3636	7/28 9:37	0.3636	7/28 4:13	✓
			Tech		SH		ML		ML	
Notes										
3 Filter ID 12131	3648 Coleman stack	Black spots	Tare	0.3528	9/6 11:11	0.3529	6/10 11:38			✓
			Tech		ML		ML			
			Final	0.3620	7/27 14:52	0.3611	7/28 9:39	0.3613	7/28 4:14	✓
			Tech		SH		ML		ML	
Notes										
2 Filter ID 12132	3648 Coleman ESP 3	Black	Tare	0.3587	9/6 11:11	0.3584	6/10 11:38			✓
			Tech		ML		ML			
			Final	0.6082	7/27 14:50	0.6033	7/28 9:40	0.5924	8/1 9:46	✓
			Tech		SH		ML		ML	
Notes	Filter Grav									

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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	3648 Coleman	Black	Tare	0.3558	6/9 11:12	0.3558	6/10 11:40			✓
			Tech		ML		ML			
			Final	0.5525	7/27 14:52	0.5501	7/28 9:37	1.2193	7/29 9:46	✓
			Tech		SH		MH	0.5457	MH	
Filter ID	12133	ESP-3	Notes							
2	3648 Coleman	Black	Tare	0.3518	6/9 11:13	0.3515	6/10 11:40			✓
			Tech		ML		ML			
			Final	0.6492	7/27 14:55	0.6439	7/28 9:36	0.6318	7/28 16:02	✓
			Tech		SH		MH			
Filter ID	12134	ESP 2	Notes							
3	3648 Coleman	Black	Tare	0.3513	6/9 11:13	0.3514	6/10 11:41			✓
			Tech		ML		ML			
			Final	0.6149	7/27 14:57	0.6101	7/28 9:35	0.6019	7/28 9:44	✓
			Tech		SH		MH			
Filter ID	12135	ESP 2	Notes							
1	3648 Coleman	Brown	Tare	0.3540	6/9 11:14	0.3543	6/10 11:41			✓
			Tech		ML		ML			
			Final	0.7083	7/25 11:10	0.7023	7/26 11:17	0.7071	7/27 15:12	✓
			Tech		1		MH		SH	
Filter ID	12136	ESP 1	Notes							
1	3648 Coleman	Grey	Tare	0.3512	6/9 10:55	0.3509	6/10 11:40			✓
			Tech		ML		ML			
			Final	0.3862	7/25 11:07	0.3804	7/26 11:18	0.3464	7/27 15:07	✓
			Tech		1		ML		SH	
Filter ID	12137	Stack	Notes							
1	3648 Coleman	B	Tare	0.3548	6/9 10:56	0.3549	6/10 11:42			✓
			Tech		ML		ML			
			Final	0.5133	7/25 11:08	0.5085	7/26 11:15	0.5057	7/27 15:18	✓
			Tech		1		MH		SH	
Filter ID	12138	ESP 2	Notes							
1	3648 ESP 3	B	Tare	0.3531	6/9 10:56	0.3536	6/10 11:43			✓
			Tech		ML		ML			
			Final	0.6084	7/25 11:11	0.6055	7/26 11:16	0.5999	7/27 15:14	✓
			Tech	0.5844	7/10 10:07	0.5847	7/11 16:44		SH	
Filter ID	12139		Notes							
3	3648 Wilson	Light Spots	Tare	0.3534	6/9 10:57	0.3530	6/10 11:41			✓
			Tech		ML		ML			
			Final	0.3675	7/27 15:34	0.3671	7/28 10:22			✓
			Tech		SH		MH			
Filter ID	12140	ESP 1	Notes							
3	3648 Wilson	Light Spots	Tare	0.3574	6/9 10:53	0.3572	6/10 11:44			✓
			Tech		ML		ML			
			Final	0.3602	7/27 15:53	0.3601	7/28 10:34			✓
			Tech		SH		MH			
Filter ID	12141	ESP 2	Notes	Filter Grav						

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0.62  
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0.60  
8/11  
M

0.3518  
7/28  
M

0.381  
7/28  
M

0.597  
7/28  
M

0.597  
8/3  
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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	3648 J. Kon	light spots	Tare	0.3560	6/9 10:59	0.3557	6/10 11:45			✓
			Tech		ML		ML			
			Final	0.3614	7/27 15:48	0.3619	7/28 10:29			✓
			Tech		SH		MH			
Filter ID	12142	Stack	Notes							
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	12143	ESP-03	Notes							
3	3648 Wilson	white dots	Tare	0.3583	6/9 11:00	0.3586	6/10 11:49			✓
			Tech		ML		ML			
			Final	0.3614	7/27 15:27	0.3600	7/28 10:06	0.3600	7/28 16:32	✓
			Tech		SH		MH		MH	
Filter ID	12144	ESP-03	Notes							
1	Green Stack	gray dots	Tare	0.3503	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	12145	Unit 1	Notes							
2	Green Stack	gray 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	12146	U-1	Notes							
3	Green Stack	gray dots	Tare	0.3526	6/9 10:44	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	12147	U-1	Notes							
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 15:58	0.3532	7/28 10:31			✓
			Tech		SH		MH			
Filter ID	12148	ESP-2	Notes							
1	3648 Stack 2	black	Tare	0.3126	7/11 13:11	0.3124	7/13 22:02			✓
			Tech		ML		ML			
			Final	0.3619	8/11 10:39	0.3625	8/11 16:49			✓
			Tech		ML		ML			
Filter ID	12149		Notes							
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 16:49			✓
			Tech		ML		ML			
Filter ID	12150		Notes							

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Beaker Gravimetric Data Sheet

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Client	<u>Big Rivers</u>	Date Received	<u>7/22/11</u>
Plant	<u>Wilson Station</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
3	Stack	202 DI	Tare	94.4496	7/7 7:29	94.4489	7/8 8:10	94.4491	7/11 5:48	✓
			Tech							
			Final							
			Tech							
Beaker ID	200+									
206	mls									
3	ESP-1	202 DI	Tare	94.4516	7/7 7:30	94.4540	7/8 8:09	94.4544	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID	200+									
208	mls									
3	ESP-2	202 DI	Tare	96.2313	7/7 7:30	96.2313	7/8 8:09	96.2318	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID	200+									
118	mls									
3	ESP-3	202 DI	Tare	96.0867	7/7 7:30	96.0867	7/8 8:09	96.0867	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID	200+									
114	mls									
1	Stack	202 DI	Tare	103.5487	7/7 7:31	103.5480	7/8 8:08	103.5484	7/11 5:47	✓
			Tech							
			Final	103.5587	7/11 10:19	103.5592	7/29 10:09			✓
			Tech		MH		MH			
Beaker ID	wt 200									
61	400 mls									
2	Stack	202 DI	Tare	84.8560	7/7 7:31	84.8556	7/8 8:08			✓
			Tech							
			Final	84.8621	7/28 10:48	84.8666	7/29 10:09			✓
			Tech		MH		MH			
Beaker ID	wt + 215									
205	415 mls									
3	Stack	202 DI	Tare	85.8968	7/7 7:32	85.8962	7/8 8:07	85.8967	7/11 5:47	✓
			Tech							
			Final	85.9020	7/28 10:49	85.9015	7/29 10:10			✓
			Tech		MH		MH			
Beaker ID	200 + 230									
140	430 mls									
4	Stack	202 DI	Tare	86.8781	7/7 7:32	86.8779	7/8 8:07			✓
			Tech							
			Final	86.8854	7/28 10:51	86.8852	7/29 10:08			✓
			Tech		MH		MH			
Beaker ID	wt + 215 + 125									
104	340 mls									



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Beaker Gravimetric Data Sheet

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Client	<u>Big Rivers</u>	Date Received	<u>7/22</u>
Plant	<u>Wilson Station</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
1	Stack	202 Hex/Ace	Tare	3.5655	6/30 9:29	3.5653	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5732	7/28 10:43	3.5728	7/29 9:56		✓
			Tech		MH		MH		
Beaker ID	200+175								
AZ	375 mls								
2	Stack	202 Hex/Ace	Tare	3.5694	6/30 9:29	3.5693	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5685	7/28 10:44	3.5692	7/29 9:57		✓
			Tech	88	MH		MH		
Beaker ID	200+100								
A3	300 mls								
3	Stack	202 Hex/Ace	Tare	3.5681	6/30 9:31	3.5483	6/30 16:00		✓
			Tech		NR		NR		
			Final	3.5629	7/29 16:41	3.5625	8/1 10:35		✓
			Tech		MH		MH		
Beaker ID	200+200+25								
A4	425 mls								
4	Stack	202 Hex/Ace	Tare	3.5326	6/30 9:30	3.5329	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5489	7/28 10:44	3.5494	7/29 9:59		✓
			Tech		MH		MH		
Beaker ID	200+200								
A5	mls								
5	Stack	202 Hex/Ace	Tare	3.5654	6/30 9:30	3.5655	6/30 16:00		✓
			Tech		NR		NR		
			Final	3.5718	7/29 16:41	3.5718	8/1 10:34		✓
			Tech		MH		MH		
Beaker ID	200+180								
A6	380 mls								
6	Stack	202 Hex/Ace	Tare	3.5652	6/30 9:32	3.5653	6/30 15:39		✓
			Tech		NR		NR		
			Final	3.5764	7/29 16:42	3.5768	8/1 10:35		✓
			Tech		MH		MH		
Beaker ID	200+200								
A7	400 mls								
7	ESP-4	202 Hex/Ace	Tare	3.5722	6/30 9:32	3.5719	6/30 15:59		✓
			Tech		NR		NR		
			Final	3.5769	7/29 16:40	3.5763	8/1 10:36		✓
			Tech	79	MH		MH		
Beaker ID	200+185								
A8	385 mls								
			Tare						
			Tech						
			Final						
			Tech						
Beaker ID									
	mls								

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Beaker Gravimetric Data Sheet

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Client	<u>Big Rivers</u>	Date Received	<u>7/22</u>
Plant	<u>Wilson Station</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
1	Stack	SB	Tare	35.760	7/11 15:00	35.761	7/25 11:24		✓	
			Tech		SH					
			Final	35.7898	7/28 10:56	35.7900	7/29 11:18		✓	
			Tech		MH		MH			
49	100 mls	Ace								
2	Stack	SB	Tare	33.9794	7/11 15:01	33.9781	7/25 11:24		✓	
			Tech		SH					
			Final	33.9853	7/28 10:54	33.9850	7/29 11:16		✓	
			Tech	49	MH		MH			
38	100 mls	Ace								
3	Stack	SB	Tare	30.6513	7/11 15:02	30.6510	7/25 11:24		✓	
			Tech		SH					
			Final	30.6702	7/28 10:54	30.6701	7/29 11:17		✓	
			Tech		MH		MH			
58	75 mls	Ace								
4	Stack	SB	Tare	33.5805	7/11 15:02	33.5803	7/25 11:27		✓	
			Tech		SH					
			Final	33.5892	7/28 10:53	33.5887	7/29 11:15		✓	
			Tech		MH		MH			
39	75 mls	Ace								
5	Stack	SB	Tare	38.3867	7/11 15:03	38.3862	7/25 11:30		✓	
			Tech		SH					
			Final	38.3967	7/28 10:56	38.3960	7/29 11:18		✓	
			Tech		MH		MH			
41	75 mls	Ace								
6	Stack	SB	Tare	36.4993	7/11 15:05	36.4988	7/25 11:29		✓	
			Tech		SH					
			Final	36.5133	7/28 10:56	36.5127	7/29 11:19		✓	
			Tech		MH		MH			
36	75 mls	Ace								
7	ESP-4	SB	Tare	30.6940	7/11 15:05	30.6915	7/25 11:25	30.6917	7/26 10:19	✓
			Tech		SH					
			Final	30.6935	7/28 10:55	30.6936	7/29 11:16		✓	
			Tech		MH		MH			
42	75 mls	Ace								
8	ESP-4	SB	Tare	40.6305	7/11 15:06	40.6286	7/25 11:29	40.6283	7/26 10:19	✓
			Tech		SH					
			Final	40.6530	7/28 10:53	40.6532	7/29 11:17		✓	
			Tech		MH		MH			
57	75 mls	Ace								

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Beaker Gravimetric Data Sheet

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Client	Big River	Date Received	2/22
Plant	Wilson		

Run No	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
1	ESP-1	SB	Tare	35.8180	7/11 15:17	35.8155	7/26 10:46	35.8152	7/27 13:41	✓
			Tech		SH		MH		SH	
21	145 mls	Ace	Final	36.0016	8/4 7:52	36.0012	8/5 10:20			✓
			Tech		/		MH			
Notes										
2	ESP-1	SB	Tare	35.3656	7/11 15:18	35.3629	7/26 10:44	35.3628	7/27 13:34	✓
			Tech		SH		MH		SH	
24	100 mls	Ace	Final	35.3670	8/4 7:59	35.3674	8/5 10:25			✓
			Tech		/		MH			
Notes										
3	ESP-1	SB	Tare	36.6370	7/11 15:19	36.6345	7/26 10:44	36.6340	7/27 13:32	✓
			Tech		SH		MH		SH	
56	145 mls	Ace	Final	36.6391	8/4 7:53	36.6389	8/5 10:21			✓
			Tech		/		MH			
Notes										
4	ESP-1	SB	Tare	33.5837	7/11 15:21	33.5812	7/26 10:45	33.5809	7/27 13:37	✓
			Tech		SH		MH		SH	
54	90 mls	Ace	Final	33.5908	8/4 8:00	33.5907	8/5 10:22			✓
			Tech		/		MH			
Notes										
5	ESP-1	SB	Tare	31.8863	7/11 15:22	31.8840	7/26 10:45	31.8836	7/27 13:35	✓
			Tech		SH		MH		SH	
35	100 mls	Ace	Final	31.9629	8/4 7:52	31.9609	8/5 10:22	31.9666	8/8 11:15	✓
			Tech		/		MH		MH	
Notes										
6	ESP-1	SB	Tare	41.8911	7/11 15:22	41.8885	7/26 10:45	41.8885	7/27 13:40	✓
			Tech		SH		MH		SH	
40	115 mls	Ace	Final	41.8933	8/4 7:58	41.8936	8/5 10:23			✓
			Tech		/		MH			
Notes										
20	mls		Tare	37.9524	7/11 15:23	37.9497	7/26 10:46	37.9497	7/27 13:39	✓
			Tech		SH		MH		SH	
Notes										
27	mls		Tare	34.6270	7/11 15:24	34.6252	7/26 10:47	34.6249	7/27 13:38	✓
			Tech		SH		MH		SH	
Notes										

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Client	Big Rivers	Date Received	
Plant	Willson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
2	ESP 2 200+50	202 Hex	Tare	3.5292	6/30 9:42	3.5285	6/30 15:46		✓	
			Tech							
			Final	3.5335	8/2 10:20	3.5330	8/4 7:28		✓	
			Tech		MH					
D1	250 mls									
3	ESP-2 200+190	202 Hex	Tare	3.4929	6/30 9:42	3.4932	6/30 15:46		✓	
			Tech							
			Final	3.5039	8/2 10:19	3.5036	8/4 7:28		✓	
			Tech		MH					
D2	390 mls									
4	ESP 2 200+100	202 Hex	Tare	3.5244	6/30 9:40	3.5245	6/30 15:49		✓	
			Tech							
			Final	3.5497	8/2 10:18	3.5494	8/4 7:29	3.5317	8/8 10:11	✓
			Tech	3.5497						
D3	400 mls									
5	ESP-2 200+200	202 Hex	Tare	3.5515	6/30 9:41	3.5515	6/30 15:49		✓	
			Tech							
			Final	3.5602	8/2 10:18	3.5601	8/4 7:29		✓	
			Tech		MH					
D4	400 mls									
6	ESP 2 200+200	202 Hex	Tare	3.5434	6/30 9:41	3.5436	6/30 15:49		✓	
			Tech							
			Final	3.5532	8/2 10:19	3.5528	8/4 7:29		✓	
			Tech		MH					
D5	400 mls									
1	ESP-1 200+200+	202 Hex	Tare	3.5709	6/30 9:41	3.5709	6/30 15:49		✓	
			Tech							
			Final	3.5863	8/4 7:19	3.5869	8/5 9:54			
			Tech	73	7			MH		
D6	400 mls									
2	ESP-1 200+200+50	202 Hex	Tare	3.5488	6/30 9:40	3.5470	6/30 15:50		✓	
			Tech							
			Final	3.5553	8/4 7:48	3.5550	8/5 9:53		✓	
			Tech		7			MH		
D7	450 mls									
3	ESP 1 200+100+25	202 Hex	Tare	3.5604	6/30 9:40	3.5606	6/30 15:50		✓	
			Tech							
			Final	3.5709	8/4 7:18	3.5698	8/5 9:53	3.5700	8/8 11:09	✓
			Tech					MH		
D8	475 mls									

3.5317  
8/8 10:11

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

PROJECT NO. 3648 - Wilson

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Client	<u>Big Rivers</u>	Date Received	<u>7/22</u>
Plant	<u>Wilson, K</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
2	ESP-2 200+145	DI	Tare	85.4139	7/27 14:15	85.4126	7/28 11:21	85.4126	7/29 9:31	✓
			Tech				MH		MH	
			Final	85.4238	8/2 10:03	85.4239	8/4 7:42			✓
			Tech		MH		/			
306	345 mls	Notes								
3	ESP-2 200+145	DI	Tare	106.3264	7/27 14:15	106.3249	7/28 11:21	106.3245	7/29 9:32	✓
			Tech				MH		MH	
			Final	106.3376	8/2 10:00	106.3371	8/4 7:43			✓
			Tech		MH		/			
314	345 mls	Notes								
4	ESP-2 200+155	DI	Tare	103.0154	7/27 14:16	103.0443	7/28 11:22	103.0443	7/29 9:32	✓
			Tech				MH		MH	
			Final	103.0553	8/2 10:02	103.0552	8/4 7:44			✓
			Tech		MH		/			
402	355 mls	Notes								
5	ESP-2 200+165	DI	Tare	84.0260	7/27 14:17	84.0259	7/28 11:22	84.0254	7/29 9:33	✓
			Tech				MH		MH	
			Final	84.0548	8/2 10:01	84.0543	8/4 7:45			✓
			Tech		MH		/			
314	365 mls	Notes								
6	ESP-2 200+170	DI	Tare	83.0600	7/27 14:18	83.0589	7/28 11:23	83.0584	7/29 9:34	✓
			Tech				MH		MH	
			Final	83.1045	8/2 10:01	83.1100	8/4 7:42			✓
			Tech		MH		/			
312	370 mls	Notes								
7	ESP-1 200+125	DI	Tare	106.4711	7/27 14:19	106.4700	7/28 11:23	106.4696	7/29 9:35	✓
			Tech				MH		MH	
			Final	106.4745	8/2 10:01	106.4749	8/4 7:41			✓
			Tech		MH		/			
415	325 mls	Notes								
8	ESP-1 200+200	DI	Tare	103.3263	7/27 14:19	103.3249	7/28 11:24	103.3246	7/29 9:36	✓
			Tech				MH		MH	
			Final	103.3340	8/4 7:11	103.3335	8/5 7:24			✓
			Tech		/		/			
411	400 mls	Notes								
9	ESP-1 200+110	DI	Tare	107.5282	7/27 14:20	107.5268	7/28 11:25	107.5264	7/29 9:37	✓
			Tech				MH		MH	
			Final	107.5789	8/4 7:44	107.5790	8/5 10:41			✓
			Tech		/		MH			
409	310 mls	Notes								

106.3245  
8/2 10:17  
MH

**AIRTECH ENVIRONMENTAL SERVICES INC.**

Beaker Gravimetric Data Sheet

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Client	Big River	Date Received	7/22/11
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
5	ESP 3	S Ace	Tare	34.4207	7/11 3:15:32	34.4207	7/25 11:33		✓
			Tech		SH				
			Final	34.4227	8/4 7:59	34.4230	8/5 10:18		✓
			Tech		1		MH		
18	80 mls								
6	ESP 3	S Ace	Tare	35.3062	7/11 15:32	35.3063	7/25 11:32		✓
			Tech		SH				
			Final	35.3231	8/4 8:02	35.3229	8/5 10:16		✓
			Tech		7		MH		
23	75 mls								
1	ESP 2	S Ace	Tare	40.1538	7/11 15:33	40.1540	7/25 11:32		✓
			Tech		SH				
			Final	40.1576	8/4 7:58	40.1572	8/5 10:14		✓
			Tech		1		MH		
15	125 mls								
7	ESP 2	S Ace	Tare	35.6451	7/11 15:33	35.6451	7/25 11:32		✓
			Tech		SH				
			Final	35.6474	8/4 7:53	35.6477	8/5 10:17		✓
			Tech		1		MH		
30	110 mls								
3	ESP 2	S Ace	Tare	40.3678	7/11 15:34	40.3712	7/25 11:31		✓
			Tech	40.3713	SH				
			Final	40.3738	8/4 7:54	40.3740	8/5 10:15		✓
			Tech		1		MH		
28	90 mls								
4	ESP-2	S Ace	Tare	35.1142	7/25 11:23	35.1142	7/26 10:40		✓
			Tech				MH		
			Final	35.1185	8/4 7:55	35.1186	8/5 10:17		✓
			Tech		1		MH		
66	115 mls								
5	ESP 2	S Ace	Tare	37.3288	7/25 11:24	37.3292	7/26 10:39		✓
			Tech				MH		
			Final	37.3412	8/4 8:02	37.3415	8/5 10:16		✓
			Tech		1		MH		
47	125 mls								
6	ESP 2	S Ace	Tare	34.1293	7/25 11:24	34.1293	7/26 10:39		✓
			Tech				MH		
			Final	34.1366	8/4 7:58	34.1368	8/5 10:15		✓
			Tech		1		MH		
32	100 mls								

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

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Client	Wilson Bgr. Inc.	Date Received	7/22/11
Plant			

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good		
1 Beaker ID 226	ESP-3 200 + 175 375 mls	202 DI	Tare	85.2846	7/8 8:17	85.2855	7/11 6:27	85.2856	7/25 11:20	✓	
			Tech								
			Final	85.3241	8/2 10:22	85.3291	8/4 7:48	85.3217	8/5 7:30	✓	
			Tech		MH						
			Notes								
2 Beaker ID 413	ESP-3 200 + 150 mls	202 DI	Tare	105.0133	7/8 8:17	105.0427	7/11 6:27	105.0429	7/25 11:20	✓	
			Tech								
			Final	105.0840	8/1 10:18	105.0845	8/1 16:36			✓	
			Tech		MH		MH				
			Notes								
<del>2</del> Beaker ID <del>124</del>	<del>ESP-3 200 + 100 + 100 400 mls</del>	<del>202 DI</del>	Tare	82.0332	7/8 8:18	82.0326	7/11 6:26	82.0328	7/25 11:21		
			Tech								
			Final	82.0668	8/2 10:21	82.0665	8/4 7:34	82.0660	8/5 10:37	✓	
			Tech		MH		7C		MH		
			Notes								
3 Beaker ID 24	ESP-3 200 + 75 275 mls	202 DI	Tare	95.5548	7/8 8:18	95.5544	7/11 6:24			✓	
			Tech								
			Final	95.5658	8/1 16:20	95.5668	8/1 16:40		95.5666	8/4 4:48	✓
			Tech		MH		MH		MH		
			Notes								
5 Beaker ID 106	ESP-3 200 + 100 300 mls	202 DI	Tare	81.2742	7/8 8:19	81.2737	7/11 6:25	81.2739	7/25 11:19	✓	
			Tech								
			Final	81.2844	8/2 10:22	81.2811	8/4 7:49			7	
			Tech		MH						
			Notes								
6 Beaker ID 57	ESP3 200 + 225 425 mls	202 DI	Tare	105.6681	7/8 8:19	105.6676	7/11 6:25			✓	
			Tech								
			Final	105.6762	8/2 10:22	105.6766	8/4 7:49			✓	
			Tech		MH						
			Notes								
7 Beaker ID 224	ESP-2 200 + 120 320 mls	202 DI	Tare	81.4902	7/8 8:20	81.4896	7/11 6:24	81.4897	7/25 11:21	✓	
			Tech								
			Final	81.5029	8/1 10:25	81.5031	8/2 9:59			✓	
			Tech		MH		MH				
			Notes								
8 Beaker ID 51			Tare	102.2724	7/8 8:20	102.2715	7/11 6:24	102.2720	7/25 11:22	✓	
			Tech								
			Final								
			Tech								
			Notes								

85.322  
8/11 11:15  
ml

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**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

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Client	Big River	Date Received	
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
3	ESP 4	SB F1/2 Ace	Tare	33.9317	7/11 15:28	33.9297	7/27 1:28	33.9300	7/28 11:02	✓
			Tech		SH		MH		MH	
26	45 mls	SB F1/2 Ace	Final	33.9320	8/4 8:01	33.9304	8/5 10:19	33.9305	8/8 11:16	✓
			Tech		/		MH		MH	
Notes										
4	ESP 4	SB F1/2 Ace	Tare	35.3054	7/11 15:25	35.3022	7/27 1:26	35.3026	7/28 11:02	✓
			Tech		SH		MH		MH	
29	75 mls	SB F1/2 Ace	Final	35.3101	8/4 8:00	35.3106	8/5 10:10			✓
			Tech		/		MH			
Notes										
5	ESP 4	SB F1/2 Ace	Tare	36.4398	7/11 15:26	36.4366	7/27 1:25	36.4370	7/28 11:03	✓
			Tech		SH				MH	
37	125 mls	SB F1/2 Ace	Final	36.4397	8/4 7:56	36.4400	8/5 10:11			✓
			Tech		/		MH			
Notes										
6	ESP 4	SB F1/2 Ace	Tare	37.3364	7/11 15:28	37.3360	7/26 10:41			✓
			Tech		SH		MH			
34	100 mls	SB F1/2 Ace	Final	37.4353	8/4 7:55	37.4378	8/5 10:12	37.4378	8/8 11:16	✓
			Tech		/		MH		MH	
Notes										
1	ESP 3	SB F1/2 Ace	Tare	34.4574	7/11 15:28	34.4575	7/26 10:42			✓
			Tech		SH		MH			
46	75 mls	SB F1/2 Ace	Final	34.4606	8/4 7:57	34.4611	8/5 10:10			✓
			Tech		/		MH			
Notes										
2	ESP 3	SB F1/2 Ace	Tare	33.1962	7/11 15:29	33.1959	7/26 10:42			✓
			Tech		SH		MH			
33	60 mls	SB F1/2 Ace	Final	33.1972	8/4 8:03	33.1976	8/5 10:20			✓
			Tech		/		MH			
Notes										
3	ESP 3	SB F1/2 Ace	Tare	43.4099	7/11 15:30	43.4096	7/26 10:43			✓
			Tech		SH		MH			
51	60 mls	SB F1/2 Ace	Final	43.4199	8/4 8:03	43.4204	8/5 10:19			✓
			Tech		/		MH			
Notes										
4	ESP 3	SB F1/2 Ace	Tare	34.8959	7/11 15:31	34.8961	7/26 10:44	34.8957	7/27 10:14	✓
			Tech		SH		MH		MH	
48	75 60 mls	SB F1/2 Ace	Final	34.9033	8/4 7:54	34.9031	8/5 10:13			✓
			Tech		/		MH			
Notes										



**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

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Client	<u>Big Rivers</u>	Date Received	<u>7/22/11</u>
Plant	<u>Wilson</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
6	ESP 4	202 Hex/Ace	Tare	3.5555	6/30 9:31	3.5560	6/30 15:50		✓
			Tech						
Beaker ID	200+200+ 95		Final	3.5682	8/2 10:17	3.5677	8/4 7:30		✓
C1	495 mls		Tech		MH				
			Notes						
1	ESP 3	202 Hex/Ace	Tare	3.5703	6/30 9:31	3.5711	6/30 15:52		✓
			Tech						
Beaker ID	200+175		Final	3.5853	8/1 10:38	3.5852	8/1 16:52		✓
C2	375 mls		Tech		MH		MH		
			Notes						
2	ESP 3	202 Hex/Ace	Tare	3.5301	6/30 9:31	3.5301	6/30 15:53		✓
			Tech						
Beaker ID	200+180		Final	3.5381	8/1 10:40	3.5382	8/1 16:51		✓
C3	380 mls		Tech		MH		MH		
			Notes						
3	ESP 3	202 Hex/Ace	Tare	3.5199	6/30 9:36	3.5197	6/30 15:53		✓
			Tech						
Beaker ID	200+200+ 120		Final	3.5313	8/2 10:15	3.5309	8/4 7:36		✓
C4	520 mls		Tech		MH				
			Notes						
4	ESP 3	202 Hex/Ace	Tare	3.5773	6/30 9:37	3.5774	6/30 15:53		✓
			Tech						
Beaker ID	200+180+		Final	3.5866	8/1 10:35	3.5866	8/1 16:50		✓
C5	380 mls		Tech		MH		MH		
			Notes						
5	ESP 3	202 Hex/Ace	Tare	3.5078	6/30 9:36	3.5074	6/30 15:54		✓
			Tech						
Beaker ID	200+125+		Final	3.5157	8/1 10:39	3.5156	8/1 16:51		✓
C6	335 mls		Tech		MH		MH		
			Notes						
6	ESP 3	202 Hex/Ace	Tare	3.5673	6/30 9:37	3.5673	6/30 15:54		✓
			Tech						
Beaker ID	200+700		Final	3.5692	8/1 10:38	3.5701	8/1 16:51		✓
C7	400 mls		Tech		MH		MH		
			Notes						
1	ESP-2	202 Hex/Ace	Tare	3.5624	6/30 9:37	3.5621	6/30 15:55		✓
			Tech						
Beaker ID	200+190		Final	3.5682	8/1 10:39	3.5678	8/1 16:52		✓
C8	390 mls		Tech		MH		MH		
			Notes						

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

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Client	Big Rivers	Date Received	7/22
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
5	Stack 200+200+ 110 mls	202 DI	Tare	84.6454	7/7 7:26	84.6451	7/8 8:13		✓	
			Tech							
			Final	84.65563	8/2 10:24	84.6567	8/4 7:46		✓	
			Tech		MH					
			Notes							
6	Stack 200+200 100 mls	202 DI	Tare	100.0231	7/7 7:24	100.0224	7/8 8:13	100.0229	7/11 5:45	✓
			Tech							
			Final	100.0328	8/2 10:24	100.0327	8/4 7:45		✓	
			Tech		MH					
			Notes							
1	ESP 4 200+100 300 mls	202 DI	Tare	87.7732	7/7 7:27	87.7729	7/8 8:12		✓	
			Tech							
			Final	87.8004	8/1 10:27	87.8001	8/4 7:13		✓	
			Tech		MH					
			Notes							
2	ESP 4 200+185 385 mls	202 DI	Tare	85.886	7/7 7:27	85.8888	7/8 8:12		✓	
			Tech	85.8692						
			Final	85.8806	8/1 10:27	85.8811	8/1 10:57		✓	
			Tech		MH		MH			
			Notes							
3	ESP 4 200+175 375 mls	202 DI	Tare	81.6889	7/7 7:27	81.6881	7/8 8:11	81.6881	7/11 5:49	✓
			Tech							
			Final	81.7160	8/1 10:22	81.7164	8/4 7:47		✓	
			Tech		MH					
			Notes							
4	ESP 4 200+200+50 450 mls	202 DI	Tare	87.6272	7/7 7:28	87.6266	7/8 8:12	87.6271	7/11 5:49	✓
			Tech							
			Final	87.6754	8/1 10:28	87.6734	8/4 7:48	87.6674	8/8 11:17	✓
			Tech		MH				MH	
			Notes							
5	ESP 4 200+175 +50 425 mls	202 DI	Tare	82.8559	7/7 7:28	82.8555	7/8 8:11		✓	
			Tech							
			Final	82.8699	8/1 10:26	82.8695	8/2 9:59		✓	
			Tech		MH		MH			
			Notes							
6	ESP 4 200+175 +60 435 mls	202 DI	Tare	104.2893	7/7 7:29	81	7/8 8:10	104.2890	7/11 5:50	✓
			Tech			104.2885				
			Final	104.3199	8/2 10:25	104.3223	8/4 7:46	104.3171	8/9 7:27	✓
			Tech		MH					
			Notes							

87.6271  
8/4 7:48

104.316  
8/11 11:  
MH

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Beaker Gravimetric Data Sheet

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Client	Big Rivers	Date Received	2/22/11
Plant	Calumet Station	Wilson	

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
3	200+	Hex/Ace	Tare	3.4512	6/30 9:36	3.4512	6/30 15:55		✓
			Final						
			Tech						
			Notes						
Beaker ID	B1								
3	200+	Hex/Ace	Tare	3.4142	6/30 9:36	3.4143	6/30 15:56		✓
			Final						
			Tech						
			Notes						
Beaker ID	B2								
3	ESP-2 20+	Hex/Ace	Tare	3.4847	6/30 9:36	3.4849	6/30 15:56		✓
			Final						
			Tech						
			Notes						
Beaker ID	B3								
3	ESP-3 200+	Hex/Ace	Tare	3.4247	6/30 9:36	3.4249	6/30 15:56		✓
			Final						
			Tech						
			Notes						
Beaker ID	B4								
2	ESP-4 200+185	202 Hex/Ace	Tare	3.5777	6/30 9:35	3.5777	6/30 15:57		✓
			Final	3.5600	7/29 16:14	3.5797	8/1 10:23		✓
			Tech		MH		MH		
			Notes						
Beaker ID	B5								
3	ESP-4 200+175	202 Hex/Ace	Tare	3.5278	6/30 9:34	3.5279	6/30 15:57		✓
			Final	3.5312	7/29 16:44	3.5339	8/1 10:33		✓
			Tech		MH		MH		
			Notes						
Beaker ID	B6								
1	ESP-4 200+200 50	202 Hex/Ace	Tare	3.5487	6/30 9:34	3.5488	6/30 15:56		✓
			Final	3.5564	7/29 16:43	3.5567	8/1 10:33		✓
			Tech		MH		MH		
			Notes						
Beaker ID	B7								
5	ESP-4 200+200 30	202 Hex/Ace	Tare	3.5863	6/30 9:33	3.5862	6/30 15:56		✓
			Final	3.5942	7/29 16:43	3.5945	8/1 10:34		✓
			Tech		MH		MH		
			Notes						
Beaker ID	B8								

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## *Calibration Data*

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**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
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Date	Tech Initials	100.0000g	5.0000g	0.1000g	Barometric Pressure (In. Hg)	Relative Humidity (%)	Ambient Temp (°F)	Notes
4/25/11	TC	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	TC	100.0000	5.0000	0.1000	29.5	48	70	
5/3/11	TC	99.9999	4.9999	0.0999	29.6	46	68	
5/4/11	TC	99.9998	5.0000	0.1000	29.8	45	68	
5/5/11	TC	100.0000	5.0000	0.1001	29.5	46	70	
5/6/11	TC	99.9999	4.9999	0.0999	29.2	47	70	
5/16/11	NR	100.0000	5.0000	0.1000	29.4	45	70	
5/17/11	NR	100.0002	4.9999	0.1000	29.4	45	70	
5/18/11	NR	100.0000	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	29.0	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	TC	99.9999	4.9999	0.0999	28.9	47	74	
5/26/11	TC	100.0001	4.9999	0.1000	29.1	48	70	
5/31/11	TC	100.0000	5.0000	0.1000	29.4	45	73	
6/1/11	TC	100.0000	4.9999	0.0998	29.6	48	74	
6/2/11	TC	100.0000	5.0000	0.0999	29.6	44	72	
6/6/11	TC	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	TC	100.0000	4.9999	0.0999	29.6	44	64	
6/16/11	EA	100.0002	5.0001	0.1000	29.2	60	68	
6/22/11	TC	100.0000	5.0001	0.1001	28.9	48	65	
6/24/11	KW	100.0001	5.0000	0.1000	29.10	64	68	
6/27/11	TC	100.0000	4.9999	0.0999	29.2	58-50	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	TC	100.0000	5.0000	0.1000	29.4	48	70	
7/8/11	TC	100.0001	4.9999	0.1000	29.4	47	70	
7/11/11	TC	99.9999	5.0001	0.1001	29.2	47	70	
7/12/11	TC	100.0000	5.0000	0.1000	29.4	48	65	
7/13/11	TC	100.0000	4.9999	0.0999	29.3	46	66	
7/25/11	TC	100.0000	4.9999	0.0999	29.3	46	70	

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
**Analytical Balance Daily Calibration**

Scale ID	Ohaus AV114C
Units of Measure	grams

Full Cal Test Date	4/12/11
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Date	Tech Initials	100.0000g	5.0000g	0.1000g	Barometric Pressure (in. Hg)	Relative Humidity (%)	Ambient Temp (°F)	Notes
4/25/11	7C	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	
5/1/11	7C	100.0000	5.0000	0.1000	29.5	48	70	
5/3/11	7C	99.9999	4.9999	0.0999	29.6	46	68	
5/4/11	7C	99.9998	5.0000	0.1000	29.8	45	68	
5/5/11	7C	100.0000	5.0000	0.1001	29.5	46	70	
5/6/11	7C	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	
5/13/11	NR	100.0000	4.9999	0.0999	29.4	45	72	
5/14/11	NR	100.0001	5.0000	0.1001	29.5	50	71	
5/20/11	NR	100.0001	4.9999	0.1000	29.2	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	7C	99.9999	4.9999	0.0999	28.9	47	74	
5/26/11	7C	100.0001	4.9999	0.1000	29.1	48	70	
5/31/11	7C	100.0000	5.0000	0.1000	29.4	45	73	
6/1/11	7C	100.0000	4.9999	0.0998	29.6	48	74	
6/2/11	7C	100.0000	5.0000	0.0999	29.6	44	72	
6/6/11	7C	100.0000	5.0001	0.1000	29.4	47	68	
6/8/11	NR	100.0001	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	7C	100.0000	4.9999	0.0999	29.6	44	64	
6/16/11	Est	100.0002	5.0001	0.1000	29.2	60	68	
6/22/11	7C	100.0000	5.0001	0.1001	28.9	48	65	
6/24/11	NR	100.0001	5.0001	0.1000	29.10	64	68	
6/27/11	7C	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	
6/29/11	NR	100.0000	5.0000	0.1000	29.6	50	68	
7/7/11	7C	100.0000	5.0000	0.1000	29.4	48	70	
7/8/11	7C	100.0001	4.9999	0.1000	29.4	47	70	
7/11/11	7C	99.9999	5.0001	0.1001	29.2	47	70	
7/12/11	7C	100.0000	5.0000	0.1000	29.4	48	65	
7/13/11	7C	100.0000	4.9999	0.0999	29.3	47	66	
7/15/11	7C	100.0000	4.9999	0.0999	29.3	47	70	





**AIRTECH**  
*Environmental  
Services Inc.*

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## Ion Chromatography Analytical Report

Performed for  
Big Rivers Energy  
Wilson Station  
(Petcoke)  
*Project No. 3648*  
*August 15, 2011*

Analyst:   
Michael Ogletree

Reviewer:   
Patrick Clark P.E.



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## APPENDIX

*Results*  
*Calibration Data*  
*Raw Data*  
*Chain of Custody*

## Project Summary

### General

Project Information	
Date Received	8/1/2011
Analytical Protocol	EPA Method 26A
Total Number of Samples Received	16
Total Number of Blanks Received	1

### 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)
ESP 1 R1-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	518
ESP 1 R2-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	532
ESP 1 R3-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	530
ESP 2 R1-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	552
ESP 2 R2-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	491
ESP 2 R3-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	516
ESP 3 R1-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	473
ESP 3 R2-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	440
ESP 3 R3-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	483
Stack Run 1	0.1 N H <sub>2</sub> SO <sub>4</sub>	497
Stack Run 2	0.1 N H <sub>2</sub> SO <sub>4</sub>	549
Stack Run 3	0.1 N H <sub>2</sub> SO <sub>4</sub>	550
ESP 4 R1-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	489
ESP 4 R2-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	528
ESP 4 R3-IMP-26A	0.1 N H <sub>2</sub> SO <sub>4</sub>	458
Reagent Blank	0.1 N H <sub>2</sub> SO <sub>4</sub>	488

### 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 <0.0442 µg/ml for Cl<sup>-</sup> and <0.0647 µg/ml for F<sup>-</sup>.

### 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 H<sub>2</sub>SO<sub>4</sub>.

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 the calibration curve. These samples included ESP 3 and ESP 4.

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## Appendix

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Includes the following:

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

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## *Results*

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**Includes the following:**

- **Hydrogen Chloride Results**
- **Hydrogen Fluoride Results**

## HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	Reagent Blank	ESP Exhaust 1 Run 1	ESP Exhaust 1 Run 2	ESP Exhaust 1 Run 3
Volume (ml)	488	518	532	530
Dilution factor	1	1	1	1
Peak Area # 1	0.0000	0.6990	0.6690	0.8500
Peak Area # 2	0.0000	0.7040	0.6710	0.8540
Average	0.00	0.702	0.670	0.852
Injections % of mean	NA	0.4%	0.1%	0.2%

## RESULTS

Chloride (µg/ml)	< 0.0441	6.57	6.56	8.32
Hydrogen Chloride (µg/ml)	< 0.0454	7.06	6.75	8.56
Hydrogen Chloride (mg)	< 0.0222	3.66	3.59	4.54

## HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	Reagent Blank	ESP Exhaust 1 Run 1	ESP Exhaust 1 Run 2	ESP Exhaust 1 Run 3
Volume (ml)	488	518	532	530
Dilution factor	1	1	1	1
Peak Area # 1	0.0130	1.2150	1.2290	1.7680
Peak Area # 2	0.0130	1.2140	1.2300	1.7760
Average	0.0130	1.21	1.23	1.77
Injections % of mean	0.0%	0.5%	0.0%	0.2%

## RESULTS

Fluoride (µg/ml)	0.0918	8.18	8.32	11.8
Hydrogen Fluoride (µg/ml)	0.0966	6.61	6.76	12.5
Hydrogen Fluoride (mg)	0.0472	4.46	4.66	6.60

## HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 2 Run 1	ESP Exhaust 2 Run 2	ESP Exhaust 2 Run 3
Volume (ml)	552	491	516
Dilution factor	1	1	1
Peak Area # 1	0.4260	0.4700	0.6790
Peak Area # 2	0.4270	0.4710	0.6780
Average	0.427	0.471	0.676
Injections % of mean	0.1%	0.1%	0.4%

## RESULTS

Chloride (µg/ml)	4.21	4.63	6.61
Hydrogen Chloride (µg/ml)	4.32	4.76	6.80
Hydrogen Chloride (mg)	2.39	2.34	3.51

## HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 2 Run 1	ESP Exhaust 2 Run 2	ESP Exhaust 2 Run 3
Volume (ml)	552	491	516
Dilution factor	1	1	1
Peak Area # 1	0.3350	0.3540	0.5450
Peak Area # 2	0.3340	0.3500	0.5450
Average	0.335	0.352	0.550
Injections % of mean	0.1%	0.6%	0.7%

## RESULTS

Fluoride (µg/ml)	2.52	2.63	4.56
Hydrogen Fluoride (µg/ml)	2.66	2.77	4.80
Hydrogen Fluoride (mg)	1.47	1.36	2.48

## HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 3 Run 1	ESP Exhaust 3 Run 2	ESP Exhaust 3 Run 3
Volume (ml)	473	440	483
Dilution factor	2	2	2
Peak Area # 1	0.6300	0.6180	0.5830
Peak Area # 2	0.6270	0.6170	0.5630
Average	0.629	0.618	0.583
Injections % of mean	0.2%	0.1%	0.0%

## RESULTS

Chloride (µg/ml)	12.3	12.1	11.4
Hydrogen Chloride (µg/ml)	12.7	12.5	11.8
Hydrogen Chloride (mg)	5.99	5.48	5.68

## HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 3 Run 1	ESP Exhaust 3 Run 2	ESP Exhaust 3 Run 3
Volume (ml)	473	440	483
Dilution factor	2	2	2
Peak Area # 1	2.4420	2.2880	2.0500
Peak Area # 2	2.4300	2.3050	2.0570
Average	2.44	2.30	2.05
Injections % of mean	0.2%	0.4%	0.2%

## RESULTS

Fluoride (µg/ml)	32.2	30.4	27.8
Hydrogen Fluoride (µg/ml)	34.0	32.1	28.7
Hydrogen Fluoride (mg)	16.1	14.1	13.9

## HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 4 Run 1	ESP Exhaust 4 Run 2	ESP Exhaust 4 Run 3
Volume (ml)	489	528	458
Dilution factor	2	2	2
Peak Area # 1	0.6690	0.5450	0.6670
Peak Area # 2	0.5670	0.5540	0.6720
Average	0.588	0.550	0.670
Injections % of mean	0.3%	0.8%	0.4%

## RESULTS

Chloride (µg/ml)	11.1	10.8	13.1
Hydrogen Chloride (µg/ml)	11.5	11.1	13.5
Hydrogen Chloride (mg)	5.60	5.86	6.16

## HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 4 Run 1	ESP Exhaust 4 Run 2	ESP Exhaust 4 Run 3
Volume (ml)	489	528	458
Dilution factor	2	2	2
Peak Area # 1	1.8410	1.7380	1.9850
Peak Area # 2	1.8460	1.7530	1.8900
Average	1.84	1.76	1.99
Injections % of mean	0.1%	0.1%	0.3%

## RESULTS

Fluoride (µg/ml)	24.6	23.4	26.5
Hydrogen Fluoride (µg/ml)	25.9	24.7	27.9
Hydrogen Fluoride (mg)	12.7	13.0	12.8

**HYDROGEN CHLORIDE ANALYSIS**

Sample Parameters	Stack Run 1	Stack Run 2	Stack Run 3
Volume (ml)	497	549	550
Dilution factor	1	1	1
Peak Area # 1	0.0390	0.0440	0.0720
Peak Area # 2	0.0380	0.0430	0.0710
Average	0.0390	0.0435	0.0715
Injections % of mean	0.0%	1.1%	0.7%

**RESULTS**

Chloride (µg/ml)	0.379	0.423	0.696
Hydrogen Chloride (µg/ml)	0.390	0.435	0.715
Hydrogen Chloride (mg)	0.194	0.239	0.394

**HYDROGEN FLUORIDE ANALYSIS**

Sample Parameters	Stack Run 1	Stack Run 2	Stack Run 3
Volume (ml)	497	549	550
Dilution factor	1	1	1
Peak Area # 1	0.0400	0.0390	0.0330
Peak Area # 2	0.0380	0.0390	0.0310
Average	0.0395	0.0390	0.0320
Injections % of mean	1.3%	0.0%	3.1%

**RESULTS**

Fluoride (µg/ml)	0.279	0.275	0.226
Hydrogen Fluoride (µg/ml)	0.294	0.290	0.238
Hydrogen Fluoride (mg)	0.146	0.159	0.131



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## *Calibration Data*

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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
Chloride (µg/ml)	1.0	5.0	10.0	20.0
Pre Analysis Injection # 1	0.1020	0.5000	0.9900	2.0520
Pre Analysis Injection # 2	0.1050	0.5050	1.0010	2.0580
Average	<b>0.104</b>	<b>0.503</b>	<b>0.996</b>	<b>2.06</b>
% difference of injections	2.9%	1.0%	1.1%	0.3%
Post Analysis Injection # 1	0.1070	0.5150	1.0150	2.0720
Post Analysis Injection # 2	0.1090	0.5150	1.0190	2.0870
Average	<b>0.108</b>	<b>0.515</b>	<b>1.02</b>	<b>2.08</b>
% difference of injections	0.9%	0.0%	0.4%	0.7%
Overall Average	<b>0.106</b>	<b>0.509</b>	<b>1.01</b>	<b>2.07</b>
Pre/Post Analysis, % of mean	1.9%	1.2%	1.1%	0.6%

**RESULTS**

Response Factor	9.48	9.83	9.94	9.67
Average Response Factor	9.73			
Slope	9.68			
Intercept	0.0776			

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	0.1290	0.6730	1.4390	3.0730
Pre Analysis Injection # 2	0.1250	0.6870	1.4690	3.0540
Average	<b>0.127</b>	<b>0.680</b>	<b>1.45</b>	<b>3.06</b>
% difference of injections	3.2%	2.0%	2.0%	0.6%
Post Analysis Injection # 1	0.1370	0.6950	1.4630	3.0350
Post Analysis Injection # 2	0.1320	0.7110	1.4910	3.0320
Average	<b>0.135</b>	<b>0.703</b>	<b>1.49</b>	<b>3.03</b>
% difference of injections	3.8%	2.3%	0.5%	0.1%
Overall Average	<b>0.131</b>	<b>0.692</b>	<b>1.47</b>	<b>3.05</b>
Pre/Post Analysis, % of mean	2.9%	1.7%	1.1%	0.5%

**RESULTS**

Response Factor	7.85	7.23	6.80	6.58
Average Response Factor	7.06			
Slope	6.47			
Intercept	0.358			

<b>Drift Check (8/5/11)</b>	<b>Chloride</b>	<b>Fluoride</b>
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.4940	0.6600
Pre Analysis Injection # 2	0.5010	0.6760
<b>Average</b>	<b>0.498</b>	<b>0.668</b>
% difference of injections	1.4%	2.4%

<b>Drift Check (8/5/11)</b>	<b>Chloride</b>	<b>Fluoride</b>
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.5040	0.6620
Pre Analysis Injection # 2	0.5040	0.6900
<b>Average</b>	<b>0.504</b>	<b>0.676</b>
% difference of injections	0.0%	4.1%

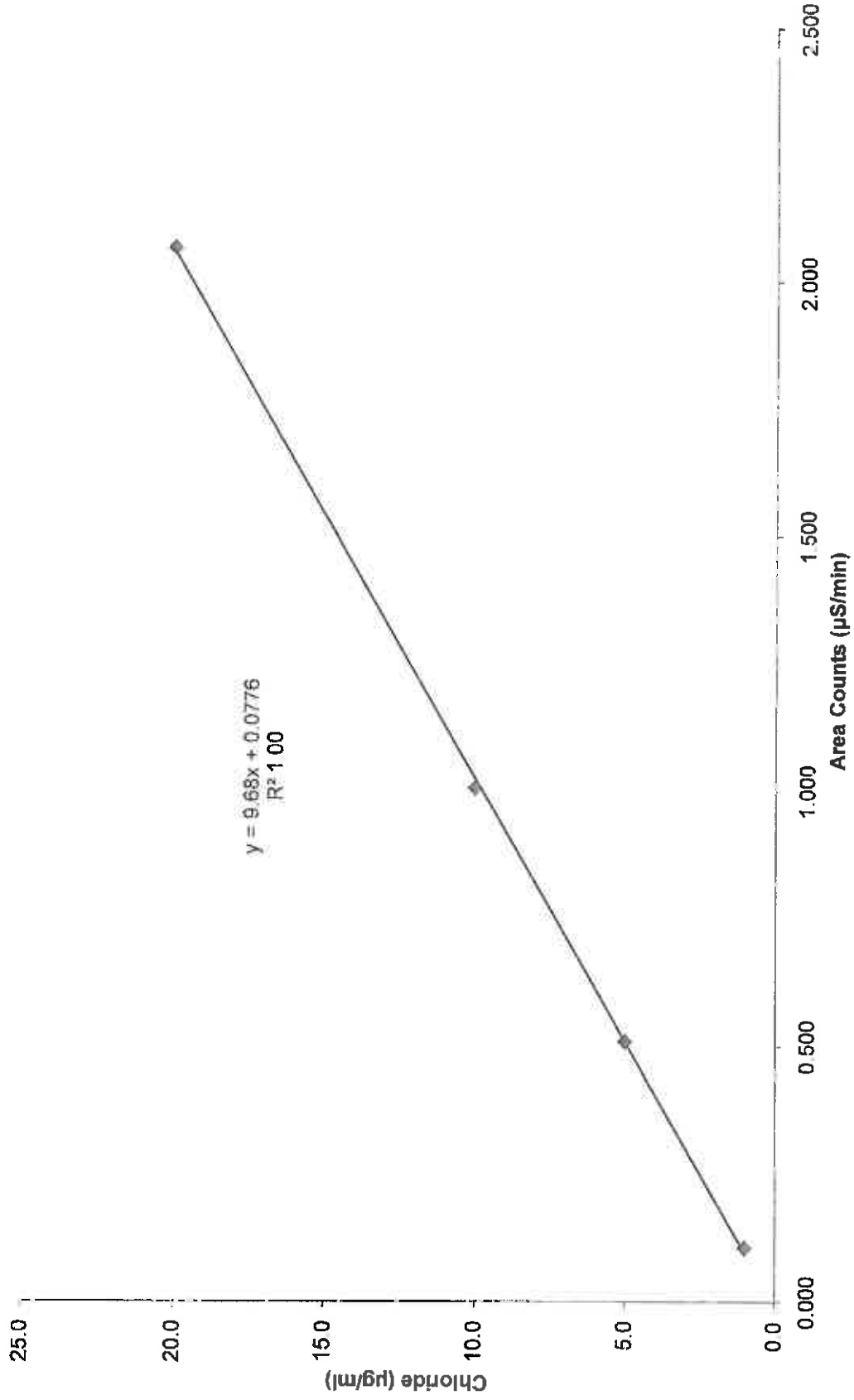
<b>Drift Check (8/8/11)</b>	<b>Chloride</b>	<b>Fluoride</b>
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.4980	0.6760
Pre Analysis Injection # 2	0.5010	0.6570
<b>Average</b>	<b>0.500</b>	<b>0.667</b>
% difference of injections	0.6%	2.9%

<b>Detection Limit Parameters</b>	<b>Chloride</b>	<b>Fluoride</b>
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
<b>Average</b>	<b>0.0598</b>	<b>0.0659</b>

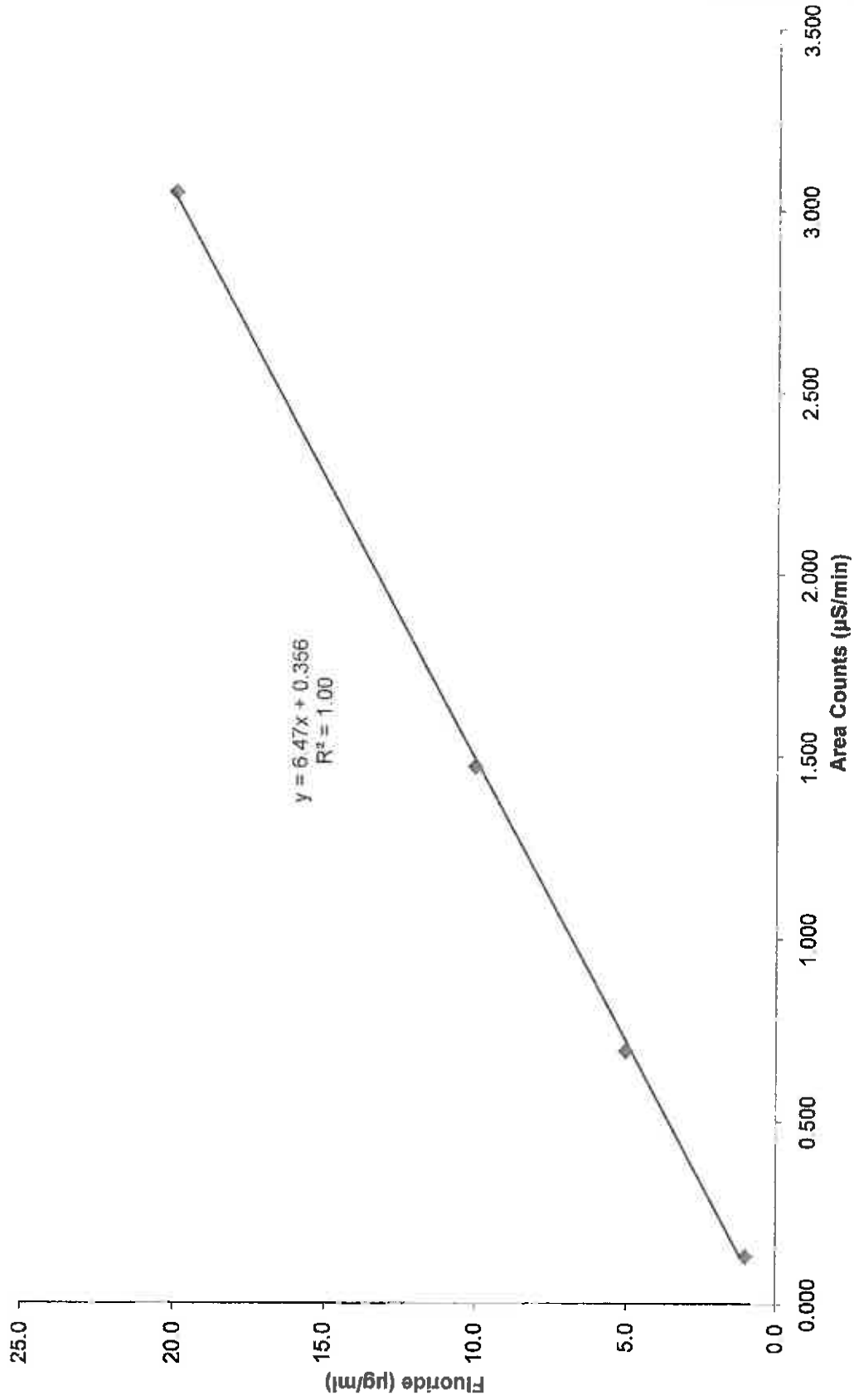
**RESULTS**

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

# Chloride Calibration



# Fluoride Calibration



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*Raw Data*

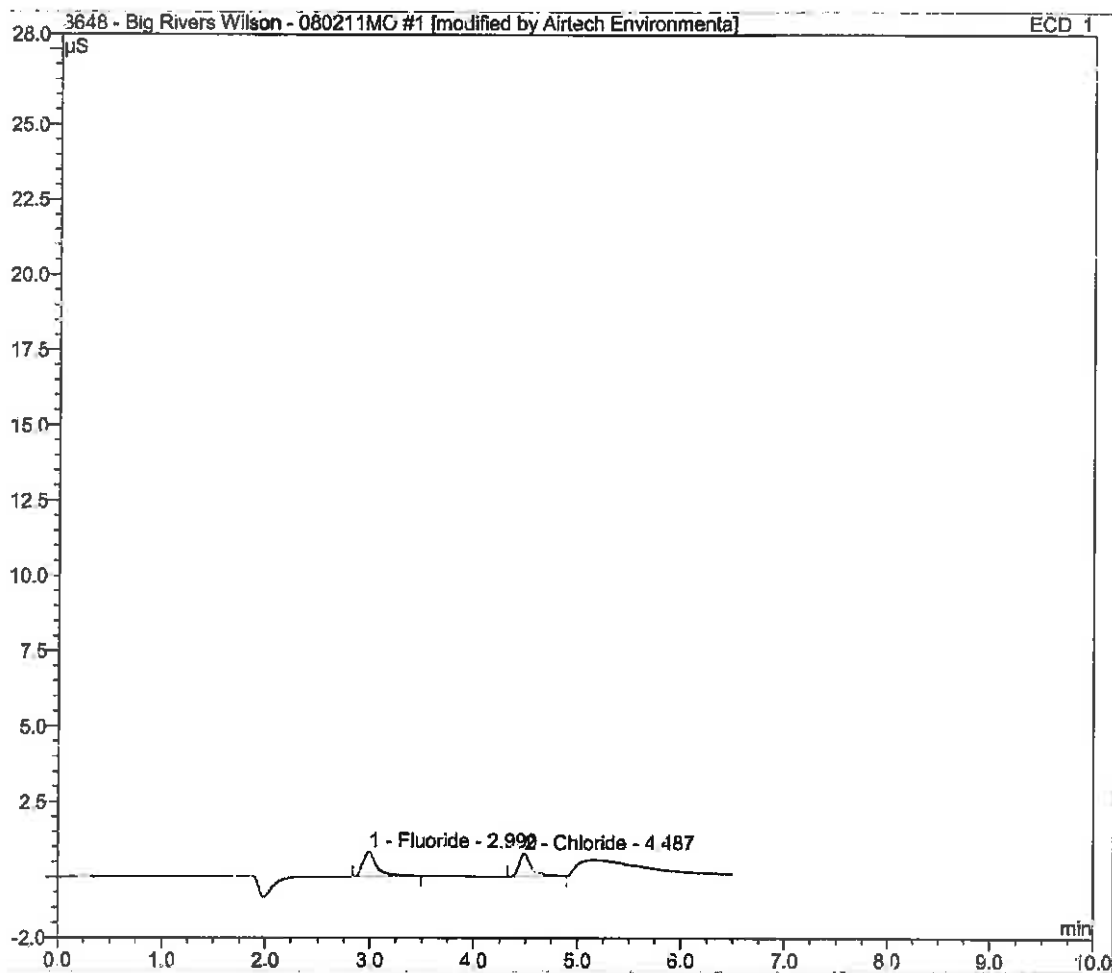
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Includes the following:

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

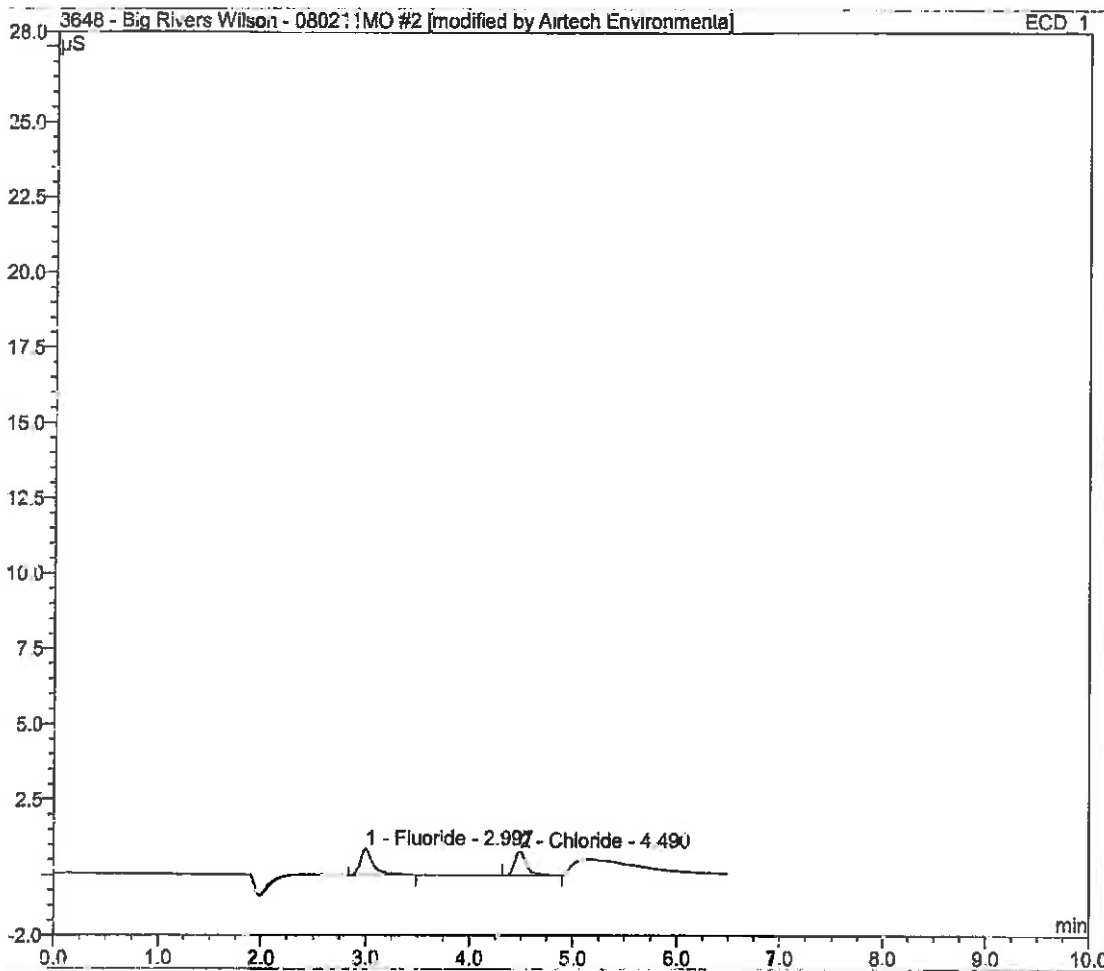
Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 12:56	Run Time:	6.50

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB	0.129	0.825	1.0841
2	4.49	Chloride	BMB*	0.102	0.744	1.0887
TOTAL:				0.23	1.57	2.15



Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 13:03	Run Time:	6.50

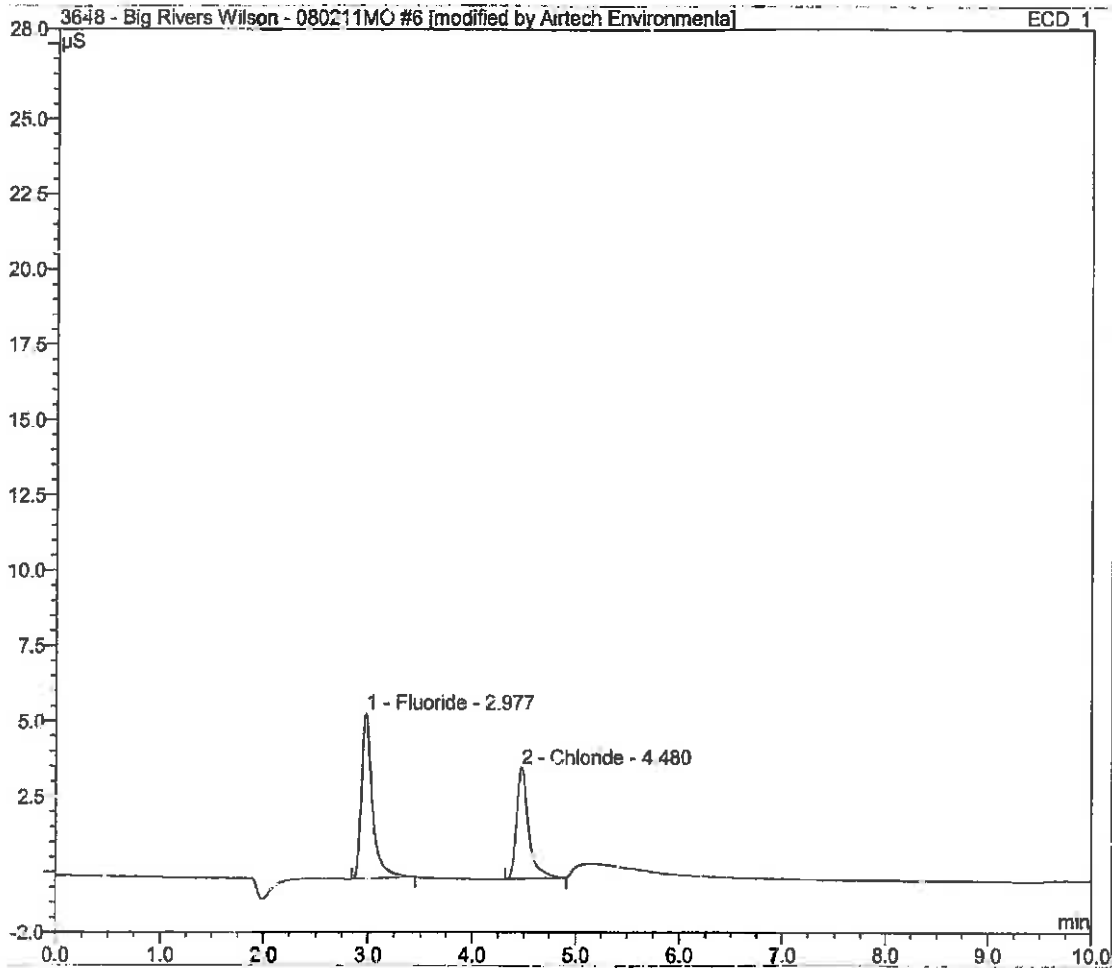
No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g}/\text{ml}$
1	3.00	Fluoride	BMB	0.125	0.866	1.0560
2	4.49	Chloride	BMB	0.105	0.782	1.1037
TOTAL				0.23	1.65	2.16





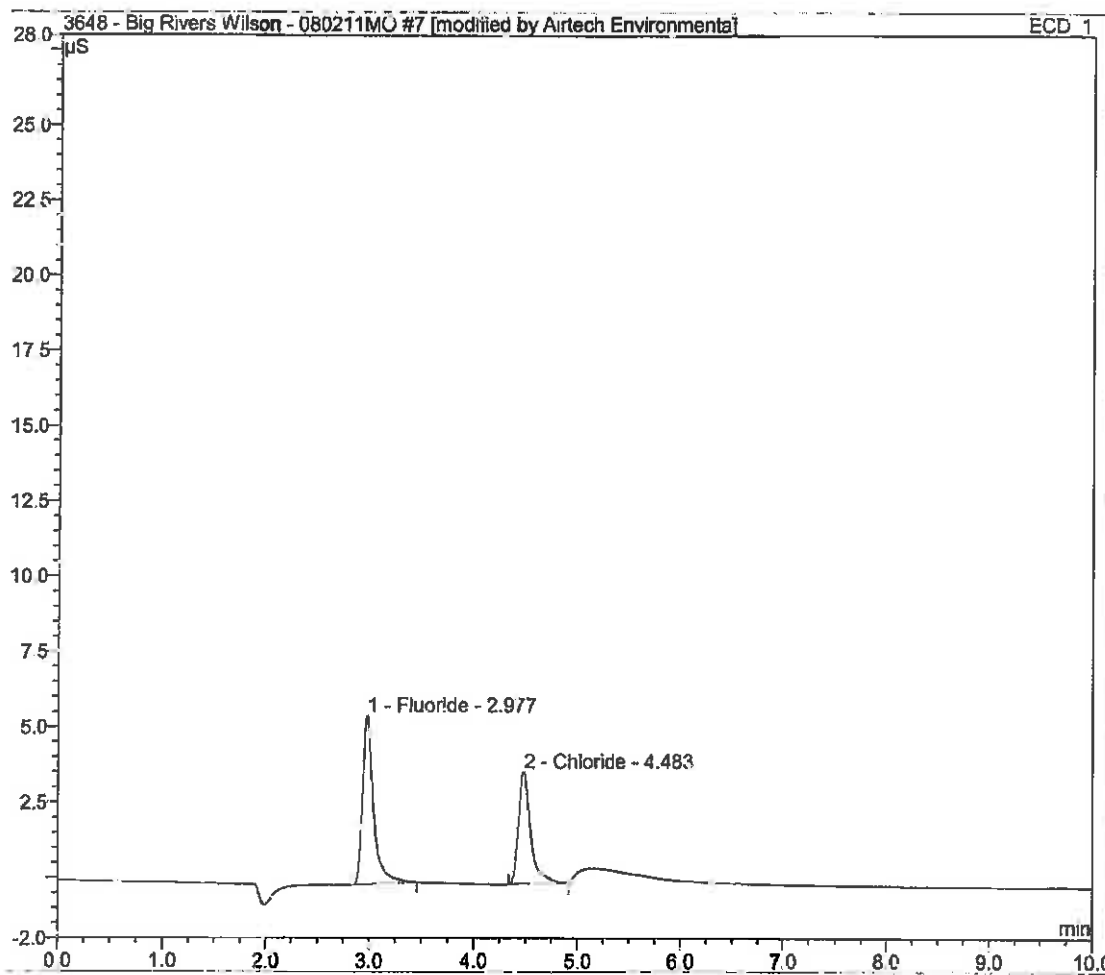
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 14:50	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.673	5.476	0.6802
2	4.48	Chloride	BMB*	0.500	3.684	0.7302
TOTAL:				1.17	9.16	1.41



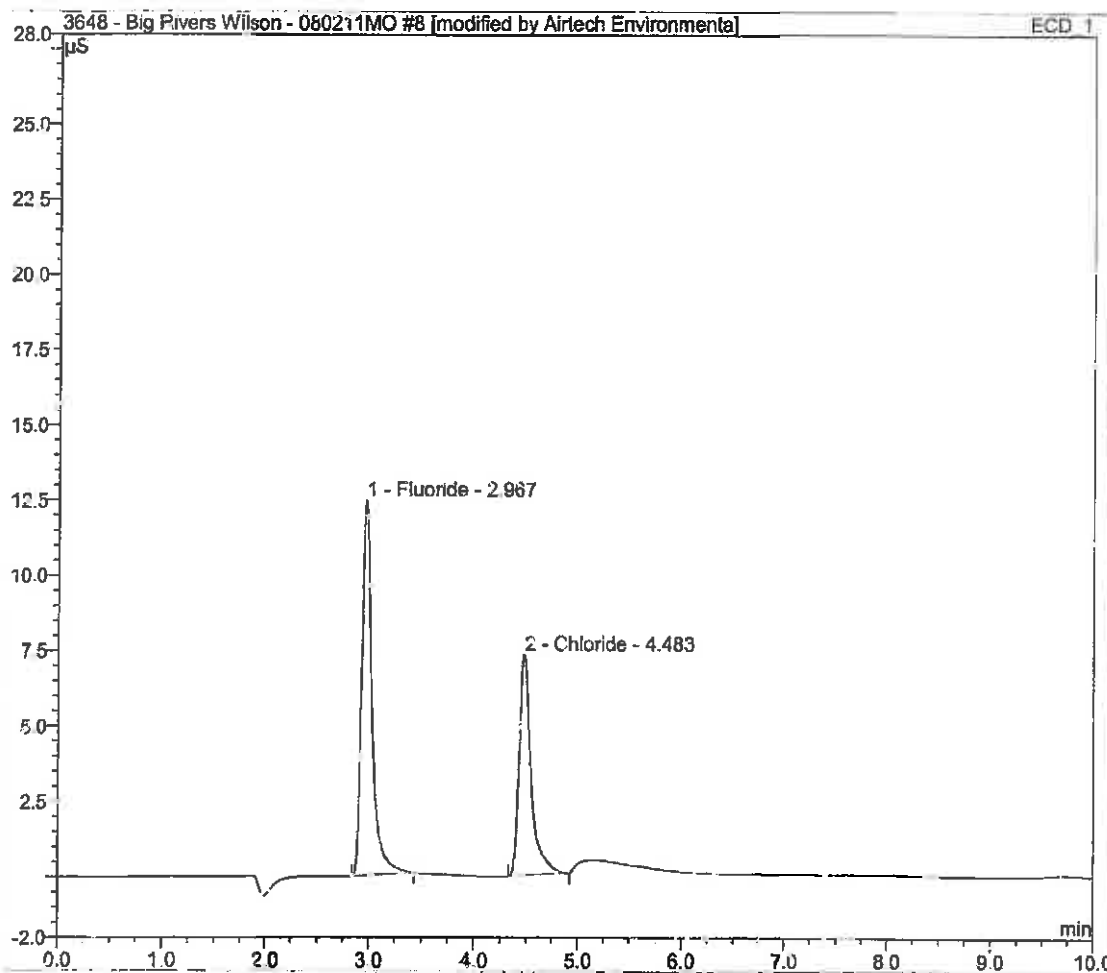
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	02.08.11 15:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.687	5.583	0.6942
2	4.48	Chloride	BMB*	0.505	3.712	0.7371
TOTAL				1.19	9.30	1.43



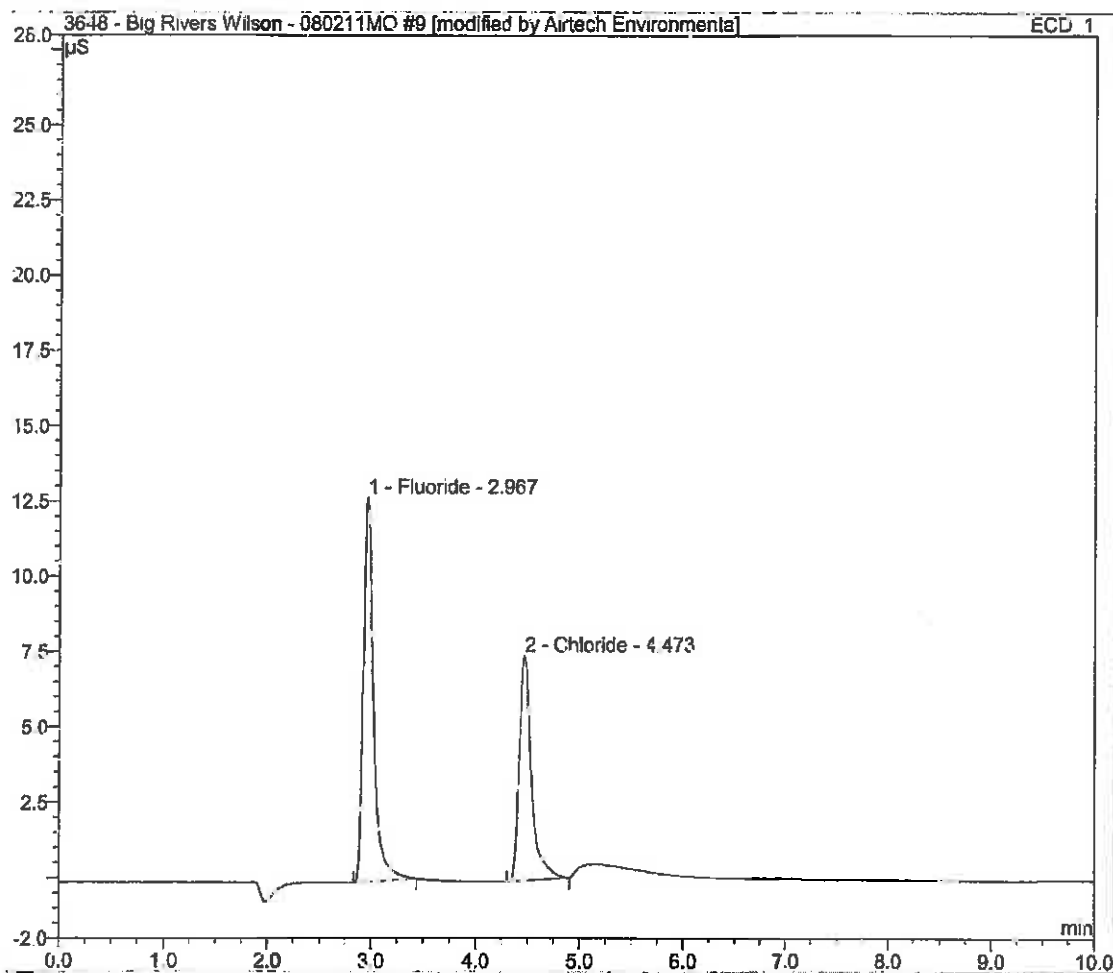
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 08:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.439	12.462	1.4549
2	4.48	Chloride	BMB*	0.990	7.326	1.4463
TOTAL:				2.43	19.79	2.90



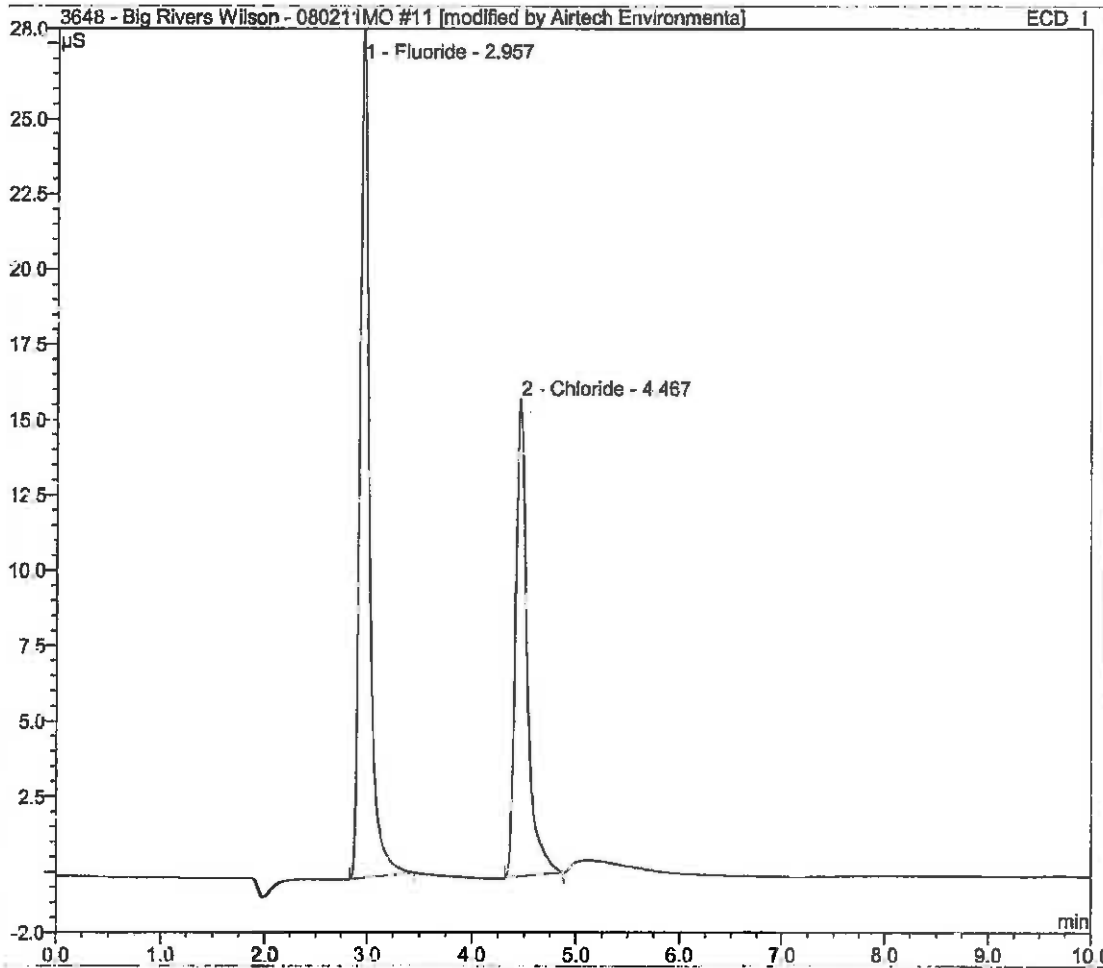
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 08:34	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.469	12.759	1.4853
2	4.47	Chloride	BMB*	1.001	7.468	1.4626
TOTAL:				2.47	20.23	2.95



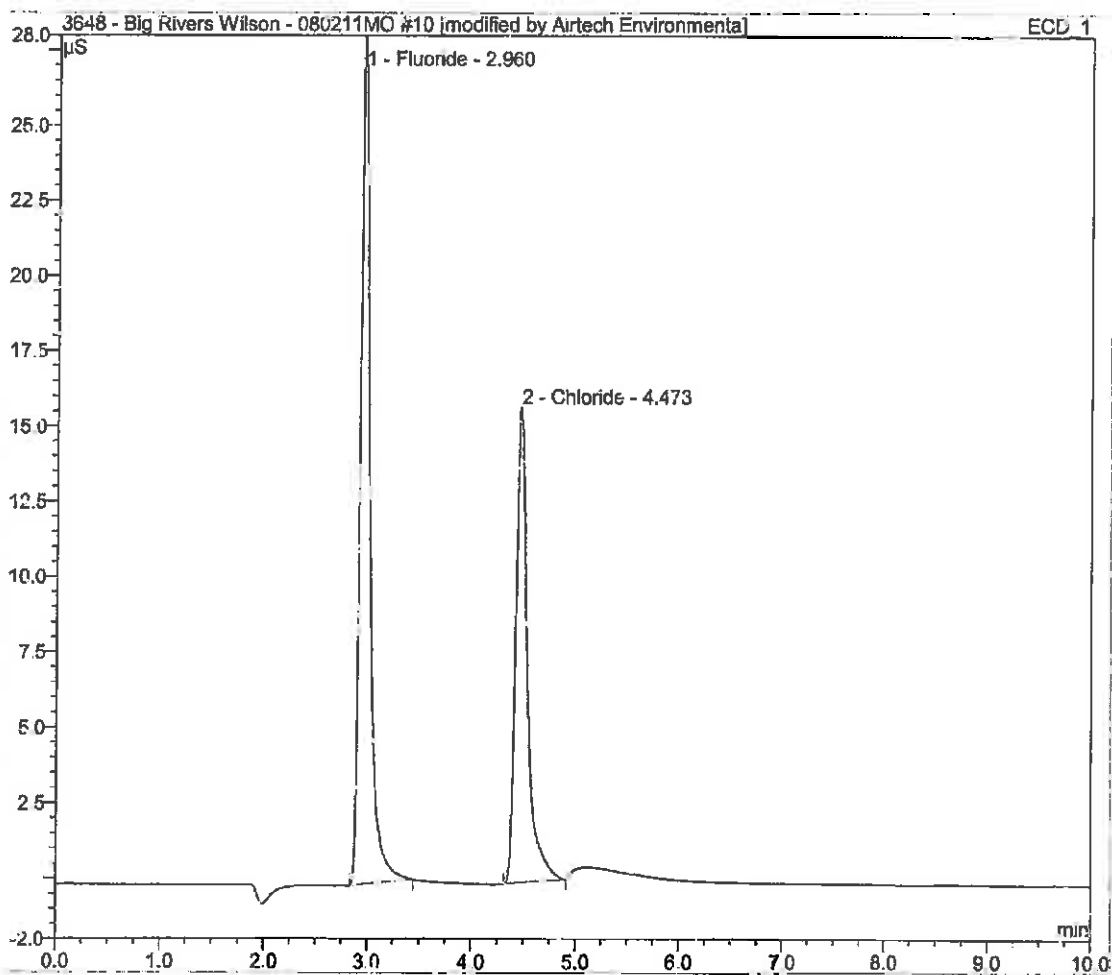
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 09:29	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.073	28.599	3.1066
2	4.47	Chloride	BMB*	2.052	15.825	2.9986
TOTAL:				5.13	44.42	6.11



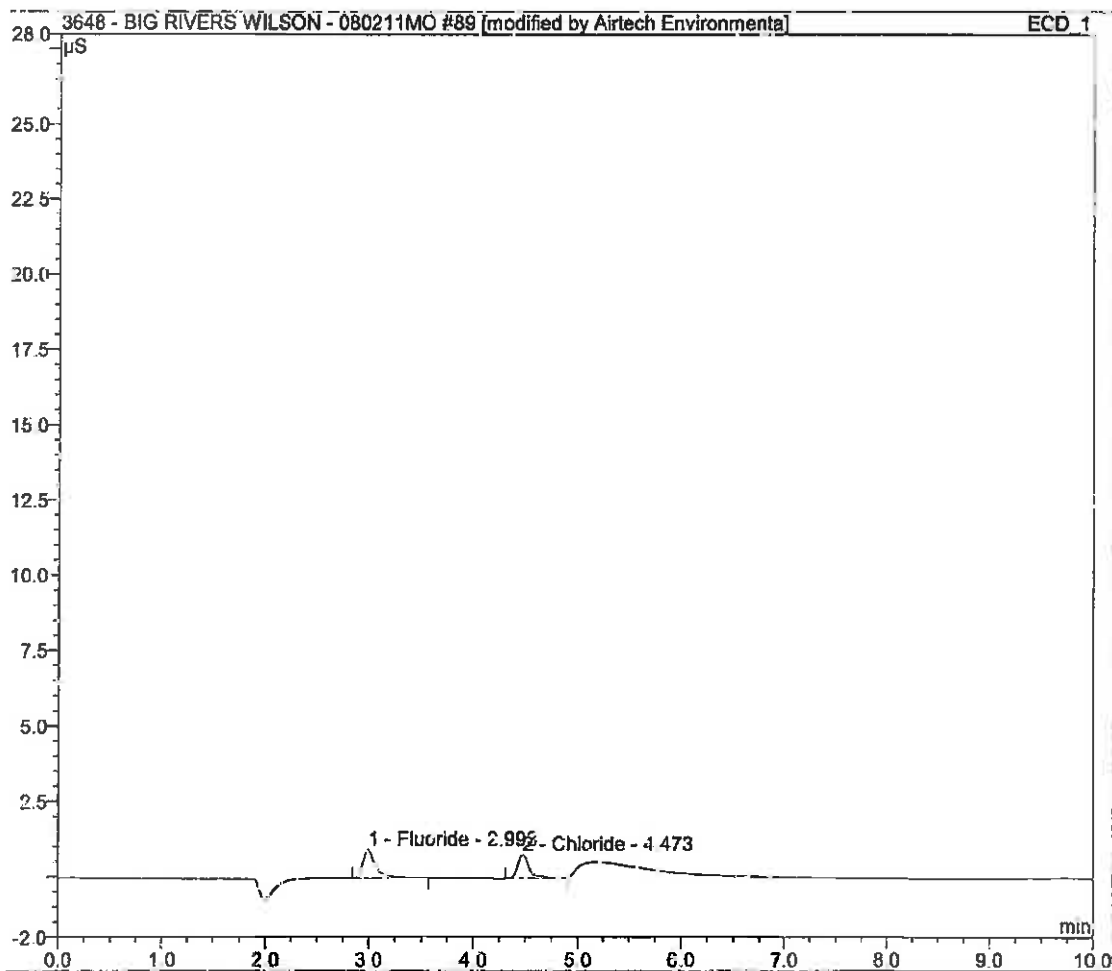
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 09:10	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.054	28.382	3.0876
2	4.47	Chloride	BMB*	2.058	15.771	3.0072
<b>TOTAL:</b>				5.11	44.15	6.09



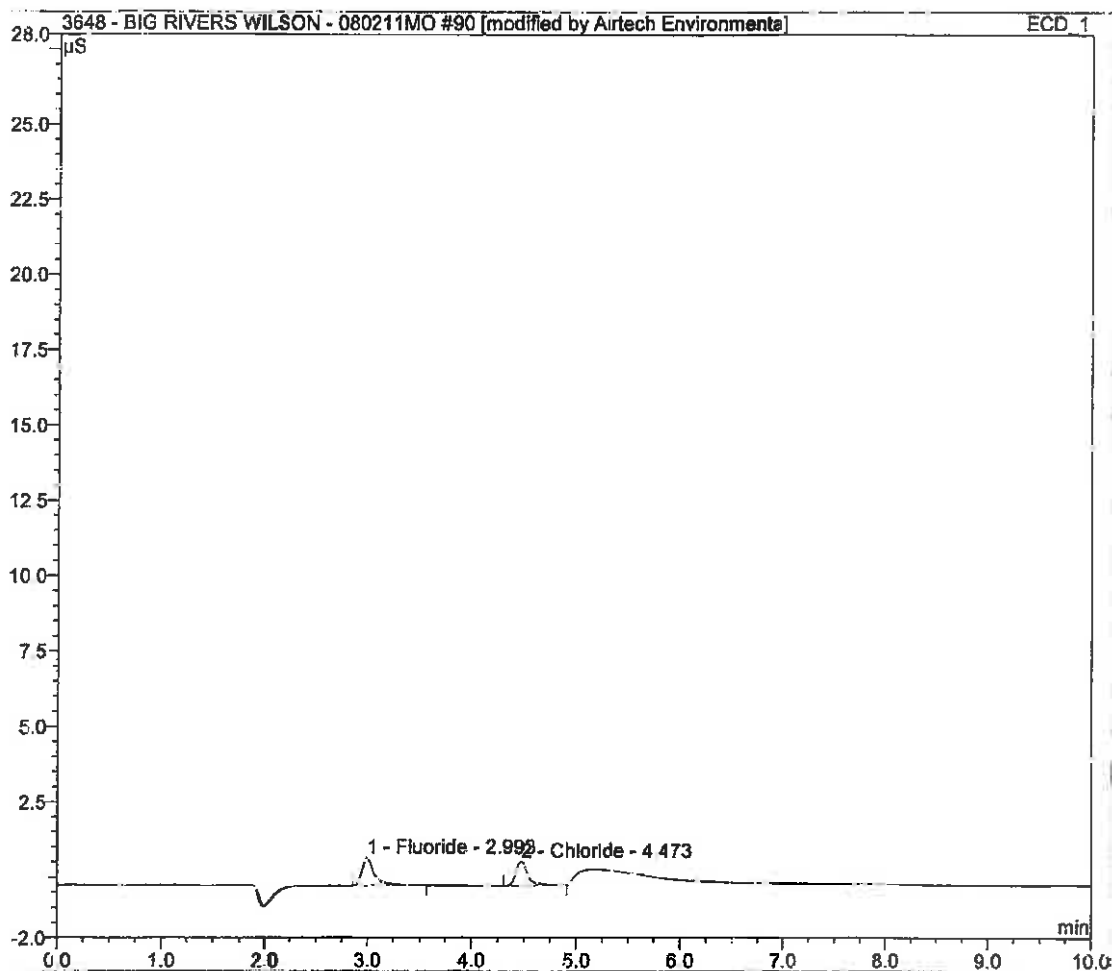
Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09:37	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	0.137	0.950	0.1373
2	4.47	Chloride	BMB*	0.107	0.787	0.1530
TOTAL:				0.24	1.74	0.29



Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09:53	Run Time:	15.00

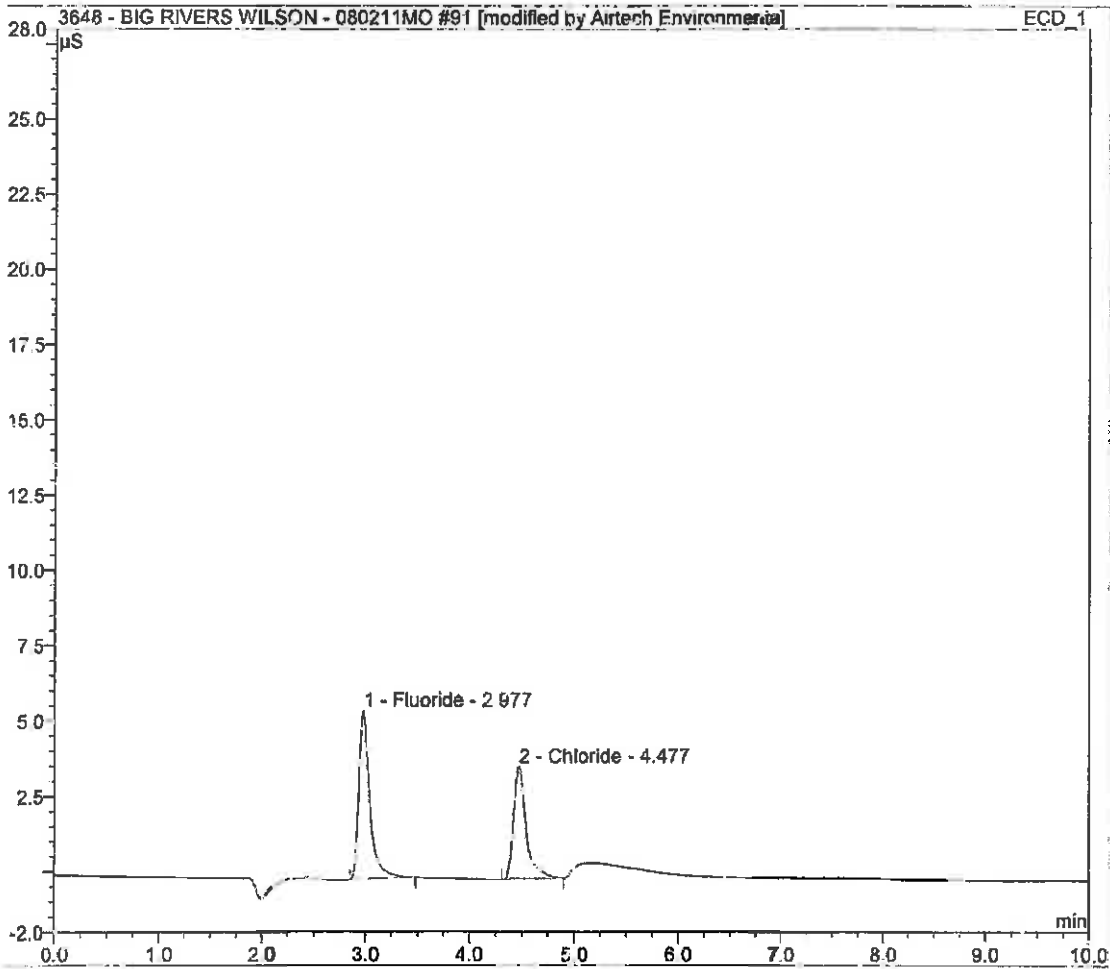
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	0.132	0.920	0.1325
2	4.47	Chloride	BMB*	0.108	0.805	0.1535
TOTAL:				0.24	1.73	0.29





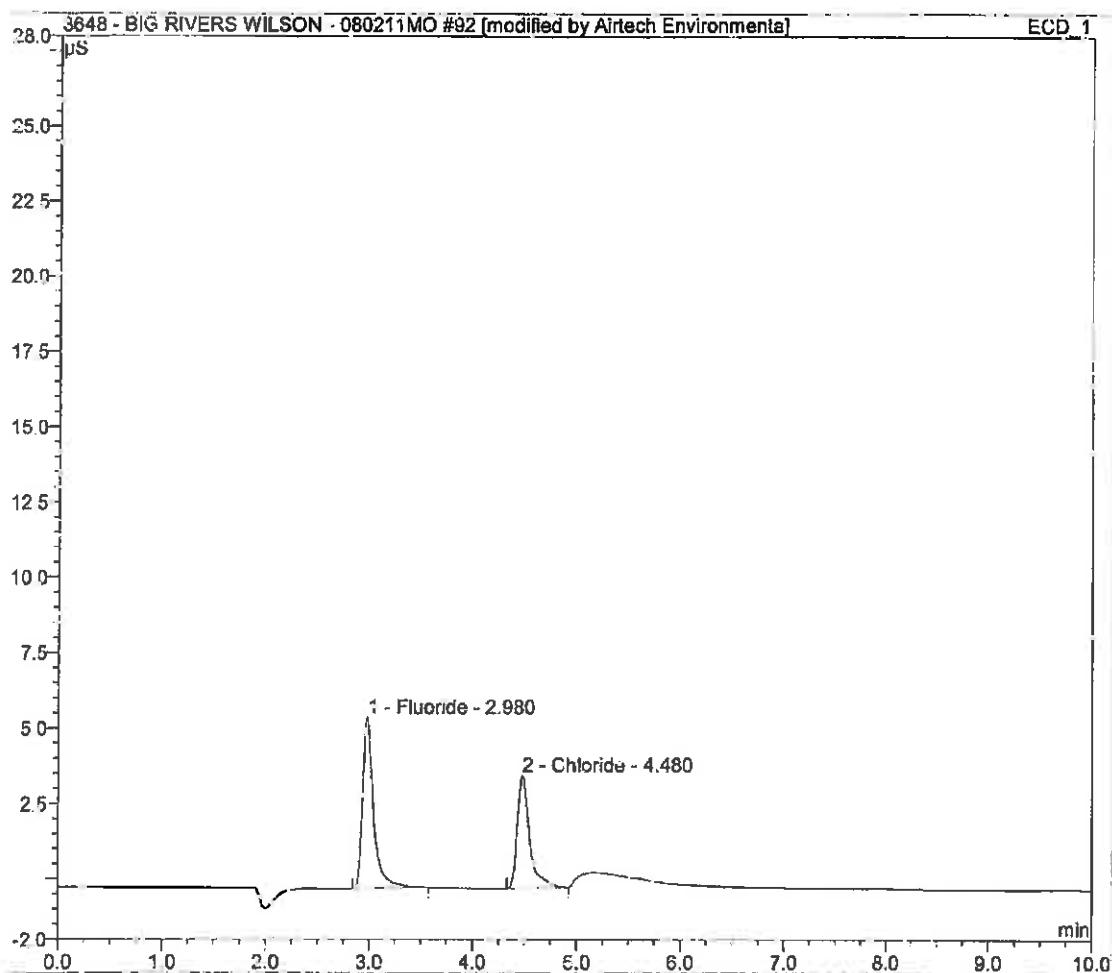
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	10.08.11 10:15	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.695	5.599	0.6971
2	4.48	Chloride	BMB*	0.515	3.740	0.7333
TOTAL:				1.21	9.34	1.43



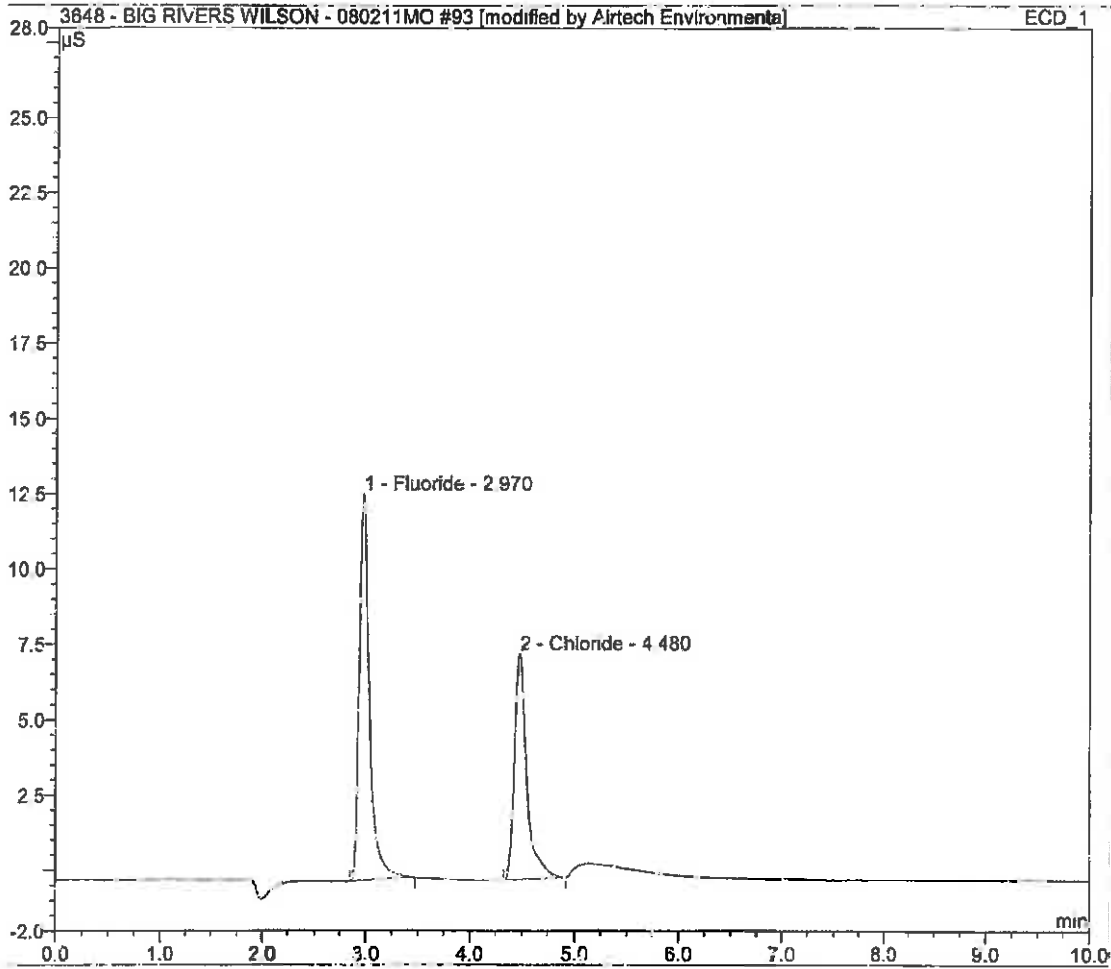
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 10.31	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.711	5.681	0.7137
2	4.48	Chloride	BMB*	0.515	3.744	0.7333
TOTAL:				1.23	9.42	1.45



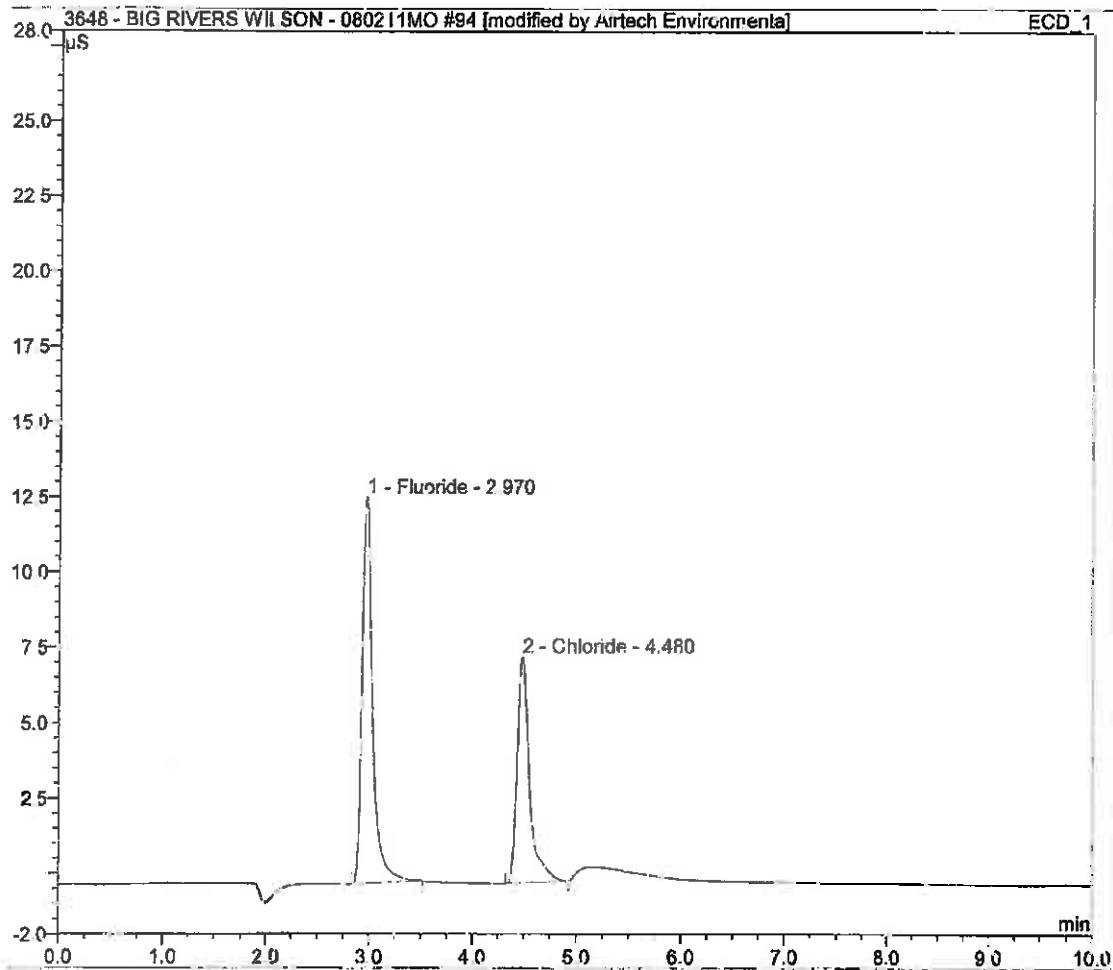
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 10:51	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.483	12.822	1.4882
2	4.48	Chloride	BMB*	1.015	7.483	1.4438
TOTAL:				2.50	20.31	2.93



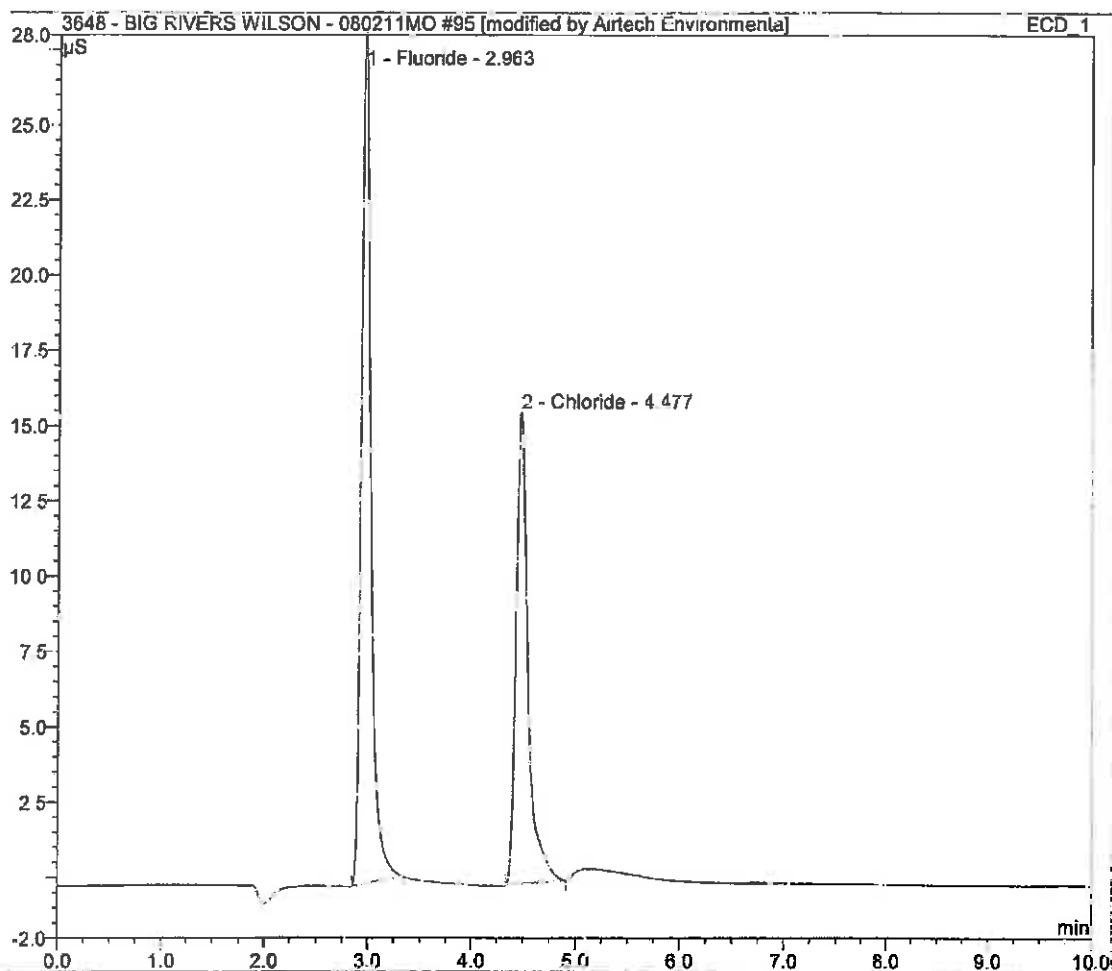
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 11:19	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.491	12.811	1.4965
2	4.48	Chloride	BMB*	1.019	7.495	1.4506
TOTAL:				2.51	20.31	2.95



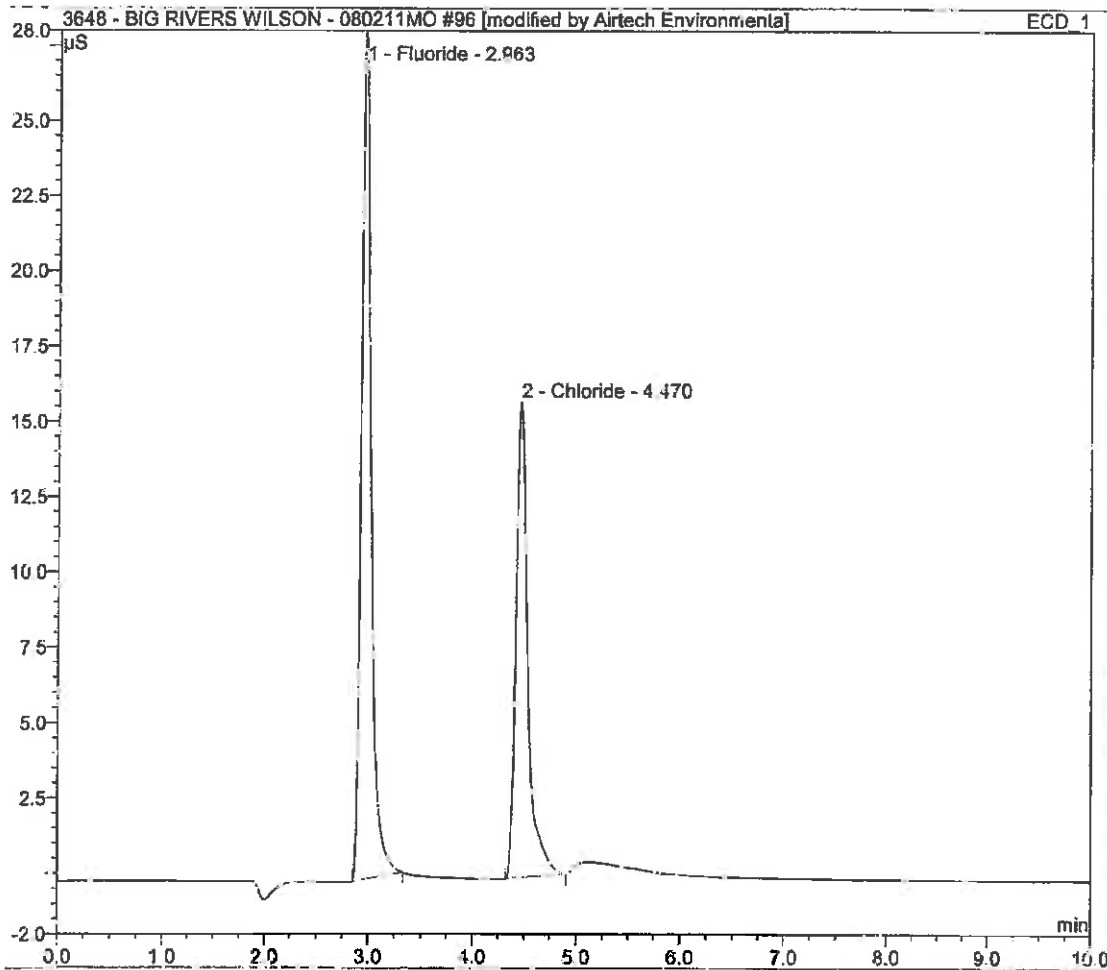
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 12:01	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.035	28.367	3.0458
2	4.48	Chloride	BMB*	2.072	15.653	2.9482
<b>TOTAL:</b>				5.11	44.02	5.99



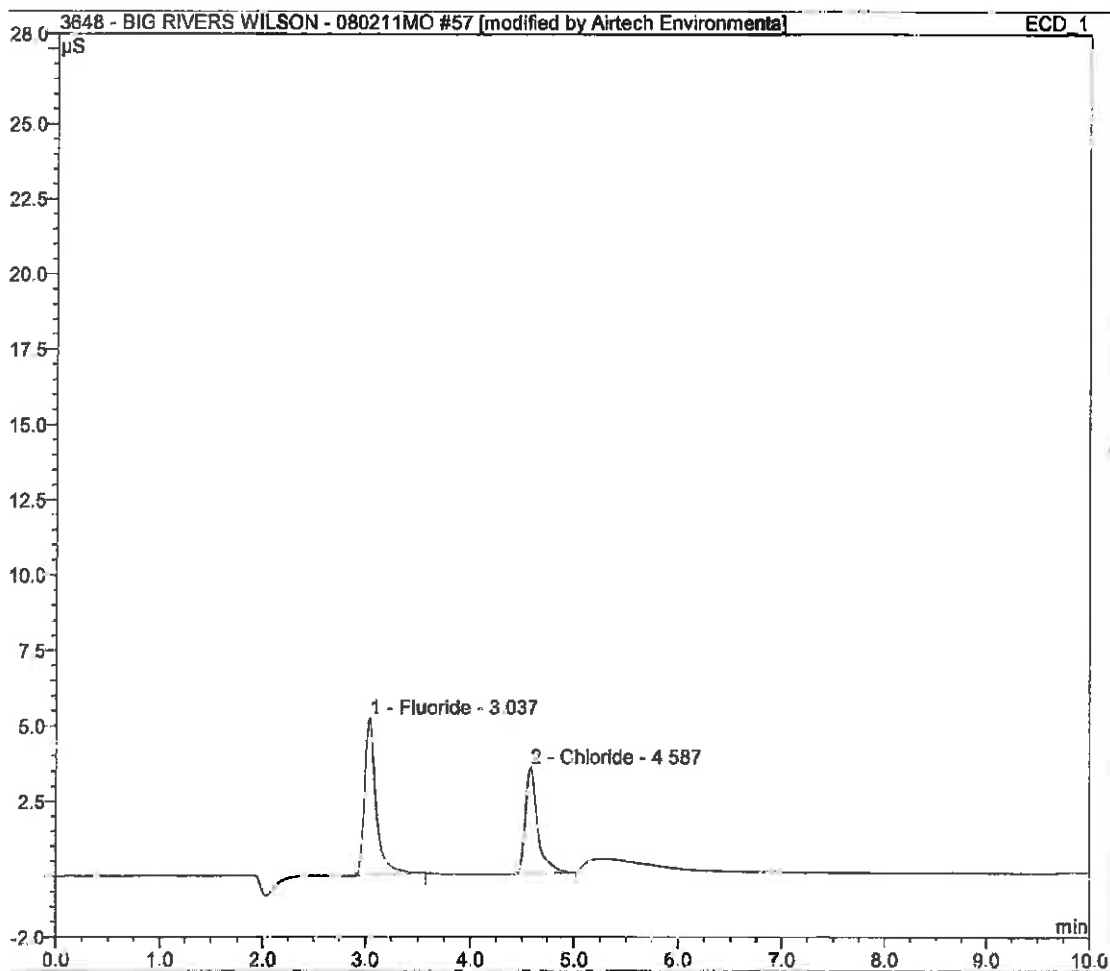
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 12:22	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.032	28.396	3.0428
2	4.47	Chloride	BMB*	2.087	15.796	2.9702
TOTAL:				5.12	44.19	6.01



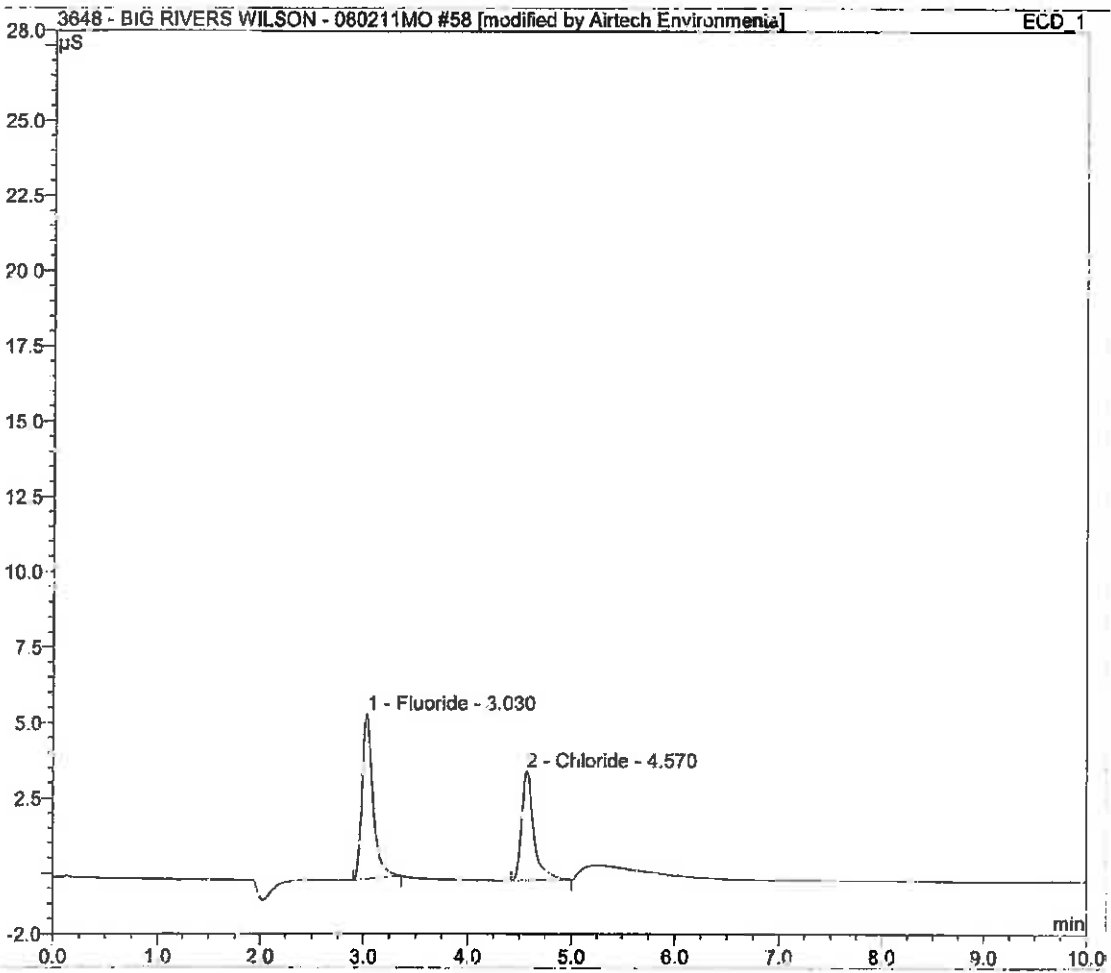
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 10:20	Run Time:	12.23

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	3.04	Fluoride	BMB*	0.676	5.220	0.6782
2	4.59	Chloride	BMB*	0.498	3.532	0.7080
TOTAL:				1.17	8.75	1.39



Sample Name:	cal std 2 - Cl & F In H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	08.08.11 10:36	Run Time:	15.00

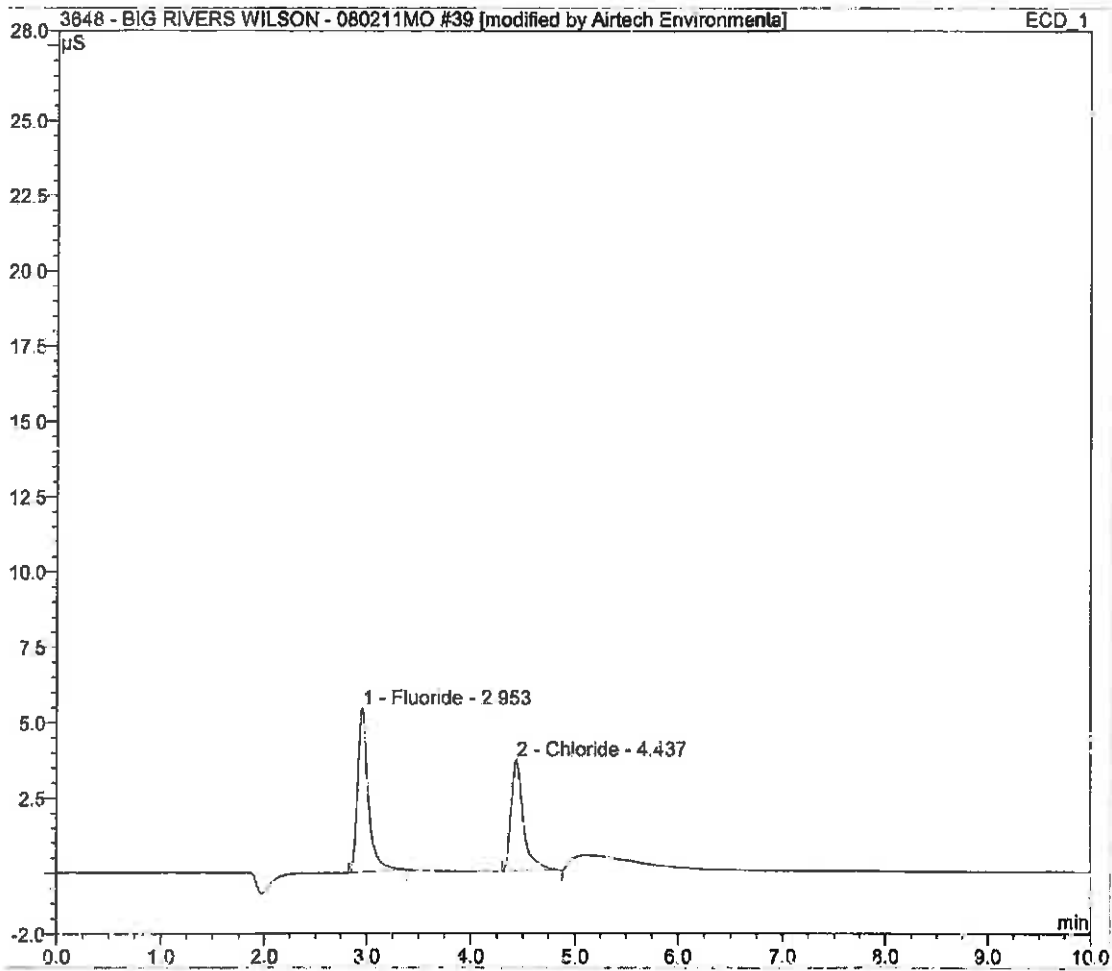
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	3.03	Fluoride	BMB*	0.657	5.477	0.6597
2	4.57	Chloride	BMB*	0.501	3.621	0.7131
TOTAL:				1.16	9.10	1.37





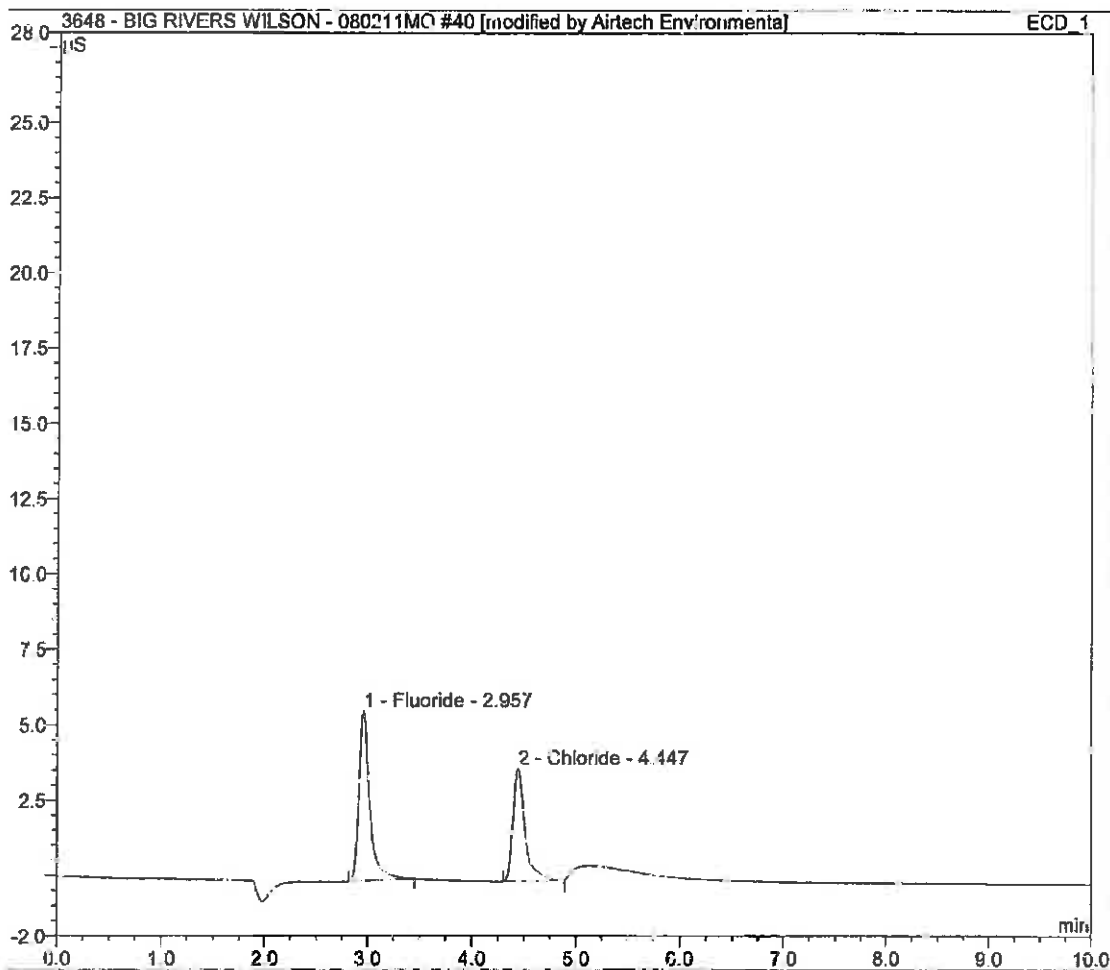
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 09:13	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB*	0.662	5.442	0.6645
2	4.44	Chloride	BMB*	0.504	3.696	0.7169
TOTAL:				1.17	9.14	1.38



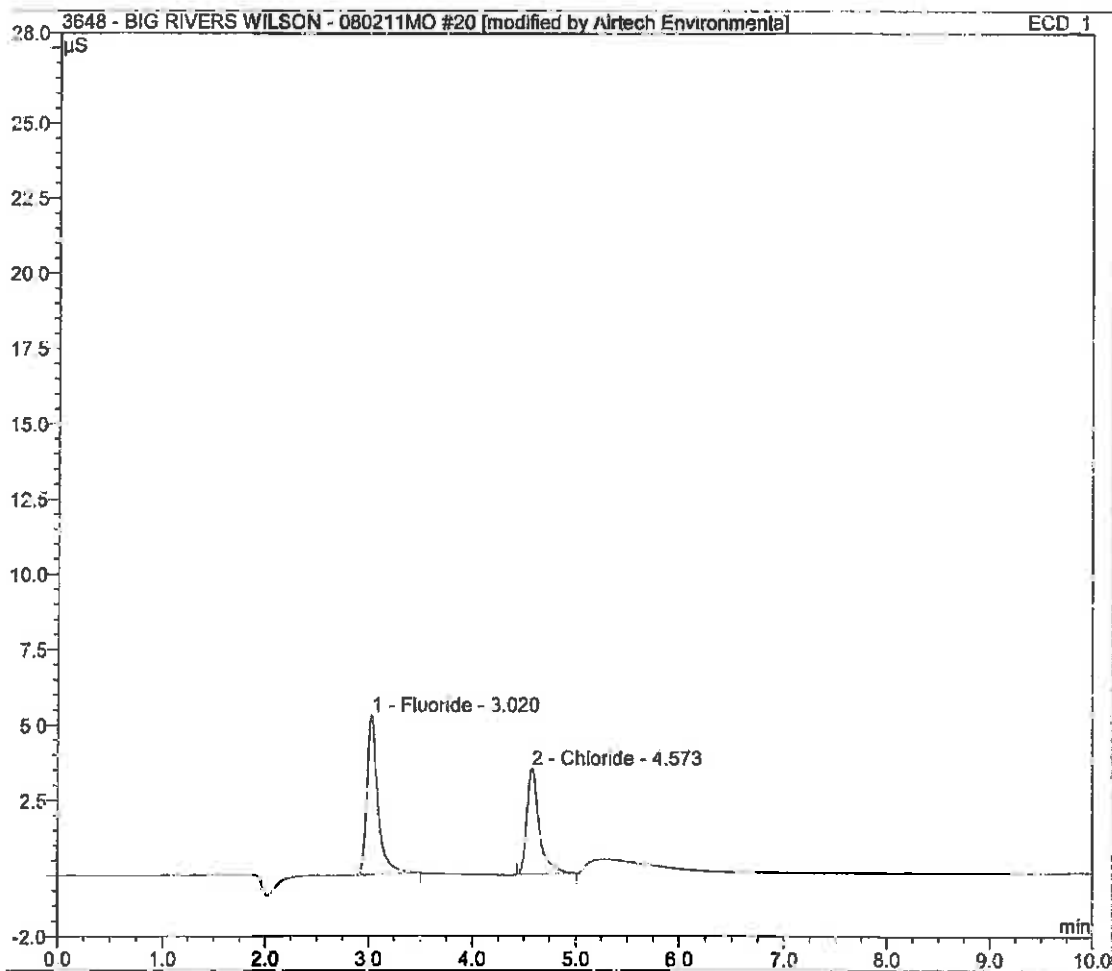
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a
Inj. Date/Time:	05.08.11 09:29	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	0.690	5.636	0.6922
2	4.45	Chloride	BMB*	0.504	3.730	0.7172
TOTAL:				1.19	9.37	1.41



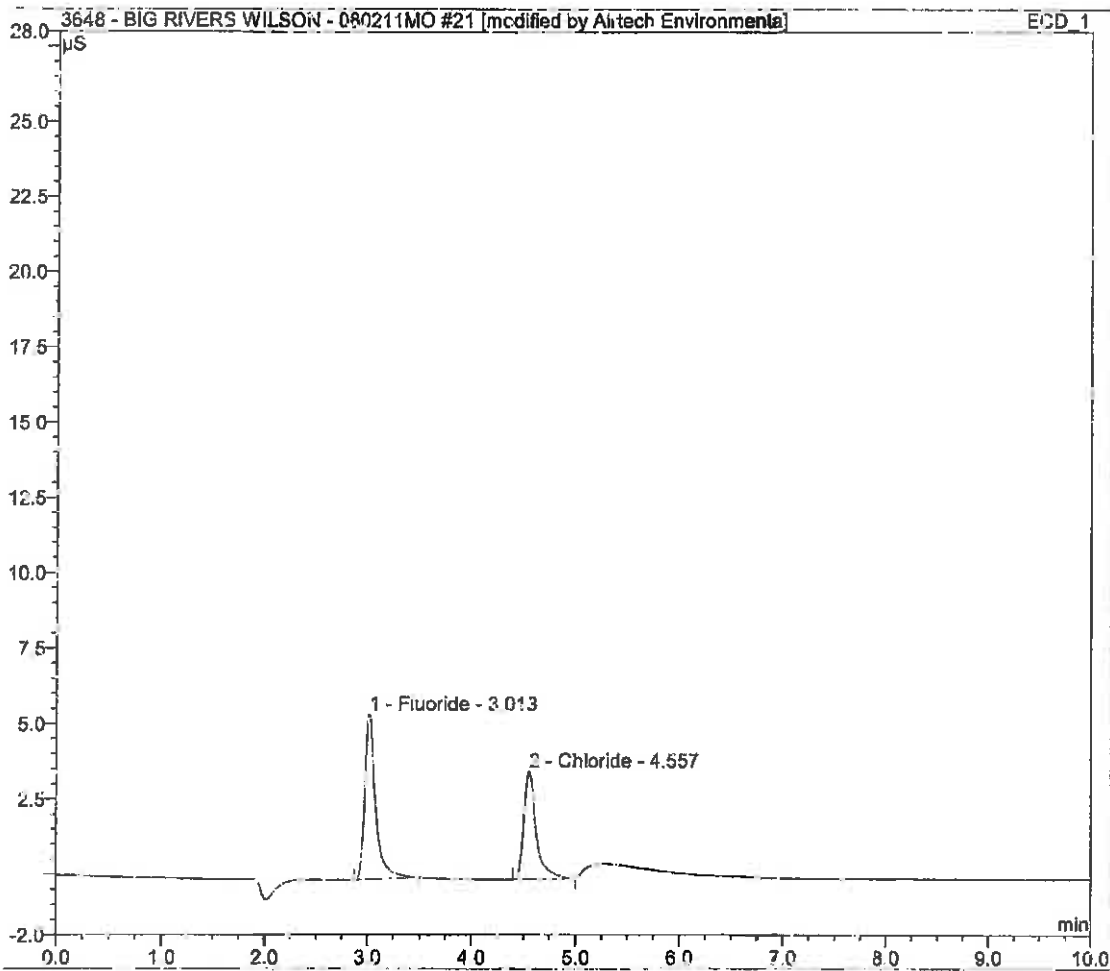
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 08:50	Run Time:	14.27

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g}/\text{ml}$
1	3.02	Fluoride	BMB*	0.660	5.290	0.6623
2	4.57	Chloride	BMB*	0.494	3.502	0.7032
TOTAL:				1.15	8.79	1.37



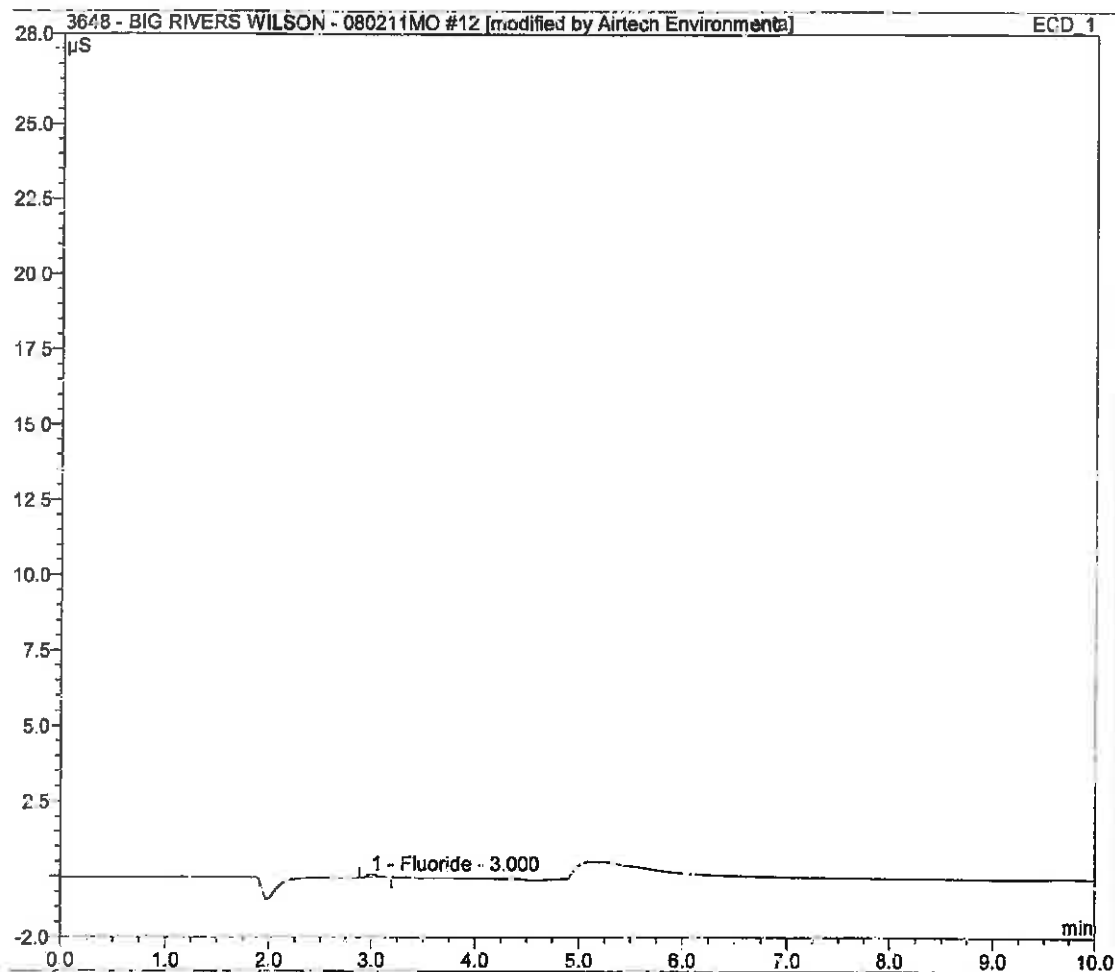
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 09:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	3.01	Fluoride	BMB*	0.676	5.472	0.6778
2	4.56	Chloride	BMB*	0.501	3.587	0.7129
TOTAL:				1.18	9.06	1.39



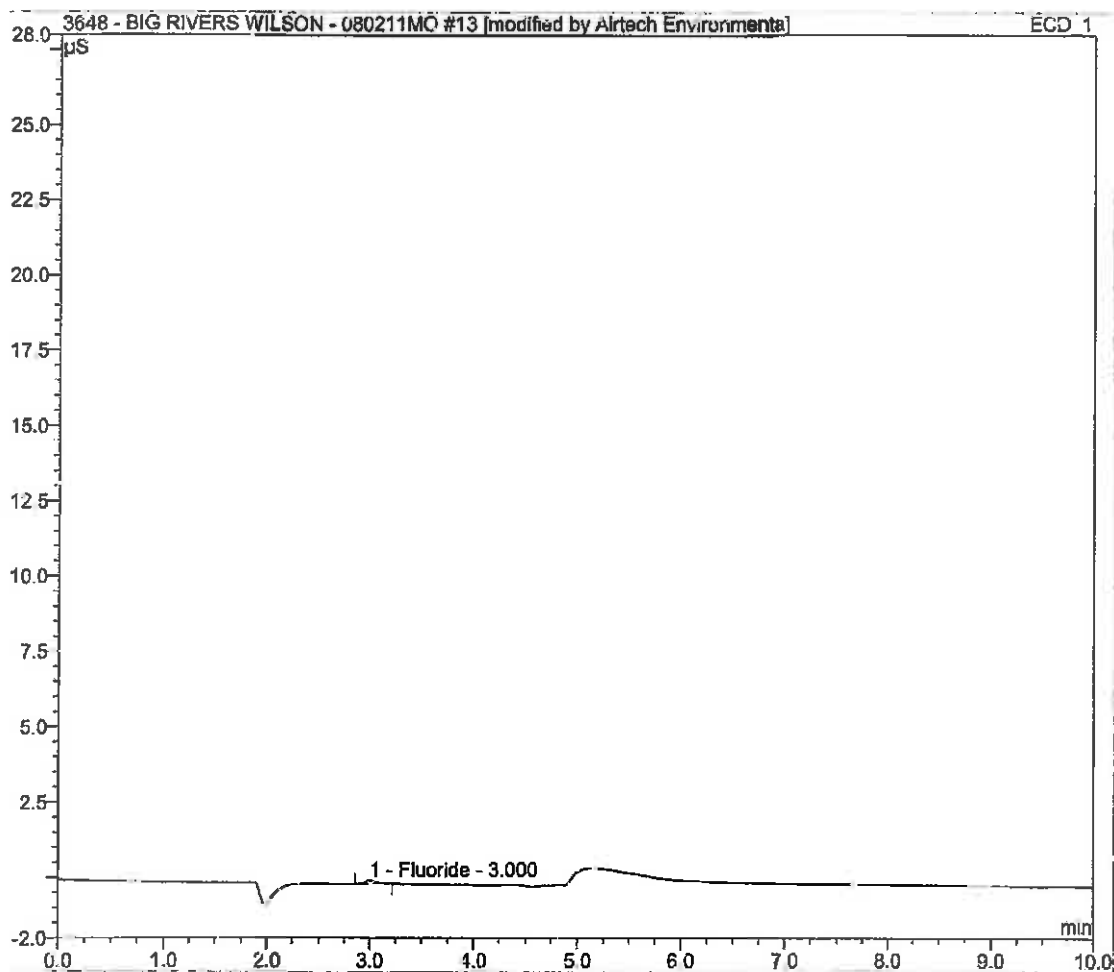
Sample Name:	Reagent Blank	Inj. Vol.:	10.0
Sample Type:	blank	Dilution Factor:	1.0000
Program:	ChlorideCat	Operator:	n.a.
Inj. Date/Time:	03.08.11 10:59	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	3.00	Fluonde	BMB*	0.013	0.111	0.0129
TOTAL:				0.01	0.11	0.01



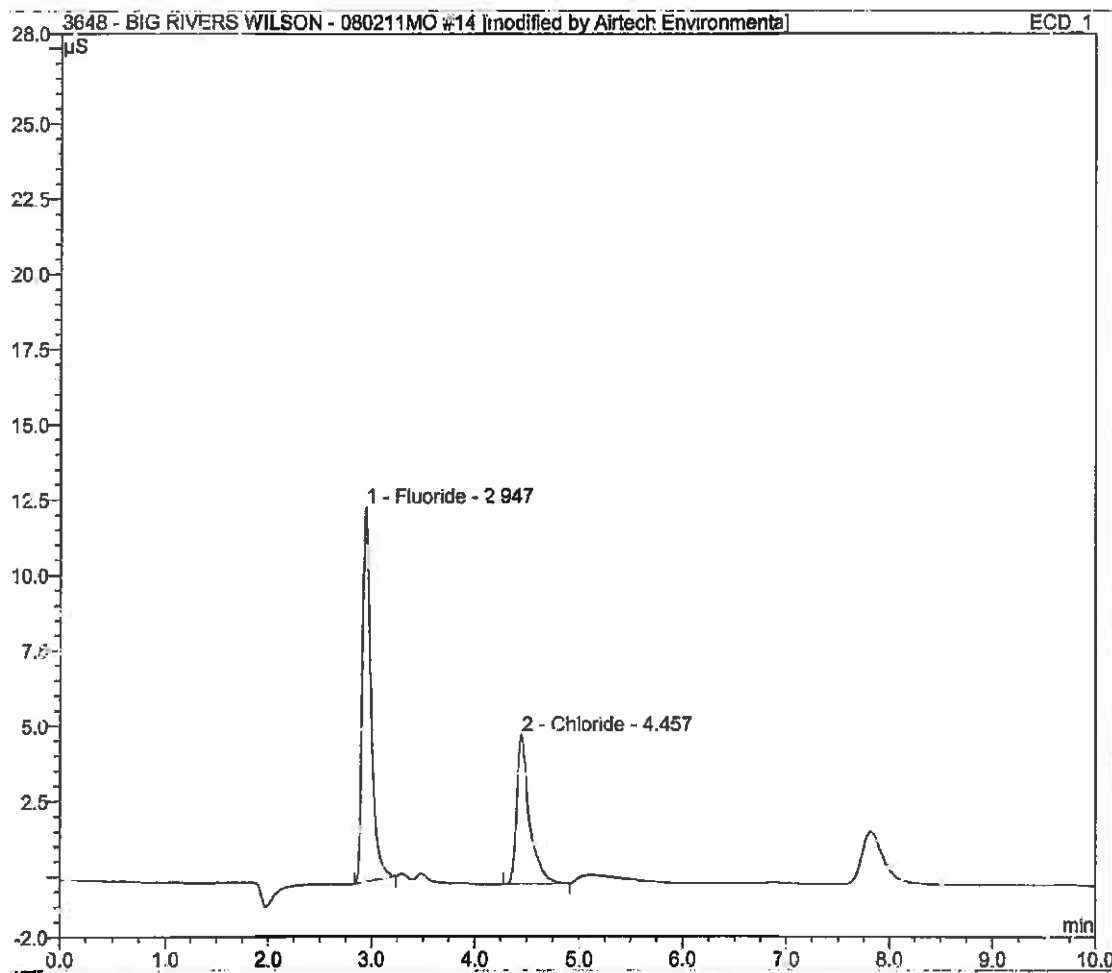
Sample Name:	Reagent Blank	Inj. Vol.:	10.0
Sample Type:	blank	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 11:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	3.00	Fluoride	BMB*	0.013	0.107	0.0127
TOTAL:				0.01	0.11	0.01



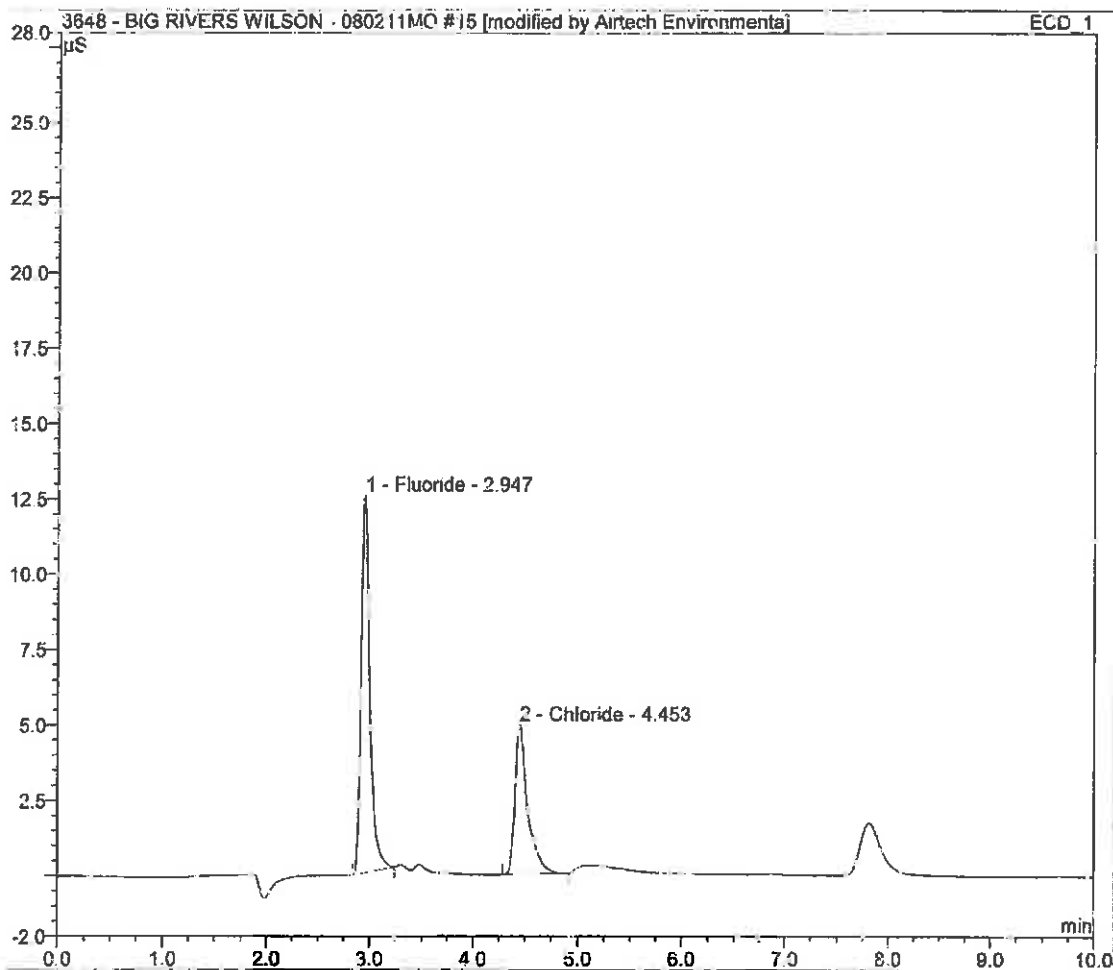
Sample Name:	ESP Exhaust 1 - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 11:34	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB	1.203	12.431	1.2069
2	4.46	Chloride	BMB*	0.699	4.947	0.9949
TOTAL:				1.90	17.38	2.20



Sample Name:	ESP Exhaust 1 - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 11:50	Run Time:	15.00

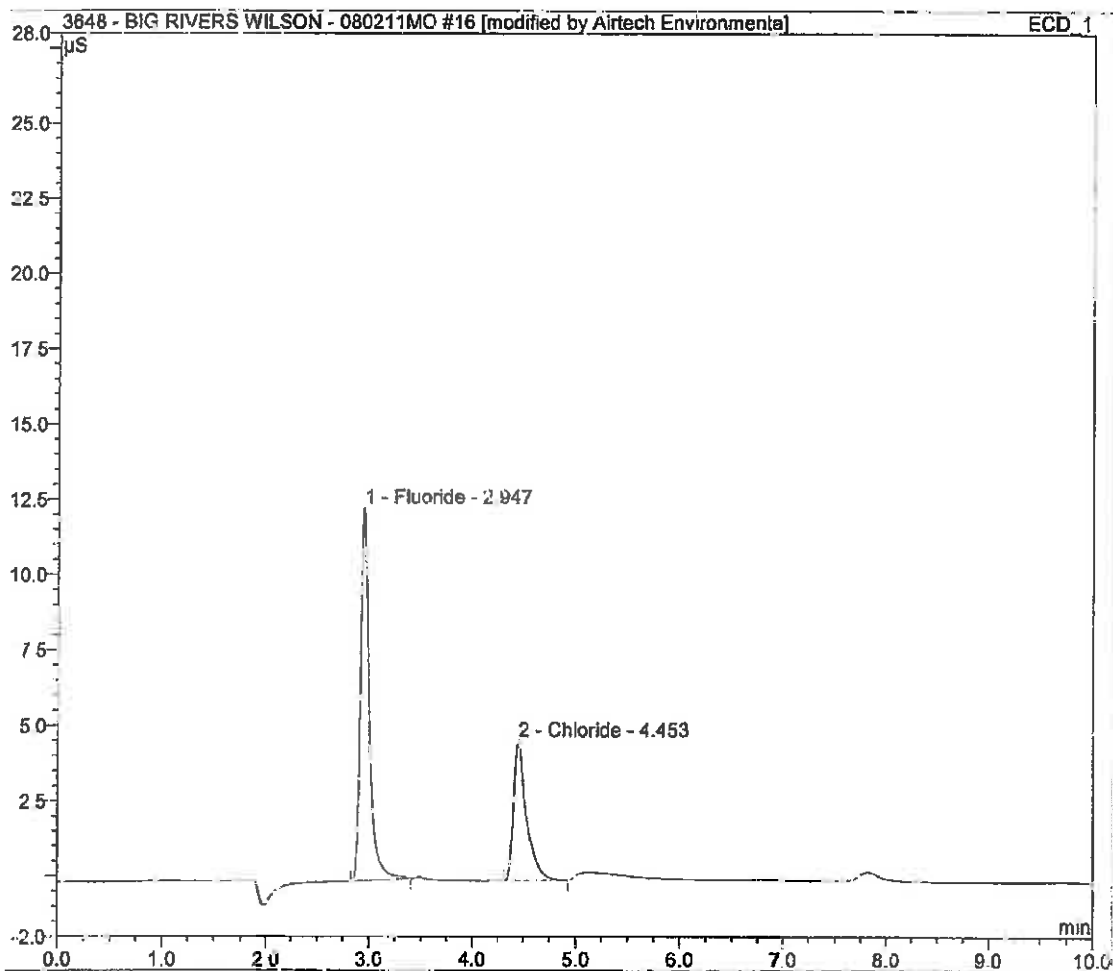
No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB	1.214	12.528	1.2179
2	4.45	Chloride	BMB*	0.704	4.964	1.0016
TOTAL:				1.92	17.49	2.22





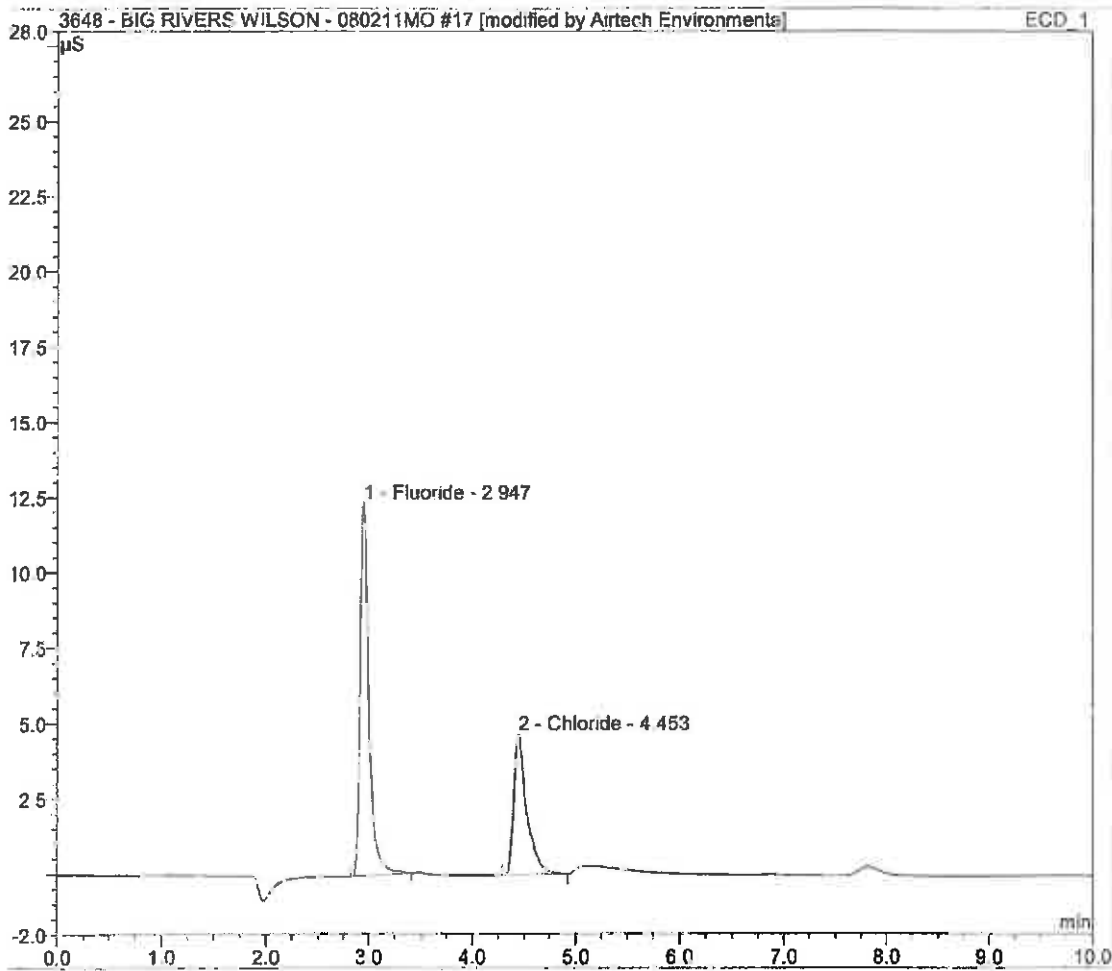
Sample Name:	ESP Exhaust 1 - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 12:05	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB*	1.229	12.375	1.2330
2	4.45	Chloride	BMB*	0.669	4.652	0.9515
TOTAL:				1.90	17.03	2.18



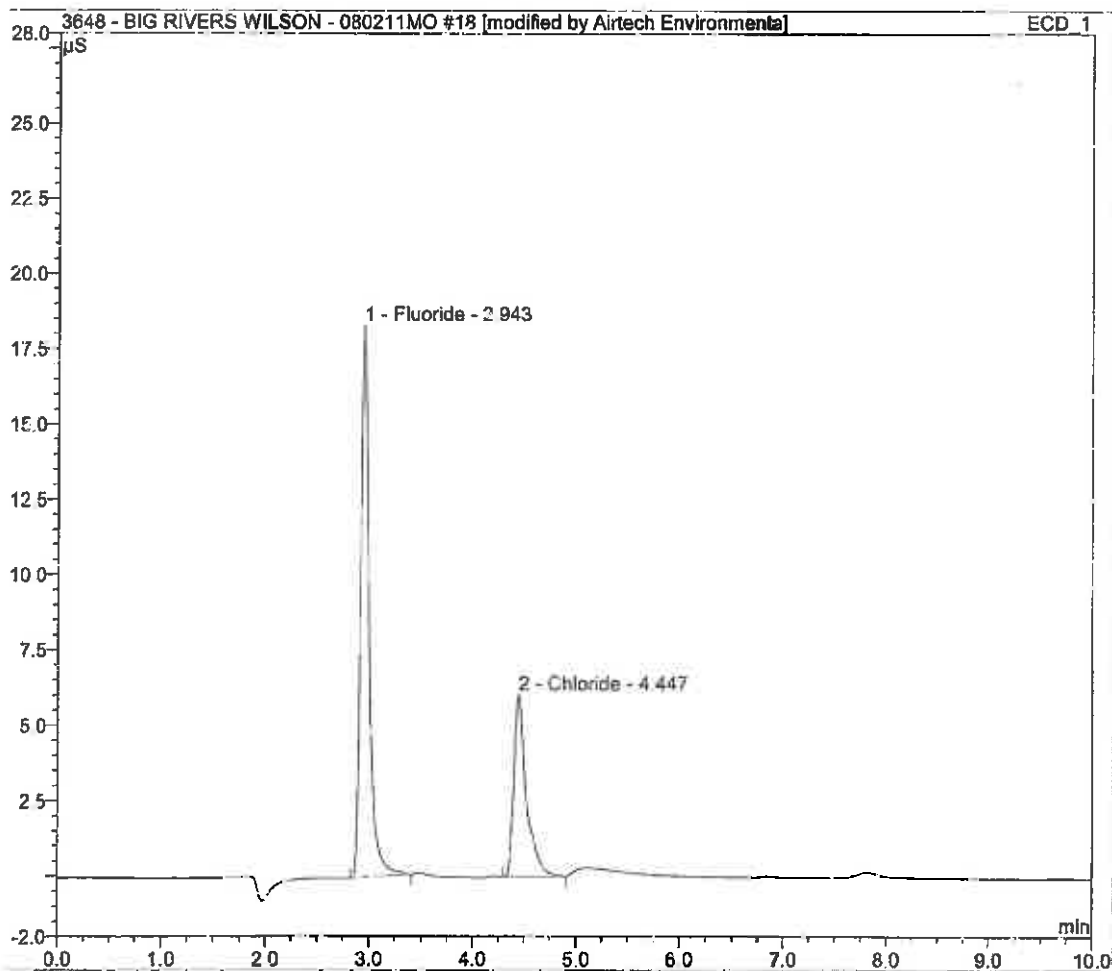
Sample Name:	ESP Exhaust 1 - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 12:47	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB*	1.230	12.392	1.2347
2	4.45	Chloride	BMB*	0.671	4.655	0.9554
TOTAL:				1.90	17.05	2.19



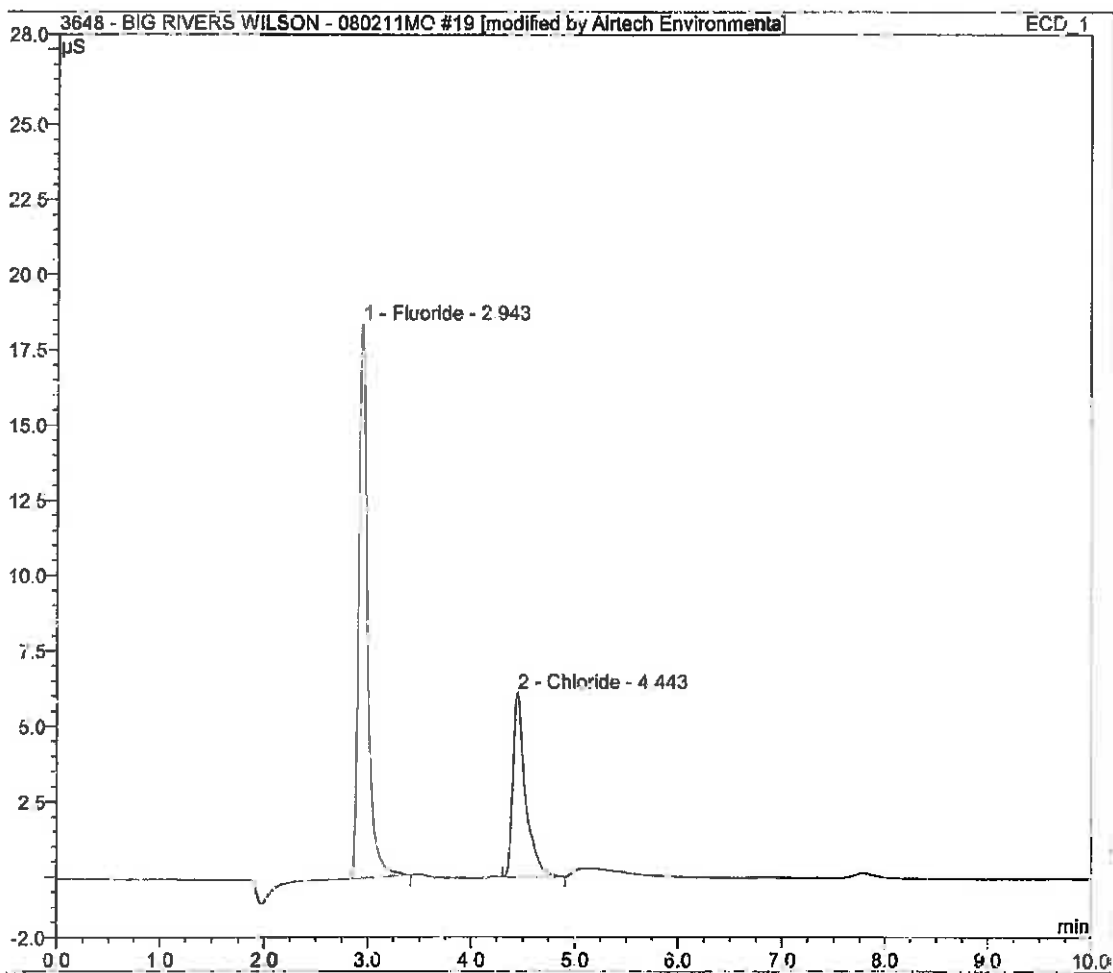
Sample Name:	ESP Exhaust 1 - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 13:03	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.94	Fluoride	BMB*	1.768	18.356	1.7737
2	4.45	Chloride	BMB*	0.850	6.062	1.2102
TOTAL:				2.62	24.42	2.98



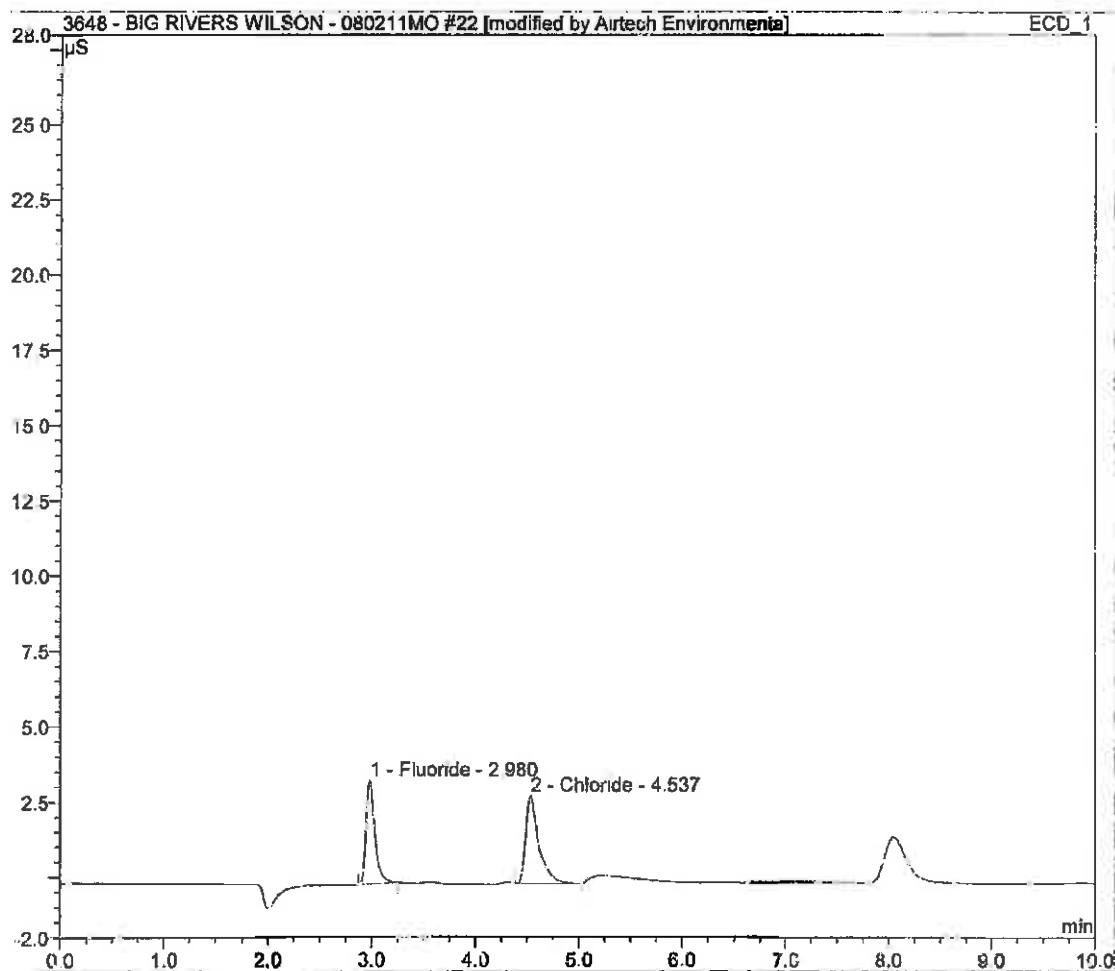
Sample Name:	ESP Exhaust 1 - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time	03.08.11 13:21	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.94	Fluoride	BMB*	1.776	18.405	1.7819
2	4.44	Chloride	BMB*	0.854	6.103	1.2154
TOTAL:				2.63	24.51	3.00



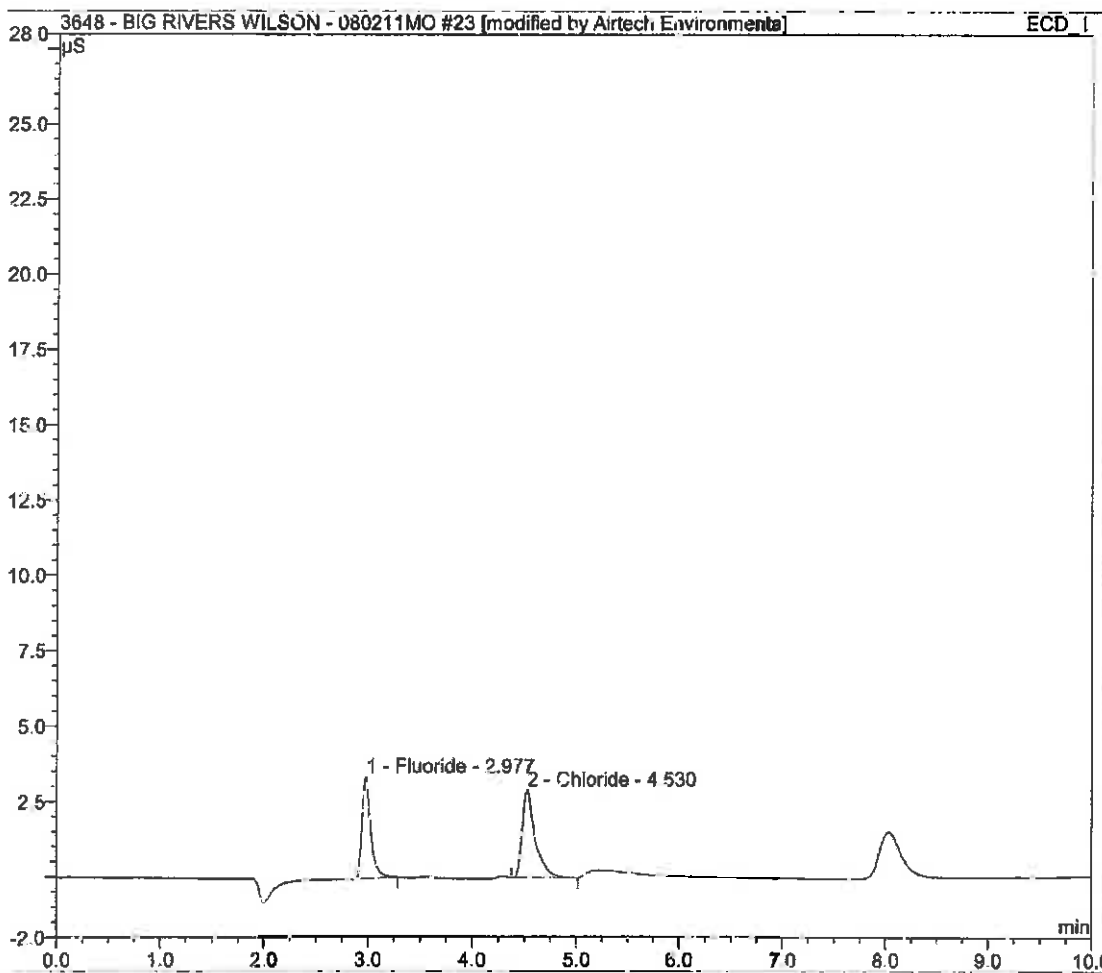
Sample Name:	ESP Exhaust 2 - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 09:22	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.335	3.442	0.3366
2	4.54	Chloride	BMB*	0.426	2.923	0.6062
TOTAL:				0.76	6.36	0.94



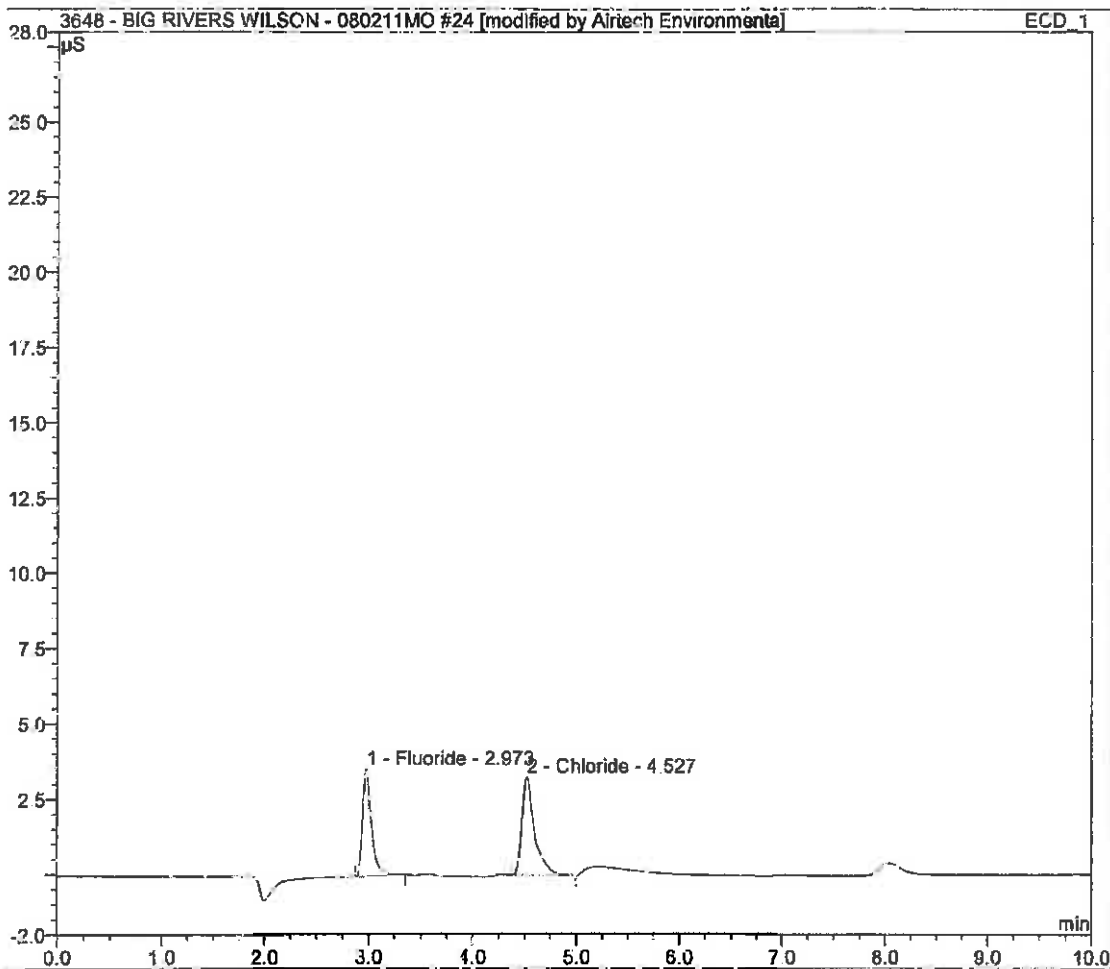
Sample Name:	ESP Exhaust 2 - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 09.39	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.334	3.393	0.3350
2	4.53	Chloride	BMB*	0.427	2.926	0.6078
TOTAL:				0.76	6.32	0.94



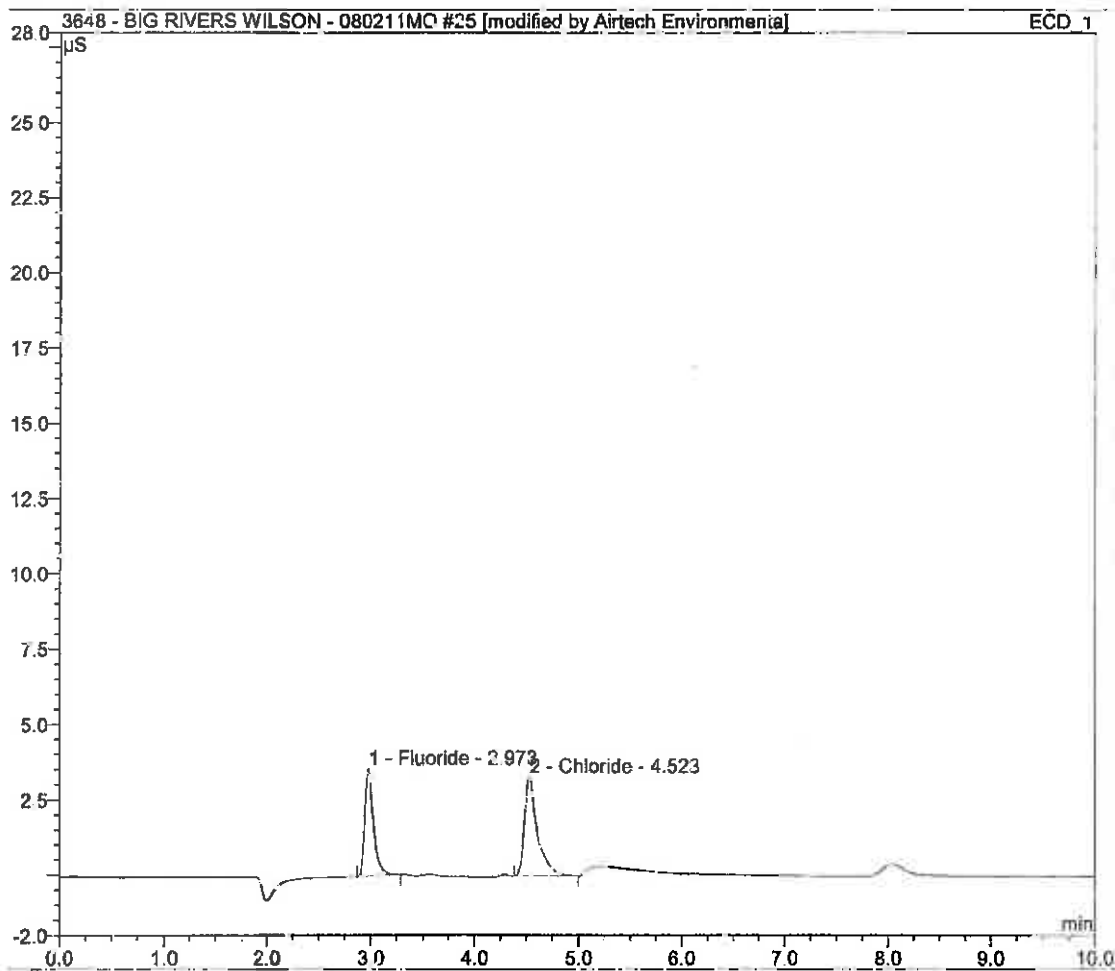
Sample Name:	ESP Exhaust 2 - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 09:55	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	0.354	3.569	0.3551
2	4.53	Chloride	BMB*	0.470	3.286	0.6691
TOTAL:				0.82	6.86	1.02



Sample Name:	ESP Exhaust 2 - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 10:11	Run Time:	15.00

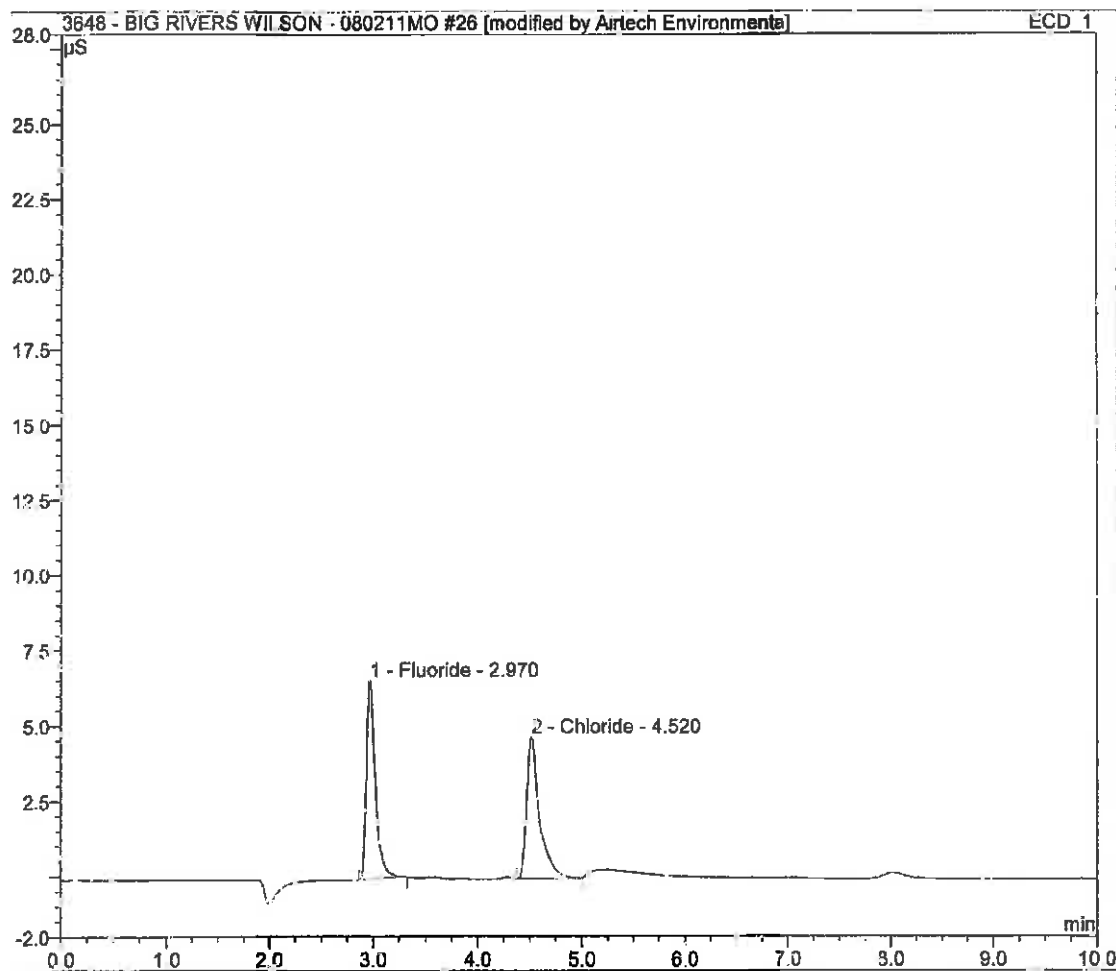
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB <sup>+</sup>	0.350	3.560	0.3516
2	4.52	Chloride	BMB <sup>+</sup>	0.471	3.276	0.6704
TOTAL:				0.82	6.84	1.02





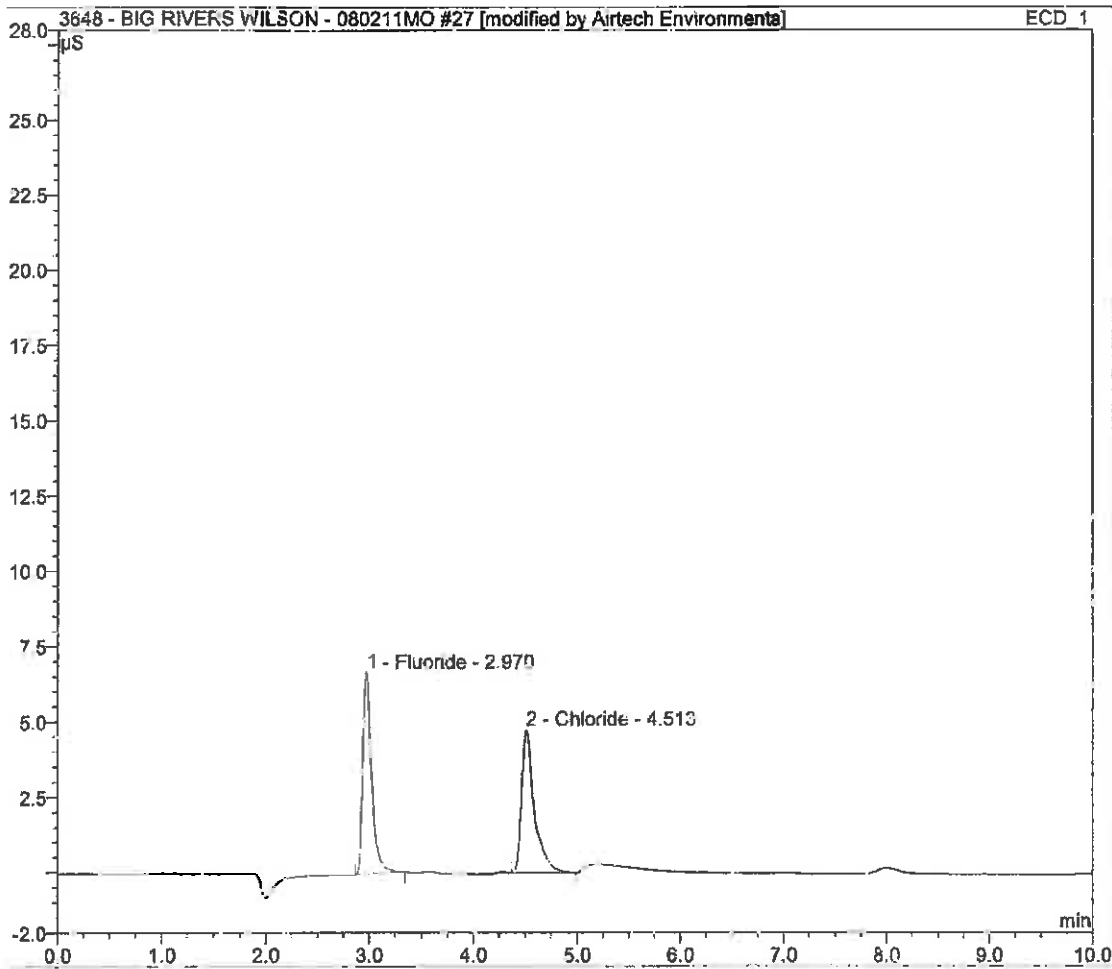
Sample Name:	ESP Exhaust 2 - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	04.08.11 10:27	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	0.645	6.590	0.6475
2	4.52	Chloride	BMB*	0.673	4.690	0.9579
TOTAL:				1.32	11.28	1.61



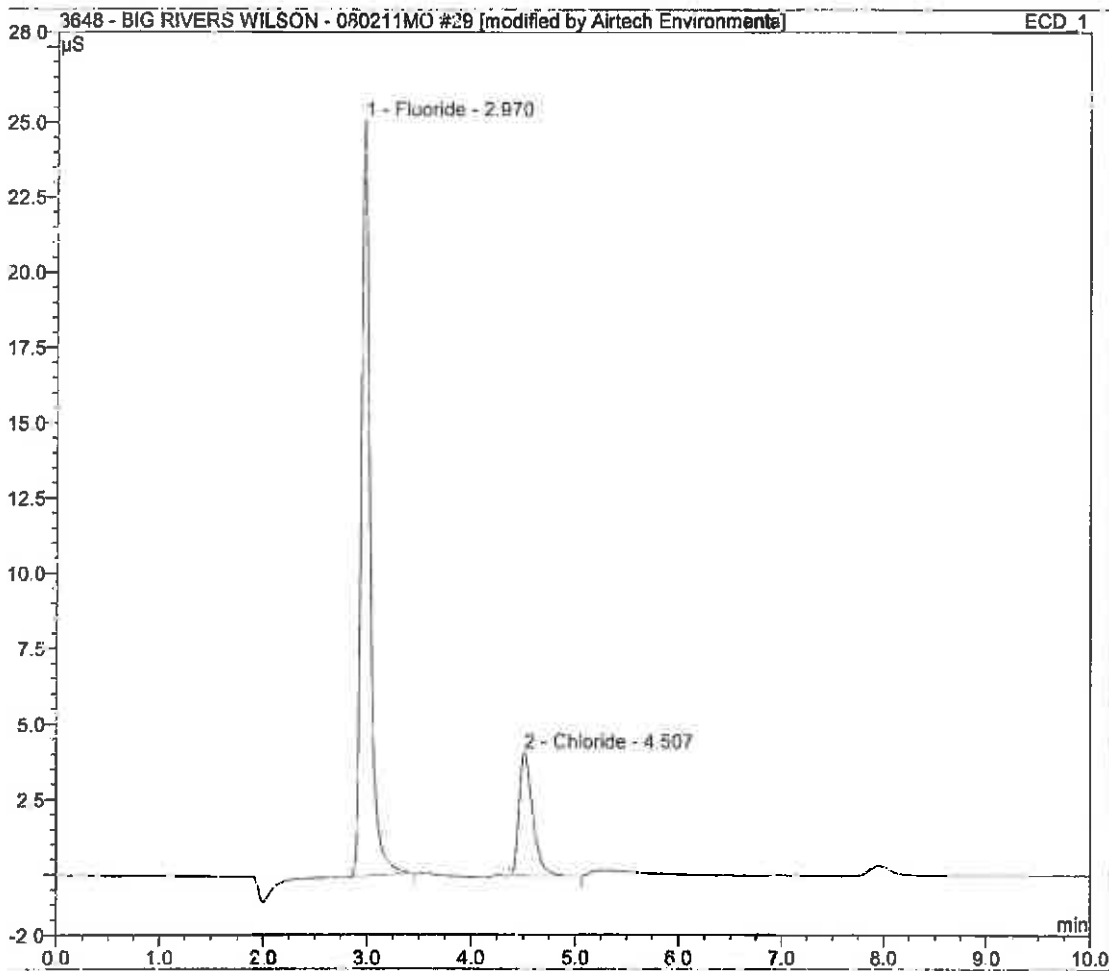
Sample Name:	ESP Exhaust 2 - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	04.08.11 10:46	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluonde	BMB*	0.654	6.680	0.6567
2	4.51	Chloride	BMB*	0.678	4.765	0.9646
<b>TOTAL:</b>				1.33	11.45	1.62



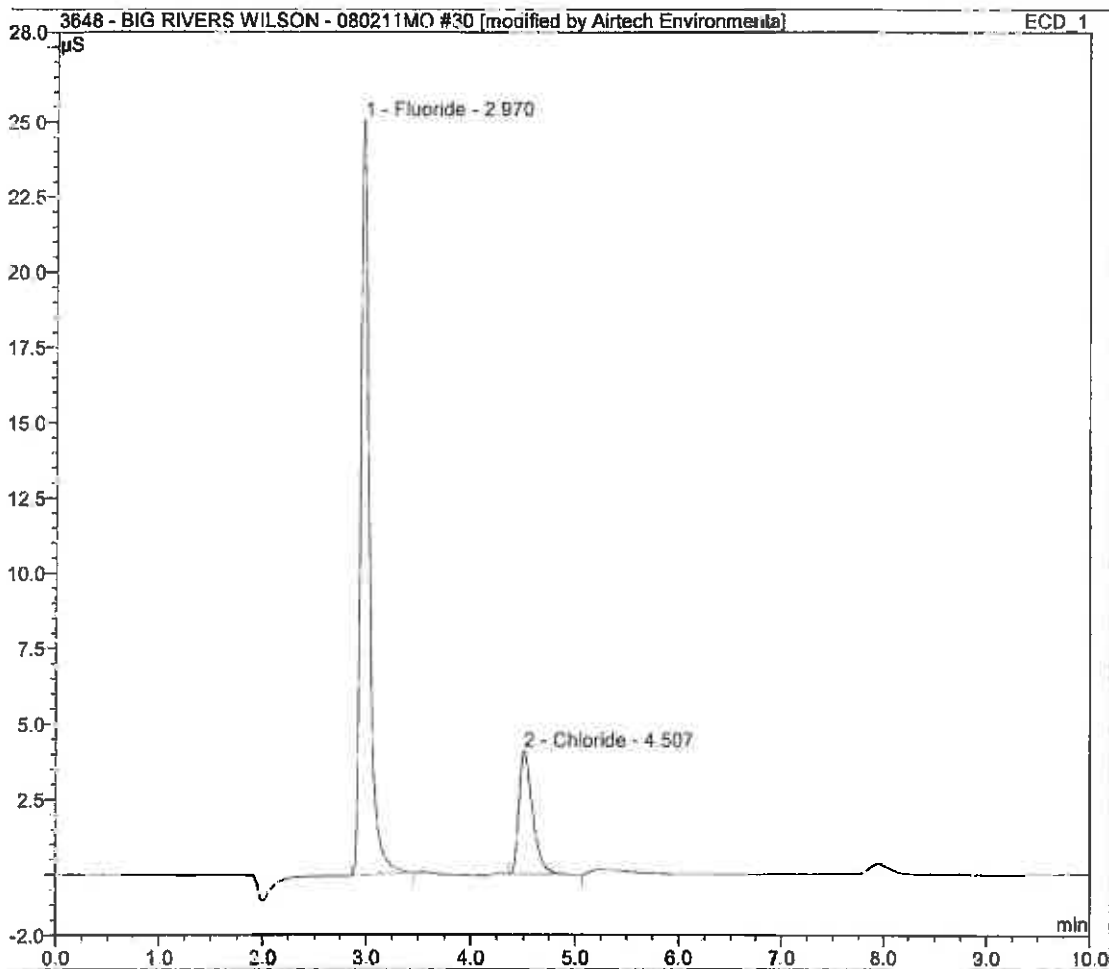
Sample Name:	ESP Exhaust 3 - Run 1 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 11:23	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	2.442	25.153	2.4506
2	4.51	Chloride	BMB*	0.630	4.118	0.8960
TOTAL:				3.07	29.27	3.35



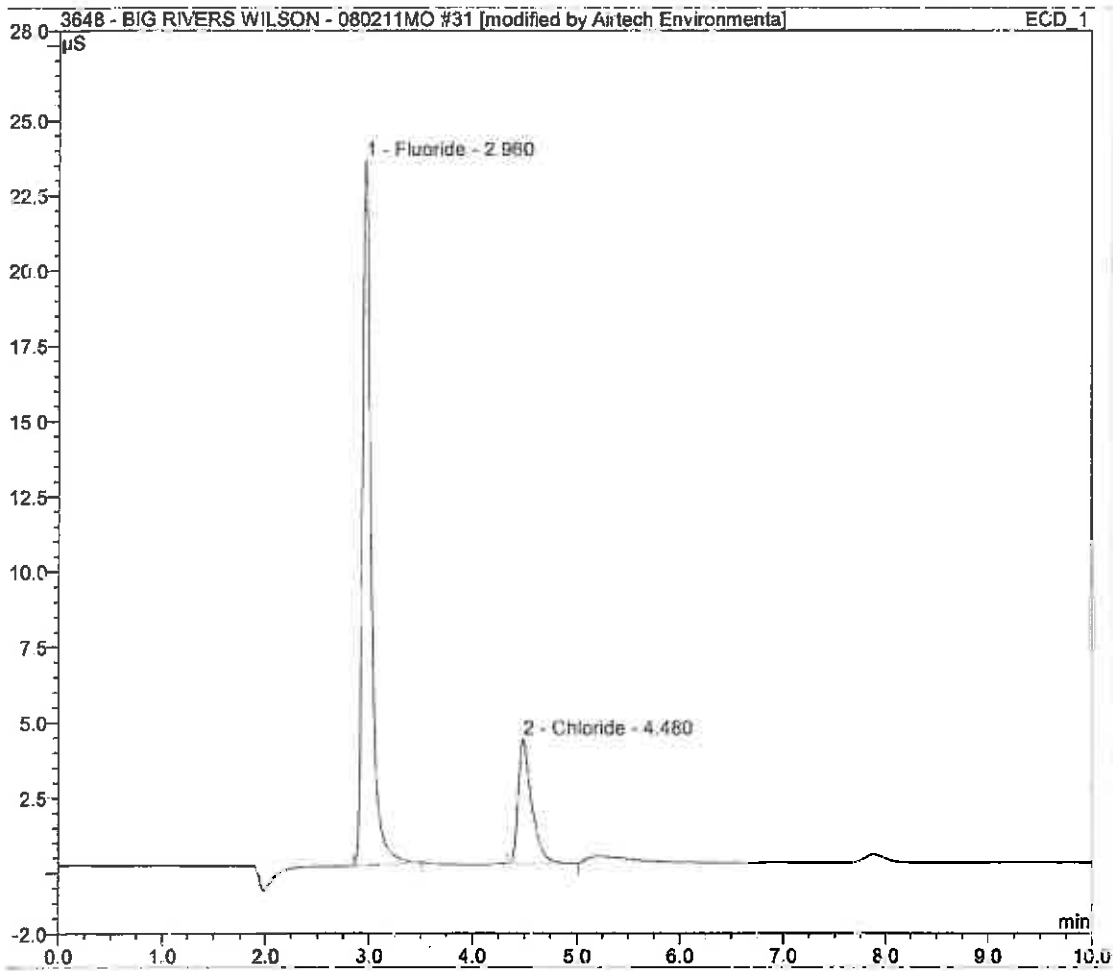
Sample Name:	ESP Exhaust 3 - Run 1 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 11:39	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	2.430	25.121	2.4388
2	4.51	Chloride	BMB*	0.627	4.117	0.6916
TOTAL:				3.06	29.24	3.33



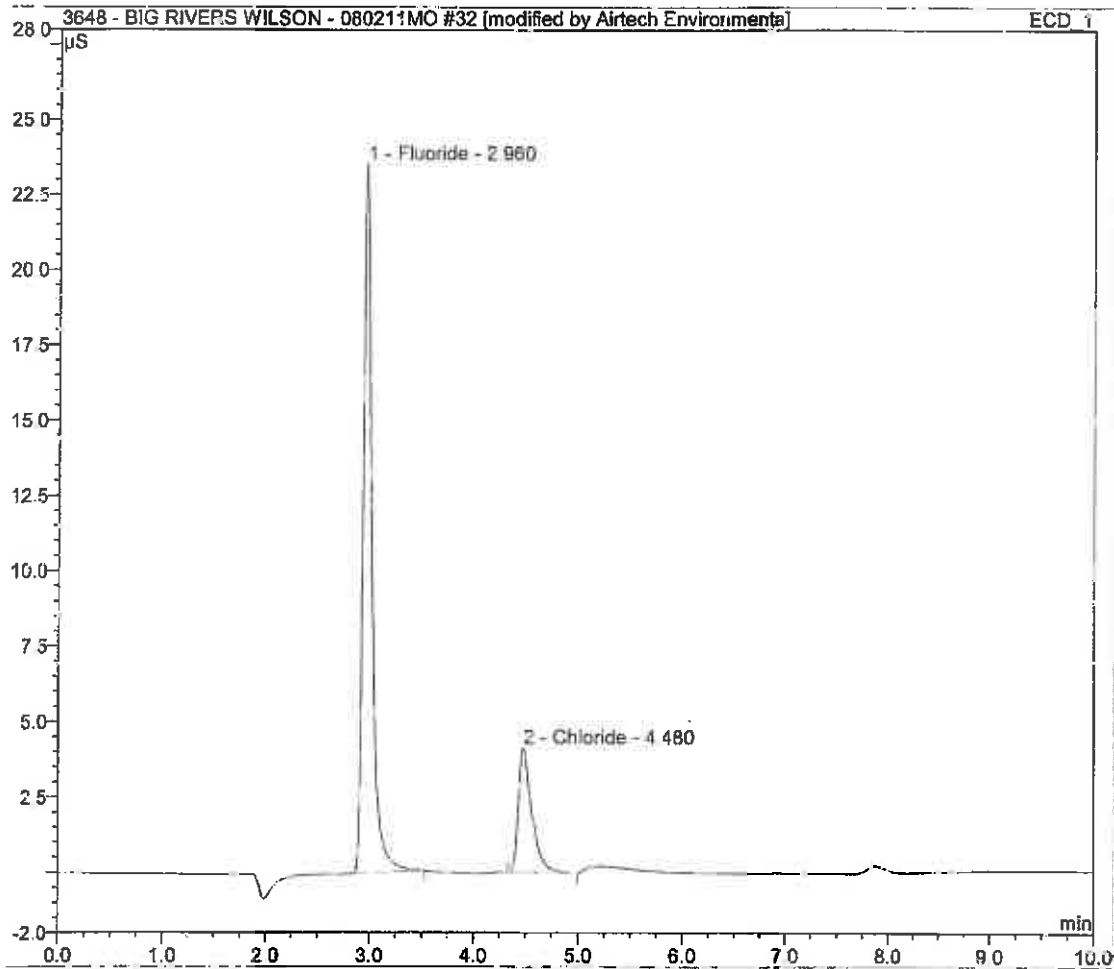
Sample Name:	ESP Exhaust 3 - Run 2 50:50 Dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 11:54	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	2.288	23.450	2.2963
2	4.48	Chloride	BMB*	0.618	4.157	0.8793
TOTAL:				2.91	27.61	3.18



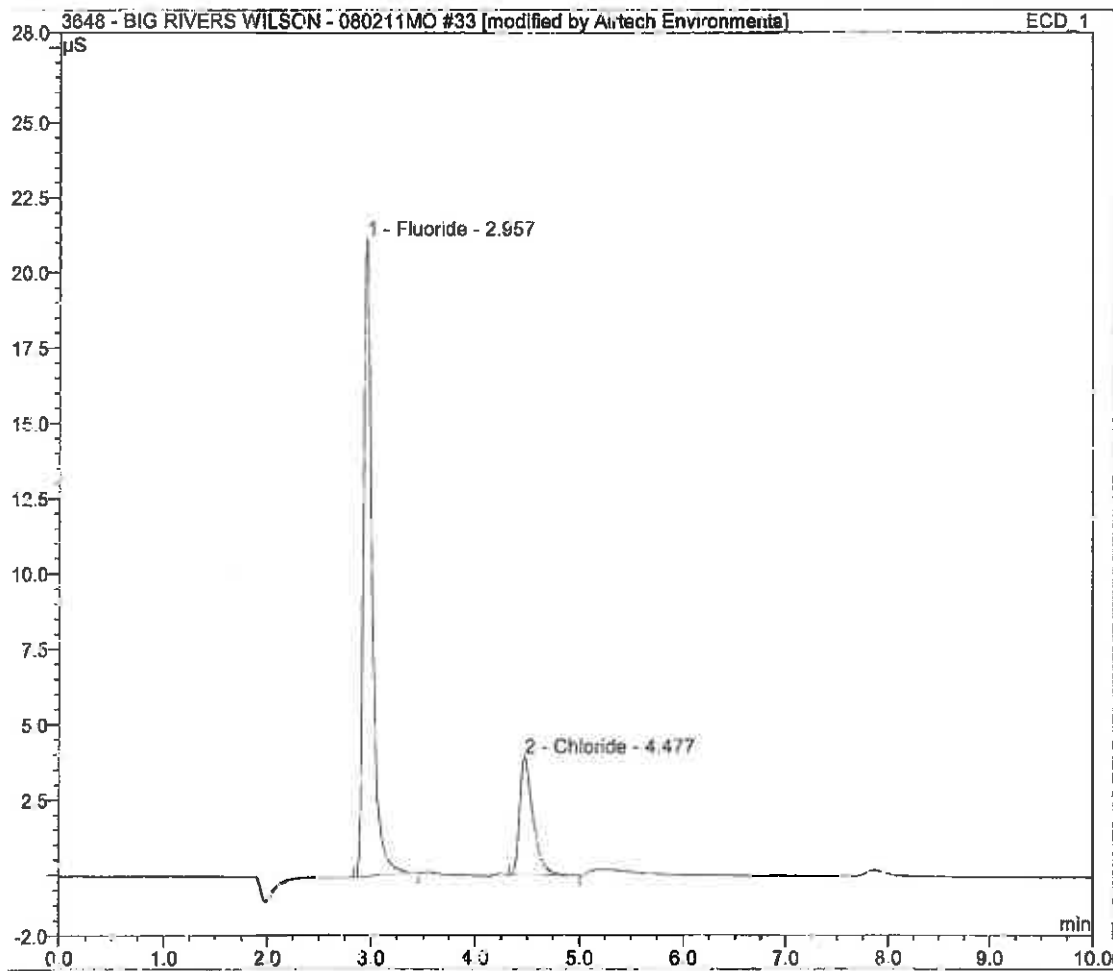
Sample Name:	ESP Exhaust 3 - Run 2 50:50 Dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 13:17	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	2.305	23.576	2.3126
2	4.48	Chloride	BMB*	0.617	4.152	0.8780
TOTAL:				2.92	27.73	3.19



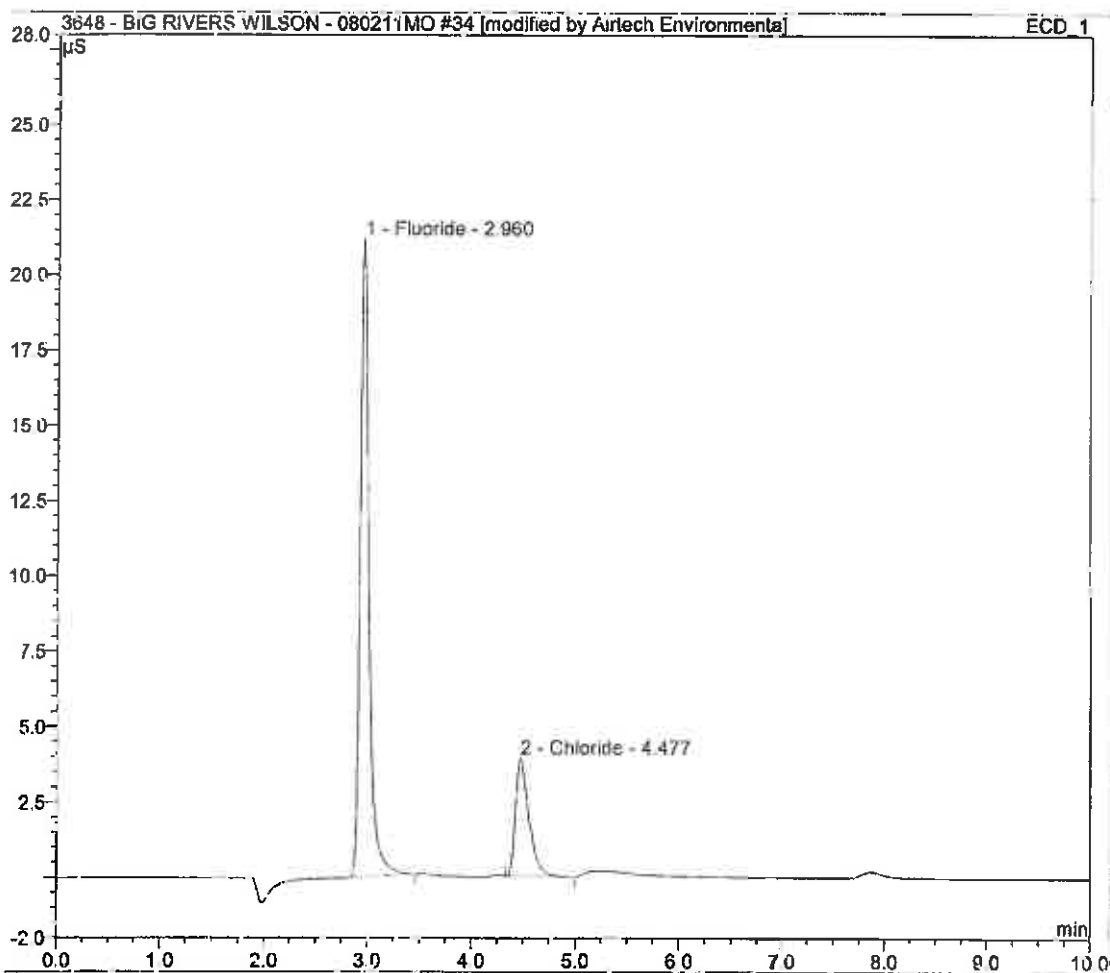
Sample Name:	ESP Exhaust 3 - Run 3 50:50 Dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 13:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	2.050	21.167	2.0574
2	4.48	Chloride	BMB	0.583	3.921	0.8295
TOTAL:				2.63	25.09	2.89



Sample Name:	ESP Exhaust 3 - Run 3 50:50 Dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 13:50	Run Time:	15.00

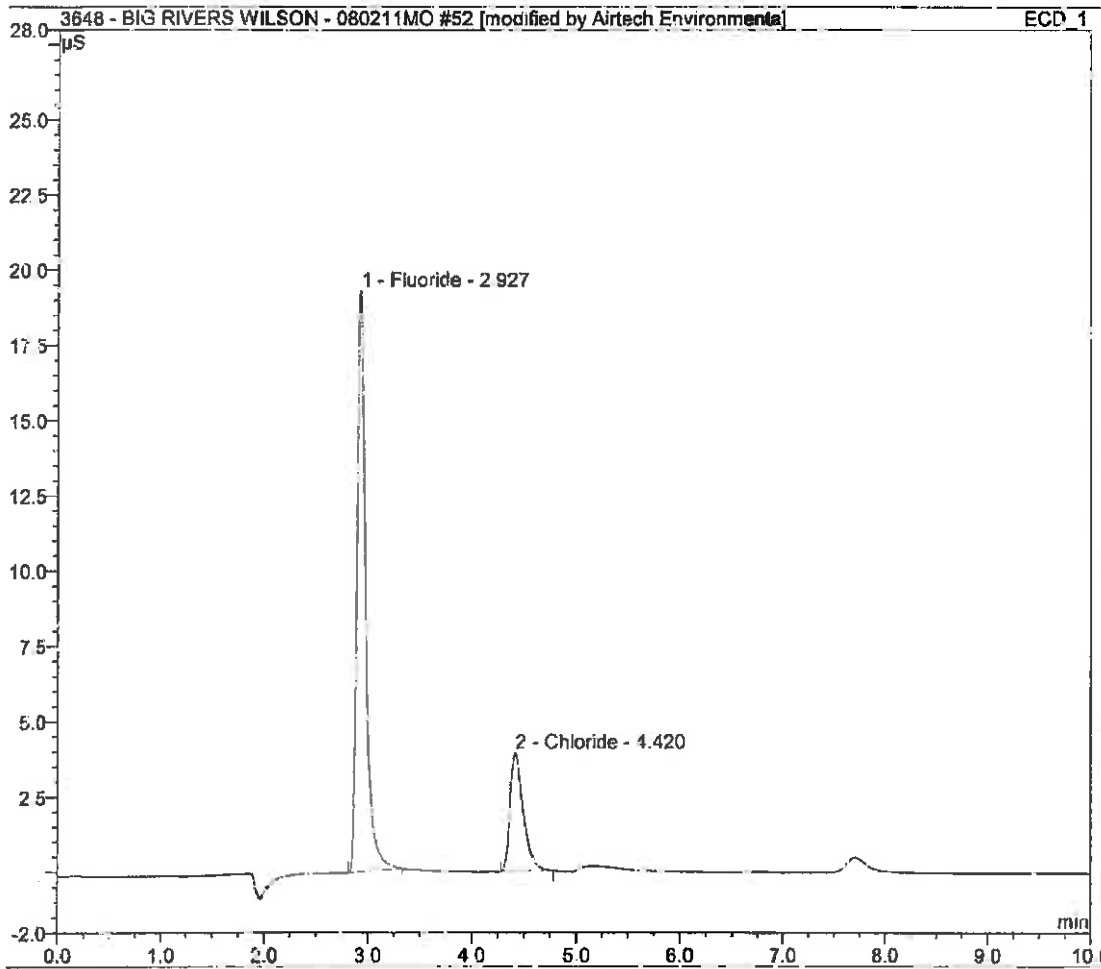
No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g}/\text{ml}$
1	2.96	Fluoride	BMB*	2.057	21.201	2.0640
2	4.48	Chloride	BMB	0.583	3.923	0.8299
TOTAL				2.64	25.12	2.89





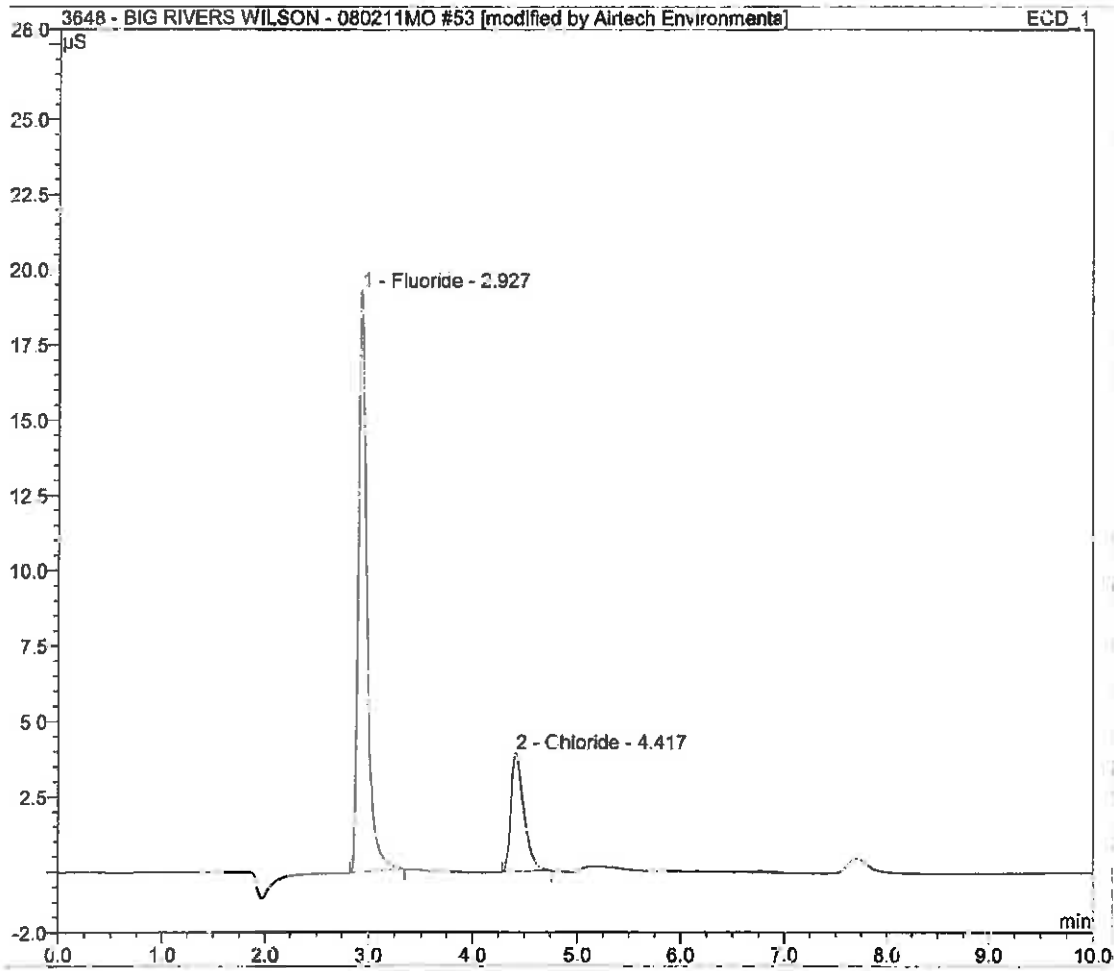
Sample Name:	ESP 4 Outlet - Run 1 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 13:47	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB*	1.841	19.290	1.8468
2	4.42	Chloride	BMB*	0.569	3.946	0.8093
TOTAL:				2.41	23.24	2.66



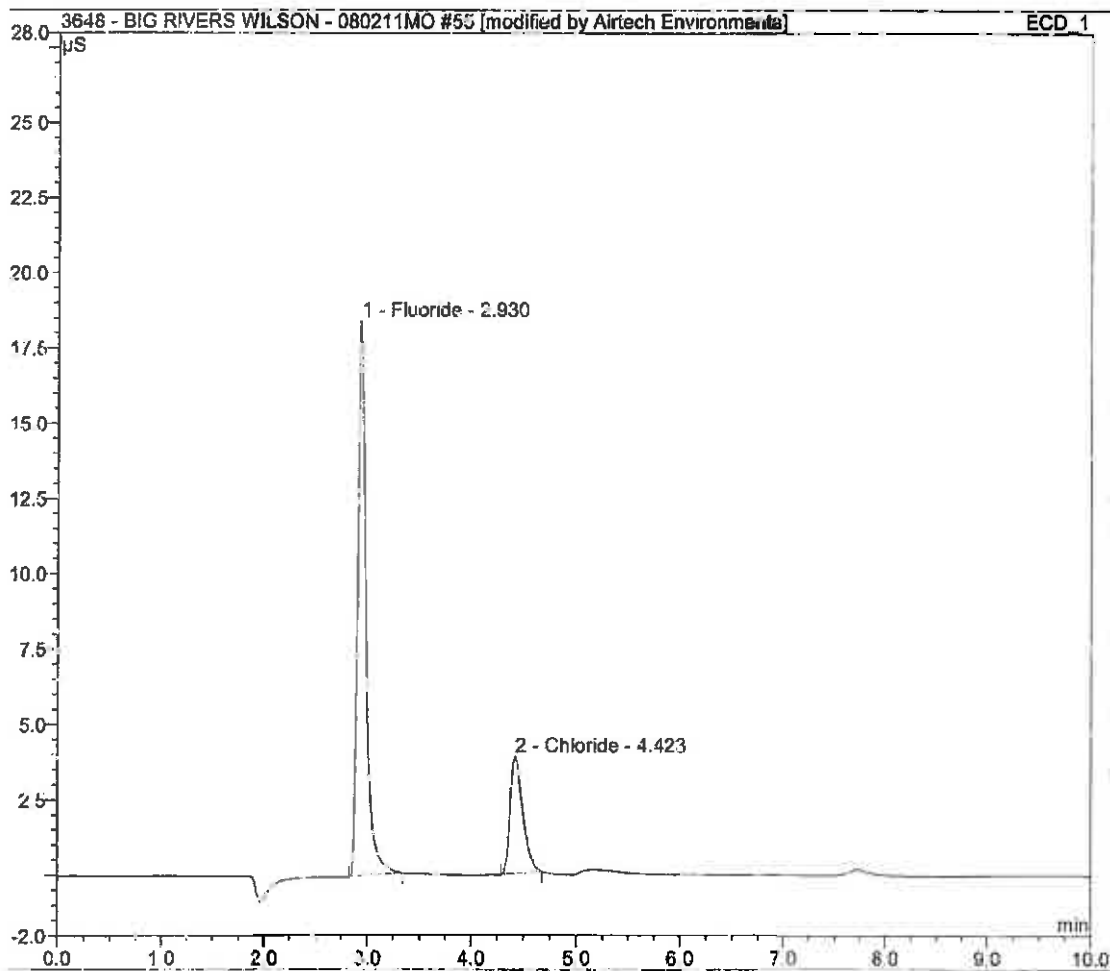
Sample Name:	ESP 4 Outlet - Run 1 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 14:07	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB*	1.846	19.277	1.8518
2	4.42	Chloride	BMB*	0.566	3.934	0.8049
TOTAL:				2.41	23.21	2.66



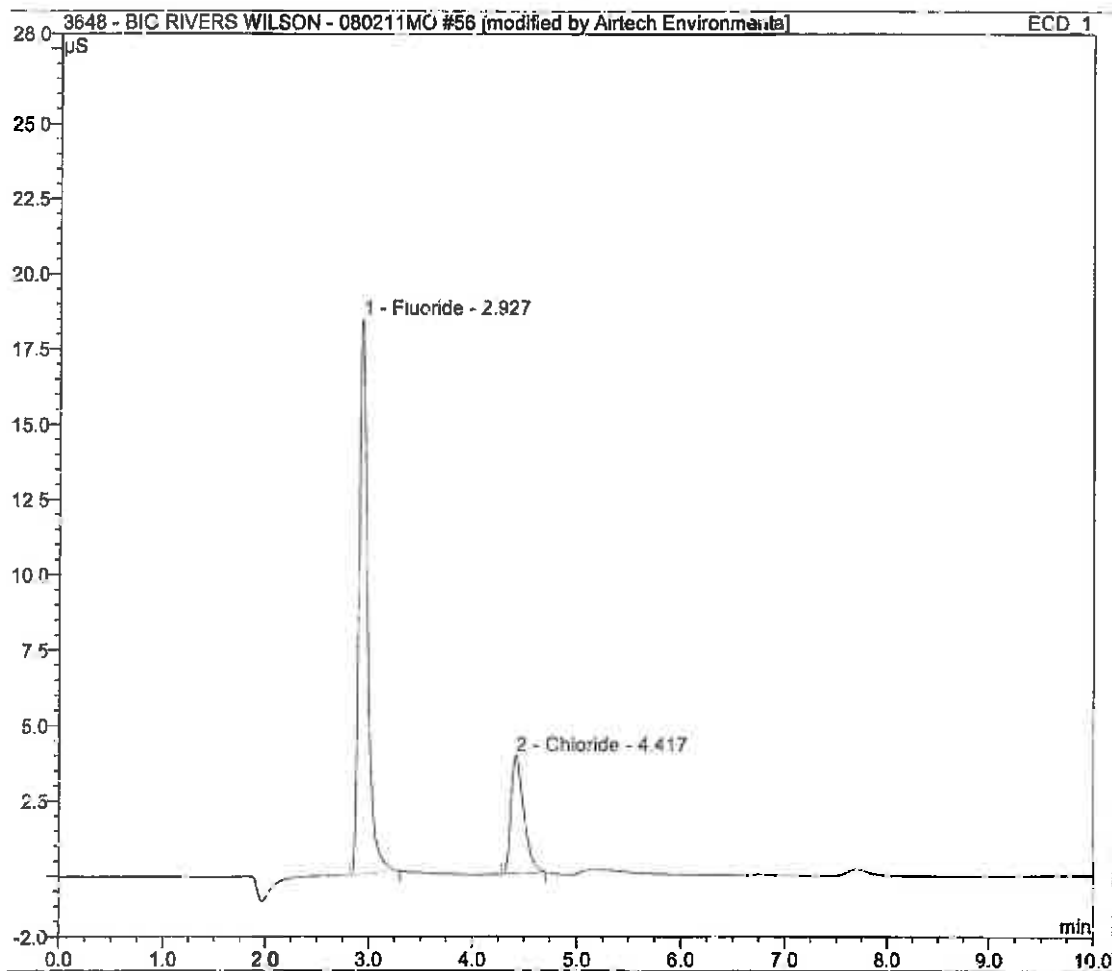
Sample Name:	ESP 4 Outlet - Run 2 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 14:43	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB*	1758	18.431	1.7642
2	4.42	Chloride	BMB*	0.545	3.908	0.7752
TOTAL:				2.30	22.34	2.54



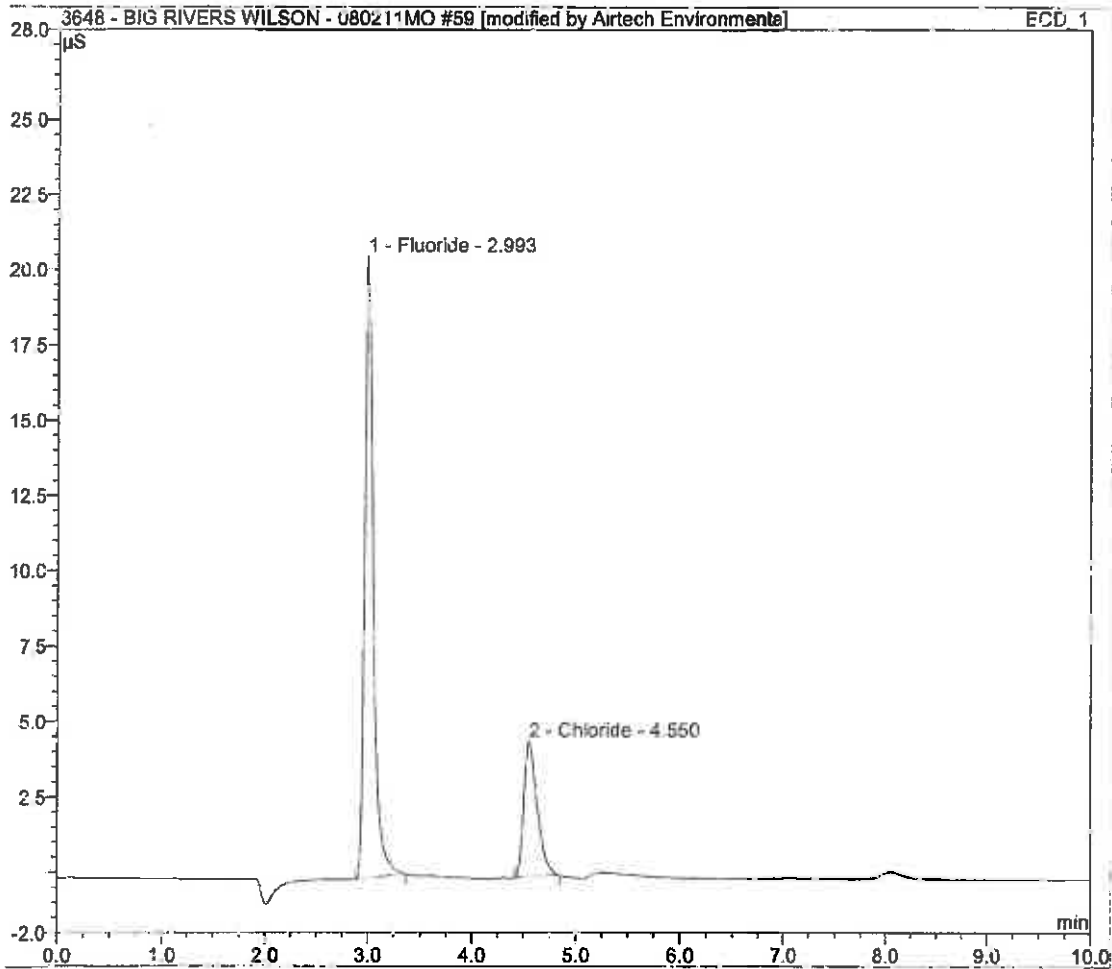
Sample Name:	ESP 4 Outlet - Run 2 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 15:20	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB*	1.753	18.466	1.7586
2	4.42	Chloride	BMB*	0.554	3.939	0.7884
TOTAL:				2.31	22.41	2.55



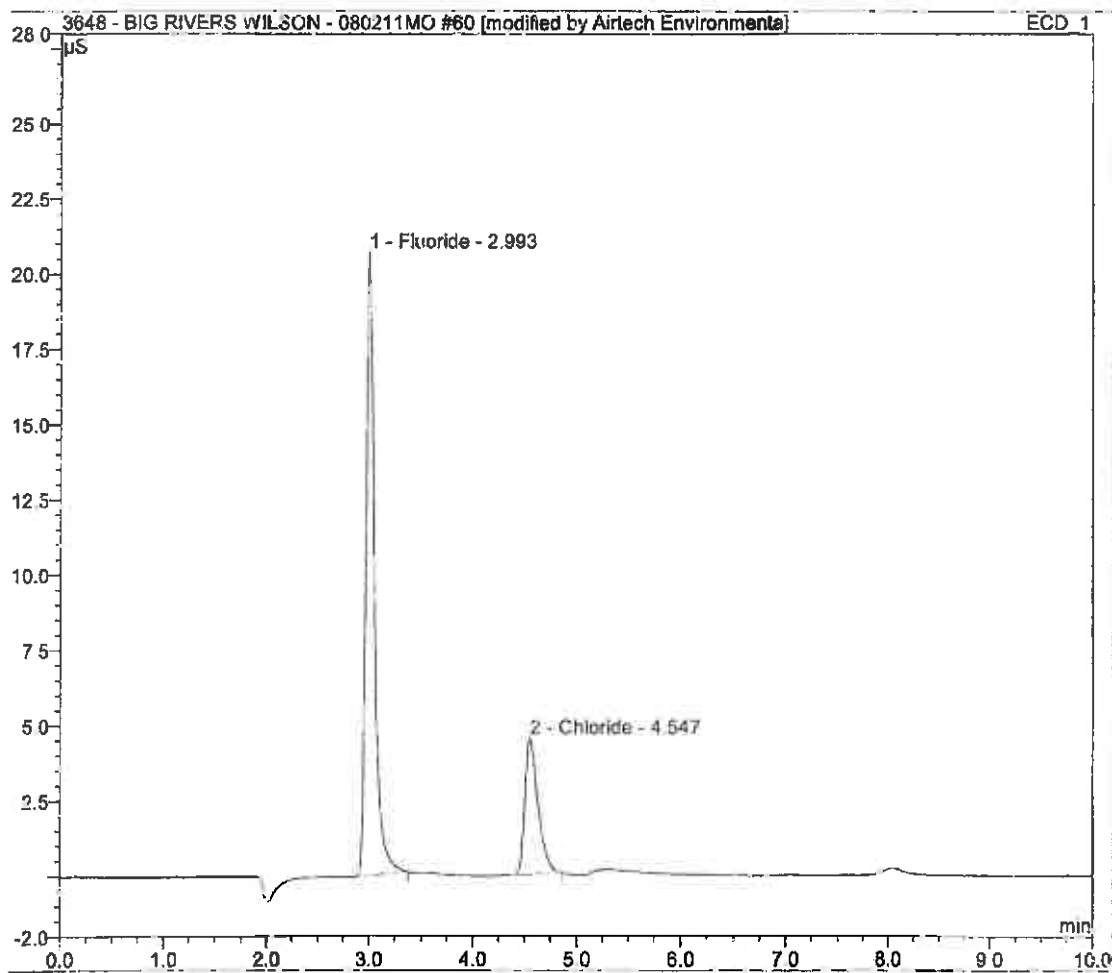
Sample Name:	ESP 4 Outlet - Run 3 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 10:52	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	1.989	20.666	1.9954
2	4.55	Chloride	BMB*	0.667	4.524	0.9492
TOTAL:				2.66	25.19	2.94



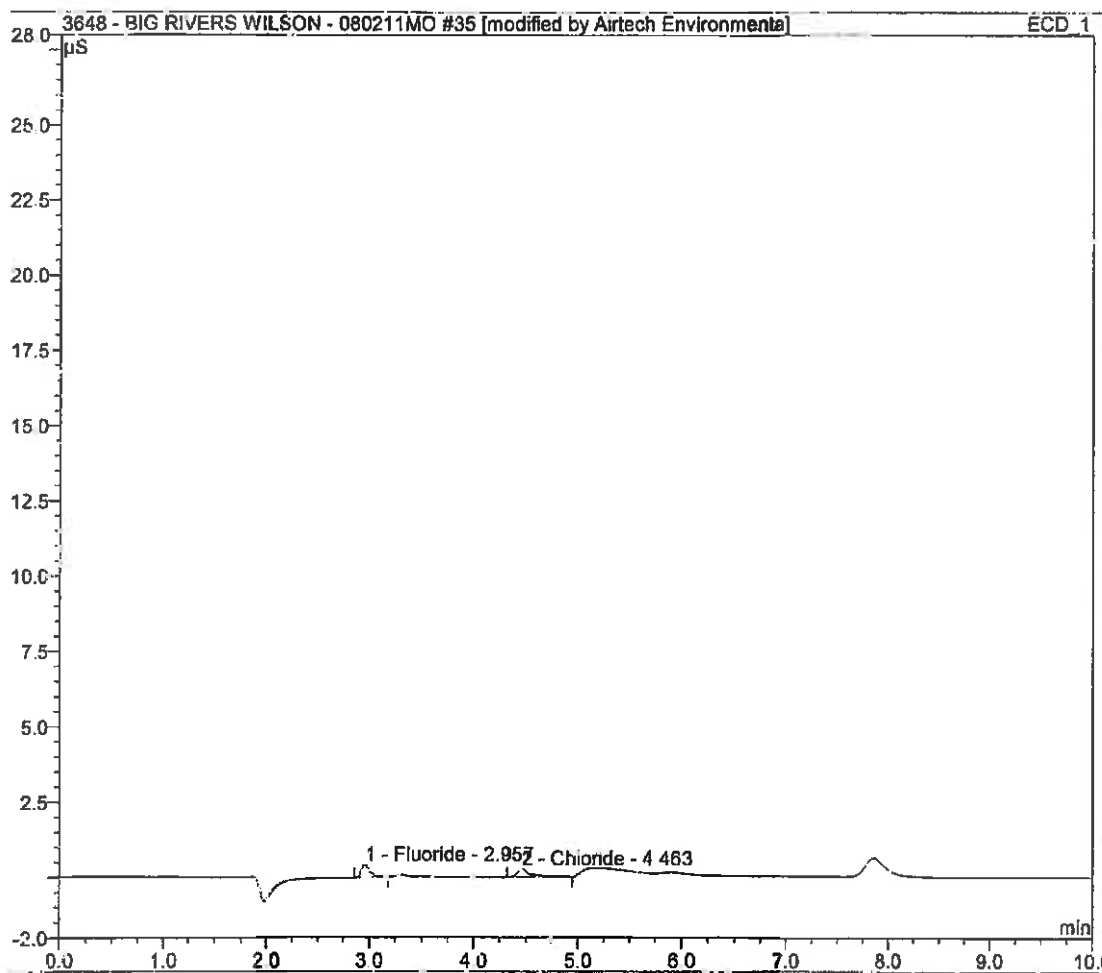
Sample Name:	ESP 4 Outlet - Run 3 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 11:10	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	1.399	20.722	2.0062
2	4.55	Chloride	BMB*	0.672	4.545	0.9568
TOTAL:				2.071	25.267	2.963



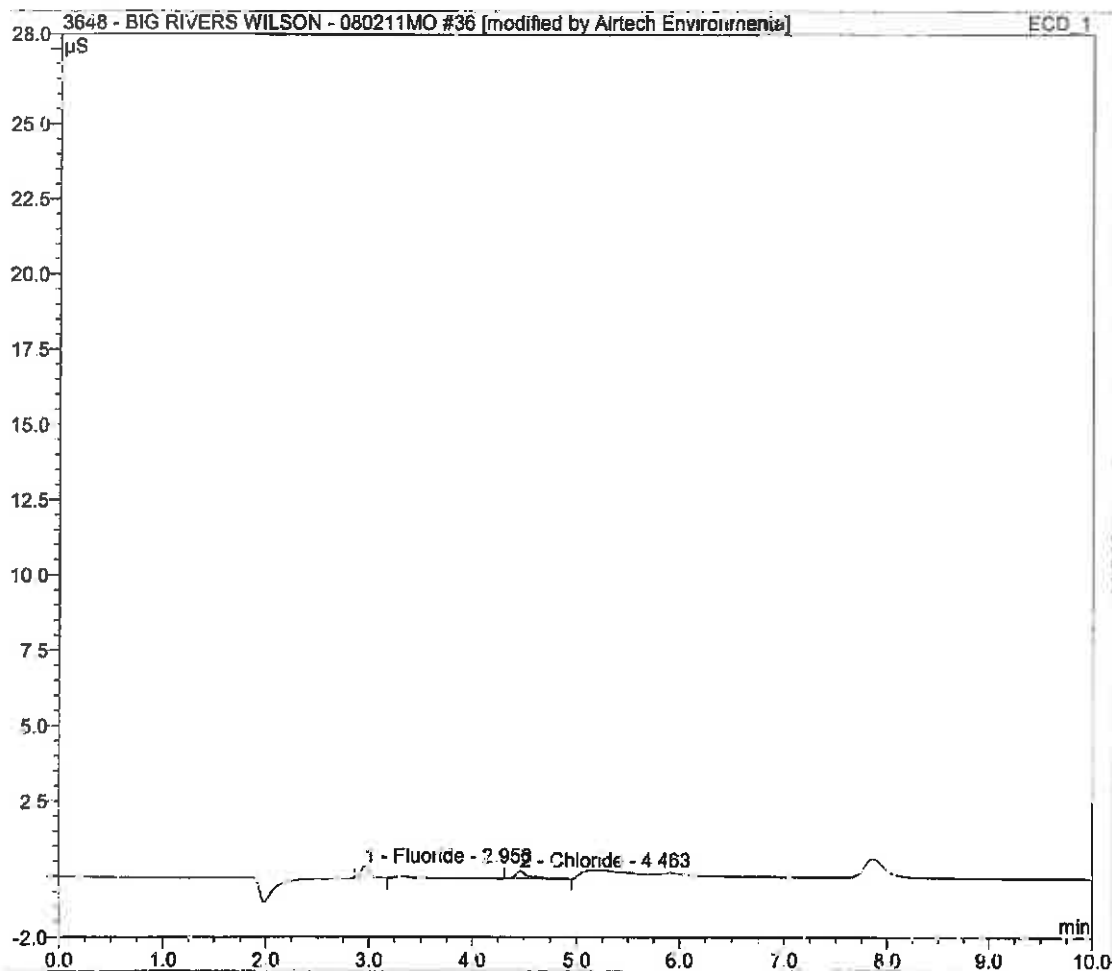
Sample Name:	Stack - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 14:43	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB	0.040	0.409	0.0404
2	4.46	Chloride	BMB	0.039	0.262	0.0557
TOTAL:				0.08	0.67	0.10



Sample Name:	Stack - Run 1	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 15:00	Run Time:	15.00

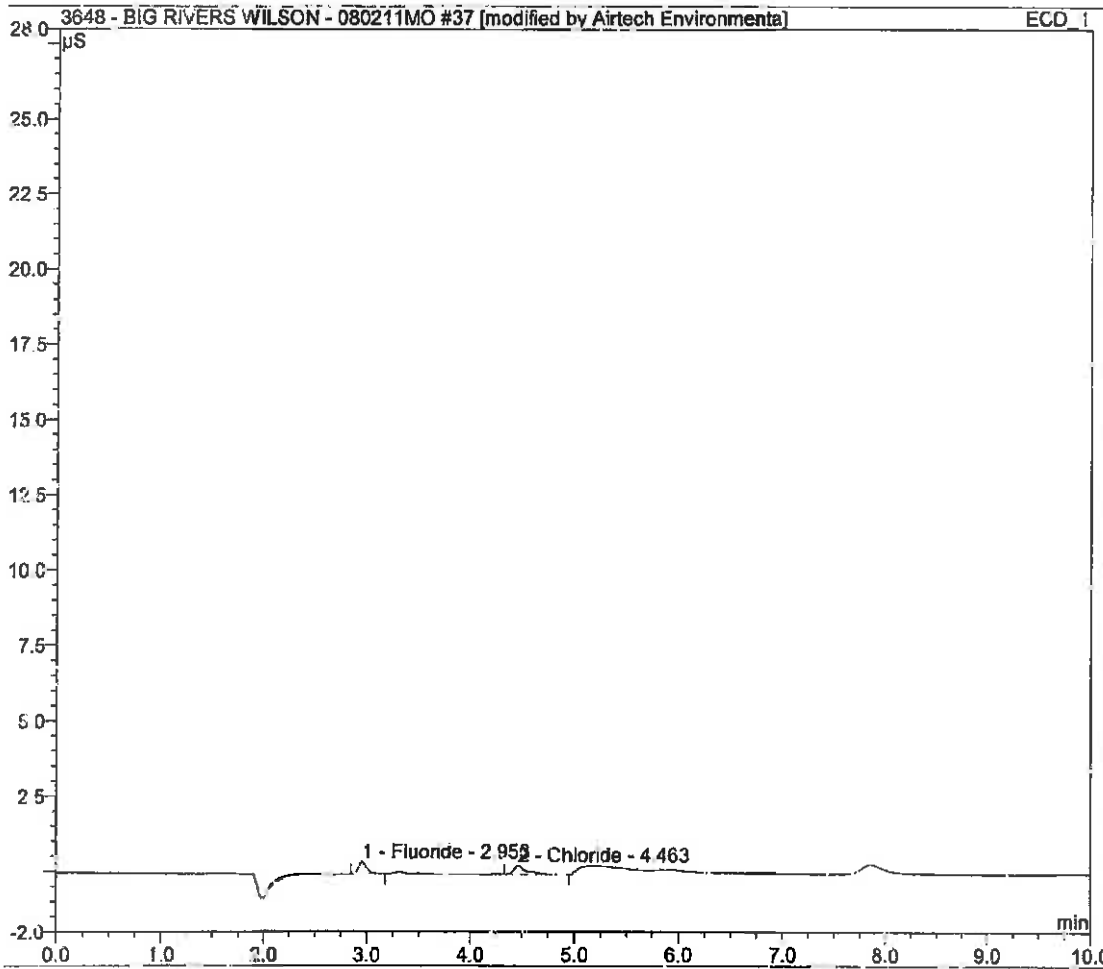
No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB	0.039	0.398	0.0388
2	4.46	Chloride	BMB	0.039	0.262	0.0555
TOTAL:				0.08	0.66	0.09





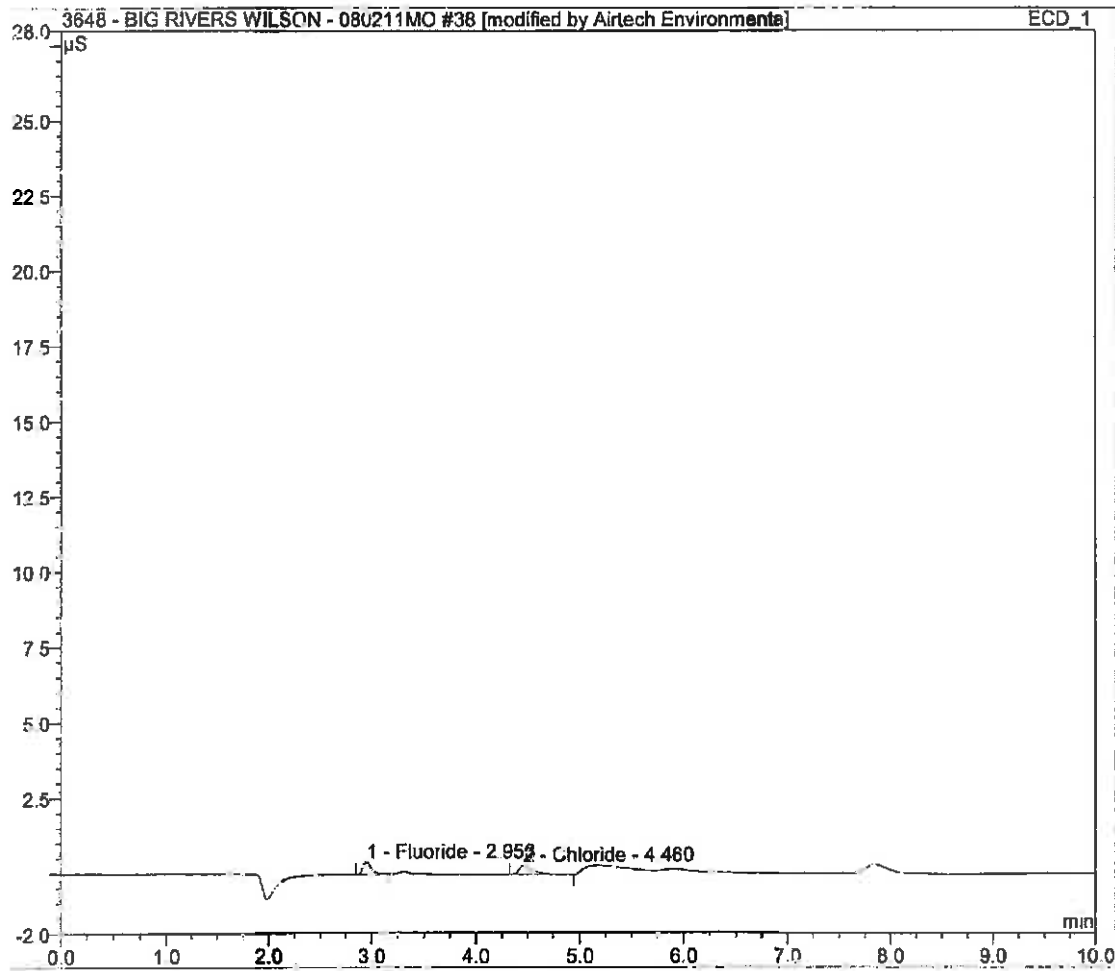
Sample Name:	Stack - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 15:16	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB	0.039	0.402	0.0391
2	4.46	Chloride	BMB	0.044	0.292	0.0626
TOTAL:				0.08	0.69	0.10



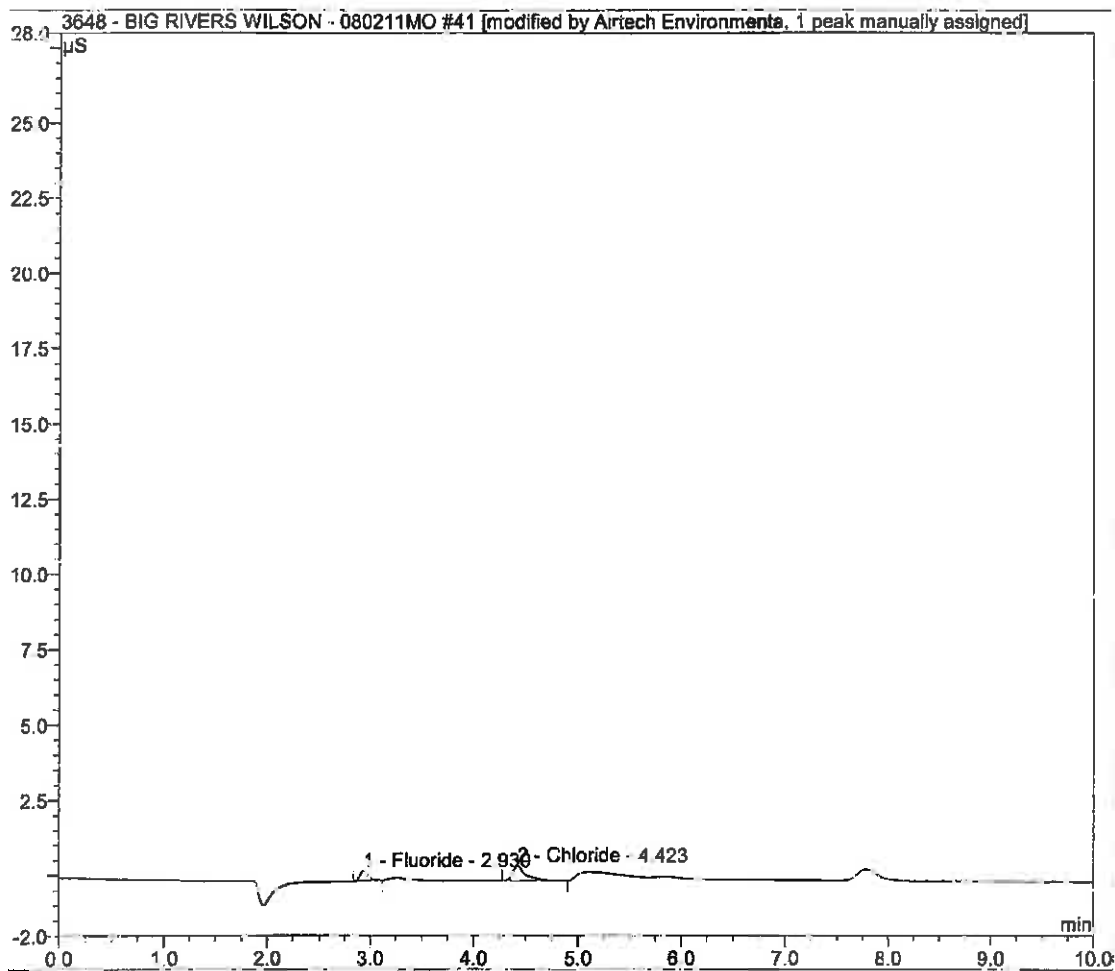
Sample Name:	Stack - Run 2	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	04.08.11 15:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB	0.039	0.403	0.0388
2	4.46	Chloride	BMB	0.043	0.291	0.0616
TOTAL:				0.08	0.69	0.10



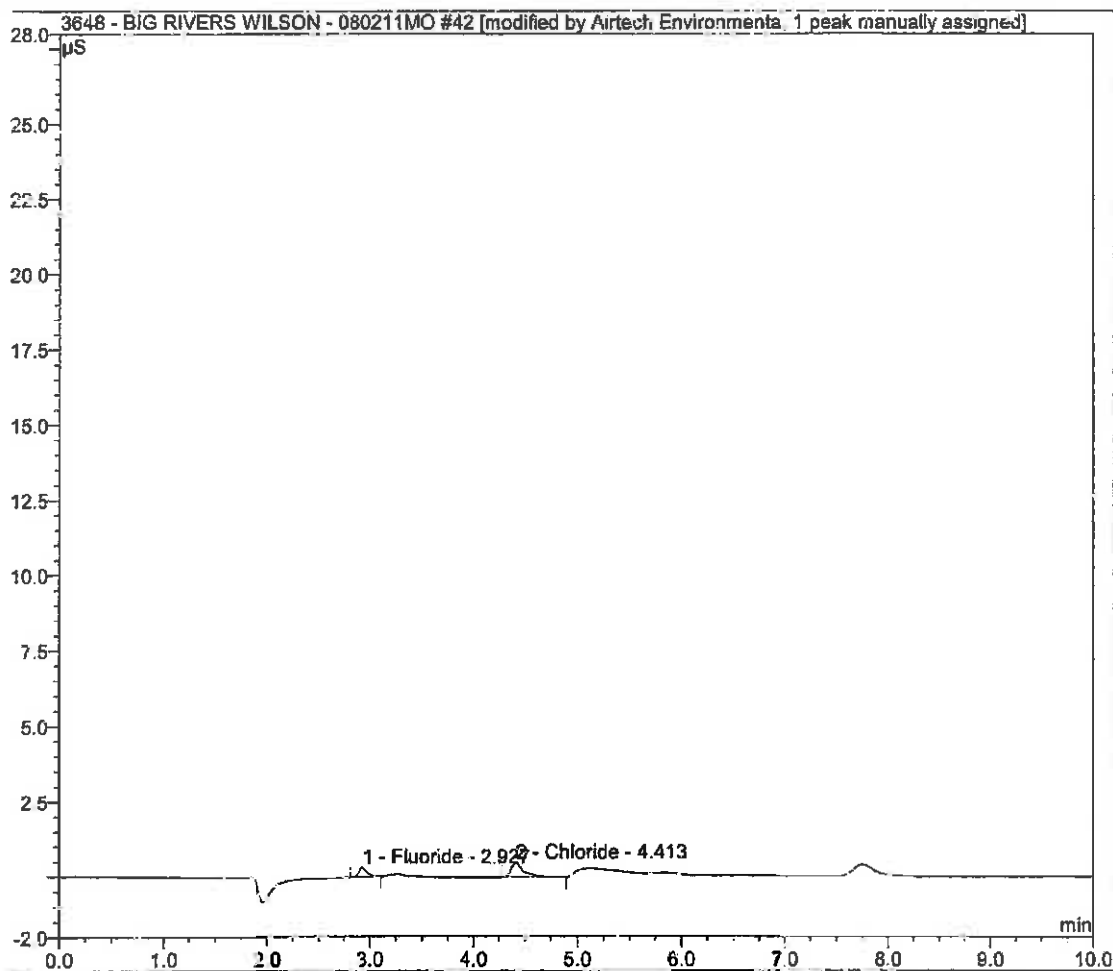
Sample Name:	Stack - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 09:44	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB*^	0.033	0.325	0.0327
2	4.42	Chloride	BMB*	0.072	0.489	0.1021
TOTAL:				0.10	0.81	0.13



Sample Name:	Stack - Run 3	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 10:00	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height $\mu\text{S}$	Amount $\mu\text{g}/\text{ml}$
1	2.93	Fluoride	BMB*^	0.031	0.316	0.0316
2	4.41	Chloride	BMB*	0.071	0.488	0.1017
TOTAL:				0.10	0.80	0.13



3648 Fig Rivers Wilson

		Vol (ml)
ESP Exhaust	Run 1	518
"	" 2	532
"	" 3	530
"	2	552
"	2	491
"	3	516
"	3	473
"	2	443
"	3	483
Stack	Run 1	497
"	2	549
"	3	550
ESP 4 Outlet	Run 1	489
"	2	528
"	3	458
Reagent Blank		488

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## *Chain of Custody*

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**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  
17071



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

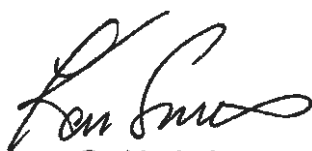
The following data for Analytical Report 17071  
has been reviewed for completeness, accuracy,  
adherence to method protocol,  
and compliance with quality assurance guidelines.

Review by:



Daphne Woodman, Chemist  
August 9, 2011

Report Reviewed and Finalized By:



Ken Smith, Laboratory Director  
August 9, 2011

# SUMMARY OF RESULTS

## Summary of Analysis

### ESP 1 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 1-R1 e17071-1 FH Total µg	ESP 1-R2 e17071-2 FH Total µg	ESP 1-R2 e17071-2 FH dup Total µg	ESP 1-R3 e17071-3 FH Total µg
Antimony	5.27	0.749	0.745	1.22
Arsenic	11.1	11.2	10.9	10.2
Beryllium	0.124	0.134	0.134	0.238
Cadmium	0.294	0.221	0.216	0.677
Chromium	13.3	4.24	4.26	14.3
Cobalt	0.738	0.437	0.441	1.13
Lead	4.25	3.31	3.31	4.00
Manganese	11.4	4.04	4.06	200
Nickel	41.2	9.90	9.91	14.6
Selenium	89.3	103	105	142

Element	ESP 1-R4 e17071-4 FH Total µg	ESP 1-R5 e17071-5 FH Total µg	ESP 1-R6 e17071-6 FH Total µg
Antimony	0.685	1.24	1.64
Arsenic	15.3	4.99	7.07
Beryllium	0.127	0.198	0.285
Cadmium	0.175	1.96	1.16
Chromium	6.32	21.2	24.5
Cobalt	0.557	1.16	1.14
Lead	3.01	5.65	5.00
Manganese	11.0	30.2	61.3
Nickel	8.72	11.1	12.9
Selenium	86.5	8.15	21.2

## Summary of Analysis

### ESP 1 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 1-R1 e17071-1 BH Total µg	ESP 1-R2 e17071-2 BH Total µg	ESP 1-R2 e17071-2 BH dup Total µg	ESP 1-R3 e17071-3 BH Total µg
Antimony	0.242	0.218	0.243	0.261
Arsenic*	2.37	2.01	2.12	2.41
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	3.12	10.8	9.91	4.23
Cobalt	0.770	0.390	0.448	0.121
Lead	1.08	0.831	0.943	0.450
Manganese	4.57	10.0	9.12	6.50
Nickel	2.59	4.69	5.24	2.22
Selenium*	31.1	30.5	31.5	35.3

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 1-R4 e17071-4 BH Total µg	ESP 1-R5 e17071-5 BH Total µg	ESP 1-R6 e17071-6 BH Total µg
Antimony	1.42	0.226	0.376
Arsenic*	3.91	3.64	0.353
Beryllium	< 0.025	0.040	< 0.025
Cadmium	0.194	0.135	0.223
Chromium	1.93	8.67	1.46
Cobalt	0.204	0.767	< 0.1
Lead	0.595	1.49	1.15
Manganese	3.06	99.8	2.02
Nickel	2.51	11.5	3.43
Selenium*	88.3	19.1	2.31

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.



## Summary of Analysis

### ESP 2 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 2-R1 e17071-7 FH Total µg	ESP 2-R2 e17071-8 FH Total µg	ESP 2-R2 e17071-8 FH dup Total µg	ESP 2-R3 e17071-9 FH Total µg
Antimony	0.477	1.90	1.82	2.09
Arsenic	2.18	2.59	2.70	0.870
Beryllium	< 0.025	0.027	0.029	< 0.025
Cadmium	0.167	0.441	0.467	< 0.1
Chromium	11.4	11.7	11.4	2.36
Cobalt	0.300	0.753	0.797	< 0.1
Lead	1.25	2.69	2.60	0.513
Manganese	19.1	225	219	2.89
Nickel	9.77	16.0	17.0	1.50
Selenium	9.02	7.52	7.84	3.34

Element	ESP 2-R4 e17071-10 FH Total µg	ESP 2-R5 e17071-11 FH Total µg	ESP 2-R6 e17071-12 FH Total µg
Antimony	0.611	1.21	3.26
Arsenic	7.99	7.67	9.43
Beryllium	0.036	0.105	0.070
Cadmium	0.320	0.905	0.623
Chromium	7.25	28.3	25.4
Cobalt	0.404	1.09	0.966
Lead	4.26	4.22	2.51
Manganese	5.09	32.7	12.3
Nickel	8.22	8.57	15.2
Selenium	30.6	33.0	44.3

## Summary of Analysis

### ESP 2 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 2-R1 e17071-7 BH	ESP 2-R2 e17071-8 BH	ESP 2-R2 e17071-8 BH dup	ESP 2-R3 e17071-9 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.151	0.329	0.332	0.205
Arsenic*	1.16	1.85	2.11	2.35
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.203	0.196	< 0.1
Chromium	4.20	2.34	2.34	2.56
Cobalt	0.133	0.116	0.138	0.117
Lead	0.537	0.725	0.720	0.909
Manganese	2.46	3.81	3.85	2.28
Nickel	2.79	1.66	1.61	1.82
Selenium*	14.9	25.8	26.9	30.8

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 2-R4 e17071-10 BH	ESP 2-R5 e17071-11 BH	ESP 2-R6 e17071-12 BH
	Total µg	Total µg	Total µg
Antimony	0.573	0.802	0.451
Arsenic*	0.953	2.56	2.17
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	0.516	0.419	0.103
Chromium	1.51	2.33	1.48
Cobalt	0.121	0.124	< 0.1
Lead	0.698	0.570	0.421
Manganese	2.49	5.47	2.64
Nickel	2.85	3.86	1.69
Selenium*	11.5	45.5	30.9

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

## Summary of Analysis

### ESP 3 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 3-R1 e17071-13 FH Total µg	ESP 3-R2 e17071-14 FH Total µg	ESP 3-R2 e17071-14 FH dup Total µg	ESP 3-R3 e17071-15 FH Total µg
Antimony	1.85	0.761	0.758	1.05
Arsenic	7.65	5.68	5.67	7.77
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.290	0.515	0.510	0.751
Chromium	42.6	41.6	43.4	29.0
Cobalt	1.11	0.553	0.558	0.612
Lead	8.46	7.20	7.21	3.32
Manganese	8.15	21.8	23.0	33.4
Nickel	27.9	22.3	22.5	22.1
Selenium	119	69.3	72.8	106

Element	ESP 3-R4 e17071-16 FH Total µg	ESP 3-R5 e17071-17 FH Total µg	ESP 3-R6 e17071-18 FH Total µg
Antimony	2.33	3.75	1.64
Arsenic	16.7	10.5	13.2
Beryllium	0.064	0.066	0.075
Cadmium	0.927	0.595	0.683
Chromium	60.9	20.0	21.2
Cobalt	1.64	0.679	0.625
Lead	5.87	4.30	4.08
Manganese	31.5	30.0	9.20
Nickel	55.8	8.85	10.3
Selenium	86.9	40.7	114

## Summary of Analysis

### ESP 3 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 3-R1	ESP 3-R2	ESP 3-R2	ESP 3-R3
	e17071-13 BH	e17071-14 BH	e17071-14 BH dup	e17071-15 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.963	0.549	0.572	0.323
Arsenic*	2.97	7.08	6.42	3.81
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.165	0.156	< 0.1
Chromium	5.14	5.60	5.67	6.46
Cobalt	0.114	0.229	0.233	0.117
Lead	1.15	0.623	0.619	0.156
Manganese	4.60	4.23	4.28	5.48
Nickel	2.04	1.68	1.72	1.84
Selenium*	31.9	106	100	49.9

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 3-R4	ESP 3-R5	ESP 3-R6
	e17071-16 BH	e17071-17 BH	e17071-18 BH
	Total µg	Total µg	Total µg
Antimony	< 0.1	< 0.1	0.126
Arsenic*	4.06	8.54	10.2
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	0.180	< 0.1	< 0.1
Chromium	3.03	1.69	1.92
Cobalt	0.163	0.185	0.274
Lead	1.78	0.685	0.331
Manganese	2.56	4.21	3.86
Nickel	2.25	1.14	1.72
Selenium*	82.7	114	123

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

## Summary of Analysis

### ESP 4 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 4-R1	ESP 4-R2	ESP 4-R2	ESP 4-R3
	e17071-19 FH Total µg	e17071-20 FH Total µg	e17071-20 FH dup Total µg	e17071-21 FH Total µg
Antimony	0.934	1.50	1.52	9.64
Arsenic	3.57	2.15	2.20	1.99
Beryllium	0.078	< 0.025	< 0.025	< 0.025
Cadmium	0.383	0.299	0.307	0.215
Chromium	24.3	11.9	11.4	15.7
Cobalt	0.494	0.216	0.213	0.278
Lead	4.04	54.7	52.5	3.09
Manganese	12.7	5.89	5.64	5.70
Nickel	13.7	8.95	7.94	12.0
Selenium	10.9	11.3	11.0	10.4

Element	ESP 4-R4	ESP 4-R5	ESP 4-R6
	e17071-22 FH Total µg	e17071-23 FH Total µg	e17071-24 FH Total µg
Antimony	0.496	0.856	0.782
Arsenic	4.23	11.9	10.5
Beryllium	0.037	0.120	0.126
Cadmium	0.190	0.356	0.850
Chromium	19.1	21.6	22.3
Cobalt	0.379	0.973	1.21
Lead	2.88	6.80	5.40
Manganese	23.8	30.5	66.5
Nickel	15.4	19.3	9.20
Selenium	5.15	8.09	11.3

## Summary of Analysis

### ESP 4 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 4-R1	ESP 4-R2	ESP 4-R2	ESP 4-R3
	e17071-19 BH Total µg	e17071-20 BH Total µg	e17071-20 BH dup Total µg	e17071-21 BH Total µg
Antimony	0.493	0.123	0.129	0.205
Arsenic*	1.43	3.03	3.09	4.23
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.279	0.555	0.569	0.349
Chromium	2.62	1.67	1.55	1.92
Cobalt	0.247	< 0.1	< 0.1	< 0.1
Lead	0.667	0.612	0.643	0.685
Manganese	2.89	3.18	3.06	3.25
Nickel	2.23	0.919	0.966	1.66
Selenium*	14.2	49.3	51.4	64.0

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 4-R4	ESP 4-R5	ESP 4-R6
	e17071-22 BH Total µg	e17071-23 BH Total µg	e17071-24 BH Total µg
Antimony	< 0.1	0.337	< 0.1
Arsenic*	8.14	12.7	47.8
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.122	< 0.1
Chromium	3.21	3.05	2.52
Cobalt	0.115	0.175	0.124
Lead	0.380	0.776	0.395
Manganese	2.42	4.41	3.20
Nickel	2.29	2.29	1.96
Selenium*	72.7	153	211

\*Arsenic and selenium were analyzed on an H<sub>2</sub>SO<sub>4</sub> matrix curve to reduce matrix interference from high sulfates in samples.

## Summary of Analysis

### Stack - Front Half - Summary of Method 29 Metals Analysis

Element	Stack-R1	Stack-R2	Stack-R2	Stack-R3
	e17071-25 FH Total µg	e17071-26 FH Total µg	e17071-26 FH dup Total µg	e17071-27 FH Total µg
Antimony	1.35	5.30	4.75	0.224
Arsenic	4.44	3.35	2.91	2.88
Beryllium	0.065	0.030	0.028	< 0.025
Cadmium	1.00	0.369	0.325	0.175
Chromium	19.3	39.7	35.3	6.96
Cobalt	1.21	9.56	8.46	0.425
Lead	4.46	2.84	2.51	0.909
Manganese	47.1	35.2	30.9	5.87
Nickel	90.4	298	264	14.2
Selenium	47.3	40.8	36.9	32.3

Element	Stack-R4	Stack-R5	Stack-R6	Reagent Blank
	e17071-28 FH Total µg	e17071-29 FH Total µg	e17071-30 FH Total µg	e17071-31 FH Total µg
Antimony	0.860	0.247	0.576	1.13
Arsenic	4.58	3.61	5.26	< 0.1
Beryllium	0.026	0.025	< 0.025	< 0.025
Cadmium	0.192	0.294	0.611	< 0.1
Chromium	8.35	8.85	7.70	0.341
Cobalt	0.356	0.318	0.278	< 0.1
Lead	44.7	5.74	0.960	0.144
Manganese	4.62	6.69	4.37	0.714
Nickel	5.72	5.77	6.34	0.136
Selenium	15.5	13.6	26.9	< 0.1

## Summary of Analysis

### Stack - Back Half - Summary of Method 29 Metals Analysis

Element	Stack-R1 e17071-25 BH Total µg	Stack-R2 e17071-26 BH Total µg	Stack-R2 e17071-26 BH dup Total µg	Stack-R3 e17071-27 BH Total µg
Antimony	0.111	0.119	0.114	0.107
Arsenic	1.01	0.827	0.848	0.741
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.429	1.67	1.65	0.250
Chromium	3.25	2.39	2.17	1.54
Cobalt	0.132	< 0.1	< 0.1	< 0.1
Lead	0.895	1.21	1.20	0.735
Manganese	5.23	6.35	6.26	2.32
Nickel	2.35	1.86	1.80	1.77
Selenium	21.6	16.9	17.0	19.3

Element	Stack-R4 e17071-28 BH Total µg	Stack-R5 e17071-29 BH Total µg	Stack-R6 e17071-30 BH Total µg	Reagent Blank e17071-31 BH Total µg
Antimony	0.100	0.128	0.143	< 0.1
Arsenic	1.26	5.21	2.27	< 0.1
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	1.20	0.110	0.386	< 0.1
Chromium	3.29	3.06	5.46	2.71
Cobalt	0.186	0.125	0.104	< 0.1
Lead	1.43	1.11	0.912	0.287
Manganese	4.95	11.0	4.43	3.37
Nickel	4.66	4.75	5.00	1.52
Selenium	25.9	67.8	60.9	< 0.1



# ANALYTICAL NARRATIVE

## Element One Analytical Narrative

Client:	Airtech Environmental Services, Inc.	Element One #:	17071
Client ID:	3648/Big Rivers Energy-Wilson Station	Analyst:	DBW
Method:	Method 29	Dates Received	07/26/11
Analytes:	Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, & Se	Dates Analyzed:	08/03-09/11

### 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.

#### The Back Half samples contained high concentrations of sulfates causing matrix interferences.

\*Ref page 5, 7, 9 and 11: It was necessary to analyze all of the back half fractions of ESP 1, ESP 2, ESP 3 and ESP 4 for arsenic and selenium using a H<sub>2</sub>SO<sub>4</sub> curve to reduce matrix interferences caused by the high sulfates in those samples.

\*Ref page 19: The arsenic spike recovery for the back half fraction of ESP 1-R3, ESP 2-R3 and ESP 3-R3 at a five-fold dilution, were outside of the ±25% laboratory guidelines with 131%, 131% and 136% recovery, respectively. Any further dilution would reduce the results to non-detect. The arsenic results for those samples may be biased high.

\*\*Ref page 19: The beryllium spike recovery for the back half fraction of sample Stack-R3 at a X1 dilution, was outside of the ±25% laboratory guidelines with 67% recovery. The sample was analyzed at a two-fold dilution resulting in a spike recovery of 88%, indicating matrix interference. The sample was non-detect, therefore this should have no significant impact on the results.

\*\*\*Ref page 19: The cadmium spike recovery for the back half fraction of ESP 1-R3, ESP 2-R3, ESP 3-R3 and ESP 4-R3 were outside of the ±25% laboratory guidelines with 54%, 57%, 64% and 67% recovery. The samples were analyzed at a ten-fold dilution resulting in spike recoveries of 84% for ESP 1-R3, 87% for ESP 2-R3, 87% for ESP 3-R3 and 86% for ESP 4-R3; indicating matrix interference. The samples were non-detect, therefore this should have no significant impact on the results.

All other QA/QC data was within the criteria of the method.

### Additional Comments

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

# QUALITY CONTROL SUMMARY

## Summary of Quality Control Data

### Front Half - Metals Duplicate Analysis RPD

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

Element	ESP 1-R2 RPD	ESP 2-R2 RPD	ESP 3-R2 RPD	ESP 4-R2 RPD	Stack-R2 RPD
Antimony	0.5%	4.2%	0.5%	1.3%	10.9%
Arsenic	3.2%	3.9%	0.1%	2.6%	14.2%
Beryllium	0.0%	6.3%	NA	NA	9.2%
Cadmium	2.7%	5.8%	0.9%	2.5%	12.5%
Chromium	0.6%	2.7%	4.3%	4.5%	11.6%
Cobalt	0.9%	5.6%	0.8%	1.4%	12.2%
Lead	0.1%	3.6%	0.2%	4.1%	12.3%
Manganese	0.7%	2.7%	5.2%	4.4%	12.8%
Nickel	0.2%	6.1%	0.9%	12.0%	12.0%
Selenium	1.9%	4.1%	5.0%	2.5%	10.0%

### Back Half - Metals Duplicate Analysis RPD

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

Element	ESP 1-R2 RPD	ESP 2-R2 RPD	ESP 3-R2 RPD	ESP 4-R2 RPD	Stack-R2 RPD
Antimony	10.8%	0.9%	4.1%	4.7%	3.9%
Arsenic	5.0%	13.1%	9.9%	2.2%	2.6%
Beryllium	NA	NA	NA	NA	NA
Cadmium	NA	3.1%	5.4%	2.6%	0.8%
Chromium	9.0%	0.1%	1.2%	7.5%	9.6%
Cobalt	13.8%	17.1%	2.1%	NA	NA
Lead	12.6%	0.7%	0.7%	4.9%	1.1%
Manganese	9.7%	1.0%	1.3%	4.0%	1.3%
Nickel	11.1%	2.7%	2.3%	5.0%	3.1%
Selenium	3.2%	4.3%	6.0%	4.3%	0.2%

## Summary of Quality Control Data

### Front Half - Metals Analysis Spike Recoveries

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

Element	ESP 1-R3 Recovery	ESP 2-R3 Recovery	ESP 3-R3 Recovery	ESP 4-R3 Recovery	Stack-R3 Recovery
Antimony	84%	106%	84%	94%	80%
Arsenic	84%	79%	76%	80%	79%
Beryllium	79%	83%	92%	94%	85%
Cadmium	78%	76%	81%	91%	83%
Chromium	80%	114%	116%	104%	102%
Cobalt	92%	100%	98%	104%	93%
Lead	94%	106%	102%	108%	101%
Manganese	111%	107%	111%	106%	106%
Nickel	86%	96%	87%	90%	89%
Selenium	95%	80%	102%	84%	93%

### Back Half - Metals Analysis Spike Recoveries

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

Element	ESP 1-R3 Recovery	ESP 2-R3 Recovery	ESP 3-R3 Recovery	ESP 4-R3 Recovery	Stack-R3 Recovery
Antimony	113%	116%	120%	104%	75%
Arsenic	*131%	*131%	*136%	101%	94%
Beryllium	92%	99%	118%	89%	**67%
Cadmium	***54%	***57%	***64%	***67%	93%
Chromium	117%	114%	110%	117%	100%
Cobalt	103%	100%	109%	102%	95%
Lead	78%	78%	81%	77%	88%
Manganese	120%	119%	114%	120%	95%
Nickel	110%	106%	120%	104%	92%
Selenium	121%	109%	105%	91%	111%

\*See Analytical Narrative, page 15.

\*\*See Analytical Narrative, page 15.

\*\*\*See Analytical Narrative, page 15.

## Summary of Quality Control Data

<b>Second Source Calibration Check Recoveries</b>					
<i>(Method 29 QC limits: ±10% for Second Source Continuing Check Standard*)</i>					
Element	0.25 ppb	1 ppb	50 ppb	100 ppb*	250 ppb
Antimony		107%	97%	101%	91%
Arsenic		120%	98%	102%	99%
Beryllium	113%	109%	100%	105%	101%
Cadmium		109%	100%	105%	100%
Chromium		103%	99%	106%	95%
Cobalt		115%	105%	110%	99%
Lead		116%	104%	105%	97%
Manganese		105%	105%	103%	98%
Nickel		106%	100%	103%	99%
Selenium		102%	96%	104%	99%

# SAMPLE CUSTODY

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number	3648	Location	ESP 1	Analysis Requested	Page	1	of	1
Client	Big Rivers Wilson Stadium	Date	7/22/2011					
Print		Completed By	Michael Hees					
ID No.	Run No.	Date	Sample Description	Metallic NAPs	Number of Containers	Notes		
29-R1-FIL	1	7/22/2011	QUARTZ FILTER	X	1			
29-R2-FIL	2	7/22/2011	QUARTZ FILTER	X	1			
29-R3-FIL	3	7/22/2011	QUARTZ FILTER	X	1			
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R1-5%10%	1	7/22/2011	Imp Catch and Rinse	X	1			
29-R2-5%10%	2	7/22/2011	Imp Catch and Rinse	X	1			
29-R3-5%10%	3	7/22/2011	Imp Catch and Rinse	X	1			
Postqualified By (signature)		Michael Hees		Carrier				
Date/Time (printed)		7/22/2011 0:00		Laboratory				
Accepted By (signature)		DAVID DEVERIS		Contact				
Date/Time (printed)		7-25-11		Address				
Accepted By (signature)		DAVID DEVERIS		Phone				
Date/Time (printed)		7-25-11		Fax				
Accepted By (signature)		DAVID DEVERIS		Date/Time				
Date/Time (printed)		7-25-11						

Samples received in good condition. No empty containers.



Airtech Environmental Services Inc.  
807A County Club Drive  
Beverly Hills, IL 60108  
Phone: (830) 880-4740, Fax: (830) 880-4745



**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number	3648	Location	ESP 1	Analysis Requested	Page	1	of	1
Client	Big Rivers	Date	7/22/2011					
Plant	Wilson Station	Completed By	Michael Hesse					
ID No.	Run No.	Date	Sample Description	Metals HAPs	Number of Containers	Notes		
29-R4-FIL	4	7/22/2011	Teflon Filter	X	1			
29-R5-FIL	5	7/22/2011	Teflon Filter	X	1			
29-R6-FIL	6	7/22/2011	Teflon Filter	X	1			
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1			
29-R4-SY/10%	4	7/22/2011	Imp Catch and Rinse	X	1			
29-R5-SY/10%	5	7/22/2011	Imp Catch and Rinse	X	1			
29-R6-SY/10%	6	7/22/2011	Imp Catch and Rinse	X	1			
Requisitioned By (signature)		Michael Hesse		Carrier Laboratory				
Date/Time		7/22/2011 0:00		Contact				
Accepted By (signature)		David DeVries		Address				
Date/Time		7-25-11		Phone				
Accepted By (signature)		Dolores Brinkman		Fax				
Date/Time		7/26/11 1524		Date/Time				



Airtech Environmental Services Inc.  
6071A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 880-4740, Fax: (630) 880-4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number		3848	Location		EQP 2	Analysis Requested		Page	1	of	1
Client		Big Rivers	Date		7/22/2011	Completed By		Michael Hess			
Project		Wilson Station									
ID No.	Run No.	Date	Sample Description		Metallic HAPs		Number of Containers		Notes		
20-R1-FIL	1	7/22/2011	Quartz Fiber		X		1				
20-R2-FIL	2	7/22/2011	Quartz Fiber		X		1				
20-R3-FIL	3	7/22/2011	Quartz Fiber		X		1				
20-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X		1				
20-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X		1				
20-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X		1				
20-R4-5%10%	1	7/22/2011	Imp Catch and Rinses		X		1				
20-R2-5%10%	2	7/22/2011	Imp Catch and Rinses		X		1				
20-R3-5%10%	3	7/22/2011	Imp Catch and Rinses		X		1				
Retrieved By (signature)			Michael Hess		Retrieved By (signature)			David DeVries		Carrier	
Date/Time (printed)			7/22/2011 0:00		Date/Time (printed)			7/22/2011 3:30		Laboratory	
Accepted By (signature)			David DeVries		Accepted By (signature)			Deanna Bradshaw		Address	
Date/Time (printed)			7/22/11		Date/Time (printed)			7/26/11 1524		Phone	



Airtech Environmental Services Inc.  
601A County Club Drive  
Bemontville, IL 60108  
Phone: (630) 860-4740, Fax: (630) 860-4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number	2649	Location	ESP 2	Analyst Requested		Page	1	of	1
Client	Big Rivers Wilson Station	Date	7/22/2011	Completed By	Michael Heas				
ID No.	Run No.	Date	Sample Description	Metallic HAPs		Number of Containers	Notes		
20-AB-FIL	4	7/22/2011	Teflon Filter			1			
20-AB-FIL	5	7/22/2011	Teflon Filter	X		1			
20-AB-FIL	6	7/22/2011	Teflon Filter	X		1			
20-BA-HNO	4	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1			
20-BA-HNO	5	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1			
20-BA-HNO	6	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1			
20-BA-S&V10%	4	7/22/2011	Imp Catch and Rinses	X		1			
20-BA-S&V10%	5	7/22/2011	Imp Catch and Rinses	X		1			
20-BA-S&V10%	6	7/22/2011	Imp Catch and Rinses	X		1			
Requisitioned By (signature)		Michael Heas		Requisitioned By (signature)		David Debris		Contact	
Date/Time		7/22/2011 0:00		Date/Time		7/26/11 5:34		Address	
Accepted By (signature)		David Debris		Accepted By (signature)		James Bradshaw		Phone	
Date/Time		7/25-11		Date/Time		7/26/11 15:24		Fax	
								Department	



Airtech Environmental Services Inc.  
801A County Club Drive  
Bismarck, ND 58108  
Phone: (630) 860-4740, Fax: (630) 860-4745



**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number		3643		Location		ESP 3		Page		1 of 1	
Client		Big Rivers Wilson Station		Date		7/22/2011		Analytes Requested			
Plant		Wilson Station		Completed By		Michael Haas		Metallic HAPs			
ID No.	Run No.	Date	Sample Description								Notes
20-414-FIL	4	7/22/2011	Teflon Filter								
20-415-FIL	5	7/22/2011	Teflon Filter								
20-416-FIL	6	7/22/2011	Teflon Filter								
20-414-HMO	4	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse								
20-415-HMO	5	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse								
20-416-HMO	8	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse								
20-414-S/M/10%	4	7/22/2011	Imp Catch and Rinses								
20-415-S/M/10%	5	7/22/2011	Imp Catch and Rinses								
20-416-S/M/10%	6	7/22/2011	Imp Catch and Rinses								
Requested By (signature)		<i>Michael Haas</i>		Requested By (signature)		<i>David DeVries</i>		Center Laboratory			
Requested By (printed)		Michael Haas		Requested By (printed)		DAVID DEVRIES		Contact			
Date/Time		7/22/2011 0:00		Date/Time		7-20-11 3:24		Address			
Accepted By (signature)		<i>David DeVries</i>		Accepted By (signature)		<i>James Bradley</i>		Phone			
Accepted By (printed)		DAVID DEVRIES		Accepted By (printed)		James Bradley		Fax			
Date/Time		7-22-11		Date/Time		7/21/11 15:20		Date/Time			



Airtech Environmental Services Inc.  
601A Country Club Drive  
Sarasota, FL 34236  
Phone: (941) 850-4140, Fax: (941) 850-4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number	3448	Location	ESP 4	Analysis Requested	Page	1	of	1	
Client	Big Rivers Wilson Station	Date	7/22/2011	Completed By	Michael Hess	Number of Containers	None		
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Number of Containers				
29-R1-FIL	1	7/22/2011	Quartz Filter	X	1				
29-R2-FIL	2	7/22/2011	Quartz Filter	X	1				
29-R3-FIL	3	7/22/2011	Quartz Filter	X	1				
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1				
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1				
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X	1				
29-R1-SY-10%	1	7/22/2011	Imp Catch and Rinse	X	1				
29-R2-SY-10%	2	7/22/2011	Imp Catch and Rinse	X	1				
29-R3-SY-10%	3	7/22/2011	Imp Catch and Rinse	X	1				

Relinquished By (signature)	<i>Michael Hess</i>	Relinquished Date By (signature)	<i>David DeVries</i>
(printed)	Michael Hess	(printed)	DAVID DEVRIES
Date/Time	7/22/2011 0:00	Date/Time	7/26/11 3:24
Accepted By (signature)	<i>David DeVries</i>	Accepted By (signature)	<i>Michael Hess</i>
(printed)	DAVID DEVRIES	(printed)	Michael Hess
Date/Time	7/25/11	Date/Time	7/26/11 15:24



Airtech Environmental Services Inc.  
601A County CUD Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 690-4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number		3448	Location		ESP 4	Analysis Requested		Page	1	of	1
Client		Big Rivers	Date		7/22/2011	Number of Containers					
Plant		Wilson Station	Completed By		Michael Haas	Notes					
ID No.	Run No.	Date	Sample Description	Mrty/Ec HAPs							
20-R4-FIL	4	7/22/2011	Telton Filter	X							
20-R5-FIL	5	7/22/2011	Telton Filter	X							
20-R6-FIL	6	7/22/2011	Telton Filter	X							
20-R4-HINC	4	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X							
20-R5-HINC	5	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X							
20-R6-HINC	6	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X							
20-R4-SY/10%	4	7/22/2011	Imp Catch and Rinses	X							
20-R5-SY/10%	5	7/22/2011	Imp Catch and Rinses	X							
20-R6-SY/10%	6	7/22/2011	Imp Catch and Rinses	X							
Requested By (signature)			<i>Michael Haas</i>	Requested By (signature)			<i>David DeVries</i>	Center Laboratory			
Requested By (printed)			Michael Haas	Requested By (printed)			David DeVries	Center Laboratory			
Date/Time			7/22/2011 0:00	Date/Time			7-21-11 3:34	Address			
Accepted By (signature)			<i>David DeVries</i>	Accepted By (signature)			<i>Deanna Brackley</i>	Phone			
Accepted By (printed)			DAVID DEVRIES	Accepted By (printed)			Deanna Brackley	Fax			
Date/Time			7-22-11	Date/Time			7/26/11	Date/Time			



Airtech Environmental Services Inc.  
807A County Club Drive  
Bensenville, IL 60108  
Phone: (630) 860-4740, Fax: (630) 860-4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number		3448		Location		Stack		7/22/2011		Completed By		Michael Heas	
Client		Big Rivers		Date		7/22/2011		7/22/2011		7/22/2011		7/22/2011	
Plant		Wilson Station		Date		7/22/2011		7/22/2011		7/22/2011		7/22/2011	
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Analyte Requested	Number of Containers	Notes						
20-K1-FIL	1	7/22/2011	Quartz Filter	X		1							
20-K2-FIL	2	7/22/2011	Quartz Filter	X		1							
20-K3-FIL	3	7/22/2011	Quartz Filter	X		1							
20-K1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2							
20-K2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2							
20-K3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2							
20-K1-S%10%	1	7/22/2011	Imp Catch and Rinses	X		1							
20-K2-S%10%	2	7/22/2011	Imp Catch and Rinses	X		1							
20-K3-S%10%	3	7/22/2011	Imp Catch and Rinses	X		1							

Subsiquished By (signature)	<i>Michael Heas</i>	Subsiquished By (signature)	<i>David Bellini</i>
(printed)	Michael Heas	(printed)	David Bellini
Date/Time	7/22/2011 0:00	Date/Time	7-20-11 3:34
Accepted By (signature)	<i>David Bellini</i>	Accepted By (signature)	<i>James Brooks</i>
(printed)	DAVID BELLINI	(printed)	JAMES BROOKS
Date/Time	7-25-11	Date/Time	7-25-11 15:24



Airtech Environmental Services Inc.  
801A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 860-4745



**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

17071

Project Number	3648	Client	Big Rivers Wilson Station	Location	7/22/2011	Stack	7/22/2011	Michael Hess	Analysis Requested	Number of Containers	Page	1	of	1
Client	Big Rivers	Wilson Station	Completed By	Michael Hess										
ID No.	Run No.	Date	Sample Description											
28-R4-FIL	4	7/22/2011	Quartz Filter											
28-R5-FIL	5	7/22/2011	Quartz Filter											
28-R6-FIL	6	7/22/2011	Quartz Filter											
28-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse											
28-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse											
28-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse											
28-R4-SY/10%	4	7/22/2011	Imp Catch and Rinses											
28-R5-SY/10%	5	7/22/2011	Imp Catch and Rinses											
28-R6-SY/10%	6	7/22/2011	Imp Catch and Rinses											
Requisitioned By (signature)	Michael Hess	Date/Time	7/22/2011 0:00	Accepted By (signature)	DAVID DEVERES	Date/Time	7/22/2011 3:24	Carrier						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Laboratory						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Contact						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Address						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Phone						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Fax						
Accepted By (signature)	DAVID DEVERES	Date/Time		Accepted By (signature)	DAVID DEVERES	Date/Time		Carrier						



Airtech Environmental Services Inc.  
601 A County Club Drive  
Bensenville, IL 60106  
Phone: (830) 866-4740, Fax: (830) 860-4745

# 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 08.03.11  
QA/QC/Report Due Date 08.05.11

Client Airtech Environmental Services, Inc.  
Project No 3648

Date Rec 07.26.11  
Time Rec 1524

HNO<sub>3</sub> Lot: 5032 HF Lot: 510090 HCl Lot: 51035  
Volume Marked Y/N  Volume Loss Y/N  Ref. Method: 29

Sample Identification

1	ESP 1-M29-R1	7	ESP 2-M29-R1	13	ESP 3-M29-R1
2	ESP 1-M29-R2	8	ESP 2-M29-R2	14	ESP 3-M29-R2
	ESP 1-M29-R2 Duplicate		ESP 2-M29-R2 Duplicate		ESP 3-M29-R2 Duplicate
3	ESP 1-M29-R3	9	ESP 2-M29-R3	15	ESP 3-M29-R3
	ESP 1-M29-R3 Spike		ESP 2-M29-R3 Spike		ESP 3-M29-R3 Spike
4	ESP 1-M29-R4	10	ESP 2-M29-R4	16	ESP 3-M29-R4
5	ESP 1-M29-R5	11	ESP 2-M29-R5	17	ESP 3-M29-R5
6	ESP 1-M29-R6	12	ESP 2-M29-R6	18	ESP 3-M29-R6

Analyses Requested Samples 1-18  Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se

Runs / FB	Flt / Ace (FH)		HNO <sub>3</sub> (FH)			5% HNO <sub>3</sub> /10% H <sub>2</sub> O <sub>2</sub> (BH)			HNO <sub>3</sub> (A)		KMnO <sub>4</sub> (B)		HCl (C)		
	pH <2.0 Y/N		pH <2.0 Y/N			pH <2.0 Y/N	Used		pH <2.0 Y/N		pH <2.0 Y/N		pH <2.0 Y/N		
Lab ID	FH ID	BV ml	BV ml	FV ml	BV ml		FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml
1			65	100	44	220	50								
2.D			45		40	200									
3.S			140		800	200									
4			150		550	275									
5			140		850	275									
6.			65		45	215									
7			130		400	200									
8.D			130		260	190									
9.S			55		420	210									
10			75		600	300									
11			90		540	270									
12			150		560	280									
13			55		420	210									
14.D			65		400	200									
15.S			100		410	210									
16			160		640	320									
17			105		510	255									
18			155		620	310									

Lab Communications

Per Jim via phone, use id, not label, for ESP 1-R3.

SS Page 1 of 2  
7/27/2011 4:04:31 PM  
SS By ZJK  
Labeled By/Date KCS 7.27.11

FH Prep By/Date PHH 7/27/11 A Prep By/Date \_\_\_\_\_  
BH Prep By/Date PHH 7/27/11 B Prep By/Date \_\_\_\_\_  
BH/FH Prep By/Date \_\_\_\_\_ C Prep By/Date \_\_\_\_\_  
PM Prep By/Date \_\_\_\_\_ ID Verification By / Date PHH 7-28-11

FH/BH Separate Analysis

Analysis Due Date 08.03.11  
QA/QC/Report Due Date 08.05.11

Client Airtech Environmental Services, Inc.  
Project No 3648

Date Rec 07.26.11  
Time Rec 1524

HNO<sub>3</sub> Lot: HF Lot: HCl Lot: Ref. Method: 29  
Volume Marked Y/N Volume Loss Y/N/?

Sample Identification

19	ESP 4-M29-R1	25	Stack-M29-R1	31	Reagent Blank (e17070)
20	ESP 4-M29-R2	26	Stack-M29-R2		
	ESP 4-M29-R2 Duplicate		Stack-M29-R2 Duplicate		
21	ESP 4-M29-R3	27	Stack-M29-R3		
	ESP 4-M29-R3 Spike		Stack-M29-R3 Spike		
22	ESP 4-M29-R4	28	Stack-M29-R4		
23	ESP 4-M29-R5	29	Stack-M29-R5		
24	ESP 4-M29-R6	30	Stack-M29-R6		

Analyses Requested: Samples 19-30 31 Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se

Runs / FB	Fl / Ace (FH)		HNO <sub>3</sub> (FH)			5% HNO <sub>3</sub> /10% H <sub>2</sub> O <sub>2</sub> (BH)			HNO <sub>3</sub> (A)		KMnO <sub>4</sub> (B)		HCl (C)		
	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	Fl ID	BV ml	BV ml	FV ml	BV ml	Used	FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml
19			55	100	720	350									
20.D			40		410	205									
21.S			125		400	200									
22			155		600	300									
23			70		570	245									
24			90		560	290									
25			170		430	240									
26.D			170		460	230									
27.S			90		460	230									
28			100		600	330									
29			145		600	340									
30			150		660	330									

Lab Communications

Filter #11 had 2 filters

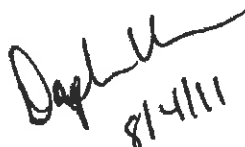
NOTE--Run RB from job e17070. (e17070+ e17071 ARE both linked 3648) 7/27/11  
Fractions Received: C1, C3, C4

SS Page 2 of 2  
7/27/2011 4:04:31 PM  
SS By 221  
Labeled By/Date \_\_\_\_\_

FH Prep By/Date \_\_\_\_\_ A Prep By/Date \_\_\_\_\_  
BH Prep By/Date \_\_\_\_\_ B Prep By/Date \_\_\_\_\_  
BH/FH Prep By/Date \_\_\_\_\_ C Prep By/Date \_\_\_\_\_  
PM Prep By/Date \_\_\_\_\_ ID Verification By / Date \_\_\_\_\_

## Sample/Batch Report

User Name: icp  
 Computer Name: D8D4DWD1  
 Sample File: C:\elandata\_icp\Sample\8.sam  
 Report Date/Time: Thursday, August 04, 2011 11:50:33

  
 8/4/11

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Allquot Vol.	Diluted Vol.	Solids Ratio
	5	QC Std 2	Airtech	Sample					
	101	LRB FH	Airtech	Sample					
	102 S	LRB FH	Airtech	Spike - 1 of 2					
	103	17071-1 FH	Airtech	Sample					
	104	17071-2 FH	Airtech	Sample					
	105 D	17071-2 FH	Airtech	Duplicate of 5					
	106	17071-3 FH	Airtech	Sample					
	107 S	17071-3 FH	Airtech	Spike - 1 of 7					
	108	17071-4 FH	Airtech	Sample					
	109	17071-5 FH	Airtech	Sample					
	110	17071-6 FH	Airtech	Sample					
	111	17071-7 FH	Airtech	Sample					
	112	17071-8 FH	Airtech	Sample					
	113 D	17071-8 FH	Airtech	Duplicate of 13					
	114	17071-9 FH	Airtech	Sample					
	115 S	17071-9 FH	Airtech	Spike - 1 of 15					
	116	17071-10 FH	Airtech	Sample					
	117	17071-11 FH	Airtech	Sample					
	118	17071-12 FH	Airtech	Sample					
	119	17071-13 FH	Airtech	Sample					
	120	17071-14 FH	Airtech	Sample					
	121 D	17071-14 FH	Airtech	Duplicate of 21					
	122	17071-15 FH	Airtech	Sample					
	123 S	17071-15 FH	Airtech	Spike - 1 of 23					
	124	17071-16 FH	Airtech	Sample					
	125	17071-17 FH	Airtech	Sample					
	126	17071-18 FH	Airtech	Sample					
	127	17071-19 FH	Airtech	Sample					
	128	17071-20 FH	Airtech	Sample					
	129 D	17071-20 FH	Airtech	Duplicate of 29					
	130	17071-21 FH	Airtech	Sample					
	131 S	17071-21 FH	Airtech	Spike - 1 of 31					
	132	17071-22 FH	Airtech	Sample					
	133	17071-23 FH	Airtech	Sample					
	134	17071-24 FH	Airtech	Sample					
	135	17071-25 FH	Airtech	Sample					
	136	17071-26 FH	Airtech	Sample					
	137 D	17071-26 FH	Airtech	Duplicate of 37					
	138	17071-27 FH	Airtech	Sample					
	139 S	17071-27 FH	Airtech	Spike - 1 of 39					
	140	17071-28 FH	Airtech	Sample					
	141	17071-29 FH	Airtech	Sample					
	142	17071-30 FH	Airtech	Sample					
	143	17071-31 FH	Airtech	Sample					
	201	LRB BH	Airtech	Sample					
	202 S	LRB BH	Airtech	Spike - 1 of 45					
	203	17071-1 BH	Airtech	Sample					
	204	17071-2 BH	Airtech	Sample					
	205 D	17071-2 BH	Airtech	Duplicate of 48					

206		17071-3 BH Airtech	Sample
207	S	17071-3 BH Airtech	Spike - 1 of 50
208		17071-4 BH Airtech	Sample
209		17071-5 BH Airtech	Sample
210		17071-6 BH Airtech	Sample
211		17071-7 BH Airtech	Sample
212		17071-8 BH Airtech	Sample
213	D	17071-8 BH Airtech	Duplicate of 56
214		17071-9 BH Airtech	Sample
215	S	17071-9 BH Airtech	Spike - 1 of 58
216		17071-10 BH Airtech	Sample
217		17071-11 BH Airtech	Sample
218		17071-12 BH Airtech	Sample
219		17071-13 BH Airtech	Sample
220		17071-14 BH Airtech	Sample
221	D	17071-14 BH Airtech	Duplicate of 64
222		17071-15 BH Airtech	Sample
223	S	17071-16 BH Airtech	Spike - 1 of 66
224		17071-16 BH Airtech	Sample
225		17071-17 BH Airtech	Sample
226		17071-18 BH Airtech	Sample
227		17071-19 BH Airtech	Sample
228		17071-20 BH Airtech	Sample
229	D	17071-20 BH Airtech	Duplicate of 72
230		17071-21 BH Airtech	Sample
231	S	17071-21 BH Airtech	Spike - 1 of 74
232		17071-22 BH Airtech	Sample
233		17071-23 BH Airtech	Sample
234		17071-24 BH Airtech	Sample
235		17071-25 BH Airtech	Sample
236		17071-26 BH Airtech	Sample
237	D	17071-26 BH Airtech	Duplicate of 80
238		17071-27 BH Airtech	Sample
239	S	17071-27 BH Airtech	Spike - 1 of 82
240		17071-28 BH Airtech	Sample
241		17071-29 BH Airtech	Sample
242		17071-30 BH Airtech	Sample
243		17071-31 BH Airtech	Sample



## Sample/Batch Report

User Name: icp  
 Computer Name: D8D4DWD1  
 Sample File: C:\elandata\_icp\Sample\10.sam  
 Report Date/Time: Thursday, August 04, 2011 11:51:34

*Dep. W  
8/4/11*

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					
101		LRB FH	Airtech	Sample					
102	S	LRB FH	Airtech	Spike - 1 of 2					
301	x10	17071-1 FH	Airtech	Sample					
302	x10	17071-2 FH	Airtech	Sample					
303	x10d	17071-2 FH	Airtech	Duplicate of 5					
304		17071-2 FH	Airtech	Sample					
305	D	17071-2 FH	Airtech	Duplicate of 7					
306	x10	17071-3 FH	Airtech	Sample					
307	x10s	17071-3 FH	Airtech	Spike - 1 of 9					
308	x10	17071-4 FH	Airtech	Sample					
109		17071-5 FH	Airtech	Sample					
309	x5	17071-6 FH	Airtech	Sample					
111		17071-7 FH	Airtech	Sample					
310	x10	17071-8 FH	Airtech	Sample					
311	x10d	17071-8 FH	Airtech	Duplicate of 15					
312	x2	17071-9 FH	Airtech	Sample					
313	x2s	17071-9 FH	Airtech	Spike - 1 of 17					
116		17071-10 FH	Airtech	Sample					
117		17071-11 FH	Airtech	Sample					
118		17071-12 FH	Airtech	Sample					
314	x10	17071-13 FH	Airtech	Sample					
315	x2	17071-14 FH	Airtech	Sample					
316	x2d	17071-14 FH	Airtech	Duplicate of 23					
122		17071-15 FH	Airtech	Sample					
123	S	17071-15 FH	Airtech	Spike - 1 of 25					
317	x10	17071-15 FH	Airtech	Sample					
318	x10s	17071-15 FH	Airtech	Spike - 1 of 27					
319	x10	17071-16 FH	Airtech	Sample					
125		17071-17 FH	Airtech	Sample					
320	x10	17071-18 FH	Airtech	Sample					
127		17071-19 FH	Airtech	Sample					
321	x5	17071-20 FH	Airtech	Sample					
322	x5d	17071-20 FH	Airtech	Duplicate of 33					
323	x5	17071-21 FH	Airtech	Sample					
324	x5s	17071-21 FH	Airtech	Spike - 1 of 35					
132		17071-22 FH	Airtech	Sample					
133		17071-23 FH	Airtech	Sample					
134		17071-24 FH	Airtech	Sample					
325	x10	17071-25 FH	Airtech	Sample					
326	x10	17071-26 FH	Airtech	Sample					
327	x10d	17071-26 FH	Airtech	Duplicate of 41					
328	x5	17071-27 FH	Airtech	Sample					
329	x5s	17071-27 FH	Airtech	Spike - 1 of 43					
140		17071-28 FH	Airtech	Sample					
141		17071-29 FH	Airtech	Sample					
142		17071-30 FH	Airtech	Sample					
143		17071-31 FH	Airtech	Sample					
201		LRB BH	Airtech	Sample					

202	S	LRB BH	Airtech	Spike - 1 of 49
330	x2	17071-1 BH	Airtech	Sample
331	x2	17071-2 BH	Airtech	Sample
332	x2d	17071-2 BH	Airtech	Duplicate of 52
333	x2	17071-3 BH	Airtech	Sample
334	x2s	17071-3 BH	Airtech	Spike - 1 of 54
335	x2	17071-4 BH	Airtech	Sample
336	x10	17071-4 BH	Airtech	Sample
337	x2	17071-5 BH	Airtech	Sample
210		17071-6 BH	Airtech	Sample
338	x2	17071-7 BH	Airtech	Sample
339	x2	17071-8 BH	Airtech	Sample
340	x2d	17071-8 BH	Airtech	Duplicate of 61
341	x2	17071-9 BH	Airtech	Sample
342	x2s	17071-9 BH	Airtech	Spike - 1 of 63
343	x2	17071-10 BH	Airtech	Sample
344	x2	17071-11 BH	Airtech	Sample
345	x2	17071-12 BH	Airtech	Sample
346	x2	17071-13 BH	Airtech	Sample
347	x2	17071-14 BH	Airtech	Sample
348	x2d	17071-14 BH	Airtech	Duplicate of 69
349	x10	17071-14 BH	Airtech	Sample
350	x10d	17071-14 BH	Airtech	Duplicate of 71
351	x2	17071-15 BH	Airtech	Sample
352	x2s	17071-15 BH	Airtech	Spike - 1 of 73
353	x10	17071-15 BH	Airtech	Sample
354	x10s	17071-15 BH	Airtech	Spike - 1 of 75
355	x2	17071-16 BH	Airtech	Sample
356	x10	17071-16 BH	Airtech	Sample
357	x2	17071-17 BH	Airtech	Sample
358	x10	17071-17 BH	Airtech	Sample
359	x2	17071-18 BH	Airtech	Sample
360	x10	17071-18 BH	Airtech	Sample
401	x2	17071-19 BH	Airtech	Sample
402	x2	17071-20 BH	Airtech	Sample
403	x2d	17071-20 BH	Airtech	Duplicate of 84
404	x10	17071-20 BH	Airtech	Sample
405	x10d	17071-20 BH	Airtech	Duplicate of 88
406	x2	17071-21 B	Airtech	Sample
407	x2s	17071-21 BH	Airtech	Spike - 1 of 88
408	x10	17071-21 B	Airtech	Sample
409	x10s	17071-21 BH	Airtech	Spike - 1 of 90
410	x2	17071-22 BH	Airtech	Sample
411	x10	17071-22 BH	Airtech	Sample
412	x2	17071-23 BH	Airtech	Sample
413	x10	17071-23 BH	Airtech	Sample
414	x2	17071-24 BH	Airtech	Sample
415	x10	17071-24 BH	Airtech	Sample
235		17071-25 BH	Airtech	Sample
236		17071-26 BH	Airtech	Sample
237	D	17071-26 BH	Airtech	Duplicate of 99
416	x2	17071-27 BH	Airtech	Sample
417	x2s	17071-27 BH	Airtech	Spike - 1 of 101
240		17071-28 BH	Airtech	Sample
418	x2	17071-29 BH	Airtech	Sample
419	x10	17071-29 BH	Airtech	Sample
420	x2	17071-30 BH	Airtech	Sample
243		17071-31 BH	Airtech	Sample
5		QC Std 2	Airtech	Sample
101	x5	17071-9 FH	Airtech	Sample

102	x5s	17071-9 FH Airtech	Spike - 1 of 109
321	x5	17071-20 FHAirtech	Sample
322	x5d	17071-20 FHAirtech	Duplicate of 111
323	x5	17071-21 FHAirtech	Sample
324	x5s	17071-21 FHAirtech	Spike - 1 of 113
132		17071-22 FHAirtech	Sample
133		17071-23 FHAirtech	Sample
103	x2	17071-24 FHAirtech	Sample
325	x10	17071-25 FHAirtech	Sample
326	x10	17071-26 FHAirtech	Sample
327	x10d	17071-26 FHAirtech	Duplicate of 119
328	x5	17071-27 FHAirtech	Sample
329	x5s	17071-27 FHAirtech	Spike - 1 of 121
104	x10	17071-3 BH Airtech	Sample
105	x10s	17071-3 BH Airtech	Spike - 1 of 123
106	x5	17071-5 BH Airtech	Sample
107	x10	17071-9 BH Airtech	Sample
108	x10s	17071-9 BH Airtech	Spike - 1 of 126
109	x10	17071-11 BHAirtech	Sample
110	x50	17071-15 BHAirtech	Sample
111	x50s	17071-15 BHAirtech	Spike - 1 of 129
112	x50	17071-21 BHAirtech	Sample
113	x50s	17071-21 BHAirtech	Spike - 1 of 131
114	x5	17071-27 BHAirtech	Sample
115	x5s	17071-27 BHAirtech	Spike - 1 of 133
5		QC Std 2 Airtech	Sample
425	x50	17071-3 BH Airtech	Sample
426	x50s	17071-3 BH Airtech	Spike - 1 of 136
427	x50	17071-9 BH Airtech	Sample
428	x50s	17071-9 BH Airtech	Spike - 1 of 138
429	x100	17071-15 BHAirtech	Sample
430	x100s	17071-15 BHAirtech	Spike - 1 of 140
431	x100	17071-21 BHAirtech	Sample
432	x100s	17071-21 BHAirtech	Spike - 1 of 142
114	x5	17071-27 BHAirtech	Sample
115	x5s	17071-27 BHAirtech	Spike - 1 of 144

# Dataset Report

User Name: icp  
 Computer Name: D8D4DWD1  
 Dataset File Path: C:\elandata\_icp\DataSet\080311-1\  
 Report Date/Time: Thursday, August 04, 2011 11:50:15

*Daphne*  
*8/4/11*

Autosampler Position: 3

## The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
10:00:53 Wed 03-Aug-11	Blank		Blank					
10:03:02 Wed 03-Aug-11	Standard 1		Standard #1					
10:05:11 Wed 03-Aug-11	Standard 2		Standard #2					
10:07:21 Wed 03-Aug-11	Standard 3		Standard #3					
10:09:30 Wed 03-Aug-11	QC Std 1		QC Std #1					
10:11:40 Wed 03-Aug-11	QC Std 2		QC Std #2					
10:13:49 Wed 03-Aug-11	QC Std 3		QC Std #3					
10:16:00 Wed 03-Aug-11	QC Std 4		QC Std #4					
10:18:10 Wed 03-Aug-11	QC Std 5		QC Std #5					
10:20:19 Wed 03-Aug-11	QC Std 6		QC Std #6					
10:22:29 Wed 03-Aug-11	QC Std 7		QC Std #7					
10:24:38 Wed 03-Aug-11	QC Std 8		QC Std #8					
10:26:49 Wed 03-Aug-11	QC Std 2		Sample	Airtech				
10:28:59 Wed 03-Aug-11	LRB FH		Sample	Airtech				
10:31:09 Wed 03-Aug-11	LRB FH	S	Spike - 1 of 14	Airtech				
10:33:18 Wed 03-Aug-11	17071-1 FH		Sample	Airtech				
10:35:27 Wed 03-Aug-11	17071-2 FH		Sample	Airtech				
10:37:36 Wed 03-Aug-11	17071-2 FH	D	Duplicate of 17	Airtech				
10:39:46 Wed 03-Aug-11	17071-3 FH		Sample	Airtech				
10:41:55 Wed 03-Aug-11	17071-3 FH	S	Spike - 1 of 19	Airtech				
10:44:04 Wed 03-Aug-11	17071-4 FH		Sample	Airtech				
10:46:14 Wed 03-Aug-11	17071-5 FH		Sample	Airtech				
10:48:25 Wed 03-Aug-11	QC Std 1		QC Std #1					
10:50:35 Wed 03-Aug-11	QC Std 4		QC Std #4					
10:52:47 Wed 03-Aug-11	17071-6 FH		Sample	Airtech				
10:54:56 Wed 03-Aug-11	17071-7 FH		Sample	Airtech				
10:57:05 Wed 03-Aug-11	17071-8 FH		Sample	Airtech				
10:59:15 Wed 03-Aug-11	17071-8 FH	D	Duplicate of 27	Airtech				
11:01:24 Wed 03-Aug-11	17071-9 FH		Sample	Airtech				
11:03:33 Wed 03-Aug-11	17071-9 FH	S	Spike - 1 of 29	Airtech				
11:05:42 Wed 03-Aug-11	17071-10 FH		Sample	Airtech				
11:07:52 Wed 03-Aug-11	17071-11 FH		Sample	Airtech				
11:10:01 Wed 03-Aug-11	17071-12 FH		Sample	Airtech				
11:12:10 Wed 03-Aug-11	17071-13 FH		Sample	Airtech				
11:14:22 Wed 03-Aug-11	QC Std 1		QC Std #1					
11:16:31 Wed 03-Aug-11	QC Std 4		QC Std #4					
11:18:43 Wed 03-Aug-11	17071-14 FH		Sample	Airtech				
11:20:52 Wed 03-Aug-11	17071-14 FH	D	Duplicate of 37	Airtech				
11:23:02 Wed 03-Aug-11	17071-15 FH		Sample	Airtech				
11:25:11 Wed 03-Aug-11	17071-15 FH	S	Spike - 1 of 39	Airtech				
11:27:20 Wed 03-Aug-11	17071-16 FH		Sample	Airtech				
11:29:30 Wed 03-Aug-11	17071-17 FH		Sample	Airtech				
11:31:39 Wed 03-Aug-11	17071-18 FH		Sample	Airtech				

*080311-1CP-1*

11:33:48 Wed 03-Aug-11	17071-19 FH		Sample	Airtech
11:35:57 Wed 03-Aug-11	17071-20 FH		Sample	Airtech
11:38:07 Wed 03-Aug-11	17071-20 FH	D	Duplicate of 45	Airtech
11:40:18 Wed 03-Aug-11	QC Std 1		QC Std #1	
11:42:28 Wed 03-Aug-11	QC Std 4		QC Std #4	
11:44:39 Wed 03-Aug-11	17071-21 FH		Sample	Airtech
11:46:48 Wed 03-Aug-11	17071-21 FH	S	Spike - 1 of 49	Airtech
11:48:58 Wed 03-Aug-11	17071-22 FH		Sample	Airtech
11:51:07 Wed 03-Aug-11	17071-23 FH		Sample	Airtech
11:53:16 Wed 03-Aug-11	17071-24 FH		Sample	Airtech
11:55:25 Wed 03-Aug-11	17071-25 FH		Sample	Airtech
11:57:35 Wed 03-Aug-11	17071-26 FH		Sample	Airtech
11:59:44 Wed 03-Aug-11	17071-26 FH	D	Duplicate of 55	Airtech
12:01:54 Wed 03-Aug-11	17071-27 FH		Sample	Airtech
12:04:03 Wed 03-Aug-11	17071-27 FH	S	Spike - 1 of 57	Airtech
12:06:14 Wed 03-Aug-11	QC Std 1		QC Std #1	
12:08:24 Wed 03-Aug-11	QC Std 4		QC Std #4	
12:10:35 Wed 03-Aug-11	17071-28 FH		Sample	Airtech
12:12:44 Wed 03-Aug-11	17071-29 FH		Sample	Airtech
12:14:53 Wed 03-Aug-11	17071-30 FH		Sample	Airtech
12:17:02 Wed 03-Aug-11	17071-31 FH		Sample	Airtech
12:19:13 Wed 03-Aug-11	LRB BH		Sample	Airtech
12:21:23 Wed 03-Aug-11	LRB BH	S	Spike - 1 of 65	Airtech
12:23:32 Wed 03-Aug-11	17071-1 BH		Sample	Airtech
12:25:41 Wed 03-Aug-11	17071-2 BH		Sample	Airtech
12:27:51 Wed 03-Aug-11	17071-2 BH	D	Duplicate of 68	Airtech
12:30:00 Wed 03-Aug-11	17071-3 BH		Sample	Airtech
12:32:10 Wed 03-Aug-11	17071-3 BH	S	Spike - 1 of 70	Airtech
12:34:22 Wed 03-Aug-11	QC Std 1		QC Std #1	
12:36:31 Wed 03-Aug-11	QC Std 4		QC Std #4	
12:38:43 Wed 03-Aug-11	17071-4 BH		Sample	Airtech
12:40:52 Wed 03-Aug-11	17071-5 BH		Sample	Airtech
12:43:01 Wed 03-Aug-11	17071-6 BH		Sample	Airtech
12:45:11 Wed 03-Aug-11	17071-7 BH		Sample	Airtech
12:47:20 Wed 03-Aug-11	17071-8 BH		Sample	Airtech
12:49:30 Wed 03-Aug-11	17071-8 BH	D	Duplicate of 78	Airtech
12:51:39 Wed 03-Aug-11	17071-9 BH		Sample	Airtech
12:53:49 Wed 03-Aug-11	17071-9 BH	S	Spike - 1 of 80	Airtech
12:55:58 Wed 03-Aug-11	17071-10 BH		Sample	Airtech
12:58:07 Wed 03-Aug-11	17071-11 BH		Sample	Airtech
13:00:19 Wed 03-Aug-11	QC Std 1		QC Std #1	
13:02:28 Wed 03-Aug-11	QC Std 4		QC Std #4	
13:04:40 Wed 03-Aug-11	17071-12 BH		Sample	Airtech
13:06:50 Wed 03-Aug-11	17071-13 BH		Sample	Airtech
13:08:59 Wed 03-Aug-11	17071-14 BH		Sample	Airtech
13:11:08 Wed 03-Aug-11	17071-14 BH	D	Duplicate of 88	Airtech
13:13:18 Wed 03-Aug-11	17071-15 BH		Sample	Airtech
13:15:26 Wed 03-Aug-11	17071-15 BH	S	Spike - 1 of 90	Airtech
13:17:36 Wed 03-Aug-11	17071-16 BH		Sample	Airtech
13:19:45 Wed 03-Aug-11	17071-17 BH		Sample	Airtech
13:21:54 Wed 03-Aug-11	17071-18 BH		Sample	Airtech
13:24:04 Wed 03-Aug-11	17071-19 BH		Sample	Airtech
13:26:16 Wed 03-Aug-11	QC Std 1		QC Std #1	
13:28:25 Wed 03-Aug-11	QC Std 4		QC Std #4	
13:30:36 Wed 03-Aug-11	17071-20 BH		Sample	Airtech
13:32:45 Wed 03-Aug-11	17071-20 BH	D	Duplicate of 98	Airtech

13:34:55	Wed 03-Aug-11	17071-21 BH		Sample	Airtech
13:37:04	Wed 03-Aug-11	17071-21 BH	S	Spike - 1 of 10	Airtech
13:39:13	Wed 03-Aug-11	17071-22 BH		Sample	Airtech
13:41:22	Wed 03-Aug-11	17071-23 BH		Sample	Airtech
13:43:31	Wed 03-Aug-11	17071-24 BH		Sample	Airtech
13:45:41	Wed 03-Aug-11	17071-25 BH		Sample	Airtech
13:47:50	Wed 03-Aug-11	17071-26 BH		Sample	Airtech
13:49:59	Wed 03-Aug-11	17071-26 BH	D	Duplicate of 10	Airtech
13:52:10	Wed 03-Aug-11	QC Std 1		QC Std #1	
13:54:20	Wed 03-Aug-11	QC Std 4		QC Std #4	
13:56:31	Wed 03-Aug-11	17071-27 BH		Sample	Airtech
13:58:40	Wed 03-Aug-11	17071-27 BH	S	Spike - 1 of 11	Airtech
14:00:50	Wed 03-Aug-11	17071-28 BH		Sample	Airtech
14:02:59	Wed 03-Aug-11	17071-29 BH		Sample	Airtech
14:05:08	Wed 03-Aug-11	17071-30 BH		Sample	Airtech
14:07:18	Wed 03-Aug-11	17071-31 BH		Sample	Airtech
14:09:30	Wed 03-Aug-11	QC Std 1		QC Std #1	
14:11:39	Wed 03-Aug-11	QC Std 4		QC Std #4	
17:15:27	Wed 03-Aug-11	Blank		Blank	
17:17:37	Wed 03-Aug-11	Standard 1		Standard #1	
17:19:46	Wed 03-Aug-11	Standard 2		Standard #2	
17:21:55	Wed 03-Aug-11	Standard 3		Standard #3	
17:24:05	Wed 03-Aug-11	QC Std 1		QC Std #1	
17:26:15	Wed 03-Aug-11	QC Std 2		QC Std #2	
17:28:24	Wed 03-Aug-11	QC Std 3		QC Std #3	
17:30:34	Wed 03-Aug-11	QC Std 4		QC Std #4	
17:32:45	Wed 03-Aug-11	QC Std 5		QC Std #5	
17:34:54	Wed 03-Aug-11	QC Std 6		QC Std #6	
17:37:03	Wed 03-Aug-11	QC Std 7		QC Std #7	
17:39:13	Wed 03-Aug-11	QC Std 8		QC Std #8	
17:41:23	Wed 03-Aug-11	QC Std 2		Sample	Airtech
17:43:34	Wed 03-Aug-11	LRB FH		Sample	Airtech
17:45:43	Wed 03-Aug-11	LRB FH	S	Spike - 1 of 13	Airtech
17:47:54	Wed 03-Aug-11	17071-1 FH	x10	Sample	Airtech
17:50:04	Wed 03-Aug-11	17071-2 FH	x10	Sample	Airtech
17:52:13	Wed 03-Aug-11	17071-2 FH	x10d	Duplicate of 13	Airtech
17:54:22	Wed 03-Aug-11	17071-2 FH		Sample	Airtech
17:56:32	Wed 03-Aug-11	17071-2 FH	D	Duplicate of 13	Airtech
17:58:41	Wed 03-Aug-11	17071-3 FH	x10	Sample	Airtech
18:00:50	Wed 03-Aug-11	17071-3 FH	x10s	Spike - 1 of 13	Airtech
18:03:01	Wed 03-Aug-11	QC Std 1		QC Std #1	
18:05:11	Wed 03-Aug-11	QC Std 4		QC Std #4	
18:07:22	Wed 03-Aug-11	17071-4 FH	x10	Sample	Airtech
18:09:33	Wed 03-Aug-11	17071-5 FH		Sample	Airtech
18:11:44	Wed 03-Aug-11	17071-6 FH	x5	Sample	Airtech
18:13:55	Wed 03-Aug-11	17071-7 FH		Sample	Airtech
18:16:06	Wed 03-Aug-11	17071-8 FH	x10	Sample	Airtech
18:18:15	Wed 03-Aug-11	17071-8 FH	x10d	Duplicate of 14	Airtech
18:20:25	Wed 03-Aug-11	17071-9 FH	x2	Sample	Airtech
18:22:34	Wed 03-Aug-11	17071-9 FH	x2s	Spike - 1 of 14	Airtech
18:24:45	Wed 03-Aug-11	17071-10 FH		Sample	Airtech
18:26:54	Wed 03-Aug-11	17071-11 FH		Sample	Airtech
18:29:05	Wed 03-Aug-11	QC Std 1		QC Std #1	
18:31:15	Wed 03-Aug-11	QC Std 4		QC Std #4	
18:33:26	Wed 03-Aug-11	17071-12 FH		Sample	Airtech
18:35:37	Wed 03-Aug-11	17071-13 FH	x10	Sample	Airtech

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18:37:47 Wed 03-Aug-11	17071-14 FH	x2	Sample	Airtech
18:39:56 Wed 03-Aug-11	17071-14 FH	x2d	Duplicate of 15	Airtech
18:42:07 Wed 03-Aug-11	17071-15 FH		Sample	Airtech
18:44:17 Wed 03-Aug-11	17071-15 FH	S	Spike - 1 of 15	Airtech
18:46:28 Wed 03-Aug-11	17071-15 FH	x10	Sample	Airtech
18:48:37 Wed 03-Aug-11	17071-15 FH	x10s	Spike - 1 of 16	Airtech
18:50:47 Wed 03-Aug-11	17071-16 FH	x10	Sample	Airtech
18:52:58 Wed 03-Aug-11	17071-17 FH		Sample	Airtech
18:55:09 Wed 03-Aug-11	QC Std 1		QC Std #1	
18:57:18 Wed 03-Aug-11	QC Std 4		QC Std #4	
18:59:30 Wed 03-Aug-11	17071-18 FH	x10	Sample	Airtech
19:01:40 Wed 03-Aug-11	17071-19 FH		Sample	Airtech
19:03:51 Wed 03-Aug-11	17071-20 FH	x5	Sample	Airtech
19:06:01 Wed 03-Aug-11	17071-20 FH	x5d	Duplicate of 16	Airtech
19:08:10 Wed 03-Aug-11	17071-21 FH	x5	Sample	Airtech
19:10:20 Wed 03-Aug-11	17071-21 FH	x5s	Spike - 1 of 17	Airtech
19:12:31 Wed 03-Aug-11	17071-22 FH		Sample	Airtech
19:14:40 Wed 03-Aug-11	17071-23 FH		Sample	Airtech
19:16:49 Wed 03-Aug-11	17071-24 FH		Sample	Airtech
19:19:01 Wed 03-Aug-11	17071-25 FH	x10	Sample	Airtech
19:21:12 Wed 03-Aug-11	QC Std 1		QC Std #1	
19:23:21 Wed 03-Aug-11	QC Std 4		QC Std #4	
19:25:32 Wed 03-Aug-11	17071-26 FH	x10	Sample	Airtech
19:27:42 Wed 03-Aug-11	17071-26 FH	x10d	Duplicate of 17	Airtech
19:29:51 Wed 03-Aug-11	17071-27 FH	x5	Sample	Airtech
19:32:01 Wed 03-Aug-11	17071-27 FH	x5s	Spike - 1 of 18	Airtech
19:34:11 Wed 03-Aug-11	17071-28 FH		Sample	Airtech
19:36:20 Wed 03-Aug-11	17071-29 FH		Sample	Airtech
19:38:30 Wed 03-Aug-11	17071-30 FH		Sample	Airtech
19:40:39 Wed 03-Aug-11	17071-31 FH		Sample	Airtech
19:42:50 Wed 03-Aug-11	LRB BH		Sample	Airtech
19:44:59 Wed 03-Aug-11	LRB BH	S	Spike - 1 of 18	Airtech
19:47:11 Wed 03-Aug-11	QC Std 1		QC Std #1	
19:49:20 Wed 03-Aug-11	QC Std 4		QC Std #4	
19:51:31 Wed 03-Aug-11	17071-1 BH	x2	Sample	Airtech
19:53:41 Wed 03-Aug-11	17071-2 BH	x2	Sample	Airtech
19:55:50 Wed 03-Aug-11	17071-2 BH	x2d	Duplicate of 19	Airtech
19:58:00 Wed 03-Aug-11	17071-3 BH	x2	Sample	Airtech
20:00:09 Wed 03-Aug-11	17071-3 BH	x2s	Spike - 1 of 19	Airtech
20:02:19 Wed 03-Aug-11	17071-4 BH	x2	Sample	Airtech
20:04:28 Wed 03-Aug-11	17071-4 BH	x10	Sample	Airtech
20:06:37 Wed 03-Aug-11	17071-5 BH	x2	Sample	Airtech
20:08:49 Wed 03-Aug-11	17071-6 BH		Sample	Airtech
20:11:00 Wed 03-Aug-11	17071-7 BH	x2	Sample	Airtech
20:13:12 Wed 03-Aug-11	QC Std 1		QC Std #1	
20:15:21 Wed 03-Aug-11	QC Std 4		QC Std #4	
20:17:32 Wed 03-Aug-11	17071-8 BH	x2	Sample	Airtech
20:19:42 Wed 03-Aug-11	17071-8 BH	x2d	Duplicate of 20	Airtech
20:21:51 Wed 03-Aug-11	17071-9 BH	x2	Sample	Airtech
20:24:01 Wed 03-Aug-11	17071-9 BH	x2s	Spike - 1 of 20	Airtech
20:26:10 Wed 03-Aug-11	17071-10 BH	x2	Sample	Airtech
20:28:19 Wed 03-Aug-11	17071-11 BH	x2	Sample	Airtech
20:30:29 Wed 03-Aug-11	17071-12 BH	x2	Sample	Airtech
20:32:38 Wed 03-Aug-11	17071-13 BH	x2	Sample	Airtech
20:34:47 Wed 03-Aug-11	17071-14 BH	x2	Sample	Airtech
20:36:56 Wed 03-Aug-11	17071-14 BH	x2d	Duplicate of 21	Airtech

20:38:07 Wed 03-Aug-11	QC Std 1		QC Std #1
20:41:16 Wed 03-Aug-11	QC Std 4		QC Std #4
20:43:27 Wed 03-Aug-11	17071-14 BH	x10	Sample Airtech
20:45:36 Wed 03-Aug-11	17071-14 BH	x10d	Duplicate of 21Airtech
20:47:45 Wed 03-Aug-11	17071-15 BH	x2	Sample Airtech
20:49:54 Wed 03-Aug-11	17071-15 BH	x2s	Spike - 1 of 21Airtech
20:52:04 Wed 03-Aug-11	17071-15 BH	x10	Sample Airtech
20:54:12 Wed 03-Aug-11	17071-15 BH	x10s	Spike - 1 of 21Airtech
20:56:22 Wed 03-Aug-11	17071-16 BH	x2	Sample Airtech
20:58:31 Wed 03-Aug-11	17071-16 BH	x10	Sample Airtech
21:00:40 Wed 03-Aug-11	17071-17 BH	x2	Sample Airtech
21:02:50 Wed 03-Aug-11	17071-17 BH	x10	Sample Airtech
21:05:02 Wed 03-Aug-11	QC Std 1		QC Std #1
21:07:11 Wed 03-Aug-11	QC Std 4		QC Std #4
21:09:23 Wed 03-Aug-11	17071-18 BH	x2	Sample Airtech
21:11:32 Wed 03-Aug-11	17071-18 BH	x10	Sample Airtech
21:13:41 Wed 03-Aug-11	17071-19 BH	x2	Sample Airtech
21:15:51 Wed 03-Aug-11	17071-20 BH	x2	Sample Airtech
21:18:00 Wed 03-Aug-11	17071-20 BH	x2d	Duplicate of 22Airtech
21:20:09 Wed 03-Aug-11	17071-20 BH	x10	Sample Airtech
21:22:18 Wed 03-Aug-11	17071-20 BH	x10d	Duplicate of 23Airtech
21:24:27 Wed 03-Aug-11	17071-21 B H	x2	Sample Airtech
21:26:37 Wed 03-Aug-11	17071-21 BH	x2s	Spike - 1 of 23Airtech
21:28:48 Wed 03-Aug-11	17071-21 B H	x10	Sample Airtech
21:30:56 Wed 03-Aug-11	17071-21 BH	x10s	Spike - 1 of 23Airtech
21:33:07 Wed 03-Aug-11	QC Std 1		QC Std #1
21:35:17 Wed 03-Aug-11	QC Std 4		QC Std #4
21:37:29 Wed 03-Aug-11	17071-22 BH	x2	Sample Airtech
21:39:39 Wed 03-Aug-11	17071-22 BH	x10	Sample Airtech
21:41:48 Wed 03-Aug-11	17071-23 BH	x2	Sample Airtech
21:43:57 Wed 03-Aug-11	17071-23 BH	x10	Sample Airtech
21:46:06 Wed 03-Aug-11	17071-24 BH	x2	Sample Airtech
21:48:16 Wed 03-Aug-11	17071-24 BH	x10	Sample Airtech
21:50:27 Wed 03-Aug-11	17071-25 BH		Sample Airtech
21:52:36 Wed 03-Aug-11	17071-26 BH		Sample Airtech
21:54:45 Wed 03-Aug-11	17071-26 BH	D	Duplicate of 24Airtech
21:56:56 Wed 03-Aug-11	17071-27 BH	x2	Sample Airtech
21:59:05 Wed 03-Aug-11	17071-27 BH	x2s	Spike - 1 of 24Airtech
22:01:17 Wed 03-Aug-11	QC Std 1		QC Std #1
22:03:27 Wed 03-Aug-11	QC Std 4		QC Std #4
22:05:39 Wed 03-Aug-11	17071-28 BH		Sample Airtech
22:07:49 Wed 03-Aug-11	17071-29 BH	x2	Sample Airtech
22:09:59 Wed 03-Aug-11	17071-29 BH	x10	Sample Airtech
22:12:08 Wed 03-Aug-11	17071-30 BH	x2	Sample Airtech
22:14:18 Wed 03-Aug-11	17071-31 BH		Sample Airtech
22:16:30 Wed 03-Aug-11	QC Std 1		QC Std #1
22:18:40 Wed 03-Aug-11	QC Std 4		QC Std #4
08:54:13 Thu 04-Aug-11	QC Std 2		Sample Airtech
08:56:23 Thu 04-Aug-11	17071-9 FH	x5	Sample Airtech
08:58:33 Thu 04-Aug-11	17071-9 FH	x5s	Spike - 1 of 26Airtech
09:00:44 Thu 04-Aug-11	17071-20 FH	x5	Sample Airtech
09:02:53 Thu 04-Aug-11	17071-20 FH	x5d	Duplicate of 26Airtech
09:05:02 Thu 04-Aug-11	17071-21 FH	x5	Sample Airtech
09:07:11 Thu 04-Aug-11	17071-21 FH	x5s	Spike - 1 of 26Airtech
09:09:23 Thu 04-Aug-11	17071-22 FH		Sample Airtech
09:11:32 Thu 04-Aug-11	17071-23 FH		Sample Airtech



09:13:43 Thu 04-Aug-11	17071-24 FH	x2	Sample	Airtech
09:15:54 Thu 04-Aug-11	QC Std 1		QC Std #1	
09:18:03 Thu 04-Aug-11	QC Std 4		QC Std #4	
09:20:14 Thu 04-Aug-11	17071-25 FH	x10	Sample	Airtech
09:22:23 Thu 04-Aug-11	17071-26 FH	x10	Sample	Airtech
09:24:33 Thu 04-Aug-11	17071-26 FH	x10d	Duplicate of 27	Airtech
09:26:42 Thu 04-Aug-11	17071-27 FH	x5	Sample	Airtech
09:28:51 Thu 04-Aug-11	17071-27 FH	x5s	Spike - 1 of 274	Airtech
09:31:01 Thu 04-Aug-11	17071-3 BH	x10	Sample	Airtech
09:33:11 Thu 04-Aug-11	17071-3 BH	x10s	Spike - 1 of 276	Airtech
09:35:20 Thu 04-Aug-11	17071-5 BH	x5	Sample	Airtech
09:37:29 Thu 04-Aug-11	17071-9 BH	x10	Sample	Airtech
09:39:39 Thu 04-Aug-11	17071-9 BH	x10s	Spike - 1 of 276	Airtech
09:41:51 Thu 04-Aug-11	QC Std 1		QC Std #1	
09:44:00 Thu 04-Aug-11	QC Std 4		QC Std #4	
09:46:12 Thu 04-Aug-11	17071-11 BH	x10	Sample	Airtech
09:48:21 Thu 04-Aug-11	17071-15 BH	x50	Sample	Airtech
09:50:31 Thu 04-Aug-11	17071-15 BH	x50s	Spike - 1 of 284	Airtech
09:52:40 Thu 04-Aug-11	17071-21 B H	x50	Sample	Airtech
09:54:49 Thu 04-Aug-11	17071-21 BH	x50s	Spike - 1 of 286	Airtech
09:56:59 Thu 04-Aug-11	17071-27 BH	x5	Sample	Airtech
09:59:08 Thu 04-Aug-11	17071-27 BH	x5s	Spike - 1 of 286	Airtech
10:01:19 Thu 04-Aug-11	QC Std 1		QC Std #1	
10:03:29 Thu 04-Aug-11	QC Std 4		QC Std #4	
10:34:21 Thu 04-Aug-11	Blank		Blank	
10:36:30 Thu 04-Aug-11	Standard 1		Standard #1	
10:38:39 Thu 04-Aug-11	Standard 2		Standard #2	
10:40:48 Thu 04-Aug-11	Standard 3		Standard #3	
10:42:58 Thu 04-Aug-11	QC Std 1		QC Std #1	
10:45:08 Thu 04-Aug-11	QC Std 2		QC Std #2	
10:47:17 Thu 04-Aug-11	QC Std 3		QC Std #3	
10:49:27 Thu 04-Aug-11	QC Std 4		QC Std #4	
10:51:38 Thu 04-Aug-11	QC Std 5		QC Std #5	
10:53:47 Thu 04-Aug-11	QC Std 6		QC Std #6	
10:55:56 Thu 04-Aug-11	QC Std 7		QC Std #7	
10:58:06 Thu 04-Aug-11	QC Std 8		QC Std #8	
11:00:17 Thu 04-Aug-11	QC Std 2		Sample	Airtech
11:02:28 Thu 04-Aug-11	17071-3 BH	x50	Sample	Airtech
11:04:37 Thu 04-Aug-11	17071-3 BH	x50s	Spike - 1 of 306	Airtech
11:06:46 Thu 04-Aug-11	17071-9 BH	x50	Sample	Airtech
11:08:56 Thu 04-Aug-11	17071-9 BH	x50s	Spike - 1 of 307	Airtech
11:11:05 Thu 04-Aug-11	17071-15 BH	x100	Sample	Airtech
11:13:14 Thu 04-Aug-11	17071-15 BH	x100s	Spike - 1 of 306	Airtech
11:15:23 Thu 04-Aug-11	17071-21 B H	x100	Sample	Airtech
11:17:33 Thu 04-Aug-11	17071-21 BH	x100s	Spike - 1 of 311	Airtech
11:19:44 Thu 04-Aug-11	17071-27 BH	x5	Sample	Airtech
11:21:54 Thu 04-Aug-11	17071-27 BH	x5s	Spike - 1 of 311	Airtech
11:24:05 Thu 04-Aug-11	QC Std 1		QC Std #1	
11:26:14 Thu 04-Aug-11	QC Std 4		QC Std #4	

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Analyst:--dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
5		QC Std 2	Airtech	Sample		
101		LRB FH	Airtech	Sample		100
102	S	LRB FH	Airtech	Spike - 1 of 2		100
103		17071-1 FH	Airtech	Sample		100
104		17071-2 FH	Airtech	Sample		100
105	D	17071-2 FH	Airtech	Duplicate of 5		100
106		17071-3 FH	Airtech	Sample		100
107	S	17071-3 FH	Airtech	Spike - 1 of 7		100
108		17071-4 FH	Airtech	Sample		100
109		17071-5 FH	Airtech	Sample		100
110		17071-6 FH	Airtech	Sample		100
111		17071-7 FH	Airtech	Sample		100
112		17071-8 FH	Airtech	Sample		100
113	D	17071-8 FH	Airtech	Duplicate of 13		100
114		17071-9 FH	Airtech	Sample		100
115	S	17071-9 FH	Airtech	Spike - 1 of 15		100
116		17071-10 FH	Airtech	Sample		100
117		17071-11 FH	Airtech	Sample		100
118		17071-12 FH	Airtech	Sample		100
119		17071-13 FH	Airtech	Sample		100
120		17071-14 FH	Airtech	Sample		100
121	D	17071-14 FH	Airtech	Duplicate of 21		100
122		17071-15 FH	Airtech	Sample		100
123	S	17071-16 FH	Airtech	Spike - 1 of 23		100
124		17071-16 FH	Airtech	Sample		100
125		17071-17 FH	Airtech	Sample		100
126		17071-18 FH	Airtech	Sample		100
127		17071-19 FH	Airtech	Sample		100
128		17071-20 FH	Airtech	Sample		100
129	D	17071-20 FH	Airtech	Duplicate of 29		100
130		17071-21 FH	Airtech	Sample		100
131	S	17071-21 FH	Airtech	Spike - 1 of 31		100
132		17071-22 FH	Airtech	Sample		100
133		17071-23 FH	Airtech	Sample		100
134		17071-24 FH	Airtech	Sample		100
135		17071-25 FH	Airtech	Sample		100
136		17071-26 FH	Airtech	Sample		100
137	D	17071-26 FH	Airtech	Duplicate of 37		100
138		17071-27 FH	Airtech	Sample		100
139	S	17071-27 FH	Airtech	Spike - 1 of 39		100
140		17071-28 FH	Airtech	Sample		100
141		17071-29 FH	Airtech	Sample		100
142		17071-30 FH	Airtech	Sample		100
143		17071-31 FH	Airtech	Sample		100
201		LRB BH	Airtech	Sample		50
202	S	LRB BH	Airtech	Spike - 1 of 45		50
203		17071-1 BH	Airtech	Sample		50x2
204		17071-2 BH	Airtech	Sample		50x2
205	D	17071-2 BH	Airtech	Duplicate of 48		50x2
206		17071-3 BH	Airtech	Sample		50x2
207	S	17071-3 BH	Airtech	Spike - 1 of 50		50x2
208		17071-4 BH	Airtech	Sample		50x2
209		17071-5 BH	Airtech	Sample		50x2
210		17071-6 BH	Airtech	Sample		50x2
211		17071-7 BH	Airtech	Sample		50x2
212		17071-8 BH	Airtech	Sample		50x2
213	D	17071-8 BH	Airtech	Duplicate of 56		50x2
214		17071-9 BH	Airtech	Sample		50x2
215	S	17071-9 BH	Airtech	Spike - 1 of 58		50x2
216		17071-10 BH	Airtech	Sample		50x2
217		17071-11 BH	Airtech	Sample		50x2
218		17071-12 BH	Airtech	Sample		50x2
219		17071-13 BH	Airtech	Sample		50x2
220		17071-14 BH	Airtech	Sample		50x2
221	D	17071-14 BH	Airtech	Duplicate of 64		50x2
222		17071-16 BH	Airtech	Sample		50x2
223	S	17071-15 BH	Airtech	Spike - 1 of 66		50x2
224		17071-16 BH	Airtech	Sample		50x2
225		17071-17 BH	Airtech	Sample		50x2
226		17071-18 BH	Airtech	Sample		50x2
227		17071-19 BH	Airtech	Sample		50x2
228		17071-20 BH	Airtech	Sample		50x2
229	D	17071-20 BH	Airtech	Duplicate of 72		50x2
230		17071-21 B H	Airtech	Sample		50x2
231	S	17071-21 BH	Airtech	Spike - 1 of 74		50x2
232		17071-22 BH	Airtech	Sample		50x2
233		17071-23 BH	Airtech	Sample		50x2
234		17071-24 BH	Airtech	Sample		50x2
235		17071-25 BH	Airtech	Sample		50x2
236		17071-26 BH	Airtech	Sample		50x2
237	D	17071-26 BH	Airtech	Duplicate of 80		50x2
238		17071-27 BH	Airtech	Sample		50x2

*Back Half samples  
are extremely high  
in sulfates, causing  
matrix interference.*

Analyst:--dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
239	S	17071-27 BH	Airtech	Spike - 1 of 82		50x2
240		17071-28 BH	Airtech	Sample		50x2
241		17071-29 BH	Airtech	Sample		50x2
242		17071-30 BH	Airtech	Sample		50x2
243		17071-31 BH	Airtech	Sample		50x2
5		QC Std 2	Airtech	Sample		
101		LRB FH	Airtech	Sample		100
102	S	LRB FH	Airtech	Spike - 1 of 2		100
301	x10	17071-1 FH	Airtech	Sample		100
302	x10	17071-2 FH	Airtech	Sample		100
303	x10d	17071-2 FH	Airtech	Duplicate of 5		100
304		17071-2 FH	Airtech	Sample		100
305	D	17071-2 FH	Airtech	Duplicate of 7		100
306	x10	17071-3 FH	Airtech	Sample		100
307	x10s	17071-3 FH	Airtech	Spike - 1 of 9		100
308	x10	17071-4 FH	Airtech	Sample		100
309		17071-5 FH	Airtech	Sample		100
309	x5	17071-6 FH	Airtech	Sample		100
111		17071-7 FH	Airtech	Sample		100
310	x10	17071-8 FH	Airtech	Sample		100
311	x10d	17071-8 FH	Airtech	Duplicate of 15		100
312	x2	17071-9 FH	Airtech	Sample		100
313	x2s	17071-9 FH	Airtech	Spike - 1 of 17		100
116		17071-10 FH	Airtech	Sample		100
117		17071-11 FH	Airtech	Sample		100
118		17071-12 FH	Airtech	Sample		100
314	x10	17071-13 FH	Airtech	Sample		100
315	x2	17071-14 FH	Airtech	Sample		100
316	x2d	17071-14 FH	Airtech	Duplicate of 23		100
122		17071-16 FH	Airtech	Sample		100
123	S	17071-15 FH	Airtech	Spike - 1 of 25		100
317	x10	17071-15 FH	Airtech	Sample		100
318	x10s	17071-16 FH	Airtech	Spike - 1 of 27		100
319	x10	17071-16 FH	Airtech	Sample		100
125		17071-17 FH	Airtech	Sample		100
320	x10	17071-18 FH	Airtech	Sample		100
127		17071-18 FH	Airtech	Sample		100
321	x5	17071-20 FH	Airtech	Sample		100
322	x5d	17071-20 FH	Airtech	Duplicate of 33		100
323	x5	17071-21 FH	Airtech	Sample		100
324	x5s	17071-21 FH	Airtech	Spike - 1 of 35		100
132		17071-22 FH	Airtech	Sample		100
133		17071-23 FH	Airtech	Sample		100
134		17071-24 FH	Airtech	Sample		100
325	x10	17071-25 FH	Airtech	Sample		100
326	x10	17071-26 FH	Airtech	Sample		100
327	x10d	17071-26 FH	Airtech	Duplicate of 41		100
328	x5	17071-27 FH	Airtech	Sample		100
329	x5s	17071-27 FH	Airtech	Spike - 1 of 43		100
140		17071-28 FH	Airtech	Sample		100
141		17071-29 FH	Airtech	Sample		100
142		17071-30 FH	Airtech	Sample		100
143		17071-31 FH	Airtech	Sample		100
201		LRB BH	Airtech	Sample		50
202	S	LRB BH	Airtech	Spike - 1 of 49		50
330	x2	17071-1 BH	Airtech	Sample		50x2
331	x2	17071-2 BH	Airtech	Sample		50x2
332	x2d	17071-2 BH	Airtech	Duplicate of 52		50x2
333	x2	17071-3 BH	Airtech	Sample		50x2
334	x2s	17071-3 BH	Airtech	Spike - 1 of 54		50x2
335	x2	17071-4 BH	Airtech	Sample		50x2
336	x10	17071-4 BH	Airtech	Sample		50x2
337	x2	17071-5 BH	Airtech	Sample		50x2
210		17071-6 BH	Airtech	Sample		50x2
338	x2	17071-7 BH	Airtech	Sample		50x2
339	x2	17071-8 BH	Airtech	Sample		50x2
340	x2d	17071-8 BH	Airtech	Duplicate of 61		50x2
341	x2	17071-9 BH	Airtech	Sample		50x2
342	x2s	17071-9 BH	Airtech	Spike - 1 of 63		50x2
343	x2	17071-10 BH	Airtech	Sample		50x2
344	x2	17071-11 BH	Airtech	Sample		50x2
345	x2	17071-12 BH	Airtech	Sample		50x2
346	x2	17071-13 BH	Airtech	Sample		50x2
347	x2	17071-14 BH	Airtech	Sample		50x2
348	x2d	17071-14 BH	Airtech	Duplicate of 69		50x2
349	x10	17071-14 BH	Airtech	Sample		50x2
350	x10d	17071-14 BH	Airtech	Duplicate of 71		50x2

Analyst:--dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
351	x2	17071-15 BH	Airtech	Sample		50x2
352	x2s	17071-15 BH	Airtech	Spike - 1 of 73		50x2
353	x10	17071-15 BH	Airtech	Sample		50x2
354	x10s	17071-15 BH	Airtech	Spike - 1 of 75		50x2
355	x2	17071-16 BH	Airtech	Sample		50x2
356	x10	17071-16 BH	Airtech	Sample		50x2
357	x2	17071-17 BH	Airtech	Sample		50x2
358	x10	17071-17 BH	Airtech	Sample		50x2
359	x2	17071-18 BH	Airtech	Sample		50x2
360	x10	17071-18 BH	Airtech	Sample		50x2
401	x2	17071-19 BH	Airtech	Sample		50x2
402	x2	17071-20 BH	Airtech	Sample		50x2
403	x2d	17071-20 BH	Airtech	Duplicate of 84		50x2
404	x10	17071-20 BH	Airtech	Sample		50x2
405	x10d	17071-20 BH	Airtech	Duplicate of 86		50x2
406	x2	17071-21 B H	Airtech	Sample		50x2
407	x2s	17071-21 BH	Airtech	Spike - 1 of 88		50x2
408	x10	17071-21 B H	Airtech	Sample		50x2
408	x10s	17071-21 BH	Airtech	Spike - 1 of 90		50x2
410	x2	17071-22 BH	Airtech	Sample		50x2
411	x10	17071-22 BH	Airtech	Sample		50x2
412	x2	17071-23 BH	Airtech	Sample		50x2
413	x10	17071-23 BH	Airtech	Sample		50x2
414	x2	17071-24 BH	Airtech	Sample		50x2
415	x10	17071-24 BH	Airtech	Sample		50x2
235		17071-25 BH	Airtech	Sample		50x2
236		17071-26 BH	Airtech	Sample		50x2
237	D	17071-26 BH	Airtech	Duplicate of 99		50x2
416	x2	17071-27 BH	Airtech	Sample		50x2
417	x2s	17071-27 BH	Airtech	Spike - 1 of 101		50x2
240		17071-28 BH	Airtech	Sample		50x2
418	x2	17071-29 BH	Airtech	Sample		50x2
419	x10	17071-29 BH	Airtech	Sample		50x2
420	x2	17071-30 BH	Airtech	Sample		50x2
243		17071-31 BH	Airtech	Sample		50x2
6		QC Std 2	Airtech	Sample		
101	x5	17071-8 FH	Airtech	Sample		100
102	x5s	17071-8 FH	Airtech	Spike - 1 of 109		100
321	x5	17071-20 FH	Airtech	Sample		100
322	x5d	17071-20 FH	Airtech	Duplicate of 111		100
323	x5	17071-21 FH	Airtech	Sample		100
324	x5s	17071-21 FH	Airtech	Spike - 1 of 113		100
132		17071-22 FH	Airtech	Sample		100
133		17071-23 FH	Airtech	Sample		100
103	x2	17071-24 FH	Airtech	Sample		100
325	x10	17071-25 FH	Airtech	Sample		100
326	x10	17071-26 FH	Airtech	Sample		100
327	x10d	17071-26 FH	Airtech	Duplicate of 119		100
328	x5	17071-27 FH	Airtech	Sample		100
329	x5s	17071-27 FH	Airtech	Spike - 1 of 121		100
104	x10	17071-3 BH	Airtech	Sample		50x2
105	x10s	17071-3 BH	Airtech	Spike - 1 of 123		50x2
106	x5	17071-6 BH	Airtech	Sample		50x2
107	x10	17071-6 BH	Airtech	Sample		50x2
108	x10s	17071-6 BH	Airtech	Spike - 1 of 126		50x2
109	x10	17071-11 BH	Airtech	Sample		50x2
110	x50	17071-15 BH	Airtech	Sample		50x2
111	x50s	17071-15 BH	Airtech	Spike - 1 of 129		50x2
112	x50	17071-21 B H	Airtech	Sample		50x2
113	x50s	17071-21 BH	Airtech	Spike - 1 of 131		50x2
114	x5	17071-27 BH	Airtech	Sample		50x2
115	x5s	17071-27 BH	Airtech	Spike - 1 of 133		50x2
5		QC Std 2	Airtech	Sample		
425	x50	17071-3 BH	Airtech	Sample		50x2
426	x50s	17071-3 BH	Airtech	Spike - 1 of 136		50x2
427	x50	17071-9 BH	Airtech	Sample		50x2
428	x50s	17071-9 BH	Airtech	Spike - 1 of 138		50x2
429	x100	17071-15 BH	Airtech	Sample		50x2
430	x100s	17071-15 BH	Airtech	Spike - 1 of 140		50x2
431	x100	17071-21 B H	Airtech	Sample		50x2
432	x100s	17071-21 BH	Airtech	Spike - 1 of 142		50x2
114	x5	17071-27 BH	Airtech	Sample		50x2
115	x5s	17071-27 BH	Airtech	Spike - 1 of 144		50x2
Spikes are post at 0.02mL of 25ppm spiking solutions lot 021411-A&B in a final volume of 10mL						
Submitted for QC by:		Date/Time:		QC Review By:		Date/Time:
dbw		8/4/11 11:54		DBW		8/19/11 1000
Re-Test Required:		No: <input checked="" type="checkbox"/> Yes: <input type="checkbox"/>		Comments:		
Resubmitted for QC by:		Date/Time:		QC Review:	By:	Date/Time:

LAN Instrument Control Session | Quantitative Analysis Method | C:\wladat\_top\Method\lv8\_meth (From Dqtest)\Method 301

File Edit Analysis Options Automation Window Help

Method Sample Database Realtime Interactive CalView AptOption RptView SmartTune Optimize Tuning Instrument Device Scheduler

Timing Processing Equation Calibration Sampling 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 Ba	137.005	50	1	25	1	100	1			
2 Sr	44.0552	50	1	25	1	100	1			
3 Rb	51.4405	50	1	25	1	100	1			
4 K	57.9317	50	1	25	1	100	1			
5 Na	54.3554	50	1	25	1	100	1			
6 Li	58.9332	50	1	25	1	100	1			
7 B	57.9371	50	1	25	1	100	1			
8 Al	74.9216	50	1	25	1	100	1			
9 S	76.6309	50	1	25	1	100	1			
10 Fe	81.9167	50	1	25	1	100	1			
11 Cd	111.969	50	1	25	1	100	1			
12 Si	117.964	50	1	25	1	100	1			
13 Sn	120.964	50	1	25	1	100	1			
14 Pb	127.964	50	1	25	1	100	1			
15 Ag	207.977	50	1	25	1	100	1			
16										

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

Thursday, Aug 04, 2011 11:50 AM

## Sample/Batch Report

User Name: icp  
 Computer Name: ICP-MS  
 Sample File: C:\elandata\_icp\Sample\1.sam  
 Report Date/Time: Wednesday, August 10, 2011 08:36:26

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					
101		LRB BH	Airtech	Sample					
102	S	LRB BH	Airtech	Spike - 1 of 2					
103		17071-1 BH	Airtech	Sample					
104		17071-2 BH	Airtech	Sample					
105	D	17071-2 BH	Airtech	Duplicate of 5					
106		17071-3 BH	Airtech	Sample					
107	S	17071-3 BH	Airtech	Spike - 1 of 7					
108		17071-4 BH	Airtech	Sample					
109		17071-5 BH	Airtech	Sample					
110		17071-6 BH	Airtech	Sample					
111		17071-7 BH	Airtech	Sample					
112		17071-8 BH	Airtech	Sample					
113	D	17071-8 BH	Airtech	Duplicate of 13					
114		17071-9 BH	Airtech	Sample					
115	S	17071-9 BH	Airtech	Spike - 1 of 15					
116		17071-10 BH	Airtech	Sample					
117		17071-11 BH	Airtech	Sample					
118		17071-12 BH	Airtech	Sample					
119		17071-13 BH	Airtech	Sample					
120		17071-14 BH	Airtech	Sample					
121	D	17071-14 BH	Airtech	Duplicate of 21					
122		17071-15 BH	Airtech	Sample					
123	S	17071-15 BH	Airtech	Spike - 1 of 23					
124		17071-16 BH	Airtech	Sample					
125		17071-17 BH	Airtech	Sample					
126		17071-18 BH	Airtech	Sample					
127		17071-19 BH	Airtech	Sample					
128		17071-20 BH	Airtech	Sample					
129	D	17071-20 BH	Airtech	Duplicate of 29					
130		17071-21 B	Airtech	Sample					
131	S	17071-21 BH	Airtech	Spike - 1 of 31					
132		17071-22 BH	Airtech	Sample					
133		17071-23 BH	Airtech	Sample					
134		17071-24 BH	Airtech	Sample					
135		17071-25 BH	Airtech	Sample					
136		17071-26 BH	Airtech	Sample					
137	D	17071-26 BH	Airtech	Duplicate of 37					
138		17071-27 BH	Airtech	Sample					
139	S	17071-27 BH	Airtech	Spike - 1 of 39					
140		17071-28 BH	Airtech	Sample					
141		17071-29 BH	Airtech	Sample					
142		17071-30 BH	Airtech	Sample					
143		17071-31 BH	Airtech	Sample					
144	x10	17071-21 B	Airtech	Sample					
145	x10s	17071-21 BH	Airtech	Spike - 1 of 45					

# Dataset Report

User Name: icp  
Computer Name: ICP-MS  
Dataset File Path: C:\elandata\_icp\DataSet\080911-2\  
Report Date/Time: Wednesday, August 10, 2011 08:36:22

Autosampler Position: 3

## The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Int. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
18:10:00 Tue 09-Aug-11	Blank		Blank					
18:12:06 Tue 09-Aug-11	Standard 1		Standard #1					
18:14:12 Tue 09-Aug-11	Standard 2		Standard #2					
18:16:18 Tue 09-Aug-11	Standard 3		Standard #3					
18:18:25 Tue 09-Aug-11	QC Std 1		QC Std #1					
18:20:31 Tue 09-Aug-11	QC Std 2		QC Std #2					
18:22:37 Tue 09-Aug-11	QC Std 3		QC Std #3					
18:24:45 Tue 09-Aug-11	QC Std 4		QC Std #4					
18:26:52 Tue 09-Aug-11	QC Std 5		QC Std #5					
18:28:59 Tue 09-Aug-11	QC STD 2		Sample					
18:31:07 Tue 09-Aug-11	LRB BH		Sample	Airtech				
18:33:13 Tue 09-Aug-11	LRB BH	S	Spike - 1 of 11	Airtech				
18:35:19 Tue 09-Aug-11	17071-1 BH		Sample	Airtech				
18:37:25 Tue 09-Aug-11	17071-2 BH		Sample	Airtech				
18:39:32 Tue 09-Aug-11	17071-2 BH	D	Duplicate of 14	Airtech				
18:41:38 Tue 09-Aug-11	17071-3 BH		Sample	Airtech				
18:43:44 Tue 09-Aug-11	17071-3 BH	S	Spike - 1 of 18	Airtech				
18:45:50 Tue 09-Aug-11	17071-4 BH		Sample	Airtech				
18:47:56 Tue 09-Aug-11	17071-5 BH		Sample	Airtech				
18:50:05 Tue 09-Aug-11	QC Std 1		QC Std #1					
18:52:11 Tue 09-Aug-11	QC Std 4		QC Std #4					
18:54:20 Tue 09-Aug-11	17071-6 BH		Sample	Airtech				
18:56:26 Tue 09-Aug-11	17071-7 BH		Sample	Airtech				
18:58:32 Tue 09-Aug-11	17071-8 BH		Sample	Airtech				
19:00:38 Tue 09-Aug-11	17071-8 BH	D	Duplicate of 24	Airtech				
19:02:45 Tue 09-Aug-11	17071-9 BH		Sample	Airtech				
19:04:51 Tue 09-Aug-11	17071-9 BH	S	Spike - 1 of 26	Airtech				
19:06:57 Tue 09-Aug-11	17071-10 BH		Sample	Airtech				
19:09:03 Tue 09-Aug-11	17071-11 BH		Sample	Airtech				
19:11:09 Tue 09-Aug-11	17071-12 BH		Sample	Airtech				
19:13:15 Tue 09-Aug-11	17071-13 BH		Sample	Airtech				
19:15:24 Tue 09-Aug-11	QC Std 1		QC Std #1					
19:17:30 Tue 09-Aug-11	QC Std 4		QC Std #4					
19:19:36 Tue 09-Aug-11	17071-14 BH		Sample	Airtech				
19:21:45 Tue 09-Aug-11	17071-14 BH	D	Duplicate of 34	Airtech				
19:23:51 Tue 09-Aug-11	17071-15 BH		Sample	Airtech				
19:25:58 Tue 09-Aug-11	17071-15 BH	S	Spike - 1 of 36	Airtech				
19:28:04 Tue 09-Aug-11	17071-16 BH		Sample	Airtech				
19:30:10 Tue 09-Aug-11	17071-17 BH		Sample	Airtech				
19:32:16 Tue 09-Aug-11	17071-18 BH		Sample	Airtech				
19:34:22 Tue 09-Aug-11	17071-19 BH		Sample	Airtech				
19:36:28 Tue 09-Aug-11	17071-20 BH		Sample	Airtech				
19:38:35 Tue 09-Aug-11	17071-20 BH	D	Duplicate of 42	Airtech				

*All samples are  
at a X5 dilution.  
Run on H<sub>2</sub>SO<sub>4</sub> Curve.*

19:40:43 Tue 09-Aug-11	QC Std 1		QC Std #1
19:42:46 Tue 09-Aug-11	QC Std 4		QC Std #4
19:44:57 Tue 09-Aug-11	17071-21 B H		Sample Airtech
19:47:04 Tue 09-Aug-11	17071-21 BH	S	Spike - 1 of 46 Airtech
19:49:10 Tue 09-Aug-11	17071-22 BH		Sample Airtech
19:51:16 Tue 09-Aug-11	17071-23 BH		Sample Airtech
19:53:22 Tue 09-Aug-11	17071-24 BH		Sample Airtech
19:55:26 Tue 09-Aug-11	17071-25 BH		Sample Airtech
19:57:34 Tue 09-Aug-11	17071-26 BH		Sample Airtech
19:59:41 Tue 09-Aug-11	17071-26 BH	D	Duplicate of 52 Airtech
20:01:47 Tue 09-Aug-11	17071-27 BH		Sample Airtech
20:03:53 Tue 09-Aug-11	17071-27 BH	S	Spike - 1 of 54 Airtech
20:06:01 Tue 09-Aug-11	QC Std 1		QC Std #1
20:08:06 Tue 09-Aug-11	QC Std 4		QC Std #4
20:10:16 Tue 09-Aug-11	17071-28 BH		Sample Airtech
20:12:22 Tue 09-Aug-11	17071-29 BH		Sample Airtech
20:14:28 Tue 09-Aug-11	17071-30 BH		Sample Airtech
20:16:34 Tue 09-Aug-11	17071-31 BH		Sample Airtech
20:18:42 Tue 09-Aug-11	QC Std 1		QC Std #1
20:20:48 Tue 09-Aug-11	QC Std 4		QC Std #4
08:06:15 Wed 10-Aug-11	17071-21 B H	x10	Sample Airtech
08:08:22 Wed 10-Aug-11	17071-21 BH	x10s	Spike - 1 of 54 Airtech
08:10:30 Wed 10-Aug-11	QC Std 1		QC Std #1
08:12:37 Wed 10-Aug-11	QC Std 4		QC Std #4



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+
<i>Lithium</i>	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	B	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	Mg	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	
<i>Scandium</i>	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	Cr	1	100	500	0	1	250	100		10		0	50	100
Iron	54	Fe	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	59	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	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	68	Zn	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	Mo	1	100	500	0	1	250	100				0	50	100
Molybdenum	97	Mo	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	Ag	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	Cd	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	Sb	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
<i>Cesium</i>	133														
Barium	135	Ba	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

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Wednesday, August 03, 2011 10:00:53

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	103127.2		ppb
- Be	9	6		ppb
- Sc	45	321888.2		ppb
- Cr	52	17718.9		ppb
- Cr	53	48921.4		ppb
- Mn	55	15188.7		ppb
- Co	59	137		ppb
- Ni	60	495.7		ppb
- As	75	-278.2		ppb
- Se	77	5506		ppb
- Se	82	26.5		ppb
> Rh	103	767617.1		ppb
- Cd	111	12.9		ppb
- Cd	114	23.7		ppb
- Sb	121	174.7		ppb
- Sb	123	137.3		ppb
> Ho	165	1248144.8		ppb
- Pb	208	4110.7		ppb
- Kr	83	115.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Wednesday, August 03, 2011 10:03:02

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	113518.4		ppb
- Be	9	754	1.08212	ppb
- Sc	45	347430.3		ppb
- Cr	52	33379.8	0.96517	ppb
- Cr	53	48999	-2.19535	ppb
- Mn	55	41531	1.08532	ppb
- Co	59	19403.4	1.13104	ppb
- Ni	60	4445.8	1.04749	ppb
- As	75	3147.5	1.11982	ppb
- Se	77	5524.3	-1.88402	ppb
- Se	82	345.5	1.06961	ppb
> Rh	103	830495.8		ppb
- Cd	111	4184.4	1.05915	ppb
- Cd	114	9816.3	1.12711	ppb
- Sb	121	14830.8	1.18054	ppb
- Sb	123	11254.6	1.05624	ppb
> Ho	165	1363278.6		ppb
- Pb	208	69971.1	1.1503	ppb
- Kr	83	-169.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Wednesday, August 03, 2011 10:05:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	106105.5		ppb
- Be	9	66596.4	103.15716	ppb
- Sc	45	327218.4		ppb
- Cr	52	1458786.8	103.60728	ppb
- Cr	53	214511.4	97.60204	ppb
- Mn	55	2235654	101.61581	ppb
- Co	59	1744617.5	108.46461	ppb
- Ni	60	363199.4	102.85743	ppb
- As	75	295601.3	101.64738	ppb
- Se	77	27179.2	99.64028	ppb
- Se	82	28583	102	ppb
> Rh	103	784480.6		ppb
- Cd	111	380385.7	102.26352	ppb
- Cd	114	892808.2	108.79536	ppb
- Sb	121	1320306.8	111.79359	ppb
- Sb	123	1015838.4	101.45968	ppb
> Ho	165	1298245.1		ppb
- Pb	208	5614556.6	103.50565	ppb
- Kr	83	-23644.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Wednesday, August 03, 2011 10:07:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	97588.9		ppb
Be	9	296453.8	499.3684	ppb
Sc	45	303829		ppb
Cr	52	6139250.6	474.24065	ppb
Cr	53	829603.6	500.48598	ppb
Mn	55	10149905	499.67667	ppb
Co	59	7439614.3	498.30682	ppb
Ni	60	1635183.7	499.42842	ppb
As	75	1349950.9	499.67028	ppb
Se	77	105636.6	500.07771	ppb
Se	82	129863.4	499.59986	ppb
Rh	103	728295.4		ppb
Cd	111	1724944.7	499.54718	ppb
Cd	114	3795667.1	498.24067	ppb
Sb	121	5758580.4	497.64092	ppb
Sb	123	4411406.2	449.6755	ppb
Hg	165	1272004.1		ppb
Pb	208	25193603	474.26165	ppb
Kr	83	-109660		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 10:09:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	96659.8		ppb
Be	9	19	0.02278	ppb
Sc	45	295823.2		ppb
Cr	52	15467.5	-0.07987	ppb
Cr	53	40534.2	-3.23492	ppb
Mn	55	15114.6	0.04981	ppb
Co	59	579.7	0.03094	ppb
Ni	60	527.7	0.02083	ppb
As	75	73	0.12499	ppb
Se	77	4245.7	-4.44473	ppb
Se	82	39.1	0.05648	ppb
Rh	103	713870.9		ppb
Cd	111	97.6	0.02532	ppb
Cd	114	235.9	0.02867	ppb
Sb	121	419.3	0.02264	ppb
Sb	123	295.8	0.01737	ppb
Hg	165	1213174.5		ppb
Pb	208	6074.5	0.04107	ppb
Kr	83	123.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Wednesday, August 03, 2011 10:11:40

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	101012.6		ppb
Be	9	689.7	1.11245	ppb
Sc	45	306246.5		ppb
Cr	52	31183.1	1.03022	ppb
Cr	53	43437.9	-2.85694	ppb
Mn	55	38155.6	1.10592	ppb
Co	59	17965.7	1.15316	ppb
Ni	60	4091.9	1.06334	ppb
As	75	3075.6	1.19624	ppb
Se	77	4694.2	-3.44197	ppb
Se	82	300.4	1.01925	ppb
Rh	103	754244.5		ppb
Cd	111	3976.3	1.10819	ppb
Cd	114	9380	1.18592	ppb
Sb	121	13852.9	1.1876	ppb
Sb	123	10542.1	1.06546	ppb
Hg	165	1266305.3		ppb
Pb	208	65262.2	1.15568	ppb
Kr	83	-124.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Wednesday, August 03, 2011 10:13:49

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	99482.2		ppb
Be	9	153365.9	253.46246	ppb
Sc	45	303276.7		ppb
Cr	52	3098733.1	237.07245	ppb
Cr	53	431519.9	244.17744	ppb
Mn	55	5025786.4	245.34188	ppb
Co	59	3713249.1	246.93517	ppb
Ni	60	811976.3	246.17312	ppb
As	75	674252.1	247.84513	ppb
Se	77	54095.5	241.48365	ppb
Se	82	64763	247.31298	ppb
Rh	103	733507.1		ppb
Cd	111	867734.4	249.50518	ppb
Cd	114	1900988.2	247.77568	ppb
Sb	121	2883749.2	252.05651	ppb
Sb	123	2207476	227.58429	ppb
Ho	165	1257594.6		ppb
Pb	208	12713275	242.01756	ppb
Kr	83	-55264.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 10:16:00

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	100129.6		ppb
Be	9	63899.2	104.88736	ppb
Sc	45	307639.6		ppb
Cr	52	1399955.5	105.52154	ppb
Cr	53	202813.1	98.01677	ppb
Mn	55	2136993.8	103.07942	ppb
Co	59	1660270.1	109.54845	ppb
Ni	60	341828.4	102.74157	ppb
As	75	280668.2	102.42479	ppb
Se	77	25528.1	99.2362	ppb
Se	82	27530.1	104.26513	ppb
Rh	103	739347.6		ppb
Cd	111	367407.1	104.81242	ppb
Cd	114	852745.8	110.273	ppb
Sb	121	1292334.3	112.24578	ppb
Sb	123	986572.9	101.07008	ppb
Ho	165	1265510.2		ppb
Pb	208	5559786.1	105.13821	ppb
Kr	83	-22785.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date: Wednesday, August 03, 2011 10:18:10

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	100323.1		ppb
Be	9	30575.7	50.08951	ppb
Sc	45	302780.8		ppb
Cr	52	662299.8	49.36665	ppb
Cr	53	117236.2	44.32842	ppb
Mn	55	1093670.5	52.54202	ppb
Co	59	792128.4	52.38743	ppb
Ni	60	165678.6	49.8421	ppb
As	75	133971.5	49.05798	ppb
Se	77	14067.2	43.16911	ppb
Se	82	12594.7	47.76116	ppb
Rh	103	737430.5		ppb
Cd	111	174840.9	50.00148	ppb
Cd	114	410076.5	53.15839	ppb
Sb	121	614826.3	53.84659	ppb
Sb	123	468852.4	48.43439	ppb
Ho	165	1254782.2		ppb
Pb	208	2729333.4	52.01294	ppb
Kr	83	126.4		mg/L

## PerkinElmer ELAN 6100 ICP-MS

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Da: Wednesday, August 03, 2011 10:20:19

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	110047.3		ppb
- Be	9	12.3	0.00883	ppb
- Sc	45	372429.2		ppb
- Cr	52	30391.1	0.77872	ppb
- Cr	53	40513.1	-6.77712	ppb
- Mn	55	108044.9	3.99807	ppb
- Co	59	17536.6	1.02946	ppb
- Ni	60	12685.5	3.2816	ppb
- As	75	-131.9	0.05425	ppb
- Se	77	6700.5	3.48091	ppb
- Se	82	-12.3	-0.13849	ppb
> Rh	103	823953.5		ppb
> Cd	111	1738.7	0.44167	ppb
- Cd	114	9368.6	1.08401	ppb
- Sb	121	1914.5	0.12618	ppb
- Sb	123	1484	0.11515	ppb
> Ho	165	1486552.3		ppb
- Pb	208	46655.4	0.67283	ppb
- Kr	83	67		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Da: Wednesday, August 03, 2011 10:22:29

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	92102.3		ppb
- Be	9	1289.1	2.29095	ppb
- Sc	45	306273.4		ppb
- Cr	52	179463.5	13.16458	ppb
- Cr	53	58494.6	9.23594	ppb
- Mn	55	310100.1	15.19717	ppb
- Co	59	347481	24.20681	ppb
- Ni	60	71357.7	22.5396	ppb
- As	75	33758.9	13.09497	ppb
- Se	77	8715.8	19.16197	ppb
- Se	82	3293.5	13.09166	ppb
> Rh	103	699867.1		ppb
- Cd	111	25282.4	7.61696	ppb
- Cd	114	64563.2	8.81687	ppb
- Sb	121	33402.9	2.89784	ppb
- Sb	123	25609.8	2.62032	ppb
> Ho	165	1260393.1		ppb
- Pb	208	149049.2	2.75318	ppb
- Kr	83	-565.8		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Da: Wednesday, August 03, 2011 10:24:38

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	154540.9		ppb
- Be	9	274.7	0.28248	ppb
- Sc	45	464296.5		ppb
- Cr	52	37001.8	0.53225	ppb
- Cr	53	66138	-2.60297	ppb
- Mn	55	43773.5	0.67125	ppb
- Co	59	7774.7	0.32477	ppb
- Ni	60	17577.3	3.29467	ppb
- As	75	1256.7	0.3953	ppb
- Se	77	8347.5	0.59814	ppb
- Se	82	106.1	0.16469	ppb
> Rh	103	1137470.6		ppb
- Cd	111	1759.7	0.32292	ppb
- Cd	114	3946.3	0.32877	ppb
- Sb	121	6994.7	0.38528	ppb
- Sb	123	5335.1	0.34624	ppb
> Ho	165	1919091		ppb
- Pb	208	65388.2	0.73714	ppb
- Kr	83	-22.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Wednesday, August 03, 2011 10:26:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	100450			ppb
Be	9	668.7	1.08553		ppb
Sc	45	300223.9			ppb
Cr	52	33058	1.20162		ppb
Cr	53	50499.9	1.89204		ppb
Mn	55	36551.3	1.05141		ppb
Co	59	17714.9	1.15131		ppb
Ni	60	4080.2	1.07496		ppb
As	75	3335.8	1.30483		ppb
Se	77	5975.6	3.07915		ppb
Se	82	315.2	1.08902		ppb
Rh	103	744885.6			ppb
Cd	111	3865.6	1.09102		ppb
Cd	114	9351.3	1.1872		ppb
Sb	121	13933	1.19238		ppb
Sb	123	10570.1	1.06649		ppb
Ho	165	1268113.4			ppb
Pb	208	65745.1	1.16274		ppb
Kr	83	-139.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 10:28:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	118800.3			ppb
Be	9	9	0.00288		ppb
Sc	45	361380.2			ppb
Cr	52	208693.6	12.65103		ppb
Cr	53	37683.7	-8.86563		ppb
Mn	55	83490.7	2.84264		ppb
Co	59	2042.2	0.10938		ppb
Ni	60	19043.6	4.87838		ppb
As	75	268.4	0.18323		ppb
Se	77	804	-22.55536		ppb
Se	82	42.5	0.04459		ppb
Rh	103	843692.7			ppb
Cd	111	299.5	0.07133		ppb
Cd	114	349.6	0.03666		ppb
Sb	121	18797.1	1.43634		ppb
Sb	123	14243.9	1.28357		ppb
Ho	165	1423320.6			ppb
Pb	208	90328	1.44111		ppb
Kr	83	6.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 10:31:09

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	114887.5			ppb
Be	9	29571	42.29962		ppb
Sc	45	353638.9			ppb
Cr	52	817202.8	52.02327		ppb
Cr	53	107981	28.46223		ppb
Mn	55	1357673.8	55.67496		ppb
Co	59	913726.4	51.54496		ppb
Ni	60	194678.8	49.95535		ppb
As	75	132562.1	41.42021		ppb
Se	77	9138.3	12.31457		ppb
Se	82	11272.3	36.43759		ppb
Rh	103	864596.3			ppb
Cd	111	179665.5	43.8261		ppb
Cd	114	423283.8	46.80113		ppb
Sb	121	513361.9	39.89208		ppb
Sb	123	395057.1	36.20725		ppb
Ho	165	1414227.6			ppb
Pb	208	3079918.9	52.07972		ppb
Kr	83	28.6			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 FH

Sample Da: Wednesday, August 03, 2011 10:33:18

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	96492.7		ppb
- Be	9	732.7	1.23852	ppb
- Sc	45	457482.7		ppb
- Cr	52	1394052.6	133.00916	ppb
- Cr	53	174101.7	108.5869	ppb
- Mn	55	1875720.6	114.38091	ppb
- Co	59	88709.6	7.37781	ppb
- Ni	60	1084610.9	411.63066	ppb
- As	75	241287.2	111.109	ppb
- Se	77	161955.4	976.63178	ppb
- Se	82	217367.9	1039.549	ppb
> Rh	103	585873.8		ppb
- Cd	111	8161	2.93533	ppb
- Cd	114	13810.3	2.24921	ppb
- Sb	121	606890.1	58.00819	ppb
- Sb	123	467017.5	52.66339	ppb
> Ho	165	1149551.7		ppb
- Pb	208	2041957.6	42.46605	ppb
- Kr	83	-16180		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da: Wednesday, August 03, 2011 10:39:46

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	102954.1		ppb
- Be	9	1495.1	2.37801	ppb
- Sc	45	727703.1		ppb
- Cr	52	1933147.9	143.48289	ppb
- Cr	53	236122.4	117.29362	ppb
- Mn	55	36229380	1724.5391	ppb
- Co	59	174451.9	11.27729	ppb
- Ni	60	496201.4	146.28918	ppb
- As	75	286084.1	102.30162	ppb
- Se	77	265185.8	1249.9695	ppb
- Se	82	340758.8	1266.4261	ppb
> Rh	103	753477.3		ppb
- Cd	111	24231.4	6.77438	ppb
- Cd	114	16484.7	2.08869	ppb
- Sb	121	161022.7	13.56172	ppb
- Sb	123	122833.4	12.20393	ppb
> Ho	165	1303292.3		ppb
- Pb	208	2181053.8	40.00788	ppb
- Kr	83	-148012.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da: Wednesday, August 03, 2011 10:41:55

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	89964.1		ppb
- Be	9	22853.7	41.74186	ppb
- Sc	45	629114.9		ppb
- Cr	52	2125436.1	183.69007	ppb
- Cr	53	270119.1	164.28744	ppb
- Mn	55	32285497	1787.8129	ppb
- Co	59	761472.2	57.29623	ppb
- Ni	60	551308.7	189.09373	ppb
- As	75	346254.6	144.04276	ppb
- Se	77	240294.7	1318.4897	ppb
- Se	82	307384.7	1328.7916	ppb
> Rh	103	648161.6		ppb
- Cd	111	140943.3	45.8591	ppb
- Cd	114	300120.9	44.26619	ppb
- Sb	121	648380	60.47617	ppb
- Sb	123	492363.4	54.16684	ppb
> Ho	165	1178284.9		ppb
- Pb	208	4280567	86.92657	ppb
- Kr	83	-131922.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 FH

Sample Date: Wednesday, August 03, 2011 10:44:04

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	101260.5			ppb
Be	9	788.4	1.27036		ppb
Sc	45	391245.9			ppb
Cr	52	635842.2	63.22897		ppb
Cr	53	79477.6	36.89975		ppb
Mn	55	1712877.7	109.92983		ppb
Co	59	63537.7	5.56748		ppb
Ni	60	218220	87.20479		ppb
As	75	316011.8	153.26378		ppb
Se	77	108155.1	679.64689		ppb
Se	82	140616.1	708.73029		ppb
Rh	103	555932.6			ppb
Cd	111	4632.6	1.75437		ppb
Cd	114	7018.3	1.20388		ppb
Sb	121	78771	7.5684		ppb
Sb	123	60405.2	6.84714		ppb
Ho	165	1141829.2			ppb
Pb	208	1437807.2	30.08314		ppb
Kr	83	-6829.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 FH

Sample Date: Wednesday, August 03, 2011 10:46:14

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	92210.2			ppb
Be	9	1118.7	1.98451		ppb
Sc	45	1196760.7			ppb
Cr	52	2942679	211.59482		ppb
Cr	53	377586.6	195.69887		ppb
Mn	55	6563401	301.51311		ppb
Co	59	186085.2	11.62766		ppb
Ni	60	388497.9	110.67668		ppb
As	75	144061.6	49.88111		ppb
Se	77	17863.2	57.08692		ppb
Se	82	22700.3	81.45637		ppb
Rh	103	779806.1			ppb
Cd	111	72465.6	19.59289		ppb
Cd	114	118666.3	14.5453		ppb
Sb	121	151216.2	13.70842		ppb
Sb	123	116014.9	12.4048		ppb
Ho	165	1211217.8			ppb
Pb	208	2860628.5	56.50291		ppb
Kr	83	-331213.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 10:48:25

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	97424.4			ppb
Be	9	5.7	0.00001		ppb
Sc	45	353088.4			ppb
Cr	52	14965.3	-0.27343		ppb
Cr	53	34346.5	-10.1734		ppb
Mn	55	20297	0.1773		ppb
Co	59	263.3	0.00693		ppb
Ni	60	730	0.05409		ppb
As	75	36.7	0.10974		ppb
Se	77	4273.3	-7.12467		ppb
Se	82	74.9	0.15846		ppb
Rh	103	820486.8			ppb
Cd	111	47.8	0.0087		ppb
Cd	114	92.9	0.00784		ppb
Sb	121	202	0.00089		ppb
Sb	123	154.3	0.00036		ppb
Ho	165	1368127.3			ppb
Pb	208	7177.8	0.04669		ppb
Kr	83	54.2			mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 10:50:35

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	98719.1		ppb
- Be	9	63277.2	105.35184	ppb
- Sc	45	362209.9		ppb
- Cr	52	1510653.7	99.30421	ppb
- Cr	53	219599.5	90.9908	ppb
- Mn	55	2455405.1	103.36206	ppb
- Co	59	1891954.1	108.93527	ppb
- Ni	60	395928	103.84086	ppb
- As	75	315522.3	100.47644	ppb
- Se	77	28339.8	95.30289	ppb
- Se	82	32444.5	107.22447	ppb
> Rh	103	847136.8		ppb
- Cd	111	419699.6	104.49312	ppb
- Cd	114	992364.8	111.98898	ppb
- Sb	121	1452446.8	112.6955	ppb
- Sb	123	1110399.6	101.62603	ppb
> Ho	165	1416599.4		ppb
- Pb	208	6019183	101.68455	ppb
- Kr	83	-26791.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Date: Wednesday, August 03, 2011 10:57:05

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	109233.6		ppb
- Be	9	188.3	0.27374	ppb
- Sc	45	471603.6		ppb
- Cr	52	1749500.4	102.24231	ppb
- Cr	53	220720.2	78.08369	ppb
- Mn	55	53332300	2007.8391	ppb
- Co	59	147364.8	7.53139	ppb
- Ni	60	687290.2	160.26848	ppb
- As	75	91443	25.94373	ppb
- Se	77	18768.4	45.37235	ppb
- Se	82	25626.6	75.22746	ppb
> Rh	103	953600.5		ppb
- Cd	111	19929.8	4.40533	ppb
- Cd	114	37237.6	3.73283	ppb
- Sb	121	275174.5	18.90289	ppb
- Sb	123	209358.4	16.96342	ppb
> Ho	165	1598873.2		ppb
- Pb	208	1804237	26.94635	ppb
- Kr	83	-7336.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Date: Wednesday, August 03, 2011 10:59:15

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	103258.7		ppb
- Be	9	189	0.29152	ppb
- Sc	45	451870.5		ppb
- Cr	52	1731784.9	105.38498	ppb
- Cr	53	220009.5	82.11516	ppb
- Mn	55	54617246	2139.4116	ppb
- Co	59	149887.1	7.9671	ppb
- Ni	60	702417.7	170.41012	ppb
- As	75	91343	26.96821	ppb
- Se	77	18985.5	49.15391	ppb
- Se	82	25652.5	78.37681	ppb
> Rh	103	916177.1		ppb
- Cd	111	20302	4.66788	ppb
- Cd	114	37190.5	3.87398	ppb
- Sb	121	270618.3	19.80268	ppb
- Sb	123	206390	17.81469	ppb
> Ho	165	1500845.9		ppb
- Pb	208	1633418.4	25.99006	ppb
- Kr	83	-7297.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Wednesday, August 03, 2011 11:01:24

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	82693.8		ppb
-	Be	9	70	0.12956	ppb
-	Sc	45	2300081.4		ppb
-	Cr	52	232066.1	18.59074	ppb
-	Cr	53	37900.4	-2.77875	ppb
-	Mn	55	355083.7	18.51826	ppb
-	Co	59	11330.2	0.83425	ppb
-	Ni	60	44746.1	15.03163	ppb
-	As	75	20940.8	8.69679	ppb
-	Se	77	4230.7	-2.72895	ppb
-	Se	82	4963.4	20.90249	ppb
>	Rh	103	655096.9		ppb
-	Cd	111	2237.5	0.71758	ppb
-	Cd	114	765.5	0.10985	ppb
-	Sb	121	211980.3	19.17543	ppb
-	Sb	123	162364.3	17.32038	ppb
>	Ho	165	1209710.9		ppb
-	Pb	208	263152.8	5.13392	ppb
-	Kr	83	-3450.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Wednesday, August 03, 2011 11:03:33

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	57190		ppb
-	Be	9	14396.4	41.3589	ppb
-	Sc	45	1588297.5		ppb
-	Cr	52	596225.4	68.69759	ppb
-	Cr	53	80399.6	48.20007	ppb
-	Mn	55	853596.5	63.05545	ppb
-	Co	59	492175.2	49.97211	ppb
-	Ni	60	135941.6	62.82021	ppb
-	As	75	85678.8	48.17091	ppb
-	Se	77	6676.8	24.34191	ppb
-	Se	82	8068.5	46.94107	ppb
>	Rh	103	480432.5		ppb
-	Cd	111	86970.2	38.17025	ppb
-	Cd	114	197960.6	39.37727	ppb
-	Sb	121	567070.3	63.05821	ppb
-	Sb	123	432601	56.73757	ppb
>	Ho	165	988031.7		ppb
-	Pb	208	2408274.5	58.32346	ppb
-	Kr	83	-2245.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 FH

Sample Da Wednesday, August 03, 2011 11:12:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	54522.3		ppb
-	Be	9	71.3	0.20527	ppb
-	Sc	45	498500.5		ppb
-	Cr	52	3521424.5	362.77958	ppb
-	Cr	53	448592.2	352.94046	ppb
-	Mn	55	1037881.8	67.59235	ppb
-	Co	59	124231.5	11.09725	ppb
-	Ni	60	685054.7	279.21964	ppb
-	As	75	154537.4	76.45641	ppb
-	Se	77	144433.3	934.07053	ppb
-	Se	82	194280.2	997.81069	ppb
>	Rh	103	545515.2		ppb
-	Cd	111	7523.2	2.90445	ppb
-	Cd	114	13259.4	2.3205	ppb
-	Sb	121	159331.9	15.51102	ppb
-	Sb	123	122439.3	14.06103	ppb
>	Ho	165	1127933.9		ppb
-	Pb	208	3986201.1	84.56007	ppb
-	Kr	83	-3636.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 11:14:22

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	38840.5			ppb
Be	9	3.3	0.00457		ppb
Sc	45	159436.3			ppb
Cr	52	7307.6	-0.39519		ppb
Cr	53	22582.4	-6.54173		ppb
Mn	55	6597.4	-0.1895		ppb
Co	59	76	-0.00054		ppb
Ni	60	300.3	0.00328		ppb
As	75	-204.2	-0.02298		ppb
Se	77	3020.2	-1.91265		ppb
Se	82	-17.9	-0.20844		ppb
Rh	103	454664.5			ppb
Cd	111	17.2	0.00443		ppb
Cd	114	13.8	-0.00005		ppb
Sb	121	65.3	-0.00756		ppb
Sb	123	51.4	-0.00701		ppb
Hg	165	918464.5			ppb
Pb	208	3345.6	0.00836		ppb
Kr	83	135.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 11:16:31

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	39644.2			ppb
Be	9	26859.6	111.34646		ppb
Sc	45	169583.7			ppb
Cr	52	726983.4	84.16224		ppb
Cr	53	111670.4	78.63924		ppb
Mn	55	1056134.8	78.30976		ppb
Co	59	953395.7	96.9065		ppb
Ni	60	205808.1	95.2765		ppb
As	75	161157.4	90.60911		ppb
Se	77	14133.6	80.81275		ppb
Se	82	15433.1	90.02861		ppb
Rh	103	479874.9			ppb
Cd	111	227186.8	99.84483		ppb
Cd	114	526459.8	104.87522		ppb
Sb	121	818690.6	91.64655		ppb
Sb	123	623187.7	82.29071		ppb
Hg	165	981717.4			ppb
Pb	208	4424281	107.86318		ppb
Kr	83	-13162.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Date: Wednesday, August 03, 2011 11:18:43

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	52910			ppb
Be	9	53.3	0.15591		ppb
Sc	45	695466.7			ppb
Cr	52	2852293.4	324.01323		ppb
Cr	53	366097.4	314.78617		ppb
Mn	55	2161017.6	156.15495		ppb
Co	59	56165.4	5.53028		ppb
Ni	60	496039.8	223.01315		ppb
As	75	104066.1	56.79495		ppb
Se	77	77945.7	545.42701		ppb
Se	82	103064.4	583.69343		ppb
Rh	103	494559.3			ppb
Cd	111	12083.5	5.1483		ppb
Cd	114	24843.6	4.79918		ppb
Sb	121	56325.7	6.1478		ppb
Sb	123	42674.6	5.49278		ppb
Hg	165	1004573.2			ppb
Pb	208	3022873.2	71.98722		ppb
Kr	83	-2787.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-14 FH  
 Sample Date: Wednesday, August 03, 2011 11:20:52  
 Sample Date Airtech  
 Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
Li	6	50575.3			ppb
Be	9	38.7	0.11634		ppb
Sc	45	640429.3			ppb
Cr	52	2695911.9	321.80521		ppb
Cr	53	346347.5	312.78583		ppb
Mn	55	2020291.4	153.4078		ppb
Co	59	53887	5.57552		ppb
Ni	60	476612.3	225.13683		ppb
As	75	98946.2	56.74654		ppb
Se	77	72687.1	534.05944		ppb
Se	82	97157.9	578.30563		ppb
Rh	103	470657.4			ppb
Cd	111	11396.7	5.10312		ppb
Cd	114	23103.7	4.6899		ppb
Sb	121	53405.8	6.25139		ppb
Sb	123	40497	5.59058		ppb
Hg	165	937011.2			ppb
Pb	208	2824114.7	72.10792		ppb
Kr	83	-2626.8			mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-15 FH  
 Sample Date: Wednesday, August 03, 2011 11:23:02  
 Sample Date Airtech  
 Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
Li	6	41224.5			ppb
Be	9	51.3	0.19448		ppb
Sc	45	252713.6			ppb
Cr	52	1754479.5	227.62265		ppb
Cr	53	219062.7	206.1439		ppb
Mn	55	2922042.3	241.95614		ppb
Co	59	54349.4	6.12257		ppb
Ni	60	430194.3	221.23412		ppb
As	75	124529.9	77.71331		ppb
Se	77	109561	892.97656		ppb
Se	82	147152	953.53906		ppb
Rh	103	432321.9			ppb
Cd	111	15408.2	7.5136		ppb
Cd	114	31307.4	6.91971		ppb
Sb	121	78208.8	10.41329		ppb
Sb	123	59509.9	9.34479		ppb
Hg	165	824366.2			ppb
Pb	208	1145041.6	33.18477		ppb
Kr	83	-2231.2			mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-15 FH  
 Sample Date: Wednesday, August 03, 2011 11:25:11  
 Sample Date Airtech  
 Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
Li	6	39536.7			ppb
Be	9	11091.4	46.09972		ppb
Sc	45	264557			ppb
Cr	52	2016855.1	267.01256		ppb
Cr	53	256373.4	251.69919		ppb
Mn	55	3210578.3	271.15307		ppb
Co	59	480855.7	55.30405		ppb
Ni	60	505069.2	264.85447		ppb
As	75	181778.3	115.63		ppb
Se	77	109391.2	909.57053		ppb
Se	82	148004.9	964.68316		ppb
Rh	103	424053.3			ppb
Cd	111	96804	48.14229		ppb
Cd	114	219660.2	49.5201		ppb
Sb	121	366313.1	52.96513		ppb
Sb	123	295191.3	47.73757		ppb
Hg	165	801728.7			ppb
Pb	208	2817921.4	84.10751		ppb
Kr	83	-2137			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 FH

Sample Da Wednesday, August 03, 2011 11:27:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	38284.4		ppb
-	Be	9	152.3	0.64445	ppb
-	Sc	45	283787.3		ppb
-	Cr	52	3883898.1	523.9255	ppb
-	Cr	53	494458.5	521.95992	ppb
-	Mn	55	2777421.6	238.3423	ppb
-	Co	59	140129	16.37502	ppb
-	Ni	60	1052273.6	561.04238	ppb
-	As	75	259050.5	167.46869	ppb
-	Se	77	77792.1	650.33424	ppb
-	Se	82	103873.2	697.64542	ppb
>	Rh	103	417171.8		ppb
>	Cd	111	18337.6	9.26779	ppb
-	Cd	114	38515.7	8.82388	ppb
-	Sb	121	159310.9	21.08992	ppb
-	Sb	123	121894.3	19.03269	ppb
>	Hg	165	829834.8		ppb
-	Pb	208	2038337.8	58.74588	ppb
-	Kr	83	-6624.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 FH

Sample Da Wednesday, August 03, 2011 11:31:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	46190.1		ppb
-	Be	9	213.7	0.75079	ppb
-	Sc	45	416632.4		ppb
-	Cr	52	1604813.8	176.25235	ppb
-	Cr	53	196394.1	149.58607	ppb
-	Mn	55	948694.5	66.08971	ppb
-	Co	59	65461.2	6.25317	ppb
-	Ni	60	236819.7	103.19095	ppb
-	As	75	249453.6	131.94467	ppb
-	Se	77	103381.6	709.28401	ppb
-	Se	82	135829.8	746.39322	ppb
>	Rh	103	509908.6		ppb
>	Cd	111	16523.5	6.83125	ppb
-	Cd	114	18785.7	3.51933	ppb
-	Sb	121	114941.9	13.6344	ppb
-	Sb	123	87696.6	12.27036	ppb
>	Hg	165	925752.7		ppb
-	Pb	208	1579167.9	40.7761	ppb
-	Kr	83	-98710.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 FH

Sample Da Wednesday, August 03, 2011 11:33:48

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intent	Conc.	Meas	Report Unit
>	Li	6	47569.9		ppb
-	Be	9	228.3	0.77914	ppb
-	Sc	45	510652.2		ppb
-	Cr	52	1710656.6	193.07631	ppb
-	Cr	53	207632.6	164.9573	ppb
-	Mn	55	1261284.2	90.53156	ppb
-	Co	59	50399.3	4.94492	ppb
-	Ni	60	307006.9	137.49412	ppb
-	As	75	65494.7	35.65506	ppb
-	Se	77	13433.9	72.13095	ppb
-	Se	82	17160.8	96.78234	ppb
>	Rh	103	496504.8		ppb
>	Cd	111	9020.1	3.82928	ppb
-	Cd	114	16157.1	3.10789	ppb
-	Sb	121	99648.8	10.73763	ppb
-	Sb	123	73474.8	9.34274	ppb
>	Hg	165	1018241		ppb
-	Pb	208	1719092.1	40.35404	ppb
-	Kr	83	-3911.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Date: Wednesday, August 03, 2011 11:35:57

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	46616.9			ppb
Be	9	55.7	0.18698		ppb
Sc	45	549848.5			ppb
Cr	52	846321.5	98.25767		ppb
Cr	53	105943.6	73.15318		ppb
Mn	55	586138.2	43.17681		ppb
Co	59	21349.4	2.16305		ppb
Ni	60	193270.5	89.52732		ppb
As	75	36008.3	21.45767		ppb
Se	77	10652.6	54.54632		ppb
Se	82	13505.7	78.8212		ppb
Rh	103	479545.9			ppb
Cd	111	6812.7	2.9924		ppb
Cd	114	12347.4	2.45843		ppb
Sb	121	145018.5	16.55148		ppb
Sb	123	111406	14.99561		ppb
Ho	165	962415.6			ppb
Pb	208	20292582	504.91436		ppb
Kr	83	-3121.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Date: Wednesday, August 03, 2011 11:38:07

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	46071.3			ppb
Be	9	54.7	0.1857		ppb
Sc	45	519000.1			ppb
Cr	52	804061.1	96.92963		ppb
Cr	53	100974.5	72.09675		ppb
Mn	55	555969.6	42.51851		ppb
Co	59	20267.2	2.13226		ppb
Ni	60	165002	79.35795		ppb
As	75	37576.4	22.02985		ppb
Se	77	10449.7	56.04997		ppb
Se	82	13179.3	79.8626		ppb
Rh	103	461776.3			ppb
Cd	111	6726.3	3.06874		ppb
Cd	114	11783	2.4365		ppb
Sb	121	141400.5	16.85296		ppb
Sb	123	108112.6	15.19899		ppb
Ho	165	921507			ppb
Pb	208	19542628	507.78374		ppb
Kr	83	-3038.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 11:40:18

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	35082.6			ppb
Be	9	4.3	0.01076		ppb
Sc	45	126981.8			ppb
Cr	52	7344	-0.26572		ppb
Cr	53	24108.3	-1.5878		ppb
Mn	55	5829.9	-0.18679		ppb
Co	59	70	-0.00016		ppb
Ni	60	302.3	0.02456		ppb
As	75	108.9	0.17098		ppb
Se	77	3081.5	1.94709		ppb
Se	82	3	-0.07622		ppb
Rh	103	399740			ppb
Cd	111	20.1	0.00705		ppb
Cd	114	19.1	0.00163		ppb
Sb	121	89.3	-0.00259		ppb
Sb	123	54.4	-0.00509		ppb
Ho	165	766762.4			ppb
Pb	208	4669.8	0.08679		ppb
Kr	83	107.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 11:42:28

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	36250.1			ppb
- Be	9	22607.4	102.49659		ppb
- Sc	45	133319.1			ppb
- Cr	52	600744.7	81.11846		ppb
- Cr	53	98667.7	82.03141		ppb
- Mn	55	865659.6	74.88041		ppb
- Co	59	800457.1	94.94952		ppb
- Ni	60	177018.9	95.64111		ppb
- As	75	140306.9	92.0489		ppb
- Se	77	12578.4	84.93866		ppb
- Se	82	12848.2	87.47535		ppb
> Rh	103	411388.7			ppb
- Cd	111	189198	97.02164		ppb
- Cd	114	440664.6	102.43332		ppb
- Sb	121	685679.6	95.0127		ppb
- Sb	123	524149.6	85.67144		ppb
> Ho	165	793173.6			ppb
- Pb	208	3697584.2	111.56544		ppb
- Kr	83	-11483.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 11:44:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	37288.9			ppb
- Be	9	41.7	0.17436		ppb
- Sc	45	216646.5			ppb
- Cr	52	1106879.9	147.7313		ppb
- Cr	53	140836.5	126.77516		ppb
- Mn	55	554014.5	46.78704		ppb
- Co	59	23942.8	2.77857		ppb
- Ni	60	226104.2	119.92958		ppb
- As	75	30796.4	19.90923		ppb
- Se	77	10114.6	61.54559		ppb
- Se	82	13035.4	87.08423		ppb
> Rh	103	419022.1			ppb
- Cd	111	4270.6	2.14616		ppb
- Cd	114	5734.4	1.30548		ppb
- Sb	121	715261.4	91.90265		ppb
- Sb	123	547335.5	82.95116		ppb
> Ho	165	855517.2			ppb
- Pb	208	1105944.7	30.87835		ppb
- Kr	83	-2785.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 11:46:48

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	39624.9			ppb
- Be	9	11278.3	46.78228		ppb
- Sc	45	219913.8			ppb
- Cr	52	1474303.8	187.76563		ppb
- Cr	53	182074.9	162.95871		ppb
- Mn	55	1089852	88.24184		ppb
- Co	59	494509.4	54.82351		ppb
- Ni	60	326223.9	164.83888		ppb
- As	75	97635.2	59.91161		ppb
- Se	77	14387	92.5976		ppb
- Se	82	18435.8	117.3393		ppb
> Rh	103	439927.9			ppb
- Cd	111	99347.9	47.62238		ppb
- Cd	114	225321.5	48.9594		ppb
- Sb	121	1072790.6	131.91909		ppb
- Sb	123	823175.6	119.41237		ppb
> Ho	165	893768.3			ppb
- Pb	208	3168184.2	84.81795		ppb
- Kr	83	-2790.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 FH

Sample Date: Wednesday, August 03, 2011 11:55:25

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	38183.1			ppb
Be	9	152.7	0.64776		ppb
Sc	45	367607.5			ppb
Cr	52	1183456.5	159.69541		ppb
Cr	53	146499.9	134.69042		ppb
Mn	55	3747590	323.72007		ppb
Co	59	103005.7	12.10347		ppb
Ni	60	1611497.9	864.30923		ppb
As	75	68085.3	44.36397		ppb
Se	77	48998.7	402.45176		ppb
Se	82	65262.9	440.90928		ppb
Rh	103	414762.1			ppb
Cd	111	19695.7	10.01326		ppb
Cd	114	41302.5	9.51869		ppb
Sb	121	113882.4	14.9678		ppb
Sb	123	87163.4	13.51312		ppb
Ho	165	835457.7			ppb
Pb	208	1558062	44.58297		ppb
Kr	83	-5534.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Date: Wednesday, August 03, 2011 11:57:35

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	40793.2			ppb
Be	9	78	0.30475		ppb
Sc	45	521757.2			ppb
Cr	52	2229249.7	320.2248		ppb
Cr	53	285263.3	309.75225		ppb
Mn	55	2783328.4	254.79076		ppb
Co	59	766519.4	95.58124		ppb
Ni	60	4655157	2647.7101		ppb
As	75	48546.1	33.5466		ppb
Se	77	32022.6	270.90268		ppb
Se	82	42419.6	303.79756		ppb
Rh	103	391139			ppb
Cd	111	6848.8	3.68947		ppb
Cd	114	12572.7	3.0699		ppb
Sb	121	415349.1	58.78272		ppb
Sb	123	317644.5	53.0257		ppb
Ho	165	776535.9			ppb
Pb	208	924460.7	28.43203		ppb
Kr	83	-4385.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Date: Wednesday, August 03, 2011 11:59:44

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	46779.7			ppb
Be	9	81.7	0.27781		ppb
Sc	45	504397.5			ppb
Cr	52	2169301.9	281.71475		ppb
Cr	53	278458.1	270.02219		ppb
Mn	55	2700883.6	223.56431		ppb
Co	59	750124.4	84.6071		ppb
Ni	60	4553483.6	2342.7822		ppb
As	75	46543.1	29.10772		ppb
Se	77	31490.4	238.10789		ppb
Se	82	41068.7	266.04652		ppb
Rh	103	432407.5			ppb
Cd	111	6679	3.25412		ppb
Cd	114	12407.7	2.74029		ppb
Sb	121	406562.7	52.75884		ppb
Sb	123	310473.2	47.52145		ppb
Ho	165	846867.5			ppb
Pb	208	891493.3	25.13113		ppb
Kr	83	-4309.8			mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Date: Wednesday, August 03, 2011 12:01:54

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	42690.2			ppb
Be	9	45	0.16368		ppb
Sc	45	257116.6			ppb
Cr	52	434407.2	55.42242		ppb
Cr	53	56141.6	30.79653		ppb
Mn	55	511615.1	41.80188		ppb
Co	59	37717.4	4.24915		ppb
Ni	60	276603.1	142.25524		ppb
As	75	45976.6	28.77748		ppb
Se	77	30037.5	226.05553		ppb
Se	82	40643.2	263.47536		ppb
Rh	103	432215.2			ppb
Cd	111	3601.5	1.7537		ppb
Cd	114	5244	1.15684		ppb
Sb	121	19238.3	2.46495		ppb
Sb	123	14792.4	2.23531		ppb
Ho	165	852610.1			ppb
Pb	208	326551.3	9.09367		ppb
Kr	83	-3918.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Date: Wednesday, August 03, 2011 12:04:03

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	40999.7			ppb
Be	9	10630.5	42.62372		ppb
Sc	45	249122.4			ppb
Cr	52	734845	96.38497		ppb
Cr	53	92171.3	71.41992		ppb
Mn	55	935478.5	78.4333		ppb
Co	59	439814	50.53897		ppb
Ni	60	356679	186.83242		ppb
As	75	107358.2	68.27064		ppb
Se	77	34293.2	267.02811		ppb
Se	82	45257	298.69355		ppb
Rh	103	424408.7			ppb
Cd	111	87142.7	43.3022		ppb
Cd	114	198850	44.78616		ppb
Sb	121	349619.7	46.55006		ppb
Sb	123	287353.4	41.98567		ppb
Ho	165	825403.6			ppb
Pb	208	2055126.9	59.55186		ppb
Kr	83	-3868.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 12:06:14

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	34927.7			ppb
Be	9	4.7	0.0123		ppb
Sc	45	114575.6			ppb
Cr	52	6930	-0.25929		ppb
Cr	53	22803.8	-1.59319		ppb
Mn	55	5791.9	-0.15574		ppb
Co	59	198.3	0.01707		ppb
Ni	60	872.7	0.3736		ppb
As	75	-203.9	-0.04918		ppb
Se	77	2898.8	2.03638		ppb
Se	82	20.4	0.05518		ppb
Rh	103	374816.4			ppb
Cd	111	32.1	0.01446		ppb
Cd	114	66.5	0.014		ppb
Sb	121	180.3	0.01278		ppb
Sb	123	128.7	0.00947		ppb
Ho	165	699865.5			ppb
Pb	208	2915.2	0.02075		ppb
Kr	83	94.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 12:08:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36521.4		ppb
Be	9	21577.6	97.11775	ppb
Sc	45	122564.4		ppb
Cr	52	546977.4	78.28351	ppb
Cr	53	90105	78.482	ppb
Mn	55	773274.3	70.89117	ppb
Co	59	740311.8	93.12417	ppb
Ni	60	165578.6	94.85846	ppb
As	75	131707.7	91.62977	ppb
Se	77	11747.6	83.85111	ppb
Se	82	11662.2	84.18154	ppb
Rh	103	387805.2		ppb
Cd	111	178848.7	97.27301	ppb
Cd	114	418453.4	103.15782	ppb
Sb	121	639787.4	95.56515	ppb
Sb	123	483990.9	85.26749	ppb
Ho	165	736034.8		ppb
Pb	208	3401253.1	110.59926	ppb
Kr	83	-10773.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Wednesday, August 03, 2011 12:19:13

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	50633.4		ppb
Be	9	7.3	0.01426	ppb
Sc	45	162748.7		ppb
Cr	52	44563.1	3.77153	ppb
Cr	53	9997.6	-20.27333	ppb
Mn	55	52530.4	3.09632	ppb
Co	59	1052.4	0.09484	ppb
Ni	60	6396.9	2.72868	ppb
As	75	265.3	0.24198	ppb
Se	77	361.3	-23.36991	ppb
Se	82	49.4	0.18231	ppb
Rh	103	495490.9		ppb
Cd	111	245.9	0.10109	ppb
Cd	114	417.6	0.07759	ppb
Sb	121	540036.4	65.30195	ppb
Sb	123	411100.3	58.63641	ppb
Ho	165	908869.9		ppb
Pb	208	72104.8	1.82116	ppb
Kr	83	74.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Wednesday, August 03, 2011 12:21:23

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	51544.8		ppb
Be	9	10765.7	34.3287	ppb
Sc	45	164592.8		ppb
Cr	52	368209.9	40.61329	ppb
Cr	53	47853.7	15.27723	ppb
Mn	55	543183.6	38.64596	ppb
Co	59	454907.3	44.76531	ppb
Ni	60	104466.1	46.75814	ppb
As	75	58187.1	31.73896	ppb
Se	77	3847.1	2.13991	ppb
Se	82	4626	26.0596	ppb
Rh	103	495574.4		ppb
Cd	111	86570.2	36.83918	ppb
Cd	114	200425.1	38.65965	ppb
Sb	121	329910.9	39.37669	ppb
Sb	123	251648	35.42849	ppb
Ho	165	920632.7		ppb
Pb	208	1914297.3	49.71777	ppb
Kr	83	64.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 BH

Sample Da Wednesday, August 03, 2011 12:23:32

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38429.2		ppb
Be	9	21.3	0.0818	ppb
Sc	45	92749.1		ppb
Cr	52	90836	24.44586	ppb
Cr	53	18469.8	13.63993	ppb
Mn	55	163829.2	28.83793	ppb
Co	59	31458.7	7.70026	ppb
Ni	60	23321.3	25.89595	ppb
As	75	59449.8	80.5309	ppb
Se	77	29726.2	515.55344	ppb
Se	82	46942.3	660.73503	ppb
Rh	103	199087.6		ppb
Cd	111	617	0.65167	ppb
Cd	114	786.5	0.36735	ppb
Sb	121	6475.6	2.74012	ppb
Sb	123	4855.5	2.42221	ppb
Ho	165	258309.6		ppb
Pb	208	117873.4	10.84887	ppb
Kr	83	2415.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 12:25:41

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	44642.6		ppb
Be	9	25	0.08294	ppb
Sc	45	107950.6		ppb
Cr	52	306260.2	72.93532	ppb
Cr	53	41253.1	52.85939	ppb
Mn	55	385891.9	58.81993	ppb
Co	59	18646.1	3.90018	ppb
Ni	60	49202.9	46.88127	ppb
As	75	53094.5	61.55378	ppb
Se	77	36544.7	543.62615	ppb
Se	82	54116.6	651.54079	ppb
Rh	103	232727.5		ppb
Cd	111	623.1	0.56174	ppb
Cd	114	557.9	0.22333	ppb
Sb	121	6857.3	2.4462	ppb
Sb	123	5178	2.17852	ppb
Ho	165	306196.8		ppb
Pb	208	107303.4	8.31336	ppb
Kr	83	1301.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 12:27:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	39933.7		ppb
Be	9	27.3	0.10276	ppb
Sc	45	95416.5		ppb
Cr	52	307354.2	83.28691	ppb
Cr	53	40494	62.28818	ppb
Mn	55	388606.1	67.36008	ppb
Co	59	18847.5	4.4761	ppb
Ni	60	48404.7	52.38264	ppb
As	75	55368.2	72.87358	ppb
Se	77	36623.3	622.03389	ppb
Se	82	54901.2	750.43104	ppb
Rh	103	204962.3		ppb
Cd	111	595.8	0.60932	ppb
Cd	114	729.6	0.33695	ppb
Sb	121	6778.5	2.73317	ppb
Sb	123	5104.6	2.42729	ppb
Ho	165	271074.9		ppb
Pb	208	107656.2	9.43229	ppb
Kr	83	1048.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da: Wednesday, August 03, 2011 12:30:00

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
>	Li	6	40050.2		ppb
-	Be	9	27.7	0.10393	ppb
-	Sc	45	88933.9		ppb
-	Cr	52	122849.9	31.6106	ppb
-	Cr	53	18526.9	11.29335	ppb
-	Mn	55	257182.1	43.13829	ppb
-	Co	59	5265.5	1.211	ppb
-	Ni	60	21114.2	22.15022	ppb
-	As	75	70416.1	90.16991	ppb
-	Se	77	40273	667.6262	ppb
-	Se	82	62733.5	834.58629	ppb
>	Rh	103	210588.6		ppb
-	Cd	111	651.6	0.6483	ppb
-	Cd	114	549.7	0.24842	ppb
-	Sb	121	7240.9	2.91298	ppb
-	Sb	123	5499	2.60876	ppb
>	Ho	165	271810.6		ppb
-	Pb	208	52003.9	4.50268	ppb
-	Kr	83	1078.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da: Wednesday, August 03, 2011 12:32:10

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
>	Li	6	39833.2		ppb
-	Be	9	11132.2	45.92264	ppb
-	Sc	45	87900		ppb
-	Cr	52	289295.4	77.56748	ppb
-	Cr	53	37767	55.30218	ppb
-	Mn	55	494291.2	85.05233	ppb
-	Co	59	222851.5	52.52156	ppb
-	Ni	60	71735.6	76.97042	ppb
-	As	75	167950.6	218.82919	ppb
-	Se	77	46068.5	781.56355	ppb
-	Se	82	70598.5	956.05226	ppb
>	Rh	103	206926		ppb
-	Cd	111	26267.7	26.78172	ppb
-	Cd	114	59160.2	27.33957	ppb
-	Sb	121	162781.7	66.40257	ppb
-	Sb	123	123216.9	59.28498	ppb
>	Ho	165	269416.4		ppb
-	Pb	208	487795.3	43.28093	ppb
-	Kr	83	842.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 12:34:22

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
>	Li	6	36043.3		ppb
-	Be	9	7	0.02232	ppb
-	Sc	45	88025.7		ppb
-	Cr	52	4911	-0.4216	ppb
-	Cr	53	13778.1	-9.27454	ppb
-	Mn	55	4164	-0.23539	ppb
-	Co	59	90	0.00524	ppb
-	Ni	60	256.3	0.03736	ppb
-	As	75	133.2	0.2099	ppb
-	Se	77	2615	4.13653	ppb
-	Se	82	-139.7	-1.34161	ppb
>	Rh	103	314735		ppb
-	Cd	111	43.7	0.0258	ppb
-	Cd	114	37.9	0.00853	ppb
-	Sb	121	90.7	0.00435	ppb
-	Sb	123	51.5	-0.00103	ppb
>	Ho	165	505158		ppb
-	Pb	208	1909.1	0.01166	ppb
-	Kr	83	259.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 12:36:31

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	37338.3		ppb
- Be	9	21068.7	92.74951	ppb
- Sc	45	90692.2		ppb
- Cr	52	417421.1	73.44851	ppb
- Cr	53	64165	65.13346	ppb
- Mn	55	591662.3	66.72138	ppb
- Co	59	575226.7	89.06385	ppb
- Ni	60	129278.1	91.15769	ppb
- As	75	102193.2	87.51616	ppb
- Se	77	9450.9	82.78027	ppb
- Se	82	9223.5	81.95181	ppb
> Rh	103	315047.5		ppb
- Cd	111	141626.1	94.81065	ppb
- Cd	114	325054.9	98.63837	ppb
- Sb	121	494422.3	107.48165	ppb
- Sb	123	377307.3	96.75079	ppb
> Ho	165	505620.5		ppb
- Pb	208	2173824.3	102.88759	ppb
- Kr	83	-8698.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Date: Wednesday, August 03, 2011 12:38:43

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	43183.6		ppb
- Be	9	13.3	0.0417	ppb
- Sc	45	96799.7		ppb
- Cr	52	67623.2	14.8387	ppb
- Cr	53	11405.8	-7.16418	ppb
- Mn	55	137990.2	20.25073	ppb
- Co	59	9954.5	2.04461	ppb
- Ni	60	26829.3	25.1057	ppb
- As	75	94714.1	108.01667	ppb
- Se	77	114943.8	1738.1229	ppb
- Se	82	158894.1	1884.2431	ppb
> Rh	103	236298.9		ppb
- Cd	111	2181.3	1.94469	ppb
- Cd	114	4145.5	1.67447	ppb
- Sb	121	44911.4	15.91574	ppb
- Sb	123	33944.8	14.18714	ppb
> Ho	165	309878.5		ppb
- Pb	208	77966.5	5.9469	ppb
- Kr	83	1129.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Date: Wednesday, August 03, 2011 12:40:52

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	45756.4		ppb
- Be	9	114.7	0.40171	ppb
- Sc	45	127608.1		ppb
- Cr	52	328869.5	60.76566	ppb
- Cr	53	40822.2	33.8902	ppb
- Mn	55	5253911.8	630.43727	ppb
- Co	59	47040.1	7.66811	ppb
- Ni	60	154130	114.57783	ppb
- As	75	78381.4	70.76122	ppb
- Se	77	32206.6	364.75148	ppb
- Se	82	45601.5	427.40499	ppb
> Rh	103	298887.8		ppb
- Cd	111	1922.8	1.35331	ppb
- Cd	114	3610.6	1.15181	ppb
- Sb	121	10352.2	2.48162	ppb
- Sb	123	7981.2	2.25633	ppb
> Ho	165	455913.1		ppb
- Pb	208	284542.8	14.86536	ppb
- Kr	83	-279.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Date: Wednesday, August 03, 2011 12:45:11

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	36609.8		ppb
Be	9	12.7	0.04699	ppb
Sc	45	90376.1		ppb
Cr	52	126470.7	32.37555	ppb
Cr	53	17066.4	7.83766	ppb
Mn	55	100114.2	16.2582	ppb
Co	59	5806.5	1.32738	ppb
Ni	60	26713.2	27.9109	ppb
As	75	35690.6	45.4865	ppb
Se	77	16901.7	263.38946	ppb
Se	82	29346.7	388.04287	ppb
Rh	103	211831.3		ppb
Cd	111	601.8	0.59558	ppb
Cd	114	381	0.16759	ppb
Sb	121	4427.1	1.68425	ppb
Sb	123	3363.7	1.5091	ppb
Ho	165	286276.2		ppb
Pb	208	65090.2	5.36756	ppb
Kr	83	846.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Wednesday, August 03, 2011 12:47:20

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	35671.5		ppb
Be	9	14	0.05505	ppb
Sc	45	85022.7		ppb
Cr	52	70305.2	17.98843	ppb
Cr	53	10436.7	-6.03562	ppb
Mn	55	149931.9	25.46191	ppb
Co	59	4941.7	1.16298	ppb
Ni	60	15466.2	16.58165	ppb
As	75	49374.7	64.78356	ppb
Se	77	29024.3	485.90142	ppb
Se	82	46264.8	630.21291	ppb
Rh	103	205653.5		ppb
Cd	111	1976.2	2.0262	ppb
Cd	114	4147.9	1.92517	ppb
Sb	121	9114.6	3.71427	ppb
Sb	123	6841.7	3.28867	ppb
Ho	165	268616.8		ppb
Pb	208	82158.9	7.24883	ppb
Kr	83	1021.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Wednesday, August 03, 2011 12:49:30

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	35899		ppb
Be	9	13.3	0.05258	ppb
Sc	45	83750.6		ppb
Cr	52	70614.9	18.20629	ppb
Cr	53	10434.7	-5.86783	ppb
Mn	55	150854	25.82191	ppb
Co	59	5797.2	1.37986	ppb
Ni	60	14946.3	16.13612	ppb
As	75	49459.3	65.3781	ppb
Se	77	29091.2	490.73905	ppb
Se	82	46266	634.87918	ppb
Rh	103	204174.3		ppb
Cd	111	1903.5	1.96354	ppb
Cd	114	3730.3	1.74458	ppb
Sb	121	9088.9	3.71684	ppb
Sb	123	6878.2	3.31836	ppb
Ho	165	267656.1		ppb
Pb	208	81322.5	7.19793	ppb
Kr	83	971.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da: Wednesday, August 03, 2011 12:51:39

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	32052		ppb
- Be	9	13.7	0.06052	ppb
- Sc	45	75288		ppb
- Cr	52	74109.6	21.11858	ppb
- Cr	53	10810.1	-2.67341	ppb
- Mn	55	91623.8	16.92661	ppb
- Co	59	4470.5	1.16798	ppb
- Ni	60	15355	18.17598	ppb
- As	75	58613.9	84.79218	ppb
- Se	77	35996.2	673.97629	ppb
- Se	82	56471.8	848.43553	ppb
> Rh	103	186482.7		ppb
- Cd	111	335.4	0.37586	ppb
- Cd	114	119.3	0.05691	ppb
- Sb	121	5341.9	2.36259	ppb
- Sb	123	3931.1	2.04948	ppb
> Ho	165	246942.6		ppb
- Pb	208	94497.8	9.08602	ppb
- Kr	83	699.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da: Wednesday, August 03, 2011 12:53:49

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33283.8		ppb
- Be	9	9983.5	49.28147	ppb
- Sc	45	76938.8		ppb
- Cr	52	221700.5	64.3131	ppb
- Cr	53	28472.9	39.86299	ppb
- Mn	55	305375.3	56.80628	ppb
- Co	59	200684.4	51.3424	ppb
- Ni	60	61158.5	71.23236	ppb
- As	75	150798.3	213.279	ppb
- Se	77	41461.7	762.9728	ppb
- Se	82	63429	932.21129	ppb
> Rh	103	190603.9		ppb
- Cd	111	25593.9	28.32615	ppb
- Cd	114	59021	29.60443	ppb
- Sb	121	155177.8	67.06077	ppb
- Sb	123	117494.8	59.89342	ppb
> Ho	165	254281.9		ppb
- Pb	208	511459.1	48.09362	ppb
- Kr	83	637.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Da: Wednesday, August 03, 2011 12:55:58

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38205.8		ppb
- Be	9	11.3	0.04	ppb
- Sc	45	92913.3		ppb
- Cr	52	53747.4	11.38835	ppb
- Cr	53	7852.7	-14.36156	ppb
- Mn	55	114990	16.56796	ppb
- Co	59	5966.6	1.20959	ppb
- Ni	60	30751.6	28.48779	ppb
- As	75	33654.1	38.04231	ppb
- Se	77	16702.3	227.4571	ppb
- Se	82	27205.8	318.90896	ppb
> Rh	103	238943.2		ppb
- Cd	111	5850.9	5.16222	ppb
- Cd	114	13400.5	5.35909	ppb
- Sb	121	18332.5	6.42387	ppb
- Sb	123	13875.1	5.73443	ppb
> Ho	165	312971.5		ppb
- Pb	208	92166.7	6.97506	ppb
- Kr	83	528.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Da Wednesday, August 03, 2011 12:58:07

Sample De Airtech

Concentration Results

Analyte	Mass	Meas.	Intent	Conc.	Mear	Report	Unit
Li	6	42408.5					ppb
Be	9	9.3	0.02642				ppb
Sc	45	103814.4					ppb
Cr	52	85032.6	17.66024				ppb
Cr	53	11295	-8.89603				ppb
Mn	55	246524.7	34.2405				ppb
Co	59	6469.6	1.2371				ppb
Ni	60	44082	38.58563				ppb
As	75	54723.4	58.34466				ppb
Se	77	56314.6	780.65851				ppb
Se	82	80837.8	894.53098				ppb
Rh	103	253221.8					ppb
Cd	111	5034.2	4.19157				ppb
Cd	114	11053.9	4.171				ppb
Sb	121	26883.7	8.92759				ppb
Sb	123	20472.8	8.01873				ppb
Ho	165	330422.7					ppb
Pb	208	79746.8	5.70114				ppb
Kr	83	595.5					mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 13:00:19

Sample Description:

Concentration Results

Analyte	Mass	Meas.	Intent	Conc.	Mear	Report	Unit
Li	6	34628.9					ppb
Be	9	4.7	0.01243				ppb
Sc	45	95986.1					ppb
Cr	52	5551.7	-0.32644				ppb
Cr	53	11547.7	-12.917				ppb
Mn	55	4436.8	-0.21391				ppb
Co	59	96	0.00588				ppb
Ni	60	381.3	0.12085				ppb
As	75	28.6	0.12185				ppb
Se	77	2484.3	2.05986				ppb
Se	82	-105	-1.01375				ppb
Rh	103	320960.9					ppb
Cd	111	37.3	0.02099				ppb
Cd	114	49.2	0.01172				ppb
Sb	121	76.7	0.00128				ppb
Sb	123	46.5	-0.00232				ppb
Ho	165	508118.5					ppb
Pb	208	1883.1	0.00997				ppb
Kr	83	225.7					mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 13:02:28

Sample Description:

Concentration Results

Analyte	Mass	Meas.	Intent	Conc.	Mear	Report	Unit
Li	6	35711.9					ppb
Be	9	20003	92.06102				ppb
Sc	45	100626.9					ppb
Cr	52	456645.6	77.15181				ppb
Cr	53	66682.7	64.84364				ppb
Mn	55	637734.3	69.02506				ppb
Co	59	621926.8	92.37838				ppb
Ni	60	138595.1	93.74513				ppb
As	75	110720.9	90.95702				ppb
Se	77	9770.2	81.90154				ppb
Se	82	9660.2	82.33583				ppb
Rh	103	328393.4					ppb
Cd	111	144122.4	92.56271				ppb
Cd	114	340046.7	98.99656				ppb
Sb	121	513567.9	107.07167				ppb
Sb	123	394703.3	97.06546				ppb
Ho	165	527176					ppb
Pb	208	2280677.8	103.52813				ppb
Kr	83	-8930.5					mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Date: Wednesday, August 03, 2011 13:04:40

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	34468.5			ppb
Be	9	11.7	0.04612		ppb
Sc	45	84042.1			ppb
Cr	52	42941.2	10.00712		ppb
Cr	53	7177.8	-14.06837		ppb
Mn	55	94941.9	15.20531		ppb
Co	59	3894.5	0.87828		ppb
Ni	60	16430.5	16.92401		ppb
As	75	53892.9	67.90231		ppb
Se	77	40857.6	665.78431		ppb
Se	82	60844.9	795.9019		ppb
Rh	103	214188.9			ppb
Cd	111	1053.6	1.03383		ppb
Cd	114	2247.4	1.0003		ppb
Sb	121	13095.4	5.10293		ppb
Sb	123	9816.3	4.51125		ppb
Ho	165	281254.5			ppb
Pb	208	50313.1	4.20525		ppb
Kr	83	650.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Date: Wednesday, August 03, 2011 13:06:50

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	37994.6			ppb
Be	9	44.7	0.18271		ppb
Sc	45	88412.9			ppb
Cr	52	150252	38.63913		ppb
Cr	53	19356.9	12.78961		ppb
Mn	55	181731.4	30.03354		ppb
Co	59	5011	1.14303		ppb
Ni	60	19557.7	20.35771		ppb
As	75	60279.5	76.64016		ppb
Se	77	37666.2	617.69591		ppb
Se	82	56021.8	739.57861		ppb
Rh	103	212224.4			ppb
Cd	111	983.9	0.97475		ppb
Cd	114	730.4	0.32628		ppb
Sb	121	28304.7	10.7545		ppb
Sb	123	21488.1	9.63043		ppb
Ho	165	288676.6			ppb
Pb	208	139115	11.45575		ppb
Kr	83	-1103.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Date: Wednesday, August 03, 2011 13:08:59

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	39626.6			ppb
Be	9	44	0.17297		ppb
Sc	45	87184.4			ppb
Cr	52	158743	42.37579		ppb
Cr	53	20044.4	15.8473		ppb
Mn	55	164718.8	28.13256		ppb
Co	59	9646.1	2.28578		ppb
Ni	60	15652.1	18.84104		ppb
As	75	109680	144.29317		ppb
Se	77	113324.8	1978.9573		ppb
Se	82	158431.2	2165.3631		ppb
Rh	103	205039.4			ppb
Cd	111	1601.7	1.64519		ppb
Cd	114	621.1	0.28474		ppb
Sb	121	15798.7	6.23396		ppb
Sb	123	11794.1	5.48883		ppb
Ho	165	277877.5			ppb
Pb	208	73248	6.23412		ppb
Kr	83	-1115.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Wednesday, August 03, 2011 13:11:08

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39609.6		ppb
- Be	9	37.7	0.14637	ppb
- Sc	45	88191.7		ppb
- Cr	52	159547	42.88161	ppb
- Cr	53	20378.8	16.90382	ppb
- Mn	55	167579.5	28.82089	ppb
- Co	59	9782.3	2.33338	ppb
- Ni	60	15911.6	17.23355	ppb
- As	75	113492	150.25126	ppb
- Se	77	114145.4	2006.2778	ppb
- Se	82	161205.8	2217.4664	ppb
> Rh	103	203704.4		ppb
- Cd	111	1507.7	1.55868	ppb
- Cd	114	830	0.38637	ppb
- Sb	121	15989.1	6.43738	ppb
- Sb	123	12045	5.72033	ppb
> Ho	165	272353.3		ppb
- Pb	208	71314.2	6.19274	ppb
- Kr	83	-1187.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 13:13:18

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36827.2		ppb
- Be	9	41	0.17338	ppb
- Sc	45	77264.4		ppb
- Cr	52	147851.5	41.6347	ppb
- Cr	53	18924	15.67086	ppb
- Mn	55	179977.9	32.55505	ppb
- Co	59	4708.9	1.17327	ppb
- Ni	60	16220.5	18.42996	ppb
- As	75	84667.4	117.53039	ppb
- Se	77	53187.5	966.90595	ppb
- Se	82	82384.5	1188.2195	ppb
> Rh	103	194289.5		ppb
- Cd	111	657.5	0.71147	ppb
- Cd	114	645.4	0.3128	ppb
- Sb	121	7257.2	3.09188	ppb
- Sb	123	5390.9	2.70822	ppb
> Ho	165	256721.1		ppb
- Pb	208	17594.3	1.56246	ppb
- Kr	83	-923.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 13:15:26

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33527.8		ppb
- Be	9	11993.6	58.79383	ppb
- Sc	45	72663.8		ppb
- Cr	52	292789.2	92.12074	ppb
- Cr	53	36652.4	66.82074	ppb
- Mn	55	390473.5	78.58992	ppb
- Co	59	202286.7	55.80818	ppb
- Ni	60	62433.7	78.4306	ppb
- As	75	178368.9	271.92106	ppb
- Se	77	58222.6	1168.4022	ppb
- Se	82	88929	1409.0647	ppb
> Rh	103	176822.1		ppb
- Cd	111	26776.1	31.9425	ppb
- Cd	114	61036.7	33.00233	ppb
- Sb	121	165459.8	77.90006	ppb
- Sb	123	125147.7	69.50646	ppb
> Ho	165	233386		ppb
- Pb	208	409536.2	41.94551	ppb
- Kr	83	-936		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Date Wednesday, August 03, 2011 13:17:36

Sample From Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	41163.9		ppb
- Be	9	22.3	0.08032	ppb
- Sc	45	89393.6		ppb
- Cr	52	97631.8	23.86848	ppb
- Cr	53	12767	-2.50904	ppb
- Mn	55	111280.5	17.54519	ppb
- Co	59	7380.4	1.634	ppb
- Ni	60	22250.2	22.47063	ppb
- As	75	90967.4	112.06949	ppb
- Se	77	102077.2	1665.3002	ppb
- Se	82	145305.6	1860.1357	ppb
> Rh	103	218870.2		ppb
- Cd	111	1868.5	1.79664	ppb
- Cd	114	4253.1	1.85533	ppb
- Sb	121	2715.7	0.99985	ppb
- Sb	123	1989.4	0.86297	ppb
> Ho	165	294048.6		ppb
- Pb	208	220108	17.84759	ppb
- Kr	83	497.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Date Wednesday, August 03, 2011 13:19:45

Sample From Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	42202.2		ppb
- Be	9	12	0.0374	ppb
- Sc	45	91083.9		ppb
- Cr	52	53788.7	12.43634	ppb
- Cr	53	7563.5	-13.72033	ppb
- Mn	55	176855.2	28.03697	ppb
- Co	59	8438.2	1.85462	ppb
- Ni	60	11425.5	11.36445	ppb
- As	75	136559.3	166.70412	ppb
- Se	77	119956.8	1943.5973	ppb
- Se	82	168921.6	2142.9557	ppb
> Rh	103	220867.4		ppb
- Cd	111	443.9	0.42049	ppb
- Cd	114	893.5	0.38431	ppb
- Sb	121	1900.5	0.69897	ppb
- Sb	123	1409.9	0.61068	ppb
> Ho	165	292531		ppb
- Pb	208	84629.4	6.84976	ppb
- Kr	83	626.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Date Wednesday, August 03, 2011 13:21:54

Sample From Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	39129.3		ppb
- Be	9	9.3	0.02964	ppb
- Sc	45	88869.2		ppb
- Cr	52	55881.6	14.60772	ppb
- Cr	53	7701.6	-11.56993	ppb
- Mn	55	150850.8	26.62209	ppb
- Co	59	11179.5	2.74253	ppb
- Ni	60	15450.8	17.20056	ppb
- As	75	175848.6	239.17828	ppb
- Se	77	141827.9	2570.1603	ppb
- Se	82	199543.5	2821.5541	ppb
> Rh	103	198134.9		ppb
- Cd	111	751	0.79632	ppb
- Cd	114	1254.2	0.60266	ppb
- Sb	121	3553.7	1.4584	ppb
- Sb	123	2614	1.26481	ppb
> Ho	165	285143.5		ppb
- Pb	208	37498.9	3.30867	ppb
- Kr	83	786.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Da Wednesday, August 03, 2011 13:24:04

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	37398.1		ppb
Be	9	13.7	0.05048	ppb
Sc	45	77824.4		ppb
Cr	52	69512.5	19.14477	ppb
Cr	53	9432.2	-6.76144	ppb
Mn	55	104756.2	18.90233	ppb
Co	59	9633.3	2.46741	ppb
Ni	60	19334.5	22.29251	ppb
As	75	47803.8	67.27703	ppb
Se	77	15681.2	270.53182	ppb
Se	82	31306.6	457.35701	ppb
Rh	103	191794.9		ppb
Cd	111	2536	2.78534	ppb
Cd	114	5981.8	2.98765	ppb
Sb	121	12860.1	5.52453	ppb
Sb	123	9729.7	4.92944	ppb
Ho	165	255159.2		ppb
Pb	208	71920.6	6.67159	ppb
Kr	83	428.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 13:26:16

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	36002.4		ppb
Be	9	5.7	0.01637	ppb
Sc	45	89974.8		ppb
Cr	52	5112.8	-0.29722	ppb
Cr	53	11023.4	-11.78324	ppb
Mn	55	4002.2	-0.20985	ppb
Co	59	110.3	0.01009	ppb
Ni	60	416.3	0.17898	ppb
As	75	-55.9	0.0476	ppb
Se	77	2461.3	5.08658	ppb
Se	82	-80.8	-0.882	ppb
Rh	103	287189		ppb
Cd	111	74.7	0.05188	ppb
Cd	114	125.6	0.03942	ppb
Sb	121	164.7	0.02605	ppb
Sb	123	105.9	0.01716	ppb
Ho	165	437270.9		ppb
Pb	208	2392.8	0.05218	ppb
Kr	83	204.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 13:28:25

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	36860.4		ppb
Be	9	20743.3	92.49915	ppb
Sc	45	92448.7		ppb
Cr	52	414180.9	78.3166	ppb
Cr	53	60841.6	66.82313	ppb
Mn	55	581964.1	70.48738	ppb
Co	59	555991.5	92.41661	ppb
Ni	60	124717.5	94.4174	ppb
As	75	97691.4	89.8115	ppb
Se	77	8914	84.17748	ppb
Se	82	8581.6	81.86296	ppb
Rh	103	293558.8		ppb
Cd	111	128747.1	92.51673	ppb
Cd	114	297822.1	97.0097	ppb
Sb	121	465348.7	111.26096	ppb
Sb	123	354229.6	99.89098	ppb
Ho	165	459824.4		ppb
Pb	208	1876006.6	97.63654	ppb
Kr	83	-8268.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da: Wednesday, August 03, 2011 13:30:36

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
> Li	6	39441.4			ppb
- Be	9	9	0.02783		ppb
- Sc	45	83034.8			ppb
- Cr	52	44931.1	11.08619		ppb
- Cr	53	6684.1	-14.45622		ppb
- Mn	55	113685.1	19.23949		ppb
- Co	59	3295.6	0.77701		ppb
- Ni	60	8583.4	9.18929		ppb
- As	75	62622	82.57822		ppb
- Se	77	57562.3	994.29778		ppb
- Se	82	83794.6	1147.4606		ppb
> Rh	103	204610			ppb
- Cd	111	5385.4	5.54748		ppb
- Cd	114	12280.8	5.73493		ppb
- Sb	121	3623.1	1.42136		ppb
- Sb	123	2654.6	1.2274		ppb
> Ho	165	277205.8			ppb
- Pb	208	71739.1	6.11876		ppb
- Kr	83	552.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da: Wednesday, August 03, 2011 13:32:45

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
> Li	6	39365.5			ppb
- Be	9	8.3	0.02522		ppb
- Sc	45	80311.6			ppb
- Cr	52	45893.9	11.81897		ppb
- Cr	53	6419.6	-14.5124		ppb
- Mn	55	115574.3	20.31876		ppb
- Co	59	3124.5	0.76355		ppb
- Ni	60	8698.8	9.66314		ppb
- As	75	65304.7	89.29318		ppb
- Se	77	57671.4	1034.0058		ppb
- Se	82	84892.5	1205.5282		ppb
> Rh	103	197322.1			ppb
- Cd	111	5327.6	5.69117		ppb
- Cd	114	12050.7	5.83413		ppb
- Sb	121	3594.7	1.42901		ppb
- Sb	123	2746.1	1.28685		ppb
> Ho	165	273567			ppb
- Pb	208	74300.2	6.42622		ppb
- Kr	83	447.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Da: Wednesday, August 03, 2011 13:34:55

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report	Unit
> Li	6	40341.2			ppb
- Be	9	18	0.06311		ppb
- Sc	45	83308.2			ppb
- Cr	52	60148.8	15.23382		ppb
- Cr	53	8171.7	-11.12183		ppb
- Mn	55	132707.6	22.51125		ppb
- Co	59	3817.1	0.89859		ppb
- Ni	60	15403.7	16.5573		ppb
- As	75	86855.3	114.10015		ppb
- Se	77	81534.8	1415.1239		ppb
- Se	82	116221	1586.9218		ppb
> Rh	103	205184.3			ppb
- Cd	111	2799.2	2.87417		ppb
- Cd	114	5192.4	2.41765		ppb
- Sb	121	5768.2	2.23981		ppb
- Sb	123	4467.3	2.04594		ppb
> Ho	165	281174.6			ppb
- Pb	208	81317.3	6.8475		ppb
- Kr	83	-51.6			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Da Wednesday, August 03, 2011 13:37:04

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	41161.1			ppb
Be	9	11115.5	44.37334		ppb
Sc	45	86775.8			ppb
Cr	52	333141.4	87.44326		ppb
Cr	53	40600.8	59.58978		ppb
Mn	55	378576.4	63.48141		ppb
Co	59	222006	51.13487		ppb
Ni	60	65489.1	68.66903		ppb
As	75	182252.3	232.03337		ppb
Se	77	88022.2	1481.6232		ppb
Se	82	125626.4	1662.4156		ppb
Rh	103	211746.4			ppb
Cd	111	29251.8	29.142		ppb
Cd	114	66232.2	29.90552		ppb
Sb	121	161253.9	60.71738		ppb
Sb	123	122080.5	54.22106		ppb
Ho	165	291852.4			ppb
Pb	208	551105.9	45.14437		ppb
Kr	83	-17.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Da Wednesday, August 03, 2011 13:39:13

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	44295.6			ppb
Be	9	11.7	0.03396		ppb
Sc	45	91783.6			ppb
Cr	52	98727.2	24.06907		ppb
Cr	53	12495.9	-3.16267		ppb
Mn	55	100645.9	15.74436		ppb
Co	59	5235.2	1.15273		ppb
Ni	60	22696.7	22.85472		ppb
As	75	146339.7	179.70369		ppb
Se	77	85995.3	1395.0022		ppb
Se	82	123156.1	1571.9823		ppb
Rh	103	219560.4			ppb
Cd	111	287.2	0.27253		ppb
Cd	114	750.8	0.32447		ppb
Sb	121	2392.3	0.86968		ppb
Sb	123	1811.7	0.77609		ppb
Ho	165	297194.8			ppb
Pb	208	48106.4	3.79792		ppb
Kr	83	664.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Da Wednesday, August 03, 2011 13:41:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	41828.2			ppb
Be	9	14.3	0.04635		ppb
Sc	45	91363			ppb
Cr	52	90767.5	23.64874		ppb
Cr	53	11770.3	-2.9622		ppb
Mn	55	194861.8	33.38335		ppb
Co	59	7420	1.75414		ppb
Ni	60	21229.8	22.87137		ppb
As	75	220207.9	289.22956		ppb
Se	77	175446	3074.8129		ppb
Se	82	243952	3331.2432		ppb
Rh	103	205207.1			ppb
Cd	111	1192.7	1.22331		ppb
Cd	114	903.9	0.41763		ppb
Sb	121	9583	3.70618		ppb
Sb	123	7397.2	3.37449		ppb
Ho	165	283063.2			ppb
Pb	208	92681	7.76384		ppb
Kr	83	664.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Date: Wednesday, August 03, 2011 13:43:31

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	39178.2		ppb
Be	9	21.3	0.08011	ppb
Sc	45	82938.5		ppb
Cr	52	63091.6	15.9515	ppb
Cr	53	8715.2	-9.99472	ppb
Mn	55	113755.5	19.08955	ppb
Co	59	5291.5	1.2422	ppb
Ni	60	18347.2	19.643	ppb
As	75	242034.1	316.26813	ppb
Se	77	202345	3531.4782	ppb
Se	82	285315.1	3875.4968	ppb
Rh	103	206275.1		ppb
Cd	111	398.9	0.40424	ppb
Cd	114	891.7	0.41008	ppb
Sb	121	2613	1.02963	ppb
Sb	123	1897.8	0.88146	ppb
Ho	165	274814.8		ppb
Pb	208	46266.1	3.95315	ppb
Kr	83	828.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 13:52:10

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	36405.2		ppb
Be	9	8.7	0.02936	ppb
Sc	45	88044		ppb
Cr	52	5647.1	-0.18405	ppb
Cr	53	13929.7	-6.90489	ppb
Mn	55	4244.3	-0.17551	ppb
Co	59	127.3	0.01304	ppb
Ni	60	348	0.12829	ppb
As	75	-38.1	0.06244	ppb
Se	77	3221.2	14.99358	ppb
Se	82	-1.4	-0.11221	ppb
Rh	103	284846.1		ppb
Cd	111	46.6	0.03102	ppb
Cd	114	73.6	0.02177	ppb
Sb	121	57.7	-0.00063	ppb
Sb	123	47.4	0.00001	ppb
Ho	165	430212.5		ppb
Pb	208	1859.7	0.02471	ppb
Kr	83	120.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 13:54:20

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	36816.2		ppb
Be	9	20442.3	91.25896	ppb
Sc	45	89885.2		ppb
Cr	52	396165.4	77.44896	ppb
Cr	53	60326.8	69.26626	ppb
Mn	55	557502.3	69.82693	ppb
Co	59	529251.2	90.9611	ppb
Ni	60	120516.8	94.34318	ppb
As	75	94451.8	89.79112	ppb
Se	77	8939.4	88.22575	ppb
Se	82	8313.1	81.98598	ppb
Rh	103	283814.1		ppb
Cd	111	125298.8	93.12038	ppb
Cd	114	287352.9	96.79084	ppb
Sb	121	445642.4	110.28723	ppb
Sb	123	340784.6	99.47726	ppb
Ho	165	444171.5		ppb
Pb	208	1771427.1	95.45199	ppb
Kr	83	-8006.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 13:56:31

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	50850.9		ppb
Be	9	23.3	0.06606	ppb
Sc	45	136398.2		ppb
Cr	52	82250.4	10.22153	ppb
Cr	53	11784.6	-16.03109	ppb
Mn	55	200993.3	17.20804	ppb
Co	59	7987.5	0.95891	ppb
Ni	60	32273.2	17.68579	ppb
As	75	10923.1	7.41319	ppb
Se	77	19149.2	146.42717	ppb
Se	82	25154	174.88219	ppb
Rh	103	402754		ppb
Cd	111	3865.4	2.02119	ppb
Cd	114	7636.5	1.8108	ppb
Sb	121	7135.1	1.19345	ppb
Sb	123	5439.8	1.07279	ppb
Ho	165	648983.2		ppb
Pb	208	201144.2	7.34532	ppb
Kr	83	-685.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 13:58:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	49910.5		ppb
Be	9	10228.8	33.67822	ppb
Sc	45	134242.3		ppb
Cr	52	373851	52.01869	ppb
Cr	53	46037.3	24.51666	ppb
Mn	55	612193.5	54.8718	ppb
Co	59	384482.6	47.40856	ppb
Ni	60	113748.3	63.84514	ppb
As	75	79888.7	54.53281	ppb
Se	77	25482.3	207.48439	ppb
Se	82	33609.3	238.02206	ppb
Rh	103	395510.5		ppb
Cd	111	64959.2	34.64078	ppb
Cd	114	147293.5	35.60324	ppb
Sb	121	244141.2	42.38029	ppb
Sb	123	187574.1	38.40638	ppb
Ho	165	633088.5		ppb
Pb	208	1364000.6	51.51894	ppb
Kr	83	-681.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da Wednesday, August 03, 2011 14:02:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	39498.1		ppb
Be	9	8	0.02382	ppb
Sc	45	93484		ppb
Cr	52	117028.8	21.44154	ppb
Cr	53	15549.3	-4.72958	ppb
Mn	55	576477.2	70.602	ppb
Co	59	7490.8	1.25002	ppb
Ni	60	62224.2	47.5451	ppb
As	75	55949.5	52.06176	ppb
Se	77	79182.4	963.19569	ppb
Se	82	109055.4	1052.6878	ppb
Rh	103	290294.3		ppb
Cd	111	1517.1	1.09878	ppb
Cd	114	3171.9	1.04163	ppb
Sb	121	5939.3	1.46468	ppb
Sb	123	4400.4	1.27937	ppb
Ho	165	441206.9		ppb
Pb	208	206634.4	11.13727	ppb
Kr	83	-275.9		mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 BH

Sample Date: Wednesday, August 03, 2011 14:05:08

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	52758.1			ppb
Be	9	14.7	0.03607		ppb
Sc	45	152893.7			ppb
Cr	52	290232.5	38.49387		ppb
Cr	53	35924.2	10.98091		ppb
Mn	55	315786.7	26.84793		ppb
Co	59	8871.3	1.04296		ppb
Ni	60	92801.7	50.03786		ppb
As	75	34493.4	22.68948		ppb
Se	77	58791.9	492.19404		ppb
Se	82	79007.9	538.01327		ppb
Rh	103	411437			ppb
Cd	111	7532.6	3.85779		ppb
Cd	114	14928.3	3.46589		ppb
Sb	121	9766.2	1.58228		ppb
Sb	123	7503	1.43376		ppb
Ho	165	671921.5			ppb
Pb	208	257954	9.11594		ppb
Kr	83	-626.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 14:09:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	36375.1			ppb
Be	9	4.3	0.01001		ppb
Sc	45	89187.4			ppb
Cr	52	5932.9	-0.15348		ppb
Cr	53	16409.8	-3.44889		ppb
Mn	55	3833.5	-0.23811		ppb
Co	59	84.3	0.00541		ppb
Ni	60	293.7	0.08054		ppb
As	75	-89.4	0.01482		ppb
Se	77	3420	16.55225		ppb
Se	82	-19.5	-0.28404		ppb
Rh	103	291377.9			ppb
Cd	111	15.1	0.0074		ppb
Cd	114	29.9	0.00886		ppb
Sb	121	85	0.00584		ppb
Sb	123	43.2	-0.00157		ppb
Ho	165	440903.4			ppb
Pb	208	1412.4	-0.00216		ppb
Kr	83	90.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 14:11:39

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	38142.2			ppb
Be	9	20596	88.74944		ppb
Sc	45	93099			ppb
Cr	52	417207.9	78.41706		ppb
Cr	53	64862.6	72.576		ppb
Mn	55	587891.9	70.77776		ppb
Co	59	554842.6	91.64611		ppb
Ni	60	124174.1	93.4328		ppb
As	75	98073.3	89.61573		ppb
Se	77	9570	91.54031		ppb
Se	82	8633.6	81.84835		ppb
Rh	103	295292			ppb
Cd	111	129269.1	92.3464		ppb
Cd	114	299669.9	97.02011		ppb
Sb	121	464466.7	112.97366		ppb
Sb	123	356985.1	102.42709		ppb
Ho	165	451907			ppb
Pb	208	1888893.2	100.02885		ppb
Kr	83	-8293			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Wednesday, August 03, 2011 17:15:27

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34083.3		ppb
- Be	9	5.3		ppb
- Sc	45	96973		ppb
- Cr	52	6735.5		ppb
- Cr	53	27524.3		ppb
- Mn	55	4788.9		ppb
- Co	59	58		ppb
- Ni	60	302		ppb
- As	75	-237.5		ppb
- Se	77	3193.6		ppb
- Se	82	-1		ppb
> Rh	103	323186.8		ppb
- Cd	111	19.2		ppb
- Cd	114	24.8		ppb
- Sb	121	86.3		ppb
- Sb	123	70.8		ppb
> Ho	165	548644.8		ppb
- Pb	208	2928.8		ppb
- Kr	83	68.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Wednesday, August 03, 2011 17:17:37

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34415.9		ppb
- Be	9	211.7	1.1245	ppb
- Sc	45	98964.8		ppb
- Cr	52	11392.1	0.91737	ppb
- Cr	53	27902.8	-1.46748	ppb
- Mn	55	11534.6	1.04746	ppb
- Co	59	6489.3	1.00794	ppb
- Ni	60	1654.8	0.91163	ppb
- As	75	1076.1	1.17333	ppb
- Se	77	3297.6	-0.48615	ppb
- Se	82	122.4	1.22583	ppb
> Rh	103	337512.1		ppb
- Cd	111	1479.5	1.00412	ppb
- Cd	114	3556.4	1.04377	ppb
- Sb	121	5466	1.06915	ppb
- Sb	123	4087.9	0.97786	ppb
> Ho	165	557177.6		ppb
- Pb	208	26466.6	1.13118	ppb
- Kr	83	-35.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Wednesday, August 03, 2011 17:19:46

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33879.1		ppb
- Be	9	19267.4	106.6191	ppb
- Sc	45	96747.9		ppb
- Cr	52	443231.2	98.70289	ppb
- Cr	53	79485.4	98.28307	ppb
- Mn	55	619768.1	105.94865	ppb
- Co	59	597825.1	100.71501	ppb
- Ni	60	133561.6	97.4247	ppb
- As	75	107423.4	102.21836	ppb
- Se	77	10603.5	106.93557	ppb
- Se	82	9709.8	103.23396	ppb
> Rh	103	315813.3		ppb
- Cd	111	141934.7	104.51682	ppb
- Cd	114	325579.4	103.07	ppb
- Sb	121	499123.1	103.37113	ppb
- Sb	123	383978.7	97.34665	ppb
> Ho	165	538604.4		ppb
- Pb	208	2290371.1	113.84027	ppb
- Kr	83	-8764.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Wednesday, August 03, 2011 17:21:55

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	34108.2		ppb
Be	9	92609.7	499.09961	ppb
Sc	45	96670		ppb
Cr	52	1943711.4	497.72026	ppb
Cr	53	277764.3	499.23788	ppb
Mn	55	2776869	498.05348	ppb
Co	59	2648251.3	473.70234	ppb
Ni	60	634867.7	499.18145	ppb
As	75	525294.9	499.66795	ppb
Se	77	38435.8	499.01457	ppb
Se	82	47141.2	499.56569	ppb
Rh	103	313653.5		ppb
Cd	111	686468.5	499.49191	ppb
Cd	114	1582479.7	499.5867	ppb
Sb	121	2237933.4	497.98031	ppb
Sb	123	1835162.3	499.29082	ppb
Ho	165	533705.3		ppb
Pb	208	10018118	473.48737	ppb
Kr	83	-39741.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 17:24:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	33830.3		ppb
Be	9	32.7	0.15235	ppb
Sc	45	94311.8		ppb
Cr	52	7760.7	0.27004	ppb
Cr	53	29162.4	3.4543	ppb
Mn	55	6062.1	0.23142	ppb
Co	59	1009.1	0.16978	ppb
Ni	60	503	0.15963	ppb
As	75	262.6	0.46986	ppb
Se	77	3300.9	1.717	ppb
Se	82	0.6	0.02274	ppb
Rh	103	321867.5		ppb
Cd	111	227.1	0.15166	ppb
Cd	114	521.3	0.15723	ppb
Sb	121	751.7	0.14991	ppb
Sb	123	524.6	0.12512	ppb
Ho	165	530979.7		ppb
Pb	208	5746.2	0.13889	ppb
Kr	83	69.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Wednesday, August 03, 2011 17:26:15

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	34909.6		ppb
Be	9	200.7	1.02718	ppb
Sc	45	99190.3		ppb
Cr	52	12340.4	1.34843	ppb
Cr	53	28830	1.65306	ppb
Mn	55	11523.3	1.14266	ppb
Co	59	6866.9	1.1831	ppb
Ni	60	1665.8	1.02087	ppb
As	75	840.4	0.98366	ppb
Se	77	3426	2.44593	ppb
Se	82	94.9	0.96271	ppb
Rh	103	328456.8		ppb
Cd	111	1598.1	1.09726	ppb
Cd	114	3778.1	1.13202	ppb
Sb	121	5467.6	1.18554	ppb
Sb	123	4118.7	1.09032	ppb
Ho	165	539633.2		ppb
Pb	208	26646.9	1.11225	ppb
Kr	83	-13		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date Wednesday, August 03, 2011 17:28:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33955.5			ppb
Be	9	47842.6	259.01297		ppb
Sc	45	96455.6			ppb
Cr	52	1067777.9	270.23922		ppb
Cr	53	154657.5	251.68663		ppb
Mn	55	1497451.7	265.80997		ppb
Co	59	1457429.5	258.32123		ppb
Ni	60	323631.4	252.0611		ppb
As	75	259519.7	244.79032		ppb
Se	77	20174	238.57267		ppb
Se	82	23218.7	243.86691		ppb
Rh	103	316460.8			ppb
Cd	111	342069.3	246.69555		ppb
Cd	114	789674.6	247.10857		ppb
Sb	121	1191634	270.1504		ppb
Sb	123	908973.8	251.96945		ppb
Ho	165	523819.8			ppb
Pb	208	5130457.6	246.99432		ppb
Kr	83	-20116.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date Wednesday, August 03, 2011 17:30:34

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33184.7			ppb
Be	9	18640.1	103.21316		ppb
Sc	45	94065.9			ppb
Cr	52	429403	108.7072		ppb
Cr	53	79791.7	105.64853		ppb
Mn	55	607591.4	108.38977		ppb
Co	59	590237.1	105.61164		ppb
Ni	60	133597.8	104.9182		ppb
As	75	107203.5	102.2058		ppb
Se	77	10568.5	105.52943		ppb
Se	82	9518.3	100.88973		ppb
Rh	103	313474.3			ppb
Cd	111	140109.6	101.98287		ppb
Cd	114	329392	104.01758		ppb
Sb	121	489336.9	111.76205		ppb
Sb	123	373691.2	104.33051		ppb
Ho	165	520001			ppb
Pb	208	2218812.1	107.54518		ppb
Kr	83	-8589.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date Wednesday, August 03, 2011 17:32:45

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33611.3			ppb
Be	9	9257	50.62014		ppb
Sc	45	97650.8			ppb
Cr	52	213597.2	52.22946		ppb
Cr	53	52885.7	50.21881		ppb
Mn	55	300377.6	52.18475		ppb
Co	59	291945.3	51.28724		ppb
Ni	60	65422.6	50.32933		ppb
As	75	51922.8	48.72292		ppb
Se	77	6698.1	49.17919		ppb
Se	82	4650.2	48.41244		ppb
Rh	103	319219.5			ppb
Cd	111	68701.9	49.10156		ppb
Cd	114	157713.4	48.91927		ppb
Sb	121	242506.2	54.77393		ppb
Sb	123	185054.9	51.10103		ppb
Ho	165	525649.8			ppb
Pb	208	1079940.4	51.7121		ppb
Kr	83	74.3			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Date: Wednesday, August 03, 2011 17:34:54

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37272.5		ppb
Be	9	8	0.01069	ppb
Sc	45	112747.4		ppb
Cr	52	13769.1	1.67832	ppb
Cr	53	32459.9	8.1623	ppb
Mn	55	28879.5	4.09132	ppb
Co	59	6607.1	1.11184	ppb
Ni	60	5047.7	3.53832	ppb
As	75	-290.6	-0.04247	ppb
Se	77	5574.4	30.95815	ppb
Se	82	-39.1	-0.38209	ppb
Rh	103	330336.9		ppb
Cd	111	557.4	0.37128	ppb
Cd	114	3507.4	1.04348	ppb
Sb	121	695.7	0.12374	ppb
Sb	123	547.6	0.11837	ppb
Ho	165	581585.9		ppb
Pb	208	17131.6	0.60899	ppb
Kr	83	77.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std.7

Sample Date: Wednesday, August 03, 2011 17:37:03

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	31129.5		ppb
Be	9	430	2.51062	ppb
Sc	45	95863.9		ppb
Cr	52	61562.2	15.51301	ppb
Cr	53	39421.3	32.09933	ppb
Mn	55	85071.6	15.77998	ppb
Co	59	126980.5	24.67929	ppb
Ni	60	28513.3	24.15119	ppb
As	75	11971.6	12.59358	ppb
Se	77	6694.5	59.00074	ppb
Se	82	1048.4	12.08398	ppb
Rh	103	288494.6		ppb
Cd	111	9474.1	7.48025	ppb
Cd	114	24137.7	8.27596	ppb
Sb	121	12366.7	2.88699	ppb
Sb	123	9490.7	2.708	ppb
Ho	165	505442.6		ppb
Pb	208	57094.6	2.71537	ppb
Kr	83	-140.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Date: Wednesday, August 03, 2011 17:39:13

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	49663.6		ppb
Be	9	81.7	0.27337	ppb
Sc	45	145547.9		ppb
Cr	52	16657.9	0.97943	ppb
Cr	53	49199.1	7.66279	ppb
Mn	55	12897.5	0.60452	ppb
Co	59	3007.2	0.32402	ppb
Ni	60	7034.1	3.20652	ppb
As	75	124.7	0.29323	ppb
Se	77	7038.4	17.98146	ppb
Se	82	30	0.20751	ppb
Rh	103	504861.7		ppb
Cd	111	736.9	0.31954	ppb
Cd	114	1575	0.30127	ppb
Sb	121	2777.1	0.37326	ppb
Sb	123	2139.9	0.35052	ppb
Ho	165	841594.8		ppb
Pb	208	27909.3	0.70239	ppb
Kr	83	14.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Wednesday, August 03, 2011 17:41:23

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	32608.9			ppb
Be	9	197	1.08243		ppb
Sc	45	91952.7			ppb
Cr	52	14138	1.89468		ppb
Cr	53	36806	18.89256		ppb
Mn	55	10647.6	1.04708		ppb
Co	59	6300.2	1.09852		ppb
Ni	60	1612.5	1.01754		ppb
As	75	896.8	1.05949		ppb
Se	77	4869.3	23.88615		ppb
Se	82	92	0.96896		ppb
Rh	103	318762.7			ppb
Cd	111	1468.7	1.0378		ppb
Cd	114	3529.9	1.0887		ppb
Sb	121	5288.2	1.18547		ppb
Sb	123	4093.7	1.12111		ppb
Ho	165	521580.1			ppb
Pb	208	25447.2	1.09663		ppb
Kr	83	-22.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Date: Wednesday, August 03, 2011 17:43:34

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	36976			ppb
Be	9	9.7	0.01869		ppb
Sc	45	106436.5			ppb
Cr	52	64692	12.65911		ppb
Cr	53	16755.5	-24.33908		ppb
Mn	55	29119.4	3.67615		ppb
Co	59	901	0.12894		ppb
Ni	60	7210.5	4.66141		ppb
As	75	101.3	0.30282		ppb
Se	77	638	-35.97238		ppb
Se	82	2.7	0.03512		ppb
Rh	103	363567.7			ppb
Cd	111	161	0.08746		ppb
Cd	114	266.3	0.06494		ppb
Sb	121	7607.2	1.40782		ppb
Sb	123	5984.2	1.3534		ppb
Ho	165	633295.6			ppb
Pb	208	39944.7	1.45692		ppb
Kr	83	22.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Date: Wednesday, August 03, 2011 17:45:43

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	37038.8			ppb
Be	9	8526	42.28658		ppb
Sc	45	104727.5			ppb
Cr	52	244784.1	53.14045		ppb
Cr	53	36506.9	10.20307		ppb
Mn	55	363590.5	56.09497		ppb
Co	59	315542.9	49.1783		ppb
Ni	60	72437.2	49.41953		ppb
As	75	47352.3	39.4527		ppb
Se	77	3187.6	-4.50595		ppb
Se	82	3685.5	34.02742		ppb
Rh	103	359982.1			ppb
Cd	111	68777.4	43.59123		ppb
Cd	114	157949.4	43.44312		ppb
Sb	121	199057.4	38.86731		ppb
Sb	123	150693.9	35.97521		ppb
Ho	165	607944.4			ppb
Pb	208	1291852.1	53.48289		ppb
Kr	83	31.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 FH

Sample Date: Wednesday, August 03, 2011 17:47:54

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	34640.2			ppb
Be	9	29.3	0.12774		ppb
Sc	45	108322.6			ppb
Cr	52	83140.5	13.71714		ppb
Cr	53	36396.8	15.55335		ppb
Mn	55	72512.4	11.53079		ppb
Co	59	4382.4	0.73436		ppb
Ni	60	55460.1	41.17049		ppb
As	75	11168.4	10.30901		ppb
Se	77	10776.7	100.68279		ppb
Se	82	8877.9	89.29461		ppb
Rh	103	330491.7			ppb
Cd	111	493.9	0.32784		ppb
Cd	114	752	0.21821		ppb
Sb	121	27727.9	5.88263		ppb
Sb	123	21436.5	5.56124		ppb
Ho	165	558390.6			ppb
Pb	208	95544.1	4.18369		ppb
Kr	83	-727.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Date: Wednesday, August 03, 2011 17:50:04

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	36142			ppb
Be	9	36.3	0.15602		ppb
Sc	45	107883.1			ppb
Cr	52	25365	4.1257		ppb
Cr	53	35474.8	9.73082		ppb
Mn	55	26824.9	3.45846		ppb
Co	59	2684.7	0.41764		ppb
Ni	60	13781.1	9.42559		ppb
As	75	13011.1	11.23758		ppb
Se	77	12783.3	117.04422		ppb
Se	82	10939	103.25086		ppb
Rh	103	352044.1			ppb
Cd	111	344.8	0.20984		ppb
Cd	114	439.2	0.11597		ppb
Sb	121	4565.8	0.90304		ppb
Sb	123	3519.1	0.84997		ppb
Ho	165	588351.8			ppb
Pb	208	86279.5	3.56608		ppb
Kr	83	-299.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Date: Wednesday, August 03, 2011 17:52:13

Sample Date Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	36048.7			ppb
Be	9	37	0.15979		ppb
Sc	45	111137.2			ppb
Cr	52	26169.3	4.45829		ppb
Cr	53	36640.4	13.39506		ppb
Mn	55	27789.1	3.72276		ppb
Co	59	2686.4	0.4285		ppb
Ni	60	13611.2	9.54271		ppb
As	75	13356	11.81216		ppb
Se	77	12910.8	122.66152		ppb
Se	82	10876.9	105.20646		ppb
Rh	103	343574.4			ppb
Cd	111	406.1	0.25614		ppb
Cd	114	494.5	0.13491		ppb
Sb	121	4542.5	0.90317		ppb
Sb	123	3483.8	0.84582		ppb
Ho	165	585306.2			ppb
Pb	208	85505.5	3.55206		ppb
Kr	83	-292.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Date: Wednesday, August 03, 2011 17:54:22

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	38656.3			ppb
Be	9	288.7	1.34274		ppb
Sc	45	168338.3			ppb
Cr	52	196980.5	42.3578		ppb
Cr	53	30929.6	0.43541		ppb
Mn	55	263481	40.35162		ppb
Co	59	29667	4.6068		ppb
Ni	60	144910	98.95696		ppb
As	75	135253.3	112.08887		ppb
Se	77	83038.2	976.64171		ppb
Se	82	112210.7	1034.4687		ppb
Rh	103	360386.7			ppb
Cd	111	3515.1	2.21296		ppb
Cd	114	4471.7	1.22136		ppb
Sb	121	45824.6	8.05316		ppb
Sb	123	34841.3	7.48546		ppb
Ho	165	674258.8			ppb
Pb	208	934971.2	34.85263		ppb
Kr	83	-3907.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Date: Wednesday, August 03, 2011 17:56:32

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	38636			ppb
Be	9	288.3	1.3428		ppb
Sc	45	167681.9			ppb
Cr	52	202825.3	42.59276		ppb
Cr	53	29442	-3.36436		ppb
Mn	55	271748.6	40.64577		ppb
Co	59	30653	4.64749		ppb
Ni	60	148694.2	99.13664		ppb
As	75	134081	108.53226		ppb
Se	77	86360.7	992.35923		ppb
Se	82	113169.5	1018.7195		ppb
Rh	103	369122.5			ppb
Cd	111	3507.9	2.15505		ppb
Cd	114	4576.7	1.2199		ppb
Sb	121	46886.9	7.97425		ppb
Sb	123	35811.8	7.44594		ppb
Ho	165	696758.2			ppb
Pb	208	966686	34.87474		ppb
Kr	83	-4031.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Date: Wednesday, August 03, 2011 17:58:41

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	35355.8			ppb
Be	9	74	0.35569		ppb
Sc	45	126318.8			ppb
Cr	52	80647.6	16.23604		ppb
Cr	53	33148.7	3.88491		ppb
Mn	55	1293742.4	200.15118		ppb
Co	59	8186.4	1.25579		ppb
Ni	60	26538.7	17.81878		ppb
As	75	15637.8	13.07524		ppb
Se	77	14714.6	135.91645		ppb
Se	82	15461.5	141.65405		ppb
Rh	103	362697.4			ppb
Cd	111	1392.2	0.86235		ppb
Cd	114	928.1	0.24574		ppb
Sb	121	8079.6	1.50379		ppb
Sb	123	6090.9	1.38484		ppb
Ho	165	630307.6			ppb
Pb	208	112260.1	4.36078		ppb
Kr	83	-7254.6			mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da: Wednesday, August 03, 2011 18:00:50

Sample De: Airtech

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
V	Li	6	35347.2			ppb
T	Be	9	9583.4	49.80559		ppb
T	Sc	45	127750.4			ppb
T	Cr	52	314647.1	69.27718		ppb
T	Cr	53	62447.4	55.89388		ppb
T	Mn	55	1626093.6	255.63921		ppb
T	Co	59	320742.8	50.34348		ppb
T	Ni	60	96023.5	66.05986		ppb
T	As	75	72003.8	60.31043		ppb
T	Se	77	18255.7	182.56072		ppb
T	Se	82	20339.1	189.15822		ppb
V	Rh	103	357314.5			ppb
T	Cd	111	74580.4	47.62243		ppb
T	Cd	114	170147.5	47.14073		ppb
T	Sb	121	277686.2	52.04223		ppb
T	Sb	123	208901.7	47.8687		ppb
V	Ho	165	633699.7			ppb
T	Pb	208	1369409.7	54.40973		ppb
T	Kr	83	-7286.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 18:03:01

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
V	Li	6	33021.4			ppb
T	Be	9	4.7	-0.0028		ppb
T	Sc	45	101605.4			ppb
T	Cr	52	7531.5	0.09697		ppb
T	Cr	53	28480.2	-1.12662		ppb
T	Mn	55	5147.1	0.01425		ppb
T	Co	59	118.7	0.00948		ppb
T	Ni	60	322.7	0.00259		ppb
T	As	75	40.5	0.25455		ppb
T	Se	77	3560.4	2.38926		ppb
T	Se	82	27.7	0.27994		ppb
V	Rh	103	341668.2			ppb
T	Cd	111	32.4	0.00811		ppb
T	Cd	114	63.5	0.01086		ppb
T	Sb	121	123.7	0.00672		ppb
T	Sb	123	97.6	0.00577		ppb
V	Ho	165	580971.2			ppb
T	Pb	208	3338.9	0.01067		ppb
T	Kr	83	61.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 18:05:11

Sample Description:

Concentration Results

	Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
V	Li	6	33281.5			ppb
T	Be	9	19165.2	105.82477		ppb
T	Sc	45	99496.3			ppb
T	Cr	52	457505.5	109.38951		ppb
T	Cr	53	83242.1	103.30626		ppb
T	Mn	55	647689.4	109.12006		ppb
T	Co	59	628832	106.26249		ppb
T	Ni	60	138927.5	103.03198		ppb
T	As	75	111418.2	100.33361		ppb
T	Se	77	10976.3	102.70754		ppb
T	Se	82	10089.4	101.0311		ppb
V	Rh	103	331873			ppb
T	Cd	111	149775.7	102.97517		ppb
T	Cd	114	346470.1	103.35745		ppb
T	Sb	121	518124.5	106.84077		ppb
T	Sb	123	397204.2	100.09743		ppb
V	Ho	165	576349.2			ppb
T	Pb	208	2508602.5	109.75134		ppb
T	Kr	83	-9253.1			mg/L

## PerkinElmer ELAN 6100 ICP-MS

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-4 FH

Sample Da Wednesday, August 03, 2011 18:07:22

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	30952.6			ppb
- Be	9	36.3	0.18702		ppb
- Sc	45	102282.8			ppb
- Cr	52	36678.5	8.0683		ppb
- Cr	53	30697.7	10.0354		ppb
- Mn	55	76959.4	13.46778		ppb
- Co	59	3657.1	0.66663		ppb
- Ni	60	13203.9	10.51211		ppb
- As	75	19400.5	19.2984		ppb
- Se	77	9047.5	88.38956		ppb
- Se	82	7894.9	86.52858		ppb
> Rh	103	303197.8			ppb
- Cd	111	332.2	0.23659		ppb
- Cd	114	541.8	0.16942		ppb
- Sb	121	4312.4	0.94358		ppb
- Sb	123	3217.7	0.8597		ppb
> Ho	165	532512.3			ppb
- Pb	208	81361.6	3.72194		ppb
- Kr	83	-310			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-6 FH

Sample Da Wednesday, August 03, 2011 18:11:44

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	32698.5			ppb
- Be	9	106.7	0.57094		ppb
- Sc	45	153116.7			ppb
- Cr	52	199279.9	48.95447		ppb
- Cr	53	41575.2	28.65456		ppb
- Mn	55	694175.1	122.51394		ppb
- Co	59	13612.9	2.39741		ppb
- Ni	60	33390.5	25.74373		ppb
- As	75	14804.1	14.13895		ppb
- Se	77	5802.9	37.26504		ppb
- Se	82	4049.6	42.44025		ppb
> Rh	103	317123.4			ppb
- Cd	111	3257	2.3298		ppb
- Cd	114	2037.4	0.62852		ppb
- Sb	121	17257.7	3.49876		ppb
- Sb	123	13262.1	3.28632		ppb
> Ho	165	582693.7			ppb
- Pb	208	246450.5	10.53739		ppb
- Kr	83	-36842.1			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-7 FH

Sample Da Wednesday, August 03, 2011 18:13:55

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	38614.2			ppb
- Be	9	58.3	0.24911		ppb
- Sc	45	189703.4			ppb
- Cr	52	518695.9	113.87728		ppb
- Cr	53	66267.7	61.16717		ppb
- Mn	55	1228597.3	190.56974		ppb
- Co	59	20426.9	3.15791		ppb
- Ni	60	143663.9	97.74916		ppb
- As	75	26146.4	21.7721		ppb
- Se	77	7675.2	50.21922		ppb
- Se	82	9817.5	90.19868		ppb
> Rh	103	361680.7			ppb
- Cd	111	2673.5	1.67325		ppb
- Cd	114	2549.1	0.68973		ppb
- Sb	121	30449.9	5.06917		ppb
- Sb	123	23416.5	4.76558		ppb
> Ho	165	710851.4			ppb
- Pb	208	374057.8	13.14366		ppb
- Kr	83	-2513.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da Wednesday, August 03, 2011 18:16:06

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36369.9		ppb
Be	9	11.3	0.02853	ppb
Sc	45	116096		ppb
Cr	52	62292.7	11.74196	ppb
Cr	53	29008.6	-4.71973	ppb
Mn	55	1497857.3	224.83485	ppb
Co	59	5132.4	0.75957	ppb
Ni	60	26983.7	17.56873	ppb
As	75	4071	3.46674	ppb
Se	77	3612.7	-0.97047	ppb
Se	82	1054	9.37625	ppb
Rh	103	374041		ppb
Cd	111	900.8	0.53648	ppb
Cd	114	1612.6	0.41916	ppb
Sb	121	11595.1	2.02487	ppb
Sb	123	8917.9	1.90295	ppb
Ho	165	673851.2		ppb
Pb	208	87680.6	3.14851	ppb
Kr	83	-193.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da Wednesday, August 03, 2011 18:18:15

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36699.9		ppb
Be	9	13.3	0.03793	ppb
Sc	45	115658.5		ppb
Cr	52	60650.3	11.43276	ppb
Cr	53	30351.6	-2.32186	ppb
Mn	55	1452837.1	218.81348	ppb
Co	59	5041.7	0.74868	ppb
Ni	60	26370.9	17.22495	ppb
As	75	3506.3	3.02438	ppb
Se	77	3747.1	0.76787	ppb
Se	82	1039.1	9.27366	ppb
Rh	103	372702.7		ppb
Cd	111	846.4	0.50479	ppb
Cd	114	1542.3	0.40225	ppb
Sb	121	11082.4	1.95805	ppb
Sb	123	8452.2	1.82461	ppb
Ho	165	665822.8		ppb
Pb	208	81372.5	2.94918	ppb
Kr	83	-182.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Wednesday, August 03, 2011 18:20:25

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	40587		ppb
Be	9	16.3	0.0452	ppb
Sc	45	577656.1		ppb
Cr	52	60586.9	11.79874	ppb
Cr	53	21350.8	-16.34946	ppb
Mn	55	98316.2	14.46118	ppb
Co	59	17013.6	2.62487	ppb
Ni	60	18122.4	12.11337	ppb
As	75	6056.4	5.20598	ppb
Se	77	2518.3	-12.96481	ppb
Se	82	1316.2	12.08543	ppb
Rh	103	362154.5		ppb
Cd	111	654.6	0.39889	ppb
Cd	114	174.3	0.04005	ppb
Sb	121	60192	11.1657	ppb
Sb	123	46048.8	10.44287	ppb
Ho	165	639179.7		ppb
Pb	208	73846.1	2.78056	ppb
Kr	83	-806.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Wednesday, August 03, 2011 18:22:34

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40337.1		ppb
- Be	9	9440.9	43.00515	ppb
- Sc	45	505756.5		ppb
- Cr	52	304567.1	68.87287	ppb
- Cr	53	48833.5	34.44039	ppb
- Mn	55	425832.5	68.14759	ppb
- Co	59	323934.9	52.22577	ppb
- Ni	60	83508.1	58.99409	ppb
- As	75	56043.6	48.26336	ppb
- Se	77	5204.2	22.49623	ppb
- Se	82	4897.9	46.79757	ppb
> Rh	103	347828.6		ppb
- Cd	111	64351.5	42.20432	ppb
- Cd	114	148851.4	42.36208	ppb
- Sb	121	336861.6	67.99254	ppb
- Sb	123	257059.9	63.43865	ppb
> Ho	165	588249.4		ppb
- Pb	208	1277660.1	54.6697	ppb
- Kr	83	-677.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 FH

Sample Da Wednesday, August 03, 2011 18:24:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	42943		ppb
- Be	9	91.7	0.36371	ppb
- Sc	45	397532.1		ppb
- Cr	52	323260.4	72.47944	ppb
- Cr	53	42714.8	22.74376	ppb
- Mn	55	322557.6	50.91123	ppb
- Co	59	26718.2	4.25652	ppb
- Ni	60	117310.6	82.15689	ppb
- As	75	93825.8	79.88208	ppb
- Se	77	24667.1	267.30759	ppb
- Se	82	32370.3	306.30171	ppb
> Rh	103	351226.5		ppb
- Cd	111	4945.9	3.18913	ppb
- Cd	114	6741.3	1.89314	ppb
- Sb	121	35751.8	6.54898	ppb
- Sb	123	27278.6	6.10864	ppb
> Ho	165	646540.9		ppb
- Pb	208	1152216.4	44.83327	ppb
- Kr	83	-2404		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 FH

Sample Da Wednesday, August 03, 2011 18:26:54

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	41420.7		ppb
- Be	9	242.7	1.04874	ppb
- Sc	45	475127.8		ppb
- Cr	52	1168558.6	283.1946	ppb
- Cr	53	143232	217.16933	ppb
- Mn	55	1925447.8	327.43374	ppb
- Co	59	67852.4	11.50413	ppb
- Ni	60	115145.8	85.71929	ppb
- As	75	84809	76.73099	ppb
- Se	77	25053.1	292.01732	ppb
- Se	82	32821.7	330.02786	ppb
> Rh	103	330486.6		ppb
- Cd	111	13126.9	9.05214	ppb
- Cd	114	6451.5	1.92581	ppb
- Sb	121	54935.5	13.01868	ppb
- Sb	123	41758.7	12.09811	ppb
> Ho	165	500488.8		ppb
- Pb	208	883558.3	44.41485	ppb
- Kr	83	-120673.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 18:29:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	36957.3			ppb
Be	9	4.7	-0.0056		ppb
Sc	45	99436			ppb
Cr	52	7132.2	0.08248		ppb
Cr	53	17934	-18.76006		ppb
Mn	55	6834	0.34352		ppb
Co	59	4815.9	0.80873		ppb
Ni	60	465	0.12077		ppb
As	75	151.3	0.35608		ppb
Se	77	2744.7	-6.42495		ppb
Se	82	-48.6	-0.49019		ppb
Rh	103	325647.3			ppb
Cd	111	44	0.01714		ppb
Cd	114	30.3	0.00162		ppb
Sb	121	127	0.00894		ppb
Sb	123	104.4	0.00902		ppb
Ho	165	544013.2			ppb
Pb	208	3709.3	0.03707		ppb
Kr	83	20.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 18:31:15

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	36551.2			ppb
Be	9	20050.8	100.80837		ppb
Sc	45	96617.7			ppb
Cr	52	425388.9	105.70304		ppb
Cr	53	69791.6	83.23441		ppb
Mn	55	612483.7	107.27027		ppb
Co	59	589768.8	103.6008		ppb
Ni	60	131539.7	101.39825		ppb
As	75	104229.2	97.56832		ppb
Se	77	9733.9	91.27213		ppb
Se	82	9418.9	98.04508		ppb
Rh	103	319287			ppb
Cd	111	144120.9	103.00352		ppb
Cd	114	334392.1	103.70771		ppb
Sb	121	496632.7	109.58903		ppb
Sb	123	380975.8	102.78971		ppb
Ho	165	538143.9			ppb
Pb	208	2250946.9	105.40498		ppb
Kr	83	-8850.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 FH

Sample Date: Wednesday, August 03, 2011 18:33:26

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	41159.1			ppb
Be	9	163.7	0.70237		ppb
Sc	45	328336.5			ppb
Cr	52	1071431.5	254.36776		ppb
Cr	53	132788.6	192.5344		ppb
Mn	55	742400.2	123.22949		ppb
Co	59	61220.6	10.17394		ppb
Ni	60	208199.1	152.11295		ppb
As	75	106323.9	94.26063		ppb
Se	77	33882	401.36072		ppb
Se	82	44905.4	442.60123		ppb
Rh	103	337135.6			ppb
Cd	111	9221.5	6.22937		ppb
Cd	114	8287.7	2.42652		ppb
Sb	121	159793.4	35.00784		ppb
Sb	123	121709	32.60261		ppb
Ho	165	541808.3			ppb
Pb	208	569697.2	28.39836		ppb
Kr	83	-84491.6			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 FH

Sample Date: Wednesday, August 03, 2011 18:35:37

Sample From: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	39305.9		ppb
Be	9	8	0.00887	ppb
Sc	45	114340.8		ppb
Cr	52	187020	42.55801	ppb
Cr	53	37679.3	15.87242	ppb
Mn	55	54303.1	8.14771	ppb
Co	59	6867.3	1.12067	ppb
Ni	60	39270.6	28.20981	ppb
As	75	9960.1	8.9356	ppb
Se	77	11317.7	103.38143	ppb
Se	82	12167.7	118.69711	ppb
Rh	103	340625.8		ppb
Cd	111	571.3	0.36923	ppb
Cd	114	915.4	0.25849	ppb
Sb	121	9706.2	1.97373	ppb
Sb	123	7447.8	1.85061	ppb
Ho	165	578463.8		ppb
Pb	208	205610.3	8.83377	ppb
Kr	83	-168.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Date: Wednesday, August 03, 2011 18:37:47

Sample From: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	41077.1		ppb
Be	9	22.3	0.07113	ppb
Sc	45	240168.5		ppb
Cr	52	895938.8	208.03614	ppb
Cr	53	117054.5	158.9674	ppb
Mn	55	670979.7	109.00637	ppb
Co	59	18320.8	2.97526	ppb
Ni	60	166179.5	118.87506	ppb
As	75	38154.7	33.27834	ppb
Se	77	27904.8	315.28285	ppb
Se	82	35876.3	346.36445	ppb
Rh	103	344186		ppb
Cd	111	4579.2	3.02252	ppb
Cd	114	9448.5	2.71032	ppb
Sb	121	20618.7	4.05859	ppb
Sb	123	15820.2	3.80663	ppb
Ho	165	600607.7		ppb
Pb	208	859947.2	35.99274	ppb
Kr	83	-893.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Date: Wednesday, August 03, 2011 18:39:56

Sample From: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	39334.4		ppb
Be	9	20.3	0.06574	ppb
Sc	45	226373		ppb
Cr	52	874566.1	217.17931	ppb
Cr	53	115333	170.29666	ppb
Mn	55	661031.8	114.84378	ppb
Co	59	18877	3.27634	ppb
Ni	60	164866.9	126.09791	ppb
As	75	37441.2	34.90784	ppb
Se	77	27269.2	331.39707	ppb
Se	82	35281	364.18673	ppb
Rh	103	321965.8		ppb
Cd	111	4503.1	3.17768	ppb
Cd	114	9155.7	2.8077	ppb
Sb	121	19193.2	4.08196	ppb
Sb	123	14573.9	3.78816	ppb
Ho	165	555859.9		ppb
Pb	208	843606.3	38.16295	ppb
Kr	83	-930		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:42:07

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39272.8		ppb
- Be	9	41	0.16329	ppb
- Sc	45	155234.5		ppb
- Cr	52	1132530.5	290.09296	ppb
- Cr	53	137518.5	221.10934	ppb
- Mn	55	1977063.3	355.4589	ppb
- Co	59	36045.7	6.45512	ppb
- Ni	60	287522.3	226.58447	ppb
- As	75	85938.1	82.17632	ppb
- Se	77	72870	988.21019	ppb
- Se	82	98872.2	1050.6066	ppb
> Rh	103	312691.9		ppb
- Cd	111	10858.7	7.91143	ppb
- Cd	114	22573.6	7.1399	ppb
- Sb	121	56535.3	11.27419	ppb
- Sb	123	43221.8	10.53746	ppb
> Ho	165	594556.1		ppb
- Pb	208	777976	32.88188	ppb
- Kr	83	-1572.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:44:17

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37564		ppb
- Be	9	8589.7	42.00281	ppb
- Sc	45	162968.3		ppb
- Cr	52	1306942.9	348.12093	ppb
- Cr	53	161422	281.40871	ppb
- Mn	55	2066395	386.0604	ppb
- Co	59	315769.7	58.84282	ppb
- Ni	60	334380.4	273.87996	ppb
- As	75	121278	120.41406	ppb
- Se	77	71317.3	1005.8116	ppb
- Se	82	97451.8	1076.1185	ppb
> Rh	103	300934.6		ppb
- Cd	111	68814.1	52.17189	ppb
- Cd	114	158547.3	52.15879	ppb
- Sb	121	282507.1	56.06694	ppb
- Sb	123	217069.1	52.67378	ppb
> Ho	165	598204.4		ppb
- Pb	208	1986286.7	83.64788	ppb
- Kr	83	-1494.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:46:28

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34974.4		ppb
- Be	9	17.7	0.06471	ppb
- Sc	45	106891.1		ppb
- Cr	52	109288.3	27.17349	ppb
- Cr	53	25435.2	-1.14135	ppb
- Mn	55	185275.9	33.37184	ppb
- Co	59	3627.7	0.65692	ppb
- Ni	60	28024.5	22.42372	ppb
- As	75	8273.6	8.30157	ppb
- Se	77	9327.1	91.57494	ppb
- Se	82	9781.6	108.4961	ppb
> Rh	103	305215.3		ppb
- Cd	111	1232.6	0.90826	ppb
- Cd	114	2540.5	0.81679	ppb
- Sb	121	5925.6	1.2689	ppb
- Sb	123	4627.8	1.21075	ppb
> Ho	165	546614.8		ppb
- Pb	208	79339.6	3.52813	ppb
- Kr	83	-82.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Date: Wednesday, August 03, 2011 18:48:37

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas. Report	Unit
> Li	6	33597.3			ppb
- Be	9	9049.2	49.50449		ppb
- Sc	45	103147.9			ppb
- Cr	52	299131.8	81.06302		ppb
- Cr	53	49479	52.81655		ppb
- Mn	55	462889.9	88.70934		ppb
- Co	59	270811.3	52.13505		ppb
- Ni	60	88107.1	74.37541		ppb
- As	75	53859.5	55.35709		ppb
- Se	77	12239.6	142.34512		ppb
- Se	82	13801.1	157.46676		ppb
> Rh	103	291303.6			ppb
- Cd	111	65565.7	51.34432		ppb
- Cd	114	153366.7	52.11711		ppb
- Sb	121	240528.9	54.56156		ppb
- Sb	123	183369.9	50.85689		ppb
> Ho	165	523422.2			ppb
- Pb	208	1204536.9	57.93557		ppb
- Kr	83	-86			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 FH

Sample Date: Wednesday, August 03, 2011 18:50:47

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas. Report	Unit
> Li	6	35557.9			ppb
- Be	9	21.3	0.08183		ppb
- Sc	45	105586.1			ppb
- Cr	52	236536.1	60.92106		ppb
- Cr	53	42666.2	34.2843		ppb
- Mn	55	174704.8	31.50151		ppb
- Co	59	8824.9	1.61616		ppb
- Ni	60	69196.4	55.84174		ppb
- As	75	18991.2	18.82461		ppb
- Se	77	8055.9	73.44221		ppb
- Se	82	7958.9	86.88167		ppb
> Rh	103	304438.9			ppb
- Cd	111	1405	1.03947		ppb
- Cd	114	3030.6	0.97845		ppb
- Sb	121	11884.1	2.51848		ppb
- Sb	123	8999.8	2.32968		ppb
> Ho	165	556652.3			ppb
- Pb	208	129200.3	5.72379		ppb
- Kr	83	-385			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 FH

Sample Date: Wednesday, August 03, 2011 18:52:58

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas. Report	Unit
> Li	6	37785.6			ppb
- Be	9	140.7	0.65615		ppb
- Sc	45	174677.1			ppb
- Cr	52	818975.9	200.10552		ppb
- Cr	53	101031.5	139.59752		ppb
- Mn	55	1747266.8	300.27933		ppb
- Co	59	41720.6	7.14567		ppb
- Ni	60	117634.6	88.52282		ppb
- As	75	114584.3	104.7095		ppb
- Se	77	30112.8	364.11223		ppb
- Se	82	40073.4	407.27363		ppb
> Rh	103	326949.2			ppb
- Cd	111	8538.8	5.94601		ppb
- Cd	114	9260.7	2.79666		ppb
- Sb	121	186659.4	40.03131		ppb
- Sb	123	143021	37.50259		ppb
> Ho	165	553460			ppb
- Pb	208	995305.6	45.2456		ppb
- Kr	83	-72001.8			mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 1  
 Sample Date: Wednesday, August 03, 2011 18:55:09  
 Sample Description:  
 Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	35889.4	ppb
	Be	9	5	-0.00314 ppb
	Sc	45	95983.4	ppb
	Cr	52	7532.2	0.28374 ppb
	Cr	53	21536.5	-9.68648 ppb
	Mn	55	5761.9	0.21572 ppb
	Co	59	84.3	0.00524 ppb
	Ni	60	390	0.08091 ppb
	As	75	-195.3	0.0314 ppb
	Se	77	3336.6	4.0207 ppb
	Se	82	38	0.41857 ppb
>	Rh	103	309295.7	ppb
	Cd	111	28.7	0.00759 ppb
	Cd	114	31.1	0.00236 ppb
	Sb	121	212.3	0.02933 ppb
	Sb	123	168.5	0.0279 ppb
>	Hg	165	527402.4	ppb
	Pb	208	3322.9	0.02473 ppb
	Kr	83	12.3	mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 4  
 Sample Date: Wednesday, August 03, 2011 18:57:18  
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	35626.1	ppb
	Be	9	18976.5	97.90011 ppb
	Sc	45	93036.3	ppb
	Cr	52	404677.3	107.17109 ppb
	Cr	53	68569.6	89.63026 ppb
	Mn	55	575669.9	107.4404 ppb
	Co	59	555634.6	104.02253 ppb
	Ni	60	125103.3	102.77786 ppb
	As	75	98460.3	98.22139 ppb
	Se	77	9713.9	99.83427 ppb
	Se	82	8813.2	97.76549 ppb
>	Rh	103	299594.4	ppb
	Cd	111	135435.2	103.14227 ppb
	Cd	114	316892	104.72847 ppb
	Sb	121	474127.1	110.92842 ppb
	Sb	123	362598.3	103.72568 ppb
>	Hg	165	507525	ppb
	Pb	208	2139977	106.25615 ppb
	Kr	83	-8189.8	mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-18 FH  
 Sample Date: Wednesday, August 03, 2011 18:59:30  
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
>	Li	6	37573	ppb
	Be	9	26	0.09863 ppb
	Sc	45	119297.7	ppb
	Cr	52	92907.4	21.2303 ppb
	Cr	53	30195.4	4.51678 ppb
	Mn	55	58201.4	9.20256 ppb
	Co	59	4357.4	0.73804 ppb
	Ni	60	16144.3	11.95791 ppb
	As	75	20106.3	18.57039 ppb
	Se	77	11137.5	107.20333 ppb
	Se	82	11179.8	113.7018 ppb
>	Rh	103	326828.9	ppb
	Cd	111	1255.5	0.86298 ppb
	Cd	114	1582.7	0.47195 ppb
	Sb	121	8555	1.77252 ppb
	Sb	123	6496	1.64392 ppb
>	Hg	165	567550.8	ppb
	Pb	208	132660.2	5.76393 ppb
	Kr	83	-7237.3	mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 FH

Sample Da Wednesday, August 03, 2011 19:01:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	44390.6		ppb
Be	9	171.3	0.68067	ppb
Sc	45	294418.1		ppb
Cr	52	1046128.1	242.74716	ppb
Cr	53	129879.7	181.81922	ppb
Mn	55	781222.3	126.81836	ppb
Co	59	32766.7	5.31912	ppb
Ni	60	200744.8	143.38835	ppb
As	75	42668.4	37.11885	ppb
Se	77	8621.1	66.97795	ppb
Se	82	11311.7	109.01259	ppb
Rh	103	344814.1		ppb
Cd	111	6228.2	4.10961	ppb
Cd	114	11123.4	3.18575	ppb
Sb	121	66254.3	11.31787	ppb
Sb	123	51019.5	10.65456	ppb
Ho	165	694120.1		ppb
Pb	208	1137907.3	41.22409	ppb
Kr	83	-2676.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Da Wednesday, August 03, 2011 19:03:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37758.6		ppb
Be	9	10.3	0.02156	ppb
Sc	45	139561.8		ppb
Cr	52	103533.9	23.85371	ppb
Cr	53	26125.5	-3.24322	ppb
Mn	55	73200	11.78916	ppb
Co	59	2743.7	0.46099	ppb
Ni	60	23604.3	17.59052	ppb
As	75	5785.5	5.49951	ppb
Se	77	3706.1	6.47212	ppb
Se	82	2218	22.56722	ppb
Rh	103	326728.4		ppb
Cd	111	1100.9	0.75529	ppb
Cd	114	2027.7	0.60683	ppb
Sb	121	20802.8	4.09775	ppb
Sb	123	15833.1	3.8121	ppb
Ho	165	600314.8		ppb
Pb	208	2743532.1	115.19002	ppb
Kr	83	-387		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Da Wednesday, August 03, 2011 19:06:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	39839.7		ppb
Be	9	11.3	0.02368	ppb
Sc	45	143191.6		ppb
Cr	52	102712.8	22.80618	ppb
Cr	53	26875.7	-3.51883	ppb
Mn	55	72714.4	11.28665	ppb
Co	59	2754.1	0.44685	ppb
Ni	60	23085.3	16.62012	ppb
As	75	5681.9	5.23146	ppb
Se	77	3740.1	5.25117	ppb
Se	82	2238.2	22.0172	ppb
Rh	103	337978.6		ppb
Cd	111	1070.3	0.70921	ppb
Cd	114	1996.6	0.57709	ppb
Sb	121	20330.4	3.96018	ppb
Sb	123	15600.8	3.71485	ppb
Ho	165	606815.2		ppb
Pb	208	2663186.6	110.60538	ppb
Kr	83	-393.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 19:08:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39094.8		ppb
- Be	9	9.7	0.01663	ppb
- Sc	45	104224.8		ppb
- Cr	52	134390.9	31.40196	ppb
- Cr	53	31563.7	7.02535	ppb
- Mn	55	71034.1	11.39296	ppb
- Co	59	3076.5	0.51709	ppb
- Ni	60	30279	22.58924	ppb
- As	75	4654.7	4.45977	ppb
- Se	77	3603	4.98951	ppb
- Se	82	2042.6	20.74442	ppb
> Rh	103	327318.7		ppb
- Cd	111	574.3	0.38686	ppb
- Cd	114	824.1	0.2417	ppb
- Sb	121	102294.4	20.40521	ppb
- Sb	123	79017.6	19.27135	ppb
> Ho	165	594951.4		ppb
- Pb	208	138438.6	5.73804	ppb
- Kr	83	-329.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 19:10:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38038.1		ppb
- Be	9	9374.8	45.28718	ppb
- Sc	45	104787.2		ppb
- Cr	52	342372	83.50983	ppb
- Cr	53	58964.6	56.58632	ppb
- Mn	55	373869.1	64.21959	ppb
- Co	59	289934.5	50.20554	ppb
- Ni	60	94089.1	71.44349	ppb
- As	75	52664.8	48.71188	ppb
- Se	77	6602.7	46.53962	ppb
- Se	82	6092.1	62.51296	ppb
> Rh	103	323839.5		ppb
> Cd	111	68318.1	48.12809	ppb
- Cd	114	158257.5	48.37556	ppb
- Sb	121	347183	71.08904	ppb
- Sb	123	265140.1	66.37905	ppb
> Ho	165	579949.7		ppb
- Pb	208	1300820.1	56.46527	ppb
- Kr	83	-325.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 FH

Sample Da Wednesday, August 03, 2011 19:12:31

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	43590.4		ppb
- Be	9	95.3	0.37325	ppb
- Sc	45	220399.8		ppb
- Cr	52	821986.7	191.41619	ppb
- Cr	53	102078	132.52485	ppb
- Mn	55	1452807.1	237.8255	ppb
- Co	59	24483.6	3.99366	ppb
- Ni	60	213973.1	153.66531	ppb
- As	75	46404.9	42.30819	ppb
- Se	77	4119.6	9.4366	ppb
- Se	82	5311.7	51.49115	ppb
> Rh	103	342966.5		ppb
- Cd	111	2870.1	1.89639	ppb
- Cd	114	4242.3	1.21756	ppb
- Sb	121	31794.2	5.33537	ppb
- Sb	123	24180.9	4.96044	ppb
> Ho	165	705317.7		ppb
- Pb	208	850535.6	30.29206	ppb
- Kr	83	-2424.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 FH

Sample Da Wednesday, August 03, 2011 19:14:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	40679		ppb
Be	9	271	1.19556	ppb
Sc	45	192024.7		ppb
Cr	52	954858.3	215.90364	ppb
Cr	53	116948.1	153.18537	ppb
Mn	55	1915602.2	304.61971	ppb
Co	59	64652.2	10.24863	ppb
Ni	60	277627.1	193.49978	ppb
As	75	141036.1	119.18406	ppb
Se	77	6583.7	38.7403	ppb
Se	82	8610	80.94846	ppb
Rh	103	353520.1		ppb
Cd	111	5543.6	3.56493	ppb
Cd	114	4202.1	1.16931	ppb
Sb	121	47727	9.17165	ppb
Sb	123	36444.5	8.56086	ppb
Ho	165	816855.1		ppb
Pb	208	1753344.4	71.59186	ppb
Kr	83	-44391.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 FH

Sample Da Wednesday, August 03, 2011 19:16:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	38798.1		ppb
Be	9	272.7	1.26262	ppb
Sc	45	418554.9		ppb
Cr	52	882566.9	223.1374	ppb
Cr	53	109974.9	163.73038	ppb
Mn	55	3418831.2	608.20675	ppb
Co	59	71784.9	12.71708	ppb
Ni	60	118300.8	92.03661	ppb
As	75	111109.1	104.96575	ppb
Se	77	8361.5	73.32227	ppb
Se	82	10714.9	112.5814	ppb
Rh	103	316296.6		ppb
Cd	111	11799.8	8.49903	ppb
Cd	114	4719.6	1.46957	ppb
Sb	121	28625.3	8.417	ppb
Sb	123	21769.7	7.82477	ppb
Ho	165	403008.8		ppb
Pb	208	911137.4	56.91017	ppb
Kr	83	-145903		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 FH

Sample Da Wednesday, August 03, 2011 19:19:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	38551.6		ppb
Be	9	18.7	0.06005	ppb
Sc	45	133761.1		ppb
Cr	52	88515	19.25675	ppb
Cr	53	23611.6	-9.88145	ppb
Mn	55	289628.5	47.07212	ppb
Co	59	8023.2	1.31094	ppb
Ni	60	125102.7	90.36748	ppb
As	75	5345.9	4.89775	ppb
Se	77	5869.6	32.54887	ppb
Se	82	4843.6	47.25568	ppb
Rh	103	340629.3		ppb
Cd	111	1751.7	1.15986	ppb
Cd	114	3508.2	1.01207	ppb
Sb	121	8810.6	1.68485	ppb
Sb	123	6667	1.55745	ppb
Ho	165	614252.1		ppb
Pb	208	114060.1	4.5505	ppb
Kr	83	-429.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 19:21:12

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	35477.3		ppb
- Be	9	6.3	0.00397	ppb
- Sc	45	98241		ppb
- Cr	52	5605.4	-0.22003	ppb
- Cr	53	16290.9	-20.29127	ppb
- Mn	55	4365	-0.04038	ppb
- Co	59	67.3	0.00213	ppb
- Ni	60	290	0.00082	ppb
- As	75	-72	0.14844	ppb
- Se	77	2394.3	-9.50516	ppb
- Se	82	-36.9	-0.38637	ppb
> Rh	103	309580.1		ppb
- Cd	111	21.6	0.00233	ppb
- Cd	114	15.4	-0.00267	ppb
- Sb	121	55.3	-0.00664	ppb
- Sb	123	57.9	-0.00335	ppb
> Ho	165	546996.6		ppb
- Pb	208	2221.1	-0.03201	ppb
- Kr	83	97		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 19:23:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	33554.3		ppb
- Be	9	18795.1	102.99344	ppb
- Sc	45	91301.5		ppb
- Cr	52	407517.7	113.05373	ppb
- Cr	53	65269.8	89.11173	ppb
- Mn	55	582748.9	113.89586	ppb
- Co	59	553565.1	108.47824	ppb
- Ni	60	125303.7	107.77783	ppb
- As	75	98438.1	102.78082	ppb
- Se	77	9082.5	96.77111	ppb
- Se	82	8920.6	103.58063	ppb
> Rh	103	286196.2		ppb
> Cd	111	138187.6	110.16442	ppb
- Cd	114	321480.3	111.20066	ppb
- Sb	121	489523.3	112.59719	ppb
- Sb	123	375643.3	105.639	ppb
> Ho	165	516338.7		ppb
- Pb	208	239101.5	114.17127	ppb
- Kr	83	-8371.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Da Wednesday, August 03, 2011 19:25:32

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	32799.7		ppb
- Be	9	18	0.0727	ppb
- Sc	45	113973.4		ppb
- Cr	52	148958.4	39.66136	ppb
- Cr	53	33565.2	18.98769	ppb
- Mn	55	185528.3	35.17266	ppb
- Co	59	52641.3	10.15993	ppb
- Ni	60	350402.9	297.50693	ppb
- As	75	3706.7	4.0274	ppb
- Se	77	4965.7	31.99276	ppb
- Se	82	3566.9	40.83085	ppb
> Rh	103	290311.5		ppb
- Cd	111	614.5	0.46955	ppb
- Cd	114	1241.3	0.41583	ppb
- Sb	121	31833	7.21482	ppb
- Sb	123	24201.3	6.70518	ppb
> Ho	165	522670.5		ppb
- Pb	208	64982.9	3.00271	ppb
- Kr	83	-253.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Da: Wednesday, August 03, 2011 19:27:42

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37193.8		ppb
- Be	9	11.3	0.02713	ppb
- Sc	45	123829.8		ppb
- Cr	52	151511.7	35.3222	ppb
- Cr	53	33873.3	10.92051	ppb
- Mn	55	186045.7	30.94095	ppb
- Co	59	53117.1	9.01978	ppb
- Ni	60	353112.6	283.80222	ppb
- As	75	3889.3	3.73468	ppb
- Se	77	5108.8	24.79939	ppb
- Se	82	3666.3	36.94609	ppb
> Rh	103	329921.3		ppb
- Cd	111	691.2	0.46447	ppb
- Cd	114	1080	0.31665	ppb
- Sb	121	32033.3	6.35182	ppb
- Sb	123	24287.7	5.8866	ppb
> Ho	165	597244.5		ppb
- Pb	208	63921.1	2.56617	ppb
- Kr	83	-273		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Da: Wednesday, August 03, 2011 19:29:51

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37285.1		ppb
- Be	9	12	0.03048	ppb
- Sc	45	113993.9		ppb
- Cr	52	63573.5	13.92747	ppb
- Cr	53	22515.9	-10.32851	ppb
- Mn	55	73247	11.74081	ppb
- Co	59	5296.9	0.89526	ppb
- Ni	60	40956.1	30.55157	ppb
- As	75	7351.5	6.90126	ppb
- Se	77	6953	50.06252	ppb
- Se	82	6388.5	64.69322	ppb
> Rh	103	328207.8		ppb
- Cd	111	620.5	0.41781	ppb
- Cd	114	840.8	0.24612	ppb
- Sb	121	3046.5	0.60123	ppb
- Sb	123	2299.5	0.55362	ppb
> Ho	165	583566.2		ppb
- Pb	208	46825.2	1.89041	ppb
- Kr	83	-528.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Da: Wednesday, August 03, 2011 19:32:01

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37169		ppb
- Be	9	9432.6	46.62592	ppb
- Sc	45	113444.3		ppb
- Cr	52	265865.7	64.83849	ppb
- Cr	53	47097.4	38.09273	ppb
- Mn	55	375103.9	64.79739	ppb
- Co	59	292684.7	50.95865	ppb
- Ni	60	104978.4	80.17793	ppb
- As	75	56307.5	52.35011	ppb
- Se	77	9938.8	92.91153	ppb
- Se	82	10767.1	111.08238	ppb
> Rh	103	322100		ppb
- Cd	111	69104.6	48.95291	ppb
- Cd	114	159980.2	49.17377	ppb
- Sb	121	250025.6	50.76206	ppb
- Sb	123	192281.1	47.73336	ppb
> Ho	165	584731.2		ppb
- Pb	208	1213754.5	52.24456	ppb
- Kr	83	-531.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-28 FH

Sample Da Wednesday, August 03, 2011 19:34:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	41757.7		ppb
Be	9	65.7	0.26068	ppb
Sc	45	145232.3		ppb
Cr	52	348318.8	83.47009	ppb
Cr	53	45062.1	32.17421	ppb
Mn	55	275080	46.19605	ppb
Co	59	22061.1	3.74385	ppb
Ni	60	76700.3	57.1775	ppb
As	75	50352.9	45.78339	ppb
Se	77	11521	111.08215	ppb
Se	82	15405.4	155.35302	ppb
Rh	103	329567.8		ppb
Cd	111	2798.4	1.92452	ppb
Cd	114	4219.7	1.26018	ppb
Sb	121	51408.3	9.18949	ppb
Sb	123	39334.5	8.59509	ppb
Ho	165	663143.5		ppb
Pb	208	12385608	471.1283	ppb
Kr	83	-8096.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 FH

Sample Da Wednesday, August 03, 2011 19:36:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	41442		ppb
Be	9	63.7	0.25264	ppb
Sc	45	316738.7		ppb
Cr	52	342401.1	88.51761	ppb
Cr	53	43766.5	36.14761	ppb
Mn	55	367893.3	66.93535	ppb
Co	59	18344.5	3.3532	ppb
Ni	60	71830.5	57.70401	ppb
As	75	36850.2	36.14959	ppb
Se	77	9440.2	92.90412	ppb
Se	82	12555.9	136.43679	ppb
Rh	103	305860.7		ppb
Cd	111	3955.5	2.93768	ppb
Cd	114	6508.9	2.0993	ppb
Sb	121	13889.6	2.62027	ppb
Sb	123	10714.1	2.46974	ppb
Ho	165	625082.7		ppb
Pb	208	1500309.8	60.42297	ppb
Kr	83	-5223.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 FH

Sample Da Wednesday, August 03, 2011 19:38:30

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	45013.6		ppb
Be	9	54	0.19162	ppb
Sc	45	299682.2		ppb
Cr	52	321412.7	77.04454	ppb
Cr	53	40600.1	23.86504	ppb
Mn	55	259869.1	43.67996	ppb
Co	59	17232.7	2.92821	ppb
Ni	60	84808.2	63.36928	ppb
As	75	57779.1	52.58865	ppb
Se	77	19856	223.60727	ppb
Se	82	26651.3	269.23297	ppb
Rh	103	328928.2		ppb
Cd	111	8831.8	6.11345	ppb
Cd	114	18566.8	5.58128	ppb
Sb	121	34575.6	6.15267	ppb
Sb	123	26458.5	5.75559	ppb
Ho	165	665372.4		ppb
Pb	208	270100.4	10.10804	ppb
Kr	83	-6769.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-31 FH

Sample Da Wednesday, August 03, 2011 19:40:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	43764.3		ppb
- Be	9	12.3	0.02274	ppb
- Sc	45	104249.7		ppb
- Cr	52	20744	3.40773	ppb
- Cr	53	3687.8	-46.09839	ppb
- Mn	55	46533.2	7.14194	ppb
- Co	59	433.7	0.06405	ppb
- Ni	60	2116.2	1.35882	ppb
- As	75	293.9	0.48595	ppb
- Se	77	170.3	-41.45636	ppb
- Se	82	31.1	0.32906	ppb
> Rh	103	328712.4		ppb
- Cd	111	132.6	0.07844	ppb
- Cd	114	-352.6	-0.11372	ppb
- Sb	121	68881.4	12.07026	ppb
- Sb	123	52839.2	11.32099	ppb
> Ho	165	676632.8		ppb
- Pb	208	44370.2	1.52048	ppb
- Kr	83	-88.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Wednesday, August 03, 2011 19:42:50

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	48257.9		ppb
- Be	9	6.3	-0.00461	ppb
- Sc	45	115657.7		ppb
- Cr	52	32638.8	5.60624	ppb
- Cr	53	5207.2	-44.08919	ppb
- Mn	55	40736.5	5.52787	ppb
- Co	59	1631.6	0.24211	ppb
- Ni	60	11325.7	7.51369	ppb
- As	75	158.2	0.34999	ppb
- Se	77	206	-41.22341	ppb
- Se	82	48.2	0.45529	ppb
> Rh	103	360679.8		ppb
- Cd	111	165.4	0.09121	ppb
- Cd	114	302.4	0.07505	ppb
- Sb	121	405779.3	65.55073	ppb
- Sb	123	311166.1	61.46172	ppb
> Ho	165	734908.6		ppb
- Pb	208	59277.5	1.90083	ppb
- Kr	83	30.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Wednesday, August 03, 2011 19:44:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	49299.7		ppb
- Be	9	9202.3	34.28506	ppb
- Sc	45	117406.4		ppb
- Cr	52	264295.3	56.54389	ppb
- Cr	53	33017.2	3.19206	ppb
- Mn	55	407033.4	61.87008	ppb
- Co	59	335603	51.45269	ppb
- Ni	60	76121.4	51.10882	ppb
- As	75	40345.7	33.10662	ppb
- Se	77	2619	-12.04358	ppb
- Se	82	3364.6	30.57698	ppb
> Rh	103	365771.3		ppb
- Cd	111	64531.3	40.25505	ppb
- Cd	114	150640.4	40.77356	ppb
- Sb	121	251206.6	40.00898	ppb
- Sb	123	193174.3	37.61702	ppb
> Ho	165	745320.3		ppb
- Pb	208	1564430.5	52.82888	ppb
- Kr	83	45.5		mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 19:47:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	38375.7			ppb
Be	9	9.3	0.01594		ppb
Sc	45	91397.3			ppb
Cr	52	5577	-0.19417		ppb
Cr	53	17625.7	-16.779		ppb
Mn	55	4197.6	-0.05381		ppb
Co	59	242.7	0.03449		ppb
Ni	60	246.7	-0.03002		ppb
As	75	-72.4	0.1488		ppb
Se	77	2545.4	-6.51086		ppb
Se	82	-3.9	-0.03261		ppb
Rh	103	302617.6			ppb
Cd	111	66.3	0.03617		ppb
Cd	114	123.7	0.03247		ppb
Sb	121	247.3	0.03806		ppb
Sb	123	221.6	0.04345		ppb
Ho	165	519615.2			ppb
Pb	208	2567.8	-0.00959		ppb
Kr	83	62.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 19:49:20

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	35397.7			ppb
Be	9	19501.6	101.25736		ppb
Sc	45	83368.9			ppb
Cr	52	387946.4	110.32746		ppb
Cr	53	64812.2	91.71715		ppb
Mn	55	556872.5	111.60187		ppb
Co	59	541456.8	108.81332		ppb
Ni	60	121409.9	107.09134		ppb
As	75	95103.3	101.83639		ppb
Se	77	9004.8	99.13598		ppb
Se	82	8462.9	100.77146		ppb
Rh	103	279075.8			ppb
Cd	111	133884.9	109.462		ppb
Cd	114	310489.9	110.14454		ppb
Sb	121	460985.8	114.39671		ppb
Sb	123	354265.5	107.49016		ppb
Ho	165	478500			ppb
Pb	208	2104076.3	110.82431		ppb
Kr	83	-8089.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 BH

Sample Da Wednesday, August 03, 2011 19:51:31

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	35954.4			ppb
Be	9	17.7	0.06177		ppb
Sc	45	79892.3			ppb
Cr	52	44335.9	15.59681		ppb
Cr	53	13201.7	-13.24621		ppb
Mn	55	86910.2	22.84777		ppb
Co	59	15807.1	4.27765		ppb
Ni	60	10272.1	12.02242		ppb
As	75	23129.9	33.55848		ppb
Se	77	16468.2	308.98388		ppb
Se	82	23216.7	373.08678		ppb
Rh	103	206776.2			ppb
Cd	111	355.6	0.37862		ppb
Cd	114	35.1	0.00875		ppb
Sb	121	3823.5	1.43972		ppb
Sb	123	2880.2	1.32451		ppb
Ho	165	311390.3			ppb
Pb	208	78977.9	6.26566		ppb
Kr	83	951.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 19:53:41

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	34578.3		ppb
- Be	9	14	0.04549	ppb
- Sc	45	79531.2		ppb
- Cr	52	141747.7	54.21434	ppb
- Cr	53	21904.4	13.76084	ppb
- Mn	55	185217.5	50.24405	ppb
- Co	59	9128.9	2.49562	ppb
- Ni	60	22668.6	27.13259	ppb
- As	75	22649.8	33.27723	ppb
- Se	77	19805.6	385.45472	ppb
- Se	82	27457.5	446.53335	ppb
> Rh	103	204344.6		ppb
- Cd	111	358.5	0.38647	ppb
- Cd	114	-240.5	-0.12391	ppb
- Sb	121	3941.2	1.45157	ppb
- Sb	123	3000.6	1.3498	ppb
> Ho	165	318320.6		ppb
- Pb	208	69247.7	5.35408	ppb
- Kr	83	386.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 19:55:50

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	38395.1		ppb
- Be	9	12	0.02837	ppb
- Sc	45	86564.3		ppb
- Cr	52	144309.1	49.56073	ppb
- Cr	53	21138.9	4.99979	ppb
- Mn	55	187049.9	45.61057	ppb
- Co	59	9155.3	2.25242	ppb
- Ni	60	22823.3	24.57403	ppb
- As	75	22790.6	30.17759	ppb
- Se	77	19817.3	342.92987	ppb
- Se	82	27623.4	404.53813	ppb
> Rh	103	226939.6		ppb
- Cd	111	337.4	0.32555	ppb
- Cd	114	-8.7	-0.01226	ppb
- Sb	121	3945.2	1.31128	ppb
- Sb	123	2960.1	1.20146	ppb
> Ho	165	352292.7		ppb
- Pb	208	68243.5	4.7533	ppb
- Kr	83	422.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Wednesday, August 03, 2011 19:58:00

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36915.3		ppb
- Be	9	11	0.02596	ppb
- Sc	45	80903.4		ppb
- Cr	52	60569.2	21.14687	ppb
- Cr	53	11160.5	-20.55081	ppb
- Mn	55	126483.8	32.50206	ppb
- Co	59	2344	0.60489	ppb
- Ni	60	9775.6	11.05007	ppb
- As	75	26578	37.2886	ppb
- Se	77	21251.8	396.43426	ppb
- Se	82	30044.3	466.94837	ppb
> Rh	103	213781.6		ppb
- Cd	111	347.5	0.35753	ppb
- Cd	114	-135.7	-0.07033	ppb
- Sb	121	4078.2	1.4846	ppb
- Sb	123	3062.4	1.36158	ppb
> Ho	165	322164.2		ppb
- Pb	208	31589	2.33965	ppb
- Kr	83	470.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Wednesday, August 03, 2011 20:00:09

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37127.4		ppb
Be	9	9904.7	49.00098	ppb
Sc	45	79379.6		ppb
Cr	52	212744.3	79.52879	ppb
Cr	53	29024.6	32.66528	ppb
Mn	55	348832.6	92.29065	ppb
Co	59	207985	55.25848	ppb
Ni	60	57618.8	87.11519	ppb
As	75	116480.3	164.76887	ppb
Se	77	27630.3	535.9986	ppb
Se	82	38732.7	609.72354	ppb
Rh	103	211061.1		ppb
Cd	111	31395.1	33.93972	ppb
Cd	114	72325.6	33.9251	ppb
Sb	121	166163.1	61.69128	ppb
Sb	123	126283.1	57.32527	ppb
Ho	165	319782.5		ppb
Pb	208	574967.3	45.23248	ppb
Kr	83	425		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Da Wednesday, August 03, 2011 20:02:19

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38536.2		ppb
Be	9	15.3	0.04537	ppb
Sc	45	86682.2		ppb
Cr	52	33968.4	9.66069	ppb
Cr	53	7564.5	-33.55698	ppb
Mn	55	69125.8	15.30489	ppb
Co	59	4664.9	1.07593	ppb
Ni	60	12485.9	12.53285	ppb
As	75	44073.8	54.64177	ppb
Se	77	60878.5	1073.2993	ppb
Se	82	82474.2	1135.3216	ppb
Rh	103	241360.6		ppb
Cd	111	1396.8	1.30771	ppb
Cd	114	2442.6	0.99563	ppb
Sb	121	25135.7	8.06772	ppb
Sb	123	19380.2	7.60488	ppb
Ho	165	369205.9		ppb
Pb	208	51686.6	3.39881	ppb
Kr	83	591.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da Wednesday, August 03, 2011 20:06:37

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35226.4		ppb
Be	9	56	0.26282	ppb
Sc	45	86940.1		ppb
Cr	52	131121.7	43.34923	ppb
Cr	53	18672.2	-3.50537	ppb
Mn	55	2131204.1	510.91542	ppb
Co	59	19884.4	4.74111	ppb
Ni	60	63253.4	66.26294	ppb
As	75	31529.2	40.29887	ppb
Se	77	14277.2	225.69716	ppb
Se	82	19569.4	277.11025	ppb
Rh	103	234645		ppb
Cd	111	949.6	0.91033	ppb
Cd	114	1914.6	0.80024	ppb
Sb	121	5190.1	1.42267	ppb
Sb	123	4030.3	1.34959	ppb
Ho	165	427754.5		ppb
Pb	208	159930.8	9.29835	ppb
Kr	83	-52.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-6 BH

Sample Da Wednesday, August 03, 2011 20:08:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33063.1		ppb
- Be	9	8.3	0.01759	ppb
- Sc	45	80750.4		ppb
- Cr	52	48454.3	14.62388	ppb
- Cr	53	6175.4	-37.00259	ppb
- Mn	55	89477.2	20.22354	ppb
- Co	59	3065.9	0.70819	ppb
- Ni	60	33555.3	34.312	ppb
- As	75	2672.2	3.53453	ppb
- Se	77	3110.9	13.75393	ppb
- Se	82	4278.5	59.31665	ppb
> Rh	103	239676.2		ppb
- Cd	111	2359.6	2.23346	ppb
- Cd	114	5287.2	2.17617	ppb
- Sb	121	17892.6	3.93511	ppb
- Sb	123	13994.3	3.76015	ppb
> Ho	165	537442.5		ppb
- Pb	208	260942.4	12.12042	ppb
- Kr	83	-101.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Da Wednesday, August 03, 2011 20:11:00

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35849.6		ppb
- Be	9	9	0.01756	ppb
- Sc	45	83319.3		ppb
- Cr	52	62373.5	21.02045	ppb
- Cr	53	10416	-23.76201	ppb
- Mn	55	51559.6	12.28757	ppb
- Co	59	2775.4	0.69275	ppb
- Ni	60	13257.3	14.54151	ppb
- As	75	16766.4	22.79158	ppb
- Se	77	9772.3	151.74465	ppb
- Se	82	15069.4	226.17414	ppb
> Rh	103	221349.9		ppb
- Cd	111	296.7	0.29258	ppb
- Cd	114	-245.6	-0.11741	ppb
- Sb	121	2512.7	0.83503	ppb
- Sb	123	1953.6	0.79284	ppb
> Ho	165	349545.8		ppb
- Pb	208	44356.9	3.06752	ppb
- Kr	83	727.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 20:13:12

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35748.5		ppb
- Be	9	4.3	-0.00643	ppb
- Sc	45	82770.2		ppb
- Cr	52	4923.3	-0.2538	ppb
- Cr	53	9368.5	-32.11393	ppb
- Mn	55	3820.8	-0.06133	ppb
- Co	59	58.7	0.00176	ppb
- Ni	60	225	-0.03105	ppb
- As	75	120.6	0.34925	ppb
- Se	77	2041.2	-11.27865	ppb
- Se	82	-22.9	-0.26418	ppb
> Rh	103	278282.1		ppb
- Cd	111	19.7	0.00258	ppb
- Cd	114	20.5	-0.00031	ppb
- Sb	121	78	0.00144	ppb
- Sb	123	40.5	-0.00597	ppb
> Ho	165	461356.1		ppb
- Pb	208	1795.4	-0.03627	ppb
- Kr	83	101.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 20:15:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	33171.7		ppb
Be	9	18386.9	101.86186	ppb
Sc	45	79148.4		ppb
Cr	52	353880.4	111.57627	ppb
Cr	53	52156.9	76.07849	ppb
Mn	55	506348.4	112.49198	ppb
Co	59	480140.3	106.95727	ppb
Ni	60	109148	106.71516	ppb
As	75	85595.5	101.59953	ppb
Se	77	7837.7	94.09977	ppb
Se	82	7622.7	100.61159	ppb
Rh	103	251767		ppb
Cd	111	118383	107.28836	ppb
Cd	114	274418	107.91074	ppb
Sb	121	421262.8	117.74443	ppb
Sb	123	316711.7	108.23503	ppb
Ho	165	424840.3		ppb
Pb	208	1812907.4	107.53466	ppb
Kr	83	-7343.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da Wednesday, August 03, 2011 20:17:32

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	35455.9		ppb
Be	9	13	0.04042	ppb
Sc	45	79948		ppb
Cr	52	35148.2	11.69282	ppb
Cr	53	7616.2	-30.64423	ppb
Mn	55	74767.7	19.0563	ppb
Co	59	2469.7	0.64429	ppb
Ni	60	7406	8.39671	ppb
As	75	22569.6	32.0093	ppb
Se	77	16046.8	291.90525	ppb
Se	82	23485.2	368.48189	ppb
Rh	103	211828.5		ppb
Cd	111	1293.5	1.37947	ppb
Cd	114	2179.4	1.01064	ppb
Sb	121	5112.8	1.83564	ppb
Sb	123	3916	1.71778	ppb
Ho	165	327469		ppb
Pb	208	55165.3	4.11691	ppb
Kr	83	865.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da Wednesday, August 03, 2011 20:19:42

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	35856		ppb
Be	9	9.3	0.0191	ppb
Sc	45	80081.4		ppb
Cr	52	35479.8	11.68156	ppb
Cr	53	7298.3	-31.8272	ppb
Mn	55	76212.5	19.23823	ppb
Co	59	2386	0.61539	ppb
Ni	60	7680.6	8.62404	ppb
As	75	22354.5	31.37847	ppb
Se	77	16242.5	292.45709	ppb
Se	82	23647	367.27469	ppb
Rh	103	213966.1		ppb
Cd	111	1339.1	1.41432	ppb
Cd	114	2236.8	1.02588	ppb
Sb	121	5159.1	1.87887	ppb
Sb	123	3959.6	1.76175	ppb
Ho	165	322976.5		ppb
Pb	208	53294.8	4.02962	ppb
Kr	83	744		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Wednesday, August 03, 2011 20:21:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36111.8		ppb
Be	9	10.3	0.02369	ppb
Sc	45	77693		ppb
Cr	52	38702.9	12.81946	ppb
Cr	53	7835.7	-30.38322	ppb
Mn	55	46669.8	11.39366	ppb
Co	59	1794.2	0.45771	ppb
Ni	60	7692.3	8.5917	ppb
As	75	24966.5	34.84982	ppb
Se	77	19446.4	356.67658	ppb
Se	82	27808.2	429.66033	ppb
Rh	103	215075.8		ppb
Cd	111	204.1	0.20292	ppb
Cd	114	-221.7	-0.10934	ppb
Sb	121	3006.2	1.10977	ppb
Sb	123	2217.3	0.99901	ppb
Ho	165	316395.5		ppb
Pb	208	59323.6	4.59657	ppb
Kr	83	630.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Wednesday, August 03, 2011 20:24:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35674.3		ppb
Be	9	9865	50.79942	ppb
Sc	45	76666.9		ppb
Cr	52	186345.2	69.83176	ppb
Cr	53	25460.9	22.53163	ppb
Mn	55	266892.1	70.7791	ppb
Co	59	206533.1	55.15501	ppb
Ni	60	55731.7	65.25042	ppb
As	75	117338.3	166.82299	ppb
Se	77	25773.8	499.81203	ppb
Se	82	36837.8	582.84465	ppb
Rh	103	210012		ppb
Cd	111	33037.8	35.89605	ppb
Cd	114	75657.2	35.67165	ppb
Sb	121	168220.8	64.2696	ppb
Sb	123	128773.2	60.15156	ppb
Ho	165	310785.8		ppb
Pb	208	591203.3	47.86938	ppb
Kr	83	585.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Da Wednesday, August 03, 2011 20:26:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37206.6		ppb
Be	9	19	0.06649	ppb
Sc	45	84322.4		ppb
Cr	52	27428	7.54151	ppb
Cr	53	6439.3	-36.3521	ppb
Mn	55	56485.6	12.44358	ppb
Co	59	2851.1	0.65743	ppb
Ni	60	14729.9	14.92809	ppb
As	75	13016.9	16.40681	ppb
Se	77	8810.9	119.04295	ppb
Se	82	12297.2	170.47064	ppb
Rh	103	239693.8		ppb
Cd	111	3607.7	3.42166	ppb
Cd	114	8258.5	3.40409	ppb
Sb	121	9795.3	3.32007	ppb
Sb	123	7416.8	3.07248	ppb
Ho	165	348492.2		ppb
Pb	208	56067	3.92533	ppb
Kr	83	464.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Da Wednesday, August 03, 2011 20:28:19

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	37678.1			ppb
- Be	9	7.3	0.00692		ppb
- Sc	45	88320.5			ppb
- Cr	52	39951.3	11.65251		ppb
- Cr	53	7728	-33.14648		ppb
- Mn	55	120767.4	27.34796		ppb
- Co	59	2998.2	0.68607		ppb
- Ni	60	18510.2	18.67583		ppb
- As	75	25589.2	31.79159		ppb
- Se	77	29524.5	497.75444		ppb
- Se	82	40816.9	561.69295		ppb
> Rh	103	241470.6			ppb
- Cd	111	3092.3	2.90821		ppb
- Cd	114	6959.3	2.84664		ppb
- Sb	121	14644.8	4.78202		ppb
- Sb	123	11237.5	4.48555		ppb
> Ho	165	362263.8			ppb
- Pb	208	50887.1	3.40979		ppb
- Kr	83	477.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Da Wednesday, August 03, 2011 20:30:29

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	33208.1			ppb
- Be	9	5.3	0.0008		ppb
- Sc	45	73881			ppb
- Cr	52	23369.7	7.39204		ppb
- Cr	53	6118.1	-34.72346		ppb
- Mn	55	51659.1	13.1871		ppb
- Co	59	1913.9	0.50688		ppb
- Ni	60	8564.4	9.94685		ppb
- As	75	24453	35.32206		ppb
- Se	77	21984.9	425.33173		ppb
- Se	82	30325.2	485.34904		ppb
> Rh	103	207590.3			ppb
- Cd	111	713.5	0.77017		ppb
- Cd	114	1470.7	0.69315		ppb
- Sb	121	7158.2	2.85027		ppb
- Sb	123	5457.8	2.65583		ppb
> Ho	165	296339.8			ppb
- Pb	208	30897.7	2.49639		ppb
- Kr	83	574.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Da Wednesday, August 03, 2011 20:32:38

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	37394.6			ppb
- Be	9	17.3	0.05584		ppb
- Sc	45	84032			ppb
- Cr	52	76550.6	25.69955		ppb
- Cr	53	12126.8	-19.53063		ppb
- Mn	55	95243.7	22.98718		ppb
- Co	59	2634.4	0.6457		ppb
- Ni	60	10266.5	11.01238		ppb
- As	75	29253.9	38.9511		ppb
- Se	77	21319.6	375.38701		ppb
- Se	82	29464.7	434.61311		ppb
> Rh	103	225295.4			ppb
- Cd	111	498.7	0.49149		ppb
- Cd	114	251	0.1036		ppb
- Sb	121	16154.3	5.55631		ppb
- Sb	123	12184.1	5.12254		ppb
> Ho	165	344134.5			ppb
- Pb	208	88421.4	6.34856		ppb
- Kr	83	-332.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Wednesday, August 03, 2011 20:34:47

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	38642.1		ppb
- Be	9	15.3	0.04456	ppb
- Sc	45	85038.3		ppb
- Cr	52	81394.9	27.98929	ppb
- Cr	53	12427.5	-18.04341	ppb
- Mn	55	86186.4	21.1346	ppb
- Co	59	5003.4	1.25934	ppb
- Ni	60	8348.2	9.08428	ppb
- As	75	57267	77.42624	ppb
- Se	77	64142.2	1241.3407	ppb
- Se	82	88204.6	1325.8215	ppb
> Rh	103	221032.7		ppb
- Cd	111	871.4	0.8862	ppb
- Cd	114	174.4	0.06962	ppb
- Sb	121	9227.7	3.28309	ppb
- Sb	123	6902.4	3.00038	ppb
> Ho	165	331938		ppb
- Pb	208	47155.2	3.45058	ppb
- Kr	83	-333.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Wednesday, August 03, 2011 20:36:56

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	38891.8		ppb
- Be	9	26	0.09371	ppb
- Sc	45	85721.4		ppb
- Cr	52	82396.9	28.32563	ppb
- Cr	53	12567	-17.6844	ppb
- Mn	55	87317	21.40472	ppb
- Co	59	5205.2	1.30903	ppb
- Ni	60	8389.2	9.12241	ppb
- As	75	56400	76.25663	ppb
- Se	77	65690.2	1271.1901	ppb
- Se	82	89510.9	1344.4698	ppb
> Rh	103	221260.8		ppb
- Cd	111	819.3	0.8312	ppb
- Cd	114	294.4	0.12288	ppb
- Sb	121	9365.8	3.32011	ppb
- Sb	123	7155.2	3.09959	ppb
> Ho	165	333144.5		ppb
- Pb	208	46704.2	3.40284	ppb
- Kr	83	-317.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 20:39:07

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37089.3		ppb
- Be	9	3	-0.01386	ppb
- Sc	45	83940.4		ppb
- Cr	52	4948.7	-0.22542	ppb
- Cr	53	9227.3	-32.12574	ppb
- Mn	55	3859.5	-0.04198	ppb
- Co	59	72.3	0.00473	ppb
- Ni	60	307	0.04561	ppb
- As	75	-56.7	0.15771	ppb
- Se	77	2220.3	-7.90671	ppb
- Se	82	5.3	0.07413	ppb
> Rh	103	274268.2		ppb
- Cd	111	17.3	0.00084	ppb
- Cd	114	31.5	0.00377	ppb
- Sb	121	64.3	-0.00086	ppb
- Sb	123	45.8	-0.00324	ppb
> Ho	165	429841.9		ppb
- Pb	208	1591.7	-0.04098	ppb
- Kr	83	112.6		mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 20:41:16

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	34127.6		ppb
Be	9	19002.8	102.33009	ppb
Sc	45	79717.7		ppb
Cr	52	358587.4	115.13585	ppb
Cr	53	52011	78.03796	ppb
Mn	55	506272.6	114.50473	ppb
Co	59	485773.2	110.13957	ppb
Ni	60	108989.2	108.46668	ppb
As	75	85728.3	103.57598	ppb
Se	77	7797.7	95.88202	ppb
Se	82	7523.8	101.08	ppb
Rh	103	247375.5		ppb
Cd	111	116749	107.69491	ppb
Cd	114	268581.1	107.49116	ppb
Sb	121	403563.3	121.84895	ppb
Sb	123	310388.5	114.59601	ppb
Ho	165	393267		ppb
Pb	208	1626400.8	104.21271	ppb
Kr	83	-7295.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 20:47:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	32579.5		ppb
Be	9	22.7	0.09883	ppb
Sc	45	68853.5		ppb
Cr	52	75068.7	32.32278	ppb
Cr	53	11962.5	-11.15846	ppb
Mn	55	89179.7	27.40941	ppb
Co	59	2193.3	0.68129	ppb
Ni	60	8253.7	11.21457	ppb
As	75	34216.8	57.58261	ppb
Se	77	28324.1	661.19917	ppb
Se	82	39369.7	735.33378	ppb
Rh	103	177904.2		ppb
Cd	111	361.6	0.45053	ppb
Cd	114	56.7	0.02321	ppb
Sb	121	3825.5	1.71267	ppb
Sb	123	2950.3	1.61377	ppb
Ho	165	262421.6		ppb
Pb	208	9508.6	0.77983	ppb
Kr	83	-43.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 20:49:54

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	35991.8		ppb
Be	9	10347.6	52.82961	ppb
Sc	45	78339.3		ppb
Cr	52	216467.3	87.53954	ppb
Cr	53	28716.3	38.49891	ppb
Mn	55	296062.9	84.48839	ppb
Co	59	195630.9	56.10875	ppb
Ni	60	53707.7	67.52161	ppb
As	75	122798.7	187.51238	ppb
Se	77	34362.8	734.71433	ppb
Se	82	48142.8	818.15828	ppb
Rh	103	195502.5		ppb
Cd	111	30408	35.48295	ppb
Cd	114	70017.4	35.45649	ppb
Sb	121	160519.1	65.87729	ppb
Sb	123	122334.6	61.38679	ppb
Ho	165	289343.5		ppb
Pb	208	486030.2	42.25975	ppb
Kr	83	-53.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 20:52:04

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33485		ppb
- Be	9	21.7	0.09165	ppb
- Sc	45	77097.9		ppb
- Cr	52	23472.9	6.5655	ppb
- Cr	53	9944.4	-26.08535	ppb
- Mn	55	25817.3	5.50689	ppb
- Co	59	1174.8	0.27811	ppb
- Ni	60	2321.6	2.26598	ppb
- As	75	6574.4	8.76781	ppb
- Se	77	8080.3	112.21234	ppb
- Se	82	8736.5	126.5617	ppb
> Rh	103	229433.1		ppb
- Cd	111	201.5	0.18722	ppb
- Cd	114	177.7	0.06939	ppb
- Sb	121	1307.1	0.42369	ppb
- Sb	123	987.5	0.38995	ppb
> Ho	165	350716.8		ppb
- Pb	208	5179.9	0.23802	ppb
- Kr	83	-31.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 20:54:12

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38112		ppb
- Be	9	10054.6	48.46488	ppb
- Sc	45	86835.4		ppb
- Cr	52	196024.9	57.79113	ppb
- Cr	53	30746.9	19.08736	ppb
- Mn	55	278509.3	58.26309	ppb
- Co	59	242925.8	51.29412	ppb
- Ni	60	58691.6	54.28376	ppb
- As	75	87392	96.33853	ppb
- Se	77	16270.2	210.8829	ppb
- Se	82	18282.7	228.77741	ppb
> Rh	103	265588.9		ppb
- Cd	111	50693.3	43.54349	ppb
- Cd	114	117431.1	43.77309	ppb
- Sb	121	202924.6	59.65841	ppb
- Sb	123	155298.8	55.82338	ppb
> Ho	165	403844.8		ppb
- Pb	208	711999.9	44.35125	ppb
- Kr	83	-36.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Da Wednesday, August 03, 2011 20:56:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38173.5		ppb
- Be	9	15.7	0.0476	ppb
- Sc	45	84408		ppb
- Cr	52	47985	15.13257	ppb
- Cr	53	8662.1	-29.61472	ppb
- Mn	55	55568.7	12.77772	ppb
- Co	59	3401.3	0.81925	ppb
- Ni	60	11142.2	11.71453	ppb
- As	75	45760.6	59.57259	ppb
- Se	77	56370.9	1041.6574	ppb
- Se	82	78379.1	1132.3563	ppb
> Rh	103	230027.5		ppb
- Cd	111	1194.8	1.17225	ppb
- Cd	114	2682.1	1.14679	ppb
- Sb	121	1660.8	0.55377	ppb
- Sb	123	1337	0.54478	ppb
> Ho	165	344655.4		ppb
- Pb	208	143981.1	10.40655	ppb
- Kr	83	585.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Da Wednesday, August 03, 2011 21:00:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	38427.9			ppb
Be	9	7	0.00437		ppb
Sc	45	84771			ppb
Cr	52	28626.7	8.46052		ppb
Cr	53	6224.8	-36.02778		ppb
Mn	55	88270.4	21.02562		ppb
Co	59	4112.6	1.00363		ppb
Ni	60	5663.4	5.91054		ppb
As	75	66823.3	87.77784		ppb
Se	77	65681.1	1235.1344		ppb
Se	82	90167	1317.0593		ppb
Rh	103	227492.4			ppb
Cd	111	260	0.24716		ppb
Cd	114	363.6	0.15087		ppb
Sb	121	1148.1	0.38491		ppb
Sb	123	859.1	0.3506		ppb
Ho	165	337722.9			ppb
Pb	208	53736.4	3.88112		ppb
Kr	83	629.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 21:05:02

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	35771.1			ppb
Be	9	3	-0.01323		ppb
Sc	45	84165.5			ppb
Cr	52	5328.6	-0.08524		ppb
Cr	53	10451.3	-28.91619		ppb
Mn	55	3648.4	-0.0717		ppb
Co	59	71.7	0.00485		ppb
Ni	60	284.3	0.02974		ppb
As	75	-48.7	0.16875		ppb
Se	77	2389.3	-4.46489		ppb
Se	82	-20.9	-0.24592		ppb
Rh	103	269345			ppb
Cd	111	22.2	0.00522		ppb
Cd	114	23.7	0.00112		ppb
Sb	121	53.3	-0.00342		ppb
Sb	123	40.9	-0.00444		ppb
Ho	165	415887.2			ppb
Pb	208	1956.7	-0.01573		ppb
Kr	83	97.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 21:07:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	33694.4			ppb
Be	9	18883.9	102.9994		ppb
Sc	45	80034.5			ppb
Cr	52	360625.7	114.34274		ppb
Cr	53	53433.6	79.94107		ppb
Mn	55	514207.9	114.85719		ppb
Co	59	498050.5	111.53154		ppb
Ni	60	112313.1	110.39913		ppb
As	75	88329.9	105.39299		ppb
Se	77	8220	101.60568		ppb
Se	82	7829.3	103.88637		ppb
Rh	103	250439.8			ppb
Cd	111	118625.6	108.07222		ppb
Cd	114	273381.1	108.06804		ppb
Sb	121	411897.2	123.80851		ppb
Sb	123	314035.7	115.42128		ppb
Ho	165	395053.1			ppb
Pb	208	1620624.8	103.37879		ppb
Kr	83	-7476.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Da Wednesday, August 03, 2011 21:09:23

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37519.4		ppb
Be	9	15.3	0.04665	ppb
Sc	45	83641.5		ppb
Cr	52	29862.3	9.58466	ppb
Cr	53	6884.6	-32.98726	ppb
Mn	55	76396.7	19.32354	ppb
Co	59	5948	1.55022	ppb
Ni	60	7552.1	8.48977	ppb
As	75	85136.9	119.03996	ppb
Se	77	78474.1	1582.9895	ppb
Se	82	105637.2	1646.2861	ppb
Rh	103	213616.1		ppb
Cd	111	540	0.56393	ppb
Cd	114	675.7	0.30588	ppb
Sb	121	2041.9	0.7466	ppb
Sb	123	1543.4	0.68846	ppb
Ho	165	317130.6		ppb
Pb	208	25103.8	1.86359	ppb
Kr	83	801.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Da Wednesday, August 03, 2011 21:13:41

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36695.6		ppb
Be	9	9.3	0.01863	ppb
Sc	45	76649.5		ppb
Cr	52	36904.8	13.11509	ppb
Cr	53	7421	-30.0714	ppb
Mn	55	54568.6	14.46515	ppb
Co	59	2339.3	0.64286	ppb
Ni	60	9874	11.88923	ppb
As	75	18333.8	27.41283	ppb
Se	77	9087.2	156.53254	ppb
Se	82	13912.7	230.04139	ppb
Rh	103	200968.2		ppb
Cd	111	1631.3	1.83874	ppb
Cd	114	3103.1	1.51912	ppb
Sb	121	7025.7	2.77902	ppb
Sb	123	5332.1	2.57746	ppb
Ho	165	298275.4		ppb
Pb	208	44480.4	3.62856	ppb
Kr	83	698.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da Wednesday, August 03, 2011 21:15:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35640.1		ppb
Be	9	4	-0.00796	ppb
Sc	45	76290.4		ppb
Cr	52	25704.6	8.33633	ppb
Cr	53	5959.6	-35.13444	ppb
Mn	55	61442	15.90712	ppb
Co	59	1885.8	0.44705	ppb
Ni	60	4533.1	5.17734	ppb
As	75	31744.2	46.0054	ppb
Se	77	33184.8	666.95317	ppb
Se	82	45858.6	736.92686	ppb
Rh	103	206780.8		ppb
Cd	111	3510.3	3.86138	ppb
Cd	114	7931.7	3.79065	ppb
Sb	121	2059.6	0.78703	ppb
Sb	123	1555	0.72505	ppb
Ho	165	303560.5		ppb
Pb	208	46694.1	3.74659	ppb
Kr	83	569.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da Wednesday, August 03, 2011 21:18:00

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	37928.8		ppb
Be	9	5.3	-0.00282	ppb
Sc	45	80291.1		ppb
Cr	52	25487.7	7.73042	ppb
Cr	53	5921.9	-36.18304	ppb
Mn	55	62436.4	15.28271	ppb
Co	59	1815.2	0.45611	ppb
Ni	60	4616.2	4.9874	ppb
As	75	30623.6	42.06313	ppb
Se	77	33133.6	628.63407	ppb
Se	82	46304.7	705.03564	ppb
Rh	103	218255.4		ppb
Cd	111	3601.1	3.75207	ppb
Cd	114	7993.7	3.61929	ppb
Sb	121	2096.9	0.75474	ppb
Sb	123	1543.4	0.67761	ppb
Ho	165	321936.2		ppb
Pb	208	47733.2	3.60736	ppb
Kr	83	608.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Da Wednesday, August 03, 2011 21:24:27

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	38124.6		ppb
Be	9	6.7	0.00404	ppb
Sc	45	83247.9		ppb
Cr	52	31723.3	9.6236	ppb
Cr	53	6923	-34.00119	ppb
Mn	55	68660.4	16.27218	ppb
Co	59	1811.5	0.43933	ppb
Ni	60	7401	7.84149	ppb
As	75	41895	55.48135	ppb
Se	77	46159.9	860.23744	ppb
Se	82	62436	917.44252	ppb
Rh	103	226187.5		ppb
Cd	111	1741.6	1.74434	ppb
Cd	114	3161.4	1.37713	ppb
Sb	121	3153.5	1.08967	ppb
Sb	123	2376.4	1.00266	ppb
Ho	165	337908.8		ppb
Pb	208	52741.3	3.80485	ppb
Kr	83	286.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Da Wednesday, August 03, 2011 21:26:37

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	38277.9		ppb
Be	9	9970.5	47.84522	ppb
Sc	45	83050.8		ppb
Cr	52	195302.6	68.01655	ppb
Cr	53	25987.4	18.66586	ppb
Mn	55	309289.2	76.35057	ppb
Co	59	222790.6	55.33981	ppb
Ni	60	58115.5	63.27491	ppb
As	75	132255.6	174.87394	ppb
Se	77	53954	1014.6023	ppb
Se	82	72446.2	1066.1386	ppb
Rh	103	225784.9		ppb
Cd	111	35080.5	35.44452	ppb
Cd	114	80271.4	35.1979	ppb
Sb	121	172847.1	60.66823	ppb
Sb	123	130780	56.11895	ppb
Ho	165	338293.1		ppb
Pb	208	638990.4	47.53168	ppb
Kr	83	288.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Da Wednesday, August 03, 2011 21:28:46

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37063.8		ppb
- Be	9	22.7	0.08468	ppb
- Sc	45	84389.6		ppb
- Cr	52	12112.1	2.00414	ppb
- Cr	53	8785.9	-32.42826	ppb
- Mn	55	19321.5	3.274	ppb
- Co	59	851.4	0.17002	ppb
- Ni	60	2063.6	1.69045	ppb
- As	75	8598.2	8.89862	ppb
- Se	77	11453.2	147.68781	ppb
- Se	82	13053.2	163.71505	ppb
> Rh	103	264957.5		ppb
- Cd	111	613	0.51432	ppb
- Cd	114	1332.9	0.49036	ppb
- Sb	121	1091.4	0.30919	ppb
- Sb	123	805.2	0.27709	ppb
> Ho	165	397322.6		ppb
- Pb	208	15754.3	0.86759	ppb
- Kr	83	87.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Da Wednesday, August 03, 2011 21:30:55

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	38918.1		ppb
- Be	9	10085.6	47.60722	ppb
- Sc	45	89420.6		ppb
- Cr	52	193444.2	54.07235	ppb
- Cr	53	30695.7	15.36389	ppb
- Mn	55	285359	56.88153	ppb
- Co	59	256801.9	51.51381	ppb
- Ni	60	60322.1	52.99793	ppb
- As	75	85897	91.84469	ppb
- Se	77	18484.4	248.04905	ppb
- Se	82	22584.7	268.46317	ppb
> Rh	103	279559.2		ppb
- Cd	111	52900	43.16991	ppb
- Cd	114	123159.6	43.61264	ppb
- Sb	121	205083.5	58.96263	ppb
- Sb	123	157216.1	55.27241	ppb
> Ho	165	413058.4		ppb
- Pb	208	767485.7	46.75986	ppb
- Kr	83	96.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 21:33:07

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36028.4		ppb
- Be	9	5.3	-0.00128	ppb
- Sc	45	84891.9		ppb
- Cr	52	5961.6	0.11137	ppb
- Cr	53	11342.1	-26.74596	ppb
- Mn	55	3775.5	-0.04186	ppb
- Co	59	157	0.02284	ppb
- Ni	60	287	0.03351	ppb
- As	75	53.9	0.27956	ppb
- Se	77	2614.7	-0.60299	ppb
- Se	82	-7.1	-0.07674	ppb
> Rh	103	268306.4		ppb
- Cd	111	33.6	0.01506	ppb
- Cd	114	55	0.01276	ppb
- Sb	121	101.3	0.01002	ppb
- Sb	123	89	0.01207	ppb
> Ho	165	419916		ppb
- Pb	208	2153.8	-0.00501	ppb
- Kr	83	76.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 21:35:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34113.7		ppb
- Be	9	19306.8	104.00551	ppb
- Sc	45	80659		ppb
- Cr	52	363220.1	114.3661	ppb
- Cr	53	53632.1	79.50718	ppb
- Mn	55	516020.6	114.44444	ppb
- Co	59	497470.9	110.61443	ppb
- Ni	60	112416.7	109.70806	ppb
- As	75	88227.2	104.52192	ppb
- Se	77	8335.5	102.63364	ppb
- Se	82	7829.4	103.17731	ppb
> Rh	103	252221.9		ppb
- Cd	111	118346.5	107.06716	ppb
- Cd	114	272643.1	107.02824	ppb
- Sb	121	407108.5	122.33153	ppb
- Sb	123	310154.7	113.93196	ppb
> Ho	165	395302.7		ppb
- Pb	208	1631905.8	104.01567	ppb
- Kr	83	-7487.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Da Wednesday, August 03, 2011 21:37:29

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38960.4		ppb
- Be	9	5	-0.00431	ppb
- Sc	45	87069.4		ppb
- Cr	52	50336	16.054	ppb
- Cr	53	8909.7	-28.7927	ppb
- Mn	55	52475.4	12.09218	ppb
- Co	59	2419.3	0.58249	ppb
- Ni	60	11354.4	12.00809	ppb
- As	75	69810.6	91.20445	ppb
- Se	77	49055	906.11091	ppb
- Se	82	67020.1	973.66483	ppb
> Rh	103	228771.4		ppb
- Cd	111	189.3	0.17508	ppb
- Cd	114	329	0.13442	ppb
- Sb	121	1394.1	0.45282	ppb
- Sb	123	1080.6	0.42819	ppb
> Ho	165	351262.4		ppb
- Pb	208	31789.6	2.14938	ppb
- Kr	83	730.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Da Wednesday, August 03, 2011 21:41:48

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35060.1		ppb
- Be	9	7	0.00762	ppb
- Sc	45	80881.8		ppb
- Cr	52	43308.6	15.22504	ppb
- Cr	53	7951.8	-29.06991	ppb
- Mn	55	83835.3	22.04898	ppb
- Co	59	3485.7	0.93621	ppb
- Ni	60	10228.1	11.98869	ppb
- As	75	109799.4	158.78526	ppb
- Se	77	99475.4	2090.6082	ppb
- Se	82	134878.8	2170.9887	ppb
> Rh	103	206442.5		ppb
- Cd	111	647.7	0.70344	ppb
- Cd	114	479.2	0.22141	ppb
- Sb	121	5454	2.06748	ppb
- Sb	123	4134.6	1.91489	ppb
> Ho	165	310488.9		ppb
- Pb	208	59364.8	4.68996	ppb
- Kr	83	732.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Da Wednesday, August 03, 2011 21:46:06

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	34711			ppb
- Be	9	3.7	-0.00932		ppb
- Sc	45	74060.9			ppb
- Cr	52	34161.8	12.62049		ppb
- Cr	53	6936.3	-30.63414		ppb
- Mn	55	57430.9	15.97717		ppb
- Co	59	2293.3	0.65819		ppb
- Ni	60	9054.8	11.37423		ppb
- As	75	109706.6	170.22215		ppb
- Se	77	107730.5	2434.7569		ppb
- Se	82	147395.3	2544.5065		ppb
> Rh	103	192478.7			ppb
- Cd	111	240.7	0.27202		ppb
- Cd	114	342.2	0.16847		ppb
- Sb	121	1232.8	0.50848		ppb
- Sb	123	924.3	0.46268		ppb
> Ho	165	278841.9			ppb
- Pb	208	27613	2.36418		ppb
- Kr	83	861.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 BH

Sample Da Wednesday, August 03, 2011 21:50:27

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	45239.4			ppb
- Be	9	13	0.02453		ppb
- Sc	45	109260.6			ppb
- Cr	52	129414.6	32.52107		ppb
- Cr	53	16056.8	-20.24112		ppb
- Mn	55	287517.8	52.31431		ppb
- Co	59	7625.5	1.39299		ppb
- Ni	60	29343.3	23.51893		ppb
- As	75	10052.3	10.05431		ppb
- Se	77	14685.5	169.71063		ppb
- Se	82	19848.5	216.39542		ppb
> Rh	103	304832			ppb
- Cd	111	5739.8	4.28631		ppb
- Cd	114	11297.6	3.66223		ppb
- Sb	121	5922.3	1.17122		ppb
- Sb	123	4614.2	1.11483		ppb
> Ho	165	590931.2			ppb
- Pb	208	223906.2	9.42976		ppb
- Kr	83	-689.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 BH

Sample Da Wednesday, August 03, 2011 21:52:36

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	45272			ppb
- Be	9	18	0.0438		ppb
- Sc	45	110041.1			ppb
- Cr	52	100308.4	23.88293		ppb
- Cr	53	12423.5	-28.60265		ppb
- Mn	55	360954.1	63.48102		ppb
- Co	59	4572.8	0.80071		ppb
- Ni	60	24096.6	18.56621		ppb
- As	75	8533.3	8.26562		ppb
- Se	77	11909.5	123.04914		ppb
- Se	82	16091.6	169.08617		ppb
> Rh	103	316193.4			ppb
- Cd	111	23099.1	16.65733		ppb
- Cd	114	52611.2	16.46514		ppb
- Sb	121	6021.3	1.24161		ppb
- Sb	123	4718.9	1.18828		ppb
> Ho	165	587549.4			ppb
- Pb	208	290641.9	12.7874		ppb
- Kr	83	-874.8			mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 BH

Sample Da Wednesday, August 03, 2011 21:54:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	46061.1		ppb
- Be	9	10.7	0.01378	ppb
- Sc	45	111142.2		ppb
- Cr	52	92622.7	21.7044	ppb
- Cr	53	11465.2	-30.69055	ppb
- Mn	55	359553.6	62.6462	ppb
- Co	59	4489.1	0.77866	ppb
- Ni	60	23591.9	18.00444	ppb
- As	75	8848.6	8.48249	ppb
- Se	77	11908.1	121.49807	ppb
- Se	82	16279.4	169.50697	ppb
> Rh	103	319152.4		ppb
- Cd	111	23126.3	16.52348	ppb
- Cd	114	53193	16.49719	ppb
- Sb	121	6096.7	1.22879	ppb
- Sb	123	4642.6	1.14275	ppb
> Ho	165	580367.3		ppb
- Pb	208	294049.2	12.64989	ppb
- Kr	83	-917.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 21:56:56

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	45757.6		ppb
- Be	9	8.3	0.00475	ppb
- Sc	45	108207.9		ppb
- Cr	52	36073.1	6.99217	ppb
- Cr	53	10645.6	-33.30082	ppb
- Mn	55	86391.3	13.68802	ppb
- Co	59	3220.2	0.52861	ppb
- Ni	60	13884.9	9.9887	ppb
- As	75	4858.3	4.54338	ppb
- Se	77	8882	73.59092	ppb
- Se	82	10077.8	99.91891	ppb
> Rh	103	335192.9		ppb
- Cd	111	1851.9	1.24791	ppb
- Cd	114	3619.3	1.061	ppb
- Sb	121	3426	0.66684	ppb
- Sb	123	2633.8	0.62571	ppb
> Ho	165	593687.2		ppb
- Pb	208	98969.1	4.07234	ppb
- Kr	83	-253.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 21:59:05

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39045.5		ppb
- Be	9	9364.5	44.05717	ppb
- Sc	45	93539.1		ppb
- Cr	52	260933.3	71.90266	ppb
- Cr	53	37112.6	27.88352	ppb
- Mn	55	416335.5	81.26136	ppb
- Co	59	310697	60.96629	ppb
- Ni	60	80445.1	69.21464	ppb
- As	75	58289.5	61.0356	ppb
- Se	77	13523.7	165.87171	ppb
- Se	82	16309	189.63015	ppb
> Rh	103	285816.6		ppb
- Cd	111	59474.3	47.48255	ppb
- Cd	114	136800.5	47.39502	ppb
- Sb	121	221551.7	52.32941	ppb
- Sb	123	171259.5	49.46429	ppb
> Ho	165	502667.7		ppb
- Pb	208	1187869	59.49897	ppb
- Kr	83	-249.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 22:01:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37905.9		ppb
Be	9	11	0.02456	ppb
Sc	45	90345.6		ppb
Cr	52	6765.5	0.25103	ppb
Cr	53	13782.4	-22.67907	ppb
Mn	55	4192.3	0.00163	ppb
Co	59	353.3	0.06029	ppb
Ni	60	372.3	0.09501	ppb
As	75	-104.3	0.10993	ppb
Se	77	3229.9	6.8826	ppb
Se	82	13.7	0.17211	ppb
Rh	103	282448.1		ppb
Cd	111	84.5	0.05475	ppb
Cd	114	170.9	0.05238	ppb
Sb	121	229	0.04323	ppb
Sb	123	172.8	0.03843	ppb
Ho	165	443427.7		ppb
Pb	208	2621.2	0.01524	ppb
Kr	83	68.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 22:03:27

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35856.1		ppb
Be	9	19975.9	102.37919	ppb
Sc	45	83808.2		ppb
Cr	52	387539.4	115.66535	ppb
Cr	53	58445.9	83.85877	ppb
Mn	55	548192.8	115.24848	ppb
Co	59	525700.2	110.79962	ppb
Ni	60	119822.5	110.85128	ppb
As	75	93628.3	105.13445	ppb
Se	77	9099.9	107.66768	ppb
Se	82	8279.5	103.3909	ppb
Rh	103	266101.5		ppb
Cd	111	125409	107.53261	ppb
Cd	114	286852.6	106.72476	ppb
Sb	121	432407.2	121.77537	ppb
Sb	123	326239.4	112.33078	ppb
Ho	165	421674.5		ppb
Pb	208	1732270.3	103.53562	ppb
Kr	83	-7854.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-28 BH

Sample Da Wednesday, August 03, 2011 22:05:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	42783		ppb
Be	9	14.3	0.03285	ppb
Sc	45	98110.5		ppb
Cr	52	118354.6	32.90278	ppb
Cr	53	14970.3	-19.24585	ppb
Mn	55	246407.1	49.51542	ppb
Co	59	9657.1	1.9592	ppb
Ni	60	52390.5	46.6249	ppb
As	75	11503.7	12.63258	ppb
Se	77	15902.2	211.64383	ppb
Se	82	21507.3	259.13471	ppb
Rh	103	275825.7		ppb
Cd	111	14477.4	11.97395	ppb
Cd	114	33941.3	12.18192	ppb
Sb	121	5098.8	1.0933	ppb
Sb	123	3825.8	1.00202	ppb
Ho	165	544622.3		ppb
Pb	208	327525.6	15.04643	ppb
Kr	83	-1301.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da Wednesday, August 03, 2011 22:07:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	40069.6			ppb
Be	9	5	-0.00581		ppb
Sc	45	91513.7			ppb
Cr	52	61057	15.30783		ppb
Cr	53	13759.4	-23.48188		ppb
Mn	55	285822.8	54.77353		ppb
Co	59	3746.4	0.71546		ppb
Ni	60	29624.9	25.00308		ppb
As	75	18397.5	19.16495		ppb
Se	77	34889.2	489.72889		ppb
Se	82	44668.8	512.48875		ppb
Rh	103	289612.9			ppb
Cd	111	816.9	0.62999		ppb
Cd	114	1718.7	0.57988		ppb
Sb	121	3037.2	0.79636		ppb
Sb	123	2260.4	0.7228		ppb
Ho	165	442634.9			ppb
Pb	208	107575.7	5.99833		ppb
Kr	83	-92.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da Wednesday, August 03, 2011 22:09:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	40083.7			ppb
Be	9	4	-0.0105		ppb
Sc	45	94000.2			ppb
Cr	52	17975.8	3.21527		ppb
Cr	53	14057.9	-23.48426		ppb
Mn	55	63349.3	11.22879		ppb
Co	59	844	0.14996		ppb
Ni	60	6509.3	5.19702		ppb
As	75	2977.2	3.22139		ppb
Se	77	7294.3	65.41125		ppb
Se	82	6038.4	67.81931		ppb
Rh	103	295911.2			ppb
Cd	111	191.7	0.13427		ppb
Cd	114	392.7	0.12386		ppb
Sb	121	681.7	0.15906		ppb
Sb	123	515.2	0.14552		ppb
Ho	165	455607.4			ppb
Pb	208	24067	1.19854		ppb
Kr	83	22.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 BH

Sample Da Wednesday, August 03, 2011 22:12:08

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	46074.8			ppb
Be	9	7	-0.0008		ppb
Sc	45	115806.9			ppb
Cr	52	120057.2	27.28845		ppb
Cr	53	20945.8	-13.98949		ppb
Mn	55	136088.3	22.13001		ppb
Co	59	3636.7	0.6007		ppb
Ni	60	38790.6	28.42472		ppb
As	75	14400	13.06586		ppb
Se	77	24218.2	277.44933		ppb
Se	82	30595.6	304.43967		ppb
Rh	103	333919.3			ppb
Cd	111	3606.7	2.4518		ppb
Cd	114	7215.1	2.13178		ppb
Sb	121	4682.5	0.93118		ppb
Sb	123	3566.8	0.86589		ppb
Ho	165	585400.3			ppb
Pb	208	128175.3	5.39039		ppb
Kr	83	-223.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-31 BH

Sample Date: Wednesday, August 03, 2011 22:14:18

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
> Li	6	50317.2			ppb
- Be	9	13.7	0.02117		ppb
- Sc	45	123032.3			ppb
- Cr	52	128021.6	27.14281		ppb
- Cr	53	16065.9	-25.09056		ppb
- Mn	55	219339.3	33.69853		ppb
- Co	59	3062.5	0.46981		ppb
- Ni	60	22310.4	15.15595		ppb
- As	75	239.3	0.41827		ppb
- Se	77	293	-40.11159		ppb
- Se	82	40.4	0.38757		ppb
> Rh	103	357932.3			ppb
- Cd	111	324.1	0.19387		ppb
- Cd	114	-867.2	-0.24769		ppb
- Sb	121	5566	0.85797		ppb
- Sb	123	4265.6	0.80286		ppb
> Ho	165	754116.4			ppb
- Pb	208	94331	3.02353		ppb
- Kr	83	-193.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 22:16:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
> Li	6	39916.6			ppb
- Be	9	3	-0.01493		ppb
- Sc	45	93553.3			ppb
- Cr	52	6775.5	0.19905		ppb
- Cr	53	16207.1	-18.33695		ppb
- Mn	55	4040.2	-0.0514		ppb
- Co	59	75.3	0.00448		ppb
- Ni	60	274	0.00208		ppb
- As	75	-33.9	0.18653		ppb
- Se	77	3610.7	11.25606		ppb
- Se	82	-3	-0.02393		ppb
> Rh	103	290681			ppb
- Cd	111	21.3	0.00307		ppb
- Cd	114	24.5	0.00072		ppb
- Sb	121	58.3	-0.00392		ppb
- Sb	123	44.6	-0.00443		ppb
> Ho	165	454649.9			ppb
- Pb	208	1815.1	-0.03373		ppb
- Kr	83	66.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 22:18:40

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
> Li	6	36206.9			ppb
- Be	9	19851.3	100.75856		ppb
- Sc	45	85871.7			ppb
- Cr	52	388661.8	116.39939		ppb
- Cr	53	60114.1	88.24243		ppb
- Mn	55	544574.2	114.86496		ppb
- Co	59	521997.6	110.3897		ppb
- Ni	60	117078.9	108.67514		ppb
- As	75	91320.3	102.89978		ppb
- Se	77	9321.4	111.9069		ppb
- Se	82	8331.6	104.39808		ppb
> Rh	103	265212.4			ppb
- Cd	111	125075.2	107.60579		ppb
- Cd	114	287891.5	107.4666		ppb
- Sb	121	435986	122.05022		ppb
- Sb	123	330306.6	113.05093		ppb
> Ho	165	424317.5			ppb
- Pb	208	1738186.2	103.24186		ppb
- Kr	83	-7862.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Thursday, August 04, 2011 08:56:23

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	52634.7		ppb
- Be	9	15.3	0.02672	ppb
- Sc	45	679958.1		ppb
- Cr	52	53953.9	5.93556	ppb
- Cr	53	33208.5	-14.71776	ppb
- Mn	55	70188.1	5.95372	ppb
- Co	59	1816.5	0.16903	ppb
- Ni	60	10018	4.13918	ppb
- As	75	4556.9	2.58594	ppb
- Se	77	4139.3	-10.43129	ppb
- Se	82	1161.7	6.6801	ppb
> Rh	103	562294		ppb
- Cd	111	357.1	0.12541	ppb
- Cd	114	125	0.01404	ppb
- Sb	121	35660.9	4.49909	ppb
- Sb	123	27526.3	4.22991	ppb
> Ho	165	927747.4		ppb
- Pb	208	43931.8	1.07416	ppb
- Kr	83	-504		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Thursday, August 04, 2011 08:58:33

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36960.1		ppb
- Be	9	10217.7	50.79765	ppb
- Sc	45	339151.4		ppb
- Cr	52	316000.2	67.31965	ppb
- Cr	53	60852.1	49.72612	ppb
- Mn	55	430823.9	64.94986	ppb
- Co	59	372658.7	56.63926	ppb
- Ni	60	88062.4	58.62561	ppb
- As	75	60386.8	49.00557	ppb
- Se	77	6536.3	34.70735	ppb
- Se	82	5181	46.65575	ppb
> Rh	103	368985.2		ppb
- Cd	111	73081.7	45.1816	ppb
- Cd	114	167465.1	44.92487	ppb
- Sb	121	313259.8	63.90913	ppb
- Sb	123	236802.1	59.07452	ppb
> Ho	165	582178.7		ppb
- Pb	208	1209322.4	52.25135	ppb
- Kr	83	-255.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 FH

Sample Da Thursday, August 04, 2011 09:13:43

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36890.5		ppb
- Be	9	159	0.76447	ppb
- Sc	45	304722.4		ppb
- Cr	52	503601.3	123.65769	ppb
- Cr	53	72998.6	87.523	ppb
- Mn	55	1915940.8	332.7312	ppb
- Co	59	31513.7	5.44598	ppb
- Ni	60	68026.6	51.59956	ppb
- As	75	66451.4	61.42719	ppb
- Se	77	6652.8	47.25275	ppb
- Se	82	5991.6	61.51269	ppb
> Rh	103	323777.7		ppb
- Cd	111	6324.6	4.44408	ppb
- Cd	114	2402	0.72695	ppb
- Sb	121	15402.7	3.75516	ppb
- Sb	123	11688.7	3.48353	ppb
> Ho	165	484735.4		ppb
- Pb	208	377362	19.50638	ppb
- Kr	83	-87359.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Thursday, August 04, 2011 09:15:54

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35300.7		ppb
- Be	9	5.7	0.00071	ppb
- Sc	45	107071.7		ppb
- Cr	52	6893.6	0.12674	ppb
- Cr	53	21916.1	-8.68196	ppb
- Mn	55	5826	0.23302	ppb
- Co	59	92.3	0.00679	ppb
- Ni	60	340.7	0.04287	ppb
- As	75	161.4	0.37687	ppb
- Se	77	2945.5	-1.35142	ppb
- Se	82	-89.1	-0.95286	ppb
> Rh	103	307616.7		ppb
- Cd	111	23.9	0.00416	ppb
- Cd	114	42.7	0.00613	ppb
- Sb	121	92.3	0.00478	ppb
- Sb	123	69.3	0.00277	ppb
> Ho	165	470141		ppb
- Pb	208	2127.1	-0.01994	ppb
- Kr	83	110.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Thursday, August 04, 2011 09:18:03

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33724.3		ppb
- Be	9	19458.5	106.03866	ppb
- Sc	45	95904.9		ppb
- Cr	52	429569.3	119.13536	ppb
- Cr	53	75305.6	110.80227	ppb
- Mn	55	600015.8	107.22576	ppb
- Co	59	584016.1	114.3186	ppb
- Ni	60	131929.4	113.3524	ppb
- As	75	100379.9	104.67352	ppb
- Se	77	9483.6	102.837	ppb
- Se	82	8526.6	98.9078	ppb
> Rh	103	286571.8		ppb
- Cd	111	128348.9	102.19602	ppb
- Cd	114	294040.4	101.60776	ppb
- Sb	121	451654.4	121.69857	ppb
- Sb	123	347686.6	114.54326	ppb
> Ho	165	440765.4		ppb
- Pb	208	1896634.3	108.44511	ppb
- Kr	83	-8166.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Thursday, August 04, 2011 09:31:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38827.4		ppb
- Be	9	6.3	0.00123	ppb
- Sc	45	94249.9		ppb
- Cr	52	20915	4.30081	ppb
- Cr	53	21451.7	-5.66304	ppb
- Mn	55	33005.5	5.76395	ppb
- Co	59	665	0.12222	ppb
- Ni	60	2639.7	2.07988	ppb
- As	75	4026.2	4.47913	ppb
- Se	77	7272.6	70.53598	ppb
- Se	82	6411.2	75.61429	ppb
> Rh	103	281811.8		ppb
- Cd	111	153.8	0.11104	ppb
- Cd	114	-34.7	-0.01943	ppb
- Sb	121	1123.1	0.31039	ppb
- Sb	123	822.1	0.2759	ppb
> Ho	165	405129.5		ppb
- Pb	208	8776.7	0.4119	ppb
- Kr	83	102.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Thursday, August 04, 2011 09:33:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	39471.6		ppb
- Be	9	10653.2	49.5815	ppb
- Sc	45	93133		ppb
- Cr	52	206407.8	58.46931	ppb
- Cr	53	40622.6	38.50584	ppb
- Mn	55	298337.7	59.95989	ppb
- Co	59	259019.3	52.52883	ppb
- Ni	60	62679	55.68604	ppb
- As	75	86052	93.01652	ppb
- Se	77	14148.7	182.85065	ppb
- Se	82	15600	187.46402	ppb
> Rh	103	276517.6		ppb
- Cd	111	51149.4	42.20126	ppb
- Cd	114	117543.3	42.0843	ppb
- Sb	121	201703.6	61.10513	ppb
- Sb	123	153222.1	56.75428	ppb
> Ho	165	391905.6		ppb
- Pb	208	713367.1	45.79272	ppb
- Kr	83	100.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da Thursday, August 04, 2011 09:35:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	40134.8		ppb
- Be	9	30.3	0.11047	ppb
- Sc	45	101324.2		ppb
- Cr	52	65604.5	16.15746	ppb
- Cr	53	20772.4	-9.40108	ppb
- Mn	55	1054246.2	199.59869	ppb
- Co	59	9692.8	1.82441	ppb
- Ni	60	31397.1	25.9047	ppb
- As	75	12722.8	13.018	ppb
- Se	77	8028.5	76.2123	ppb
- Se	82	8204.3	91.99271	ppb
> Rh	103	296358.9		ppb
- Cd	111	539.3	0.40166	ppb
- Cd	114	1133.3	0.37111	ppb
- Sb	121	2542.7	0.66882	ppb
- Sb	123	1952.4	0.62702	ppb
> Ho	165	439215.5		ppb
- Pb	208	60819.7	3.36019	ppb
- Kr	83	38.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Thursday, August 04, 2011 09:41:51

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36611.3		ppb
- Be	9	5	-0.00345	ppb
- Sc	45	90114.1		ppb
- Cr	52	6122.7	0.12872	ppb
- Cr	53	16441.2	-15.55062	ppb
- Mn	55	4068.9	0.00559	ppb
- Co	59	170.3	0.02528	ppb
- Ni	60	247.7	-0.00625	ppb
- As	75	-64.1	0.14652	ppb
- Se	77	2758.4	1.00061	ppb
- Se	82	-39.6	-0.47264	ppb
> Rh	103	272968.9		ppb
- Cd	111	34.1	0.01502	ppb
- Cd	114	61.5	0.0149	ppb
- Sb	121	106	0.01278	ppb
- Sb	123	76	0.00893	ppb
> Ho	165	395728.1		ppb
- Pb	208	1668.7	-0.02828	ppb
- Kr	83	105.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Thursday, August 04, 2011 09:44:00

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34940.7		ppb
- Be	9	20060.1	105.4995	ppb
- Sc	45	85763.4		ppb
- Cr	52	380320.8	110.72013	ppb
- Cr	53	63089.9	101.98725	ppb
- Mn	55	540023.6	109.23517	ppb
- Co	59	524295.9	115.95284	ppb
- Ni	60	118399.9	114.93084	ppb
- As	75	90144.4	106.19251	ppb
- Se	77	8781.6	109.5661	ppb
- Se	82	7817.8	102.43865	ppb
> Rh	103	253658		ppb
- Cd	111	117477.6	105.67066	ppb
- Cd	114	267617.6	104.42874	ppb
- Sb	121	404255.8	128.66324	ppb
- Sb	123	303762.8	118.22345	ppb
> Ho	165	373044.9		ppb
- Pb	208	1570517.3	106.09149	ppb
- Kr	83	-7428.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Da Thursday, August 04, 2011 10:34:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37416.9		ppb
- Be	9	2		ppb
- Sc	45	92391.5		ppb
- Cr	52	6582		ppb
- Cr	53	25746.7		ppb
- Mn	55	4209		ppb
- Co	59	55.7		ppb
- Ni	60	220.3		ppb
- As	75	-239.1		ppb
- Se	77	3054.5		ppb
- Se	82	-11.3		ppb
> Rh	103	281466.2		ppb
- Cd	111	11.6		ppb
- Cd	114	15.8		ppb
- Sb	121	44.7		ppb
- Sb	123	36.3		ppb
> Ho	165	410024.8		ppb
- Pb	208	1471		ppb
- Kr	83	66.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Da Thursday, August 04, 2011 10:36:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38368.8		ppb
- Be	9	272	1.29497	ppb
- Sc	45	96472.4		ppb
- Cr	52	12393.8	1.49903	ppb
- Cr	53	26782.4	-0.46475	ppb
- Mn	55	11913.8	1.43134	ppb
- Co	59	7353	1.38571	ppb
- Ni	60	2046.6	1.51698	ppb
- As	75	1219.3	1.48473	ppb
- Se	77	3177.2	-0.3972	ppb
- Se	82	83.3	1.06958	ppb
> Rh	103	295222.1		ppb
- Cd	111	1645.9	1.2829	ppb
- Cd	114	3739.8	1.24862	ppb
- Sb	121	5908.6	1.63127	ppb
- Sb	123	4513.7	1.52397	ppb
> Ho	165	426690.8		ppb
- Pb	208	25212.8	1.4007	ppb
- Kr	83	-30.8		mg/L



PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date Thursday, August 04, 2011 10:38:39

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35120.9		ppb
- Be	9	20278.9	106.07615	ppb
- Sc	45	88429.4		ppb
- Cr	52	410518.4	124.9856	ppb
- Cr	53	73864	119.82862	ppb
- Mn	55	576495.7	123.72578	ppb
- Co	59	555002.2	119.35102	ppb
- Ni	60	124993.4	118.06156	ppb
- As	75	93980.9	108.05608	ppb
- Se	77	9400.5	112.20876	ppb
- Se	82	8282.1	106.10777	ppb
> Rh	103	259263		ppb
- Cd	111	120939.5	106.28573	ppb
- Cd	114	279924.5	106.7035	ppb
- Sb	121	414713.8	128.28417	ppb
- Sb	123	316260.7	119.71537	ppb
> Ho	165	381096		ppb
- Pb	208	1591012.9	105.33635	ppb
- Kr	83	-7686.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date Thursday, August 04, 2011 10:40:48

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36722.4		ppb
- Be	9	97625.7	498.35439	ppb
- Sc	45	94020.5		ppb
- Cr	52	1950817.8	497.83721	ppb
- Cr	53	260611.5	497.31105	ppb
- Mn	55	2548857.4	496.10256	ppb
- Co	59	2476661.5	472.20775	ppb
- Ni	60	601734.8	497.89155	ppb
- As	75	462114.1	498.26911	ppb
- Se	77	33668.2	497.136	ppb
- Se	82	41265	498.55752	ppb
> Rh	103	277532.3		ppb
- Cd	111	595429	498.33323	ppb
- Cd	114	1386099.7	498.44928	ppb
- Sb	121	1897967.5	495.89875	ppb
- Sb	123	1553695.6	497.48071	ppb
> Ho	165	423912.9		ppb
- Pb	208	7467959.3	472.49724	ppb
- Kr	83	-35598.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date Thursday, August 04, 2011 10:42:58

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35914.3		ppb
- Be	9	21.7	0.10393	ppb
- Sc	45	93165.7		ppb
- Cr	52	7521.1	0.23495	ppb
- Cr	53	26387.2	1.234	ppb
- Mn	55	4740.2	0.10193	ppb
- Co	59	551.4	0.09417	ppb
- Ni	60	317.3	0.07982	ppb
- As	75	10.2	0.26778	ppb
- Se	77	3123.9	1.01553	ppb
- Se	82	-22.4	-0.12956	ppb
> Rh	103	282089.2		ppb
- Cd	111	113.2	0.08475	ppb
- Cd	114	225.6	0.0752	ppb
- Sb	121	337.7	0.07741	ppb
- Sb	123	234.3	0.064	ppb
> Ho	165	420706.8		ppb
- Pb	208	2695.2	0.07619	ppb
- Kr	83	74.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Thursday, August 04, 2011 10:45:08

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37578.8		ppb
Be	9	234.7	1.1602	ppb
Sc	45	94608.3		ppb
Cr	52	11622.1	1.2301	ppb
Cr	53	27445	2.72048	ppb
Mn	55	10565.5	1.19287	ppb
Co	59	6303.9	1.15761	ppb
Ni	60	1550.1	1.06693	ppb
As	75	971.3	1.27126	ppb
Se	77	3152.2	0.83894	ppb
Se	82	82.3	1.101	ppb
Rh	103	285557.9		ppb
Cd	111	1393.1	1.1234	ppb
Cd	114	3116.4	1.08345	ppb
Sb	121	4664.2	1.18154	ppb
Sb	123	3510.3	1.08862	ppb
Ho	165	432784.4		ppb
Pb	208	19601.9	1.11875	ppb
Kr	83	-13.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Thursday, August 04, 2011 10:47:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36437.6		ppb
Be	9	50044	257.42682	ppb
Sc	45	95577.6		ppb
Cr	52	1008329.6	248.82604	ppb
Cr	53	145793.5	245.41873	ppb
Mn	55	1403381.7	264.70166	ppb
Co	59	1383701.9	256.00297	ppb
Ni	60	311441.5	249.90724	ppb
As	75	236654.6	247.7101	ppb
Se	77	18539.9	242.87247	ppb
Se	82	20399.3	239.25731	ppb
Rh	103	286014.5		ppb
Cd	111	303671.7	246.56542	ppb
Cd	114	696758.5	243.13913	ppb
Sb	121	1029489	261.31937	ppb
Sb	123	786668.1	244.66119	ppb
Ho	165	436273.4		ppb
Pb	208	3924733.3	241.20839	ppb
Kr	83	-18300.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Thursday, August 04, 2011 10:49:27

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	33892.3		ppb
Be	9	19486.5	107.76181	ppb
Sc	45	87345		ppb
Cr	52	407961.7	108.60844	ppb
Cr	53	74983.7	113.68204	ppb
Mn	55	567944	116.1218	ppb
Co	59	553808.6	111.48519	ppb
Ni	60	124186.2	108.3373	ppb
As	75	95383.6	108.79778	ppb
Se	77	9542	114.5135	ppb
Se	82	8521.3	108.83787	ppb
Rh	103	262865.6		ppb
Cd	111	121295.1	107.1931	ppb
Cd	114	281025.8	106.70847	ppb
Sb	121	414346.9	115.40136	ppb
Sb	123	315668.2	107.7245	ppb
Ho	165	397576.4		ppb
Pb	208	1670396	112.59469	ppb
Kr	83	-7760.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Da Thursday, August 04, 2011 10:51:38

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36319.2		ppb
- Be	9	9680.5	49.95144	ppb
- Sc	45	94453.7		ppb
- Cr	52	203221.1	49.3765	ppb
- Cr	53	50087.6	50.21184	ppb
- Mn	55	283146.1	53.35067	ppb
- Co	59	271778.6	50.8232	ppb
- Ni	60	62709.6	50.73342	ppb
- As	75	46739.7	49.66593	ppb
- Se	77	6180.4	49.46629	ppb
- Se	82	4037.2	47.97764	ppb
> Rh	103	282902.9		ppb
- Cd	111	59659.8	48.96707	ppb
- Cd	114	138500.9	48.84981	ppb
- Sb	121	205706	53.156	ppb
- Sb	123	157637.7	49.91158	ppb
> Ho	165	428438.5		ppb
- Pb	208	821209.1	51.31587	ppb
- Kr	83	79.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Da Thursday, August 04, 2011 10:53:47

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40511.6		ppb
- Be	9	7	0.02235	ppb
- Sc	45	112797.2		ppb
- Cr	52	13296.7	1.43913	ppb
- Cr	53	30484.7	5.04435	ppb
- Mn	55	28063.9	4.17734	ppb
- Co	59	6604.4	1.13681	ppb
- Ni	60	4984	3.57826	ppb
- As	75	-390	-0.13097	ppb
- Se	77	5164.1	27.42505	ppb
- Se	82	-43.8	-0.34608	ppb
> Rh	103	304587.8		ppb
- Cd	111	494.1	0.36728	ppb
- Cd	114	3019.5	0.98272	ppb
- Sb	121	693	0.13872	ppb
- Sb	123	522.5	0.12731	ppb
> Ho	165	508142.7		ppb
- Pb	208	14226	0.65437	ppb
- Kr	83	85.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Da Thursday, August 04, 2011 10:55:56

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33898		ppb
- Be	9	470.7	2.59226	ppb
- Sc	45	97903.8		ppb
- Cr	52	61308.7	14.91179	ppb
- Cr	53	37944.4	31.02324	ppb
- Mn	55	82776.9	16.23533	ppb
- Co	59	125673.4	25.29255	ppb
- Ni	60	27958.6	24.24961	ppb
- As	75	11097.5	12.88122	ppb
- Se	77	6311.5	59.16222	ppb
- Se	82	954.5	12.30332	ppb
> Rh	103	262833.6		ppb
- Cd	111	8604	7.59232	ppb
- Cd	114	21446.8	8.13791	ppb
- Sb	121	11053.1	2.86396	ppb
- Sb	123	8246.9	2.61675	ppb
> Ho	165	425588		ppb
- Pb	208	43106.5	2.62054	ppb
- Kr	83	-134.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 8  
 Sample Date: Thursday, August 04, 2011 10:58:06  
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	54325.8		ppb
- Be	9	86	0.28649	ppb
- Sc	45	145751.8		ppb
- Cr	52	15808.7	0.79258	ppb
- Cr	53	46901	6.44007	ppb
- Mn	55	12457.5	0.6634	ppb
- Co	59	2849.8	0.3181	ppb
- Ni	60	6873.6	3.2687	ppb
- As	75	609.9	0.65544	ppb
- Se	77	6746.5	17.49008	ppb
- Se	82	12.3	0.22517	ppb
> Rh	103	457861.8		ppb
- Cd	111	610.5	0.29997	ppb
- Cd	114	1388.1	0.29709	ppb
- Sb	121	2368.3	0.37239	ppb
- Sb	123	1848	0.35545	ppb
> Ho	165	682260.1		ppb
- Pb	208	20571.8	0.71256	ppb
- Kr	83	22.2		mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 2  
 Sample Date: Thursday, August 04, 2011 11:00:17  
 Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	35759.9		ppb
- Be	9	219.7	1.14121	ppb
- Sc	45	93243.1		ppb
- Cr	52	13331.8	1.65926	ppb
- Cr	53	33451.1	15.13284	ppb
- Mn	55	9918.4	1.07267	ppb
- Co	59	6171.8	1.13448	ppb
- Ni	60	1583.5	1.09504	ppb
- As	75	782.5	1.07337	ppb
- Se	77	4366.7	20.06072	ppb
- Se	82	73.1	0.99226	ppb
> Rh	103	285255.2		ppb
- Cd	111	1313.7	1.05993	ppb
- Cd	114	3006.6	1.04623	ppb
- Sb	121	4594.2	1.21841	ppb
- Sb	123	3504.1	1.13612	ppb
> Ho	165	414192.2		ppb
- Pb	208	19180.6	1.14607	ppb
- Kr	83	-23.7		mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-27 BH  
 Sample Date: Thursday, August 04, 2011 11:19:44  
 Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	36079.2		ppb
- Be	9	8.3	0.03328	ppb
- Sc	45	98965.8		ppb
- Cr	52	19927.8	3.08431	ppb
- Cr	53	21002.6	-12.36158	ppb
- Mn	55	32750.6	5.13104	ppb
- Co	59	1351.8	0.22934	ppb
- Ni	60	5619.7	4.14596	ppb
- As	75	1253.9	1.51254	ppb
- Se	77	5500.7	34.12578	ppb
- Se	82	3423.6	38.60169	ppb
> Rh	103	298356.7		ppb
- Cd	111	777.2	0.59528	ppb
- Cd	114	1586.8	0.52527	ppb
- Sb	121	1317.4	0.31476	ppb
- Sb	123	1069.5	0.31311	ppb
> Ho	165	446481.3		ppb
- Pb	208	31356.9	1.78746	ppb
- Kr	83	-50.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-27 BH  
 Sample Date Thursday, August 04, 2011 11:21:54  
 Sample Description Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37706.3		ppb
- Be	9	9345.1	46.44753	ppb
- Sc	45	104744.7		ppb
- Cr	52	237793	53.04286	ppb
- Cr	53	46222.9	34.16212	ppb
- Mn	55	334090.2	57.71467	ppb
- Co	59	303376	51.96142	ppb
- Ni	60	74532.7	55.24018	ppb
- As	75	53728.4	52.27768	ppb
- Se	77	9214.3	85.41889	ppb
- Se	82	8666	94.21592	ppb
> Rh	103	308981.6		ppb
- Cd	111	59576.7	44.78963	ppb
- Cd	114	136402.8	44.06882	ppb
- Sb	121	213857	50.75688	ppb
- Sb	123	162510.3	47.26023	ppb
> Ho	165	466515.1		ppb
- Pb	208	889163.9	51.0286	ppb
- Kr	83	-38.6		mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 1  
 Sample Date Thursday, August 04, 2011 11:24:05

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	34618.8		ppb
- Be	9	9.3	0.0413	ppb
- Sc	45	89026.1		ppb
- Cr	52	7524.1	0.27905	ppb
- Cr	53	23083.6	-4.51967	ppb
- Mn	55	4029.9	-0.01746	ppb
- Co	59	147.7	0.01815	ppb
- Ni	60	224.7	0.00745	ppb
- As	75	-91.6	0.15521	ppb
- Se	77	3517.3	8.62805	ppb
- Se	82	-6.9	0.04935	ppb
> Rh	103	275543.1		ppb
- Cd	111	48.2	0.03132	ppb
- Cd	114	66.4	0.01869	ppb
- Sb	121	113	0.01923	ppb
- Sb	123	83.9	0.01649	ppb
> Ho	165	402909.3		ppb
- Pb	208	1705.7	0.01754	ppb
- Kr	83	57.5		mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: QC Std 4  
 Sample Date Thursday, August 04, 2011 11:26:14

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	32685.4		ppb
- Be	9	18814.1	107.88051	ppb
- Sc	45	84908.1		ppb
- Cr	52	392970.2	107.46423	ppb
- Cr	53	68833.9	104.19832	ppb
- Mn	55	542881.7	114.01356	ppb
- Co	59	538952.9	111.44102	ppb
- Ni	60	120779.8	108.2426	ppb
- As	75	91474	107.16663	ppb
- Se	77	9472.6	117.75916	ppb
- Se	82	8115.7	106.48345	ppb
> Rh	103	255882.6		ppb
- Cd	111	117475.7	106.62737	ppb
- Cd	114	272036.3	106.09986	ppb
- Sb	121	404768.4	117.40898	ppb
- Sb	123	305478.3	108.58323	ppb
> Ho	165	381800		ppb
- Pb	208	1579312.4	110.89665	ppb
- Kr	83	-7492.3		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Tuesday, August 09, 2011 18:10:00

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	70578.5		ppb
Sc	45	220124.1		ppb
Cr	52	8146.3		ppb
Cr	53	10515.3		ppb
Mn	55	43198.6		ppb
Co	59	228		ppb
Ni	60	278		ppb
As	75	722		ppb
Se	77	524.3		ppb
Se	82	163.7		ppb
Rh	103	558209.1		ppb
Cd	111	21.8		ppb
Cd	114	27.4		ppb
Sb	121	139.3		ppb
Sb	123	119.9		ppb
Ho	165	952365.9		ppb
Pb	208	12627.1		ppb
Kr	83	138.8		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Tuesday, August 09, 2011 18:12:06

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	65662.1		ppb
Sc	45	227865.4		ppb
Cr	52	18275.1	1.09404	ppb
Cr	53	8147	-1.41152	ppb
Mn	55	59798.3	1.19719	ppb
Co	59	12815.4	1.09369	ppb
Ni	60	2988.5	1.11173	ppb
As	75	4062.6	1.08886	ppb
Se	77	813.4	0.93972	ppb
Se	82	558.6	0.90318	ppb
Rh	103	524051.2		ppb
Cd	111	2820.5	1.08182	ppb
Cd	114	6623.2	1.11058	ppb
Sb	121	10023.9	1.16084	ppb
Sb	123	7725.9	1.16823	ppb
Ho	165	916908.8		ppb
Pb	208	55532.8	1.12482	ppb
Kr	83	14.2		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Tuesday, August 09, 2011 18:14:12

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	73915.1		ppb
Sc	45	266782.7		ppb
Cr	52	1173419	107.72912	ppb
Cr	53	141658.8	99.89228	ppb
Mn	55	1893745.3	103.70576	ppb
Co	59	1356225.4	105.69712	ppb
Ni	60	288077.9	105.48455	ppb
As	75	365420.5	105.3292	ppb
Se	77	41199.7	105.66634	ppb
Se	82	52033.8	104.03845	ppb
Rh	103	583739.2		ppb
Cd	111	297632.7	103.24155	ppb
Cd	114	705529.3	106.69415	ppb
Sb	121	1020914	106.21441	ppb
Sb	123	794662.2	108.1167	ppb
Ho	165	1033064.9		ppb
Pb	208	4528362.6	104.02399	ppb
Kr	83	-18522.3		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Tuesday, August 09, 2011 18:16:18

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	64904.2		ppb
Sc	45	247512.7		ppb
Cr	52	4931057.2	498.45399	ppb
Cr	53	607348.6	500.02637	ppb
Mn	55	8172163.7	499.25845	ppb
Co	59	5848107.8	498.86039	ppb
Ni	60	1244159.6	498.90287	ppb
As	75	1578547.9	498.93398	ppb
Se	77	175761.8	498.86685	ppb
Se	82	227536.9	499.1925	ppb
Rh	103	533363.5		ppb
Cd	111	1315321.8	499.35153	ppb
Cd	114	3014383.2	498.66095	ppb
Sb	121	4544129.9	498.7568	ppb
Sb	123	3471923.6	498.37632	ppb
Ho	165	979299.7		ppb
Pb	208	20554982	499.19495	ppb
Kr	83	-83158.5		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 18:18:25

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	64223.2		ppb
Sc	45	242500.1		ppb
Cr	52	8293.8	0.02353	ppb
Cr	53	3968.2	-5.20121	ppb
Mn	55	43538	0.04937	ppb
Co	59	698.7	0.03907	ppb
Ni	60	346.7	0.0279	ppb
As	75	1083.6	0.11308	ppb
Se	77	352	-0.45789	ppb
Se	82	270.6	0.23096	ppb
Rh	103	551846.1		ppb
Cd	111	136.3	0.04216	ppb
Cd	114	284.6	0.04121	ppb
Sb	121	491.7	0.03888	ppb
Sb	123	393	0.03937	ppb
Ho	165	972868.1		ppb
Pb	208	14814.7	0.04724	ppb
Kr	83	146.8		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Tuesday, August 09, 2011 18:20:31

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	64121.3		ppb
Sc	45	244563.3		ppb
Cr	52	19629.5	1.17025	ppb
Cr	53	5066.1	-4.23808	ppb
Mn	55	61479.5	1.18541	ppb
Co	59	13720	1.1349	ppb
Ni	60	3048.5	1.09833	ppb
As	75	4473.1	1.17542	ppb
Se	77	676.7	0.4698	ppb
Se	82	758.7	1.29685	ppb
Rh	103	541339		ppb
Cd	111	2976.1	1.10536	ppb
Cd	114	7091.6	1.15168	ppb
Sb	121	10399.3	1.15043	ppb
Sb	123	7931.8	1.14537	ppb
Ho	165	958728.4		ppb
Pb	208	57495.9	1.11172	ppb
Kr	83	-33.7		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Da: Tuesday, August 09, 2011 18:22:37

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	61537.3		ppb
Sc	45	247463.6		ppb
Cr	52	2481902.8	253.54609	ppb
Cr	53	299472.6	245.33284	ppb
Mn	55	3984668.2	245.09063	ppb
Co	59	2884846.8	249.06494	ppb
Ni	60	616552.1	250.17381	ppb
As	75	754169.2	241.13362	ppb
Se	77	84283.6	241.37757	ppb
Se	82	107529.8	238.57979	ppb
Rh	103	527030.4		ppb
Cd	111	642708.1	246.93366	ppb
Cd	114	1501845.2	251.47414	ppb
Sb	121	2204110	250.42794	ppb
Sb	123	1712489.6	254.46848	ppb
Ho	165	945964.9		ppb
Pb	208	9929366.1	249.48077	ppb
Kr	83	-41138.5		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Tuesday, August 09, 2011 18:24:45

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	62339.9		ppb
Sc	45	242735.1		ppb
Cr	52	1058578.4	105.16841	ppb
Cr	53	126936.2	96.64147	ppb
Mn	55	1727564.1	102.33627	ppb
Co	59	1231121	103.81324	ppb
Ni	60	261638.8	103.6384	ppb
As	75	324039.8	101.07924	ppb
Se	77	36064.7	100.0677	ppb
Se	82	46717.2	101.05124	ppb
Rh	103	539535.5		ppb
Cd	111	273560.1	102.66478	ppb
Cd	114	649977.1	106.29827	ppb
Sb	121	944826.5	105.22925	ppb
Sb	123	725965.3	105.73936	ppb
Ho	165	964985.8		ppb
Pb	208	4281058.4	105.26201	ppb
Kr	83	-17103.3		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Da: Tuesday, August 09, 2011 18:26:52

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	62571.6		ppb
Sc	45	245957.3		ppb
Cr	52	523088.8	51.16767	ppb
Cr	53	63859.9	44.03779	ppb
Mn	55	893592.6	51.29519	ppb
Co	59	611668.7	51.17507	ppb
Ni	60	129137.8	50.71374	ppb
As	75	163678.5	50.56726	ppb
Se	77	17902.6	48.57537	ppb
Se	82	23263.5	49.76343	ppb
Rh	103	543683.9		ppb
Cd	111	135389	50.41822	ppb
Cd	114	317892.6	51.58956	ppb
Sb	121	467744.5	52.72002	ppb
Sb	123	357144.1	52.65082	ppb
Ho	165	953367.5		ppb
Pb	208	2115204.1	52.49193	ppb
Kr	83	137.9		mg/L



Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC STD 2

Sample Da Tuesday, August 09, 2011 18:28:59

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	63785.9		ppb
Sc	45	245076.8		ppb
Cr	52	20155.4	1.18379	ppb
Cr	53	4294.7	-4.94293	ppb
Mn	55	61237.3	1.10203	ppb
Co	59	13805.5	1.11993	ppb
Ni	60	3073.5	1.08541	ppb
As	75	4215.9	1.07104	ppb
Se	77	652	0.36521	ppb
Se	82	711.4	1.16573	ppb
Rh	103	551667.6		ppb
Cd	111	3028.5	1.1034	ppb
Cd	114	7148.8	1.13793	ppb
Sb	121	10340.6	1.1434	ppb
Sb	123	7960	1.14985	ppb
Ho	165	958576.1		ppb
Pb	208	57940.1	1.12261	ppb
Kr	83	-32.9		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Tuesday, August 09, 2011 18:31:07

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	61631.1		ppb
Sc	45	272528.5		ppb
Cr	52	70924.3	5.97034	ppb
Cr	53	9823.3	-0.67112	ppb
Mn	55	96619.9	3.04889	ppb
Co	59	1495.8	0.10154	ppb
Ni	60	15192.8	5.64232	ppb
As	75	315	-0.12447	ppb
Se	77	346.7	-0.49711	ppb
Se	82	106.7	-0.12299	ppb
Rh	103	566717.8		ppb
Cd	111	287.3	0.09475	ppb
Cd	114	465.3	0.06811	ppb
Sb	121	668250.4	72.30217	ppb
Sb	123	510323.3	72.20508	ppb
Ho	165	993281.8		ppb
Pb	208	81154.1	1.62873	ppb
Kr	83	49.9		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Tuesday, August 09, 2011 18:33:13

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	62775.5		ppb
Sc	45	286411.8		ppb
Cr	52	688727.3	60.4355	ppb
Cr	53	82188.6	51.99433	ppb
Mn	55	1109087.6	57.25622	ppb
Co	59	747113.1	55.93764	ppb
Ni	60	160160.9	56.28559	ppb
As	75	83161.7	22.86897	ppb
Se	77	5929.9	13.39045	ppb
Se	82	7164	13.46738	ppb
Rh	103	607530.8		ppb
Cd	111	119951.4	39.97437	ppb
Cd	114	283029.2	41.10341	ppb
Sb	121	438198.5	44.29152	ppb
Sb	123	338145.6	44.70049	ppb
Ho	165	1063089.9		ppb
Pb	208	2264665.8	50.38888	ppb
Kr	83	51.8		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-1 BH

Sample Da Tuesday, August 09, 2011 18:35:19

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55526.9		ppb
Sc	45	257353.8		ppb
Cr	52	70293.4	6.35438	ppb
Cr	53	24266.4	11.96899	ppb
Mn	55	139022.7	6.03301	ppb
Co	59	19393.7	1.6419	ppb
Ni	60	11166.5	4.38863	ppb
As	75	15649.9	4.74911	ppb
Se	77	25239	70.68623	ppb
Se	82	28342.7	62.10406	ppb
Rh	103	531491.9		ppb
Cd	111	482.2	0.17577	ppb
Cd	114	-343.4	-0.06156	ppb
Sb	121	4906.3	0.65517	ppb
Sb	123	3760.3	0.65503	ppb
Ho	165	786105.9		ppb
Pb	208	91171.7	2.44503	ppb
Kr	83	572		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Tuesday, August 09, 2011 18:37:25

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	61262.1		ppb
Sc	45	278044.4		ppb
Cr	52	194720.1	16.7222	ppb
Cr	53	37540	19.50016	ppb
Mn	55	271910.9	12.29493	ppb
Co	59	10088.9	0.74582	ppb
Ni	60	23090.3	8.11922	ppb
As	75	15119.7	4.02821	ppb
Se	77	27764.7	68.77153	ppb
Se	82	31454.6	60.99137	ppb
Rh	103	600538.8		ppb
Cd	111	424.1	0.1351	ppb
Cd	114	-186.3	-0.03175	ppb
Sb	121	4383.1	0.50361	ppb
Sb	123	3314.9	0.49595	ppb
Ho	165	907180.8		ppb
Pb	208	76662.8	1.69556	ppb
Kr	83	105.9		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Tuesday, August 09, 2011 18:39:32

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	59286.6		ppb
Sc	45	271057.8		ppb
Cr	52	194778.5	17.09245	ppb
Cr	53	36479.1	19.2808	ppb
Mn	55	277625.8	12.92306	ppb
Co	59	10280.8	0.77635	ppb
Ni	60	23528.8	8.45013	ppb
As	75	15519.3	4.23331	ppb
Se	77	27543.7	69.6695	ppb
Se	82	31796	62.96469	ppb
Rh	103	588087.3		ppb
Cd	111	487	0.15978	ppb
Cd	114	-89.4	-0.01756	ppb
Sb	121	4720.6	0.5551	ppb
Sb	123	3673	0.56317	ppb
Ho	165	888866		ppb
Pb	208	77849.7	1.76874	ppb
Kr	83	84.7		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Tuesday, August 09, 2011 18:41:38

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	60708.8			ppb
Sc	45	279456			ppb
Cr	52	93632.4	7.53806		ppb
Cr	53	24410.4	9.53295		ppb
Mn	55	204247	8.48038		ppb
Co	59	2431.3	0.1636		ppb
Ni	60	10897.5	3.73231		ppb
As	75	18168	4.82651		ppb
Se	77	31594.1	77.56237		ppb
Se	82	36754.7	70.52145		ppb
Rh	103	607324.7			ppb
Cd	111	420	0.13205		ppb
Cd	114	-363.7	-0.05714		ppb
Sb	121	5032.1	0.57814		ppb
Sb	123	3890.6	0.58285		ppb
Ho	165	910842.4			ppb
Pb	208	32070.8	0.52243		ppb
Kr	83	142.3			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Tuesday, August 09, 2011 18:43:44

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	53312.4			ppb
Sc	45	244853			ppb
Cr	52	580507.9	57.3758		ppb
Cr	53	81561	59.15833		ppb
Mn	55	980274.8	57.03019		ppb
Co	59	561016	47.34296		ppb
Ni	60	130673.8	51.76049		ppb
As	75	225185.9	70.2465		ppb
Se	77	49818.1	138.90452		ppb
Se	82	60361.2	130.79247		ppb
Rh	103	538993.6			ppb
Cd	111	97512.1	36.62632		ppb
Cd	114	228471.9	37.39783		ppb
Sb	121	426894.1	56.50906		ppb
Sb	123	327023.6	56.61349		ppb
Ho	165	811779.5			ppb
Pb	208	1576132.4	45.88955		ppb
Kr	83	75.4			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Da Tuesday, August 09, 2011 18:45:50

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	58826			ppb
Sc	45	268314.9			ppb
Cr	52	49576.8	3.65334		ppb
Cr	53	18897.6	5.58767		ppb
Mn	55	104685	3.15308		ppb
Co	59	4590.2	0.3279		ppb
Ni	60	12581.7	4.35855		ppb
As	75	28732.3	7.82166		ppb
Se	77	73535.2	183.78326		ppb
Se	82	91064	176.55198		ppb
Rh	103	602817.6			ppb
Cd	111	1632.7	0.54055		ppb
Cd	114	2934.5	0.42515		ppb
Sb	121	26057	2.98621		ppb
Sb	123	19766.9	2.96057		ppb
Ho	165	932991			ppb
Pb	208	61845.2	1.26195		ppb
Kr	83	416.9			mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da Tuesday, August 09, 2011 18:47:56

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	60725.9			ppb
Sc	45	281779.1			ppb
Cr	52	195625.6	16.54128		ppb
Cr	53	37272.9	18.88602		ppb
Mn	55	3287353.7	174.07573		ppb
Co	59	23158.5	1.70999		ppb
Ni	60	72403.6	25.30033		ppb
As	75	27118.9	7.28589		ppb
Se	77	18279	44.1014		ppb
Se	82	20082.7	38.23134		ppb
Rh	103	609702.5			ppb
Cd	111	1185.6	0.38584		ppb
Cd	114	2461.4	0.35161		ppb
Sb	121	5549.7	0.57464		ppb
Sb	123	4320.7	0.58341		ppb
Ho	165	1010504.9			ppb
Pb	208	265137.5	5.92858		ppb
Kr	83	-149.5			mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Tuesday, August 09, 2011 18:50:05

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	61297.9			ppb
Sc	45	247713.4			ppb
Cr	52	8136.6	-0.05155		ppb
Cr	53	2859.1	-6.27017		ppb
Mn	55	46175	0.0005		ppb
Co	59	232.3	-0.00089		ppb
Ni	60	291.3	-0.00206		ppb
As	75	1307.3	0.15136		ppb
Se	77	316	-0.62137		ppb
Se	82	354.9	0.35278		ppb
Rh	103	596671.3			ppb
Cd	111	13.9	-0.00321		ppb
Cd	114	40	0.00159		ppb
Sb	121	154.3	0.00075		ppb
Sb	123	131.6	0.00066		ppb
Ho	165	1007564.5			ppb
Pb	208	13109.7	-0.00587		ppb
Kr	83	159.2			mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Tuesday, August 09, 2011 18:52:11

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	59869.1			ppb
Sc	45	257679.3			ppb
Cr	52	1123525.1	104.06996		ppb
Cr	53	134448	95.3353		ppb
Mn	55	1839754.2	101.5937		ppb
Co	59	1299859.3	102.19857		ppb
Ni	60	277246.8	102.39836		ppb
As	75	350041.5	101.81128		ppb
Se	77	39138.1	101.26647		ppb
Se	82	49352.7	99.52468		ppb
Rh	103	578650.6			ppb
Cd	111	285789.4	99.99511		ppb
Cd	114	675308.8	102.96826		ppb
Sb	121	981636.4	106.66081		ppb
Sb	123	754640.8	107.22348		ppb
Ho	165	989168.5			ppb
Pb	208	4359777.7	104.58205		ppb
Kr	83	-17537.6			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-6 BH

Sample Da: Tuesday, August 09, 2011 18:54:20

Sample De: Airtech

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mear	Report Unit
Li	6	61575.3			ppb
Sc	45	292431.5			ppb
Cr	52	36684.6	2.52734		ppb
Cr	53	20588.6	6.97863		ppb
Mn	55	63574.3	0.94972		ppb
Co	59	1856.9	0.12298		ppb
Ni	60	12238.2	4.27393		ppb
As	75	1136.3	0.10322		ppb
Se	77	4822.6	10.8227		ppb
Se	82	2532.2	4.61808		ppb
Rh	103	597617.6			ppb
Cd	111	1357.2	0.45226		ppb
Cd	114	2976.4	0.4359		ppb
Sb	121	9107.9	0.94617		ppb
Sb	123	6895.1	0.93424		ppb
Ho	165	1018612.5			ppb
Pb	208	92018.2	1.83448		ppb
Kr	83	-111.1			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Da: Tuesday, August 09, 2011 18:56:26

Sample De: Airtech

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mear	Report Unit
Li	6	60863.8			ppb
Sc	45	278253.8			ppb
Cr	52	93309.8	7.22466		ppb
Cr	53	25881.8	8.97183		ppb
Mn	55	86749.6	1.98332		ppb
Co	59	3323.6	0.2219		ppb
Ni	60	15246.8	5.08058		ppb
As	75	9467.8	2.32014		ppb
Se	77	15175.7	35.21647		ppb
Se	82	16160	29.7484		ppb
Rh	103	628916.4			ppb
Cd	111	386.2	0.11645		ppb
Cd	114	-193.1	-0.03148		ppb
Sb	121	3051.5	0.32898		ppb
Sb	123	2250.1	0.31472		ppb
Ho	165	951542.4			ppb
Pb	208	53540	1.0235		ppb
Kr	83	575.2			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da: Tuesday, August 09, 2011 18:58:32

Sample De: Airtech

## Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mear	Report Unit
Li	6	60580			ppb
Sc	45	283547.3			ppb
Cr	52	55484.2	3.91602		ppb
Cr	53	19419.7	5.20313		ppb
Mn	55	125882.6	3.93747		ppb
Co	59	3095.5	0.20271		ppb
Ni	60	9694.2	3.14908		ppb
As	75	14809	3.70476		ppb
Se	77	24519	57.01393		ppb
Se	82	28244.7	51.57958		ppb
Rh	103	637031.3			ppb
Cd	111	1744.3	0.5466		ppb
Cd	114	3049.7	0.41813		ppb
Sb	121	6173.4	0.67173		ppb
Sb	123	4728.2	0.67096		ppb
Ho	165	965249.8			ppb
Pb	208	74737.8	1.52714		ppb
Kr	83	570.3			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da Tuesday, August 09, 2011 19:00:38

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	56105.6		ppb
Sc	45	263601.2		ppb
Cr	52	55167.2	4.1686	ppb
Cr	53	19523	6.09242	ppb
Mn	55	123868.9	4.21516	ppb
Co	59	2766.1	0.19081	ppb
Ni	60	9947.1	3.43402	ppb
As	75	15830.8	4.2243	ppb
Se	77	24284.4	59.91472	ppb
Se	82	27804	53.82351	ppb
Rh	103	601056.1		ppb
Cd	111	1786.1	0.59386	ppb
Cd	114	2871.2	0.41706	ppb
Sb	121	5986	0.69133	ppb
Sb	123	4638.8	0.69885	ppb
Ho	165	910002.7		ppb
Pb	208	70972.9	1.54057	ppb
Kr	83	645.7		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Tuesday, August 09, 2011 19:02:45

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	59484.2		ppb
Sc	45	279010.3		ppb
Cr	52	61261.1	4.51191	ppb
Cr	53	20221.8	6.04308	ppb
Mn	55	81480.9	1.74014	ppb
Co	59	1906.2	0.12039	ppb
Ni	60	9643.8	3.19844	ppb
As	75	18179	4.69144	ppb
Se	77	28071.6	66.79398	ppb
Se	82	33016.3	61.53436	ppb
Rh	103	624777.6		ppb
Cd	111	287.5	0.08545	ppb
Cd	114	-733.2	-0.10752	ppb
Sb	121	3532.4	0.37468	ppb
Sb	123	2690.7	0.3713	ppb
Ho	165	972562.1		ppb
Pb	208	64610.8	1.26571	ppb
Kr	83	423.3		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Tuesday, August 09, 2011 19:04:51

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	57049.4		ppb
Sc	45	273342.6		ppb
Cr	52	615516.5	53.38321	ppb
Cr	53	85513	53.81556	ppb
Mn	55	967031.9	49.08029	ppb
Co	59	637017.4	47.21984	ppb
Ni	60	144878.8	50.40443	ppb
As	75	255842.3	70.10024	ppb
Se	77	50219	122.8326	ppb
Se	82	60951.3	115.96839	ppb
Rh	103	613621.5		ppb
Cd	111	117311	38.70474	ppb
Cd	114	272583.2	39.19226	ppb
Sb	121	495823.5	55.80932	ppb
Sb	123	384396.7	56.58515	ppb
Ho	165	954705.9		ppb
Pb	208	1886457.7	46.70797	ppb
Kr	83	468.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Date: Tuesday, August 09, 2011 19:06:57

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	57576.6		ppb
Sc	45	273779.8		ppb
Cr	52	41370.3	2.74472	ppb
Cr	53	18285.7	4.50111	ppb
Mn	55	88410.5	2.04381	ppb
Co	59	2822.1	0.18448	ppb
Ni	60	15720.6	5.21105	ppb
As	75	7960.6	1.90531	ppb
Se	77	12645.1	28.93325	ppb
Se	82	12627.6	23.03934	ppb
Rh	103	632443.2		ppb
Cd	111	4530.7	1.44285	ppb
Cd	114	10364.3	1.44175	ppb
Sb	121	10586.5	1.11332	ppb
Sb	123	8071.5	1.10818	ppb
Ho	165	1007898.8		ppb
Pb	208	74420.8	1.44173	ppb
Kr	83	396.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Date: Tuesday, August 09, 2011 19:09:03

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	51936.1		ppb
Sc	45	248792.5		ppb
Cr	52	56186.6	4.58853	ppb
Cr	53	20135.3	7.52314	ppb
Mn	55	174574	7.59821	ppb
Co	59	3025.5	0.22558	ppb
Ni	60	18865.6	7.04799	ppb
As	75	17877.9	5.1278	ppb
Se	77	36524.6	96.86727	ppb
Se	82	43987.8	90.94401	ppb
Rh	103	564357.9		ppb
Cd	111	3679.4	1.31222	ppb
Cd	114	8336.4	1.29909	ppb
Sb	121	15089.9	1.81073	ppb
Sb	123	11548.3	1.81027	ppb
Ho	165	887909.5		ppb
Pb	208	60459.8	1.30566	ppb
Kr	83	471.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Date: Tuesday, August 09, 2011 19:11:09

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	58594.3		ppb
Sc	45	278207.9		ppb
Cr	52	39520.4	2.55628	ppb
Cr	53	18431.3	4.48523	ppb
Mn	55	88780.4	2.02206	ppb
Co	59	1839.9	0.11261	ppb
Ni	60	9944.4	3.22732	ppb
As	75	17231.2	4.33686	ppb
Se	77	29402.1	68.52543	ppb
Se	82	33862.2	61.79484	ppb
Rh	103	638142.9		ppb
Cd	111	840.8	0.25887	ppb
Cd	114	1667.7	0.22626	ppb
Sb	121	8195	0.86886	ppb
Sb	123	6399.1	0.88568	ppb
Ho	165	995800.9		ppb
Pb	208	46281.6	0.79051	ppb
Kr	83	554.3		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Date: Tuesday, August 09, 2011 19:13:15

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	57241.2		ppb
Sc	45	278919.2		ppb
Cr	52	110016.7	8.67562	ppb
Cr	53	25463.3	9.69738	ppb
Mn	55	146622.6	5.11476	ppb
Co	59	2955.8	0.19563	ppb
Ni	60	11657.5	3.86605	ppb
As	75	22952.3	5.94857	ppb
Se	77	29164.4	69.10476	ppb
Se	82	34343.3	63.71222	ppb
Rh	103	627806.1		ppb
Cd	111	669.1	0.20784	ppb
Cd	114	301.6	0.03803	ppb
Sb	121	18542.6	2.02746	ppb
Sb	123	14211.2	2.03025	ppb
Ho	165	975500.1		ppb
Pb	208	104002.7	2.22171	ppb
Kr	83	-603.2		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 19:15:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	59134.4		ppb
Sc	45	247569.4		ppb
Cr	52	8280.8	-0.06866	ppb
Cr	53	2548.4	-6.58018	ppb
Mn	55	46984.1	-0.05892	ppb
Co	59	286	0.00235	ppb
Ni	60	314.7	0.00175	ppb
As	75	661.3	-0.03875	ppb
Se	77	327	-0.62712	ppb
Se	82	150.4	-0.06017	ppb
Rh	103	621572.1		ppb
Cd	111	25.5	0.00037	ppb
Cd	114	65.1	0.00489	ppb
Sb	121	191	0.00414	ppb
Sb	123	154	0.00326	ppb
Ho	165	1034023.5		ppb
Pb	208	13548.9	-0.00369	ppb
Kr	83	174.9		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 19:17:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	57685.8		ppb
Sc	45	261945		ppb
Cr	52	1152920	103.52544	ppb
Cr	53	138940.9	95.50771	ppb
Mn	55	1880693.7	100.65191	ppb
Co	59	1356396.3	103.38869	ppb
Ni	60	288221.8	103.21685	ppb
As	75	360764.3	101.72588	ppb
Se	77	40099.3	100.58744	ppb
Se	82	51502.2	100.71482	ppb
Rh	103	597153.4		ppb
Cd	111	291970.5	98.98465	ppb
Cd	114	691210.3	102.13197	ppb
Sb	121	1006623.8	108.40967	ppb
Sb	123	773019.9	108.87608	ppb
Ho	165	998042.9		ppb
Pb	208	4366557.9	103.79685	ppb
Kr	83	-18118.5		mg/L



## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Tuesday, August 09, 2011 19:19:39

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	53983.9			ppb
Sc	45	287076.4			ppb
Cr	52	114969.7	9.98109		ppb
Cr	53	26497.6	12.10006		ppb
Mn	55	133017.3	5.02399		ppb
Co	59	5727.5	0.43393		ppb
Ni	60	9563	3.44216		ppb
As	75	49182.9	14.16267		ppb
Se	77	84120.9	219.74744		ppb
Se	82	104516.4	211.66809		ppb
Rh	103	577424.1			ppb
Cd	111	985	0.33813		ppb
Cd	114	149.9	0.01898		ppb
Sb	121	10772.4	1.27512		ppb
Sb	123	8359.3	1.29227		ppb
Ho	165	896898.2			ppb
Pb	208	53683.3	1.10891		ppb
Kr	83	-561.4			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Tuesday, August 09, 2011 19:21:45

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	56633.6			ppb
Sc	45	280617.3			ppb
Cr	52	112910.3	9.29662		ppb
Cr	53	25243.7	10.2287		ppb
Mn	55	130601.1	4.54023		ppb
Co	59	5425.6	0.38987		ppb
Ni	60	9090.9	3.10807		ppb
As	75	46899.6	12.83152		ppb
Se	77	83320.2	207.59922		ppb
Se	82	103254.2	199.36085		ppb
Rh	103	605137.7			ppb
Cd	111	923.2	0.30077		ppb
Cd	114	136.7	0.01502		ppb
Sb	121	10694.6	1.20212		ppb
Sb	123	8243.6	1.21022		ppb
Ho	165	943812.6			ppb
Pb	208	57023.4	1.12225		ppb
Kr	83	-544.8			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Tuesday, August 09, 2011 19:23:51

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	53980.8			ppb
Sc	45	264363.5			ppb
Cr	52	116310	10.00146		ppb
Cr	53	25467.6	11.12135		ppb
Mn	55	152221.6	6.02917		ppb
Co	59	2567.4	0.18207		ppb
Ni	60	9705.5	3.45974		ppb
As	75	27030.3	7.61236		ppb
Se	77	41406.1	106.55537		ppb
Se	82	49777.2	99.77826		ppb
Rh	103	582158.6			ppb
Cd	111	503.6	0.16726		ppb
Cd	114	71.9	0.0065		ppb
Sb	121	4914.3	0.57037		ppb
Sb	123	3804.3	0.57569		ppb
Ho	165	901261.1			ppb
Pb	208	14509.8	0.0676		ppb
Kr	83	-392.3			mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Tuesday, August 09, 2011 19:25:58

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55153		ppb
Sc	45	266488.1		ppb
Cr	52	850332.7	57.95749	ppb
Cr	53	87878	57.2252	ppb
Mn	55	995172.5	51.98493	ppb
Co	59	609317.3	46.35679	ppb
Ni	60	141566.1	50.5524	ppb
As	75	268726.6	75.59306	ppb
Se	77	62734.7	157.88675	ppb
Se	82	77862.9	152.16107	ppb
Rh	103	597881		ppb
Cd	111	113059.5	38.28593	ppb
Cd	114	265779.7	39.22159	ppb
Sb	121	493507.6	56.76258	ppb
Sb	123	381028.8	57.315	ppb
Ho	165	934277.1		ppb
Pb	208	1792887	45.35312	ppb
Kr	83	-400.6		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Da Tuesday, August 09, 2011 19:28:04

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56005.6		ppb
Sc	45	266660.1		ppb
Cr	52	66714.2	5.10341	ppb
Cr	53	19619.8	5.91439	ppb
Mn	55	83430.8	1.93392	ppb
Co	59	3336.3	0.22967	ppb
Ni	60	11671.2	3.9768	ppb
As	75	30219.4	8.11908	ppb
Se	77	71113.7	175.14201	ppb
Se	82	86585.7	165.46074	ppb
Rh	103	611525.1		ppb
Cd	111	1560.3	0.50875	ppb
Cd	114	3426.6	0.49002	ppb
Sb	121	1786.2	0.17996	ppb
Sb	123	1370.1	0.17861	ppb
Ho	165	981082.5		ppb
Pb	208	179371	4.0354	ppb
Kr	83	461.8		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Da Tuesday, August 09, 2011 19:30:10

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	47847.9		ppb
Sc	45	230911.9		ppb
Cr	52	40863	3.39332	ppb
Cr	53	16201.8	5.29648	ppb
Mn	55	133366.5	5.74113	ppb
Co	59	4172.6	0.34116	ppb
Ni	60	6029	2.33717	ppb
As	75	54107.6	17.07358	ppb
Se	77	82284.9	235.26855	ppb
Se	82	102614.2	227.31855	ppb
Rh	103	527755.2		ppb
Cd	111	381.7	0.13852	ppb
Cd	114	489.1	0.07743	ppb
Sb	121	1296.8	0.15073	ppb
Sb	123	1014.9	0.15277	ppb
Ho	165	837232.6		ppb
Pb	208	70759.1	1.69607	ppb
Kr	83	613.3		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Da Tuesday, August 09, 2011 19:32:16

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55737.1		ppb
Sc	45	272540.9		ppb
Cr	52	43841.5	3.02626	ppb
Cr	53	16316.6	3.3246	ppb
Mn	55	118485.5	3.71825	ppb
Co	59	5826.5	0.40856	ppb
Ni	60	8204.4	2.72116	ppb
As	75	76048.9	20.45813	ppb
Se	77	104024.2	253.01364	ppb
Se	82	130605	248.04763	ppb
Rh	103	620788.7		ppb
Cd	111	630.7	0.19764	ppb
Cd	114	688.5	0.09367	ppb
Sb	121	2401	0.25728	ppb
Sb	123	1835.3	0.25507	ppb
Ho	165	946096.9		ppb
Pb	208	35826.2	0.58594	ppb
Kr	83	663.5		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Da Tuesday, August 09, 2011 19:34:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55691.5		ppb
Sc	45	271946.7		ppb
Cr	52	56799.6	4.32858	ppb
Cr	53	18101.3	5.06559	ppb
Mn	55	90173.1	2.39077	ppb
Co	59	2713.1	0.18739	ppb
Ni	60	11351.4	3.94259	ppb
As	75	10956.4	2.85887	ppb
Se	77	13636.9	33.08816	ppb
Se	82	14680.6	28.30071	ppb
Rh	103	599999.8		ppb
Cd	111	2256.1	0.75317	ppb
Cd	114	3663.4	0.53487	ppb
Sb	121	8217.4	0.92984	ppb
Sb	123	6461.7	0.95493	ppb
Ho	165	933724.8		ppb
Pb	208	47920.2	0.90595	ppb
Kr	83	497.3		mg/L

Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da Tuesday, August 09, 2011 19:36:28

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55661.8		ppb
Sc	45	265004.1		ppb
Cr	52	41223.3	2.81847	ppb
Cr	53	16234.5	3.32613	ppb
Mn	55	99073.5	2.72161	ppb
Co	59	1902.5	0.12168	ppb
Ni	60	6505	2.14742	ppb
As	75	22960.9	6.05179	ppb
Se	77	42658	103.44613	ppb
Se	82	52147.2	98.53627	ppb
Rh	103	617345.8		ppb
Cd	111	4792.6	1.56447	ppb
Cd	114	10382.2	1.48022	ppb
Sb	121	2477.3	0.25736	ppb
Sb	123	1910.8	0.25775	ppb
Ho	165	975097.2		ppb
Pb	208	66142.3	1.2967	ppb
Kr	83	446.3		mg/L

Method 6020 & 200.8 Metals Summary Report  
 Sample ID: 17071-20 BH  
 Sample Da Tuesday, August 09, 2011 19:38:35  
 Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56439.9		ppb
Sc	45	269641.9		ppb
Cr	52	41254.4	2.76809	ppb
Cr	53	16518.3	3.36178	ppb
Mn	55	102519.8	2.82495	ppb
Co	59	1945.9	0.12274	ppb
Ni	60	5146.1	1.65065	ppb
As	75	23791.2	6.18653	ppb
Se	77	45449.7	108.72187	ppb
Se	82	55208.9	102.84872	ppb
Rh	103	626487.8		ppb
Cd	111	4946.2	1.59083	ppb
Cd	114	10566.8	1.48398	ppb
Sb	121	2601	0.26811	ppb
Sb	123	1977.9	0.2646	ppb
Ho	165	984967.1		ppb
Pb	208	65747.7	1.27301	ppb
Kr	83	472.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1  
 Sample Da Tuesday, August 09, 2011 19:40:43  
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	54165.2		ppb
Sc	45	232419.1		ppb
Cr	52	7865.7	-0.049	ppb
Cr	53	2196.3	-6.67458	ppb
Mn	55	44815.5	0.0072	ppb
Co	59	256.7	0.00185	ppb
Ni	60	310.3	0.00855	ppb
As	75	569.6	-0.05314	ppb
Se	77	301.3	-0.61623	ppb
Se	82	124.5	-0.09032	ppb
Rh	103	578298.5		ppb
Cd	111	26.2	0.00119	ppb
Cd	114	40.7	0.00177	ppb
Sb	121	186.3	0.00516	ppb
Sb	123	127.5	0.00064	ppb
Ho	165	970881.7		ppb
Pb	208	12883.9	0.00088	ppb
Kr	83	171.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4  
 Sample Da Tuesday, August 09, 2011 19:42:49  
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56310.1		ppb
Sc	45	259143.5		ppb
Cr	52	1141329.7	105.33796	ppb
Cr	53	134971.6	95.31296	ppb
Mn	55	1860328.8	102.35188	ppb
Co	59	1322765.2	103.5245	ppb
Ni	60	277600	102.06606	ppb
As	75	347005	100.3965	ppb
Se	77	38121.2	98.11676	ppb
Se	82	48885	98.09598	ppb
Rh	103	581372.5		ppb
Cd	111	291111.2	101.44904	ppb
Cd	114	695616.9	105.64303	ppb
Sb	121	1002247.2	106.26921	ppb
Sb	123	775389.1	107.52574	ppb
Ho	165	1013534.1		ppb
Pb	208	4426983.9	103.63786	ppb
Kr	83	-17697		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Da Tuesday, August 09, 2011 19:49:10

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56990.9		ppb
Sc	45	281232.7		ppb
Cr	52	69737.2	4.9433	ppb
Cr	53	19832	5.06395	ppb
Mn	55	78303.1	1.36865	ppb
Co	59	2296	0.14038	ppb
Ni	60	11803.7	3.73706	ppb
As	75	64261.9	16.27158	ppb
Se	77	65949.1	150.96442	ppb
Se	82	81808.2	145.43473	ppb
Rh	103	657091.6		ppb
Cd	111	270.6	0.07544	ppb
Cd	114	466.8	0.05832	ppb
Sb	121	1664.5	0.16282	ppb
Sb	123	1298.1	0.16443	ppb
Ho	165	1002052.7		ppb
Pb	208	41897.5	0.6795	ppb
Kr	83	644.2		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Da Tuesday, August 09, 2011 19:51:16

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	54618.4		ppb
Sc	45	268597.8		ppb
Cr	52	61436.6	4.59937	ppb
Cr	53	18562.9	5.04342	ppb
Mn	55	124075	4.06382	ppb
Co	59	3534	0.24253	ppb
Ni	60	11321.4	3.82718	ppb
As	75	93636.6	25.41413	ppb
Se	77	129567.2	317.99292	ppb
Se	82	160654.1	305.07865	ppb
Rh	103	615956		ppb
Cd	111	762.1	0.24251	ppb
Cd	114	461.3	0.06186	ppb
Sb	121	6227.8	0.69794	ppb
Sb	123	4697.5	0.68615	ppb
Ho	165	938146.3		ppb
Pb	208	76773.4	1.63288	ppb
Kr	83	607.6		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Da Tuesday, August 09, 2011 19:53:22

Sample De Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	54473		ppb
Sc	45	264852.8		ppb
Cr	52	581973	50.43572	ppb
Cr	53	80595.2	50.25154	ppb
Mn	55	958693.7	48.6473	ppb
Co	59	628524	46.60151	ppb
Ni	60	145518.3	50.63946	ppb
As	75	348175.5	95.50882	ppb
Se	77	171987	424.1835	ppb
Se	82	221715.4	422.87821	ppb
Rh	103	613429.4		ppb
Cd	111	113799.8	37.55886	ppb
Cd	114	265785.5	38.22827	ppb
Sb	121	490540.8	56.19171	ppb
Sb	123	374655.3	56.12742	ppb
Ho	165	938186.1		ppb
Pb	208	1797464.1	45.2724	ppb
Kr	83	739.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Tuesday, August 09, 2011 20:06:01

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	61205.7		ppb
Sc	45	246702.3		ppb
Cr	52	8318.5	-0.05229	ppb
Cr	53	3261.3	-6.03387	ppb
Mn	55	46687.3	-0.02958	ppb
Co	59	282.7	0.00244	ppb
Ni	60	309	0.00178	ppb
As	75	604	-0.05121	ppb
Se	77	311.3	-0.65284	ppb
Se	82	146	-0.06332	ppb
Rh	103	610448.3		ppb
Cd	111	34.8	0.00363	ppb
Cd	114	68.7	0.00555	ppb
Sb	121	205.3	0.00555	ppb
Sb	123	149.6	0.00253	ppb
Ho	165	1035655.8		ppb
Pb	208	13770.4	0.00097	ppb
Kr	83	144.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Tuesday, August 09, 2011 20:08:08

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55426.2		ppb
Sc	45	244982.3		ppb
Cr	52	1064344.8	101.64335	ppb
Cr	53	128646.5	93.96079	ppb
Mn	55	1761696.4	100.24786	ppb
Co	59	1252195.3	101.50655	ppb
Ni	60	265923.2	101.28107	ppb
As	75	333925.4	100.18561	ppb
Se	77	37130.1	99.06135	ppb
Se	82	46770.4	97.3036	ppb
Rh	103	560190.8		ppb
Cd	111	279900	101.2648	ppb
Cd	114	662241.8	104.4126	ppb
Sb	121	960028.3	107.12023	ppb
Sb	123	739904.1	107.95335	ppb
Ho	165	963287.1		ppb
Pb	208	4262053.8	104.96867	ppb
Kr	83	-17258.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Tuesday, August 09, 2011 20:18:42

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	62038.8		ppb
Sc	45	243364.8		ppb
Cr	52	8189.7	-0.0405	ppb
Cr	53	3991.6	-5.40607	ppb
Mn	55	46432.3	0.03649	ppb
Co	59	287	0.00348	ppb
Ni	60	280.7	-0.00496	ppb
As	75	661.6	-0.02938	ppb
Se	77	356	-0.51332	ppb
Se	82	152.1	-0.04227	ppb
Rh	103	591405.5		ppb
Cd	111	34.6	0.00389	ppb
Cd	114	46.2	0.00255	ppb
Sb	121	186.3	0.00356	ppb
Sb	123	127	-0.00051	ppb
Ho	165	1038364.2		ppb
Pb	208	13678.4	-0.00204	ppb
Kr	83	138.2		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 20:20:49

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	59116.7		ppb
Sc	45	253870.9		ppb
Cr	52	1113038.5	102.75759	ppb
Cr	53	133025.5	93.89823	ppb
Mn	55	1827577.6	100.57332	ppb
Co	59	1303449.5	102.16201	ppb
Ni	60	275658.6	101.49266	ppb
As	75	343178	99.48922	ppb
Se	77	38662.7	99.68734	ppb
Se	82	49091.7	98.65965	ppb
Rh	103	580570.3		ppb
Cd	111	290172.1	101.20726	ppb
Cd	114	691079.8	105.03857	ppb
Sb	121	996552.5	106.82798	ppb
Sb	123	766206.2	107.41804	ppb
Ho	165	1002564.7		ppb
Pb	208	4413858.9	104.45916	ppb
Kr	83	-17564.9		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Date: Wednesday, August 10, 2011 08:06:15

Sample Description: Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	48416.8		ppb
Sc	45	309812.9		ppb
Cr	52	35899.9	2.15333	ppb
Cr	53	39824.6	18.53859	ppb
Mn	55	65858.2	0.7393	ppb
Co	59	1326.1	0.07277	ppb
Ni	60	5915.3	1.8143	ppb
As	75	17396.3	4.22647	ppb
Se	77	32958.4	74.49292	ppb
Se	82	36219	63.99293	ppb
Rh	103	658900.4		ppb
Cd	111	1483.7	0.44787	ppb
Cd	114	2620.9	0.34691	ppb
Sb	121	2158.6	0.20025	ppb
Sb	123	1643.8	0.19743	ppb
Ho	165	1074154.2		ppb
Pb	208	45259.3	0.68719	ppb
Kr	83	204		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Date: Wednesday, August 10, 2011 08:08:22

Sample Description: Airtech

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	48185.3		ppb
Sc	45	292034.7		ppb
Cr	52	617649.8	51.86827	ppb
Cr	53	101037.3	62.81526	ppb
Mn	55	984738.1	48.37956	ppb
Co	59	671973.3	48.2477	ppb
Ni	60	147541.6	49.71797	ppb
As	75	206165.5	54.66515	ppb
Se	77	50218.3	118.9168	ppb
Se	82	59504.7	109.6641	ppb
Rh	103	633242.7		ppb
Cd	111	123100.7	39.35184	ppb
Cd	114	287891.1	40.09916	ppb
Sb	121	485179.8	51.04456	ppb
Sb	123	371296.8	51.08428	ppb
Ho	165	1021436.9		ppb
Pb	208	2096792.3	48.54618	ppb
Kr	83	166.7		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 10, 2011 08:10:30

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	43220.2		ppb
Sc	45	246537.4		ppb
Cr	52	9372.2	0.09573	ppb
Cr	53	7293.7	-2.66778	ppb
Mn	55	45739.4	0.06368	ppb
Co	59	352	0.00927	ppb
Ni	60	362.3	0.02849	ppb
As	75	520.5	-0.06863	ppb
Se	77	547.4	0.03428	ppb
Se	82	113.7	-0.12112	ppb
Rh	103	577353.5		ppb
Cd	111	53.6	0.01114	ppb
Cd	114	84.2	0.00847	ppb
Sb	121	259.7	0.01391	ppb
Sb	123	213.8	0.01433	ppb
Ho	165	938804		ppb
Pb	208	12514.4	0.00153	ppb
Kr	83	184.6		mg/L

## Method 6020 &amp; 200.8 Metals Summary Report

Sample ID: QC Std 4

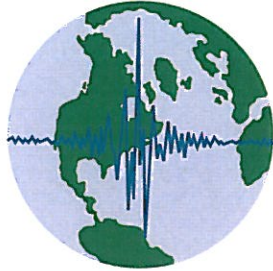
Sample Date: Wednesday, August 10, 2011 08:12:37

Sample Description:

## Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	44860.2		ppb
Sc	45	260834.4		ppb
Cr	52	1136085.2	105.54245	ppb
Cr	53	139085.6	99.22382	ppb
Mn	55	1843189.1	102.08423	ppb
Co	59	1311633.4	103.39055	ppb
Ni	60	275762.4	102.1161	ppb
As	75	331052.9	96.50442	ppb
Se	77	35779.3	92.67051	ppb
Se	82	46015.4	92.97689	ppb
Rh	103	577217.4		ppb
Cd	111	272375.9	95.53402	ppb
Cd	114	641595.3	98.06409	ppb
Sb	121	976790.2	108.35684	ppb
Sb	123	759924.6	110.2504	ppb
Ho	165	968921.1		ppb
Pb	208	4244570.6	103.96677	ppb
Kr	83	-17602.1		mg/L





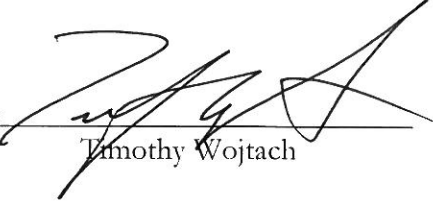
**AIRTECH**  
*Environmental  
Services Inc.*

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

Performed for  
Big Rivers Electric Corporation  
Wilson Plant  
(Petcoke)  
*Project No. 3648  
August 29, 2011*

Analyst:   
Michael Ogletree

Reviewer:   
Timothy Wojtach

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### APPENDIX

<i>Results</i>	
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## Project Summary

### General

Project Information	
Date Received	7/25/2011
Analytical Protocol	EPA Method 30B
Total Number of Samples Received	54
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 (µg/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.

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## Appendix

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Includes the following:

- Results
- Calibration Data

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## *Results*

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Includes the following:

- Mercury Results

Analysis Date: 8/4/11

Analyst: BL

<b>Sample Parameters</b>	<b>ESP 1 Run 1</b>	<b>ESP 1 Run 2</b>	<b>ESP 1 Run 3</b>
Oxidized Front Half (area)	250	15	281
Oxidized Back Half (area)	25	14	0.0
Elemental Front Half (area)	409	82	1,420
Elemental Back Half (area)	79	23	26

**RESULTS**

Oxidized Front Half (ng)	1.18	0.0711	1.33
Oxidized Back Half (ng)	0.118	0.0664	0.00
Oxidized Breakthrough (%)	9.1	48.3	0.0
Total Oxidized (ng)	1.30	0.137	1.33
Elemental Front Half (ng)	1.94	0.389	6.64
Elemental Back Half (ng)	0.374	0.109	0.123
Elemental Breakthrough (%)	16.2	21.9	1.8
Total Elemental (ng)	2.3	0.5	6.8
<b>Total Mercury (ng)</b>	<b>3.62</b>	<b>0.635</b>	<b>8.10</b>

<b>Sample Parameters</b>	<b>Run 1 Spike</b>	<b>Run 2 Spike</b>	<b>Run 3 Spike</b>
Front Half (area)	42,100	41,200	51,500
Back Half (area)	93	64	102.0

**RESULTS**

Front Half (ng)	197	193	241
Back Half (ng)	0.441	0.303	0.483
Breakthrough (%)	0.2	0.2	0.2
<b>Total Mercury (ng)</b>	<b>197</b>	<b>193</b>	<b>241</b>
<b>Spike Recovery (%)</b>	<b>617%</b>	<b>2830%</b>	<b>819%</b>

Analysis Date: 8/5/11

Analyst: BL/JN

<b>Sample Parameters</b>	<b>ESP 2 Run 1</b>	<b>ESP 2 Run 2</b>	<b>ESP 2 Run 3</b>
Oxidized Front Half (area)	14,200	26,200	1,370
Oxidized Back Half (area)	475	30,900	458
Elemental Front Half (area)	48,400	33,700	71,700
Elemental Back Half (area)	32	72	69.0

**RESULTS**

Oxidized Front Half (ng)	62.6	116	6.04
Oxidized Back Half (ng)	2.01	136	1.94
Oxidized Breakthrough (%)	3.1	54.1	24.3
Total Oxidized (ng)	64.6	252	7.98
Elemental Front Half (ng)	214	149	316
Elemental Back Half (ng)	0.135	0.304	0.292
Elemental Breakthrough (%)	0.1	0.2	0.1
Total Elemental (ng)	214	149	317
<b>Total Mercury (ng)</b>	<b>278</b>	<b>401</b>	<b>325</b>

<b>Sample Parameters</b>	<b>Run 1 Spike</b>	<b>Run 2 Spike</b>	<b>Run 3 Spike</b>
Front Half (area)	107,000	133,000	117,000
Back Half (area)	41	38	0

**RESULTS**

Front Half (ng)	472	587	516
Back Half (ng)	0.173	0.161	0.00
Breakthrough (%)	0.0	0.0	0.0
<b>Total Mercury (ng)</b>	<b>472</b>	<b>587</b>	<b>516</b>
<b>Difference (ng)</b>	<b>107%</b>	<b>103%</b>	<b>105%</b>



Analysis Date: 8/5/11

Analyst: BL/JN

Sample Parameters	ESP 3	ESP 3	ESP 3
	Run 1	Run 2	Run 3
Oxidized Front Half (area)	2,210	1,330	8,190
Oxidized Back Half (area)	697	313	6,500
Elemental Front Half (area)	64,300	69,600	64,700
Elemental Back Half (area)	0	147	96

**RESULTS**

Oxidized Front Half (ng)	9.75	5.87	36.1
Oxidized Back Half (ng)	2.95	1.32	28.7
Oxidized Breakthrough (%)	23.2	18.4	44.2
Total Oxidized (ng)	12.7	7.19	64.8
Elemental Front Half (ng)	284	307	285
Elemental Back Half (ng)	0.00	0.622	0.406
Elemental Breakthrough (%)	0.0	0.2	0.1
Total Elemental (ng)	284	308	286
<b>Total Mercury (ng)</b>	<b>296</b>	<b>315</b>	<b>351</b>

Sample Parameters	ESP 3	ESP 3	ESP 3
	Run 1 Spike	Run 2 Spike	Run 3 Spike
Front Half (area)	105,000	112,000	117,000
Back Half (area)	0	83	104.0

**RESULTS**

Front Half (ng)	463	494	516
Back Half (ng)	0.00	0.351	0.440
Breakthrough (%)	0.0	0.1	0.1
<b>Total Mercury (ng)</b>	<b>463</b>	<b>494</b>	<b>517</b>
<b>Spike Recovery (%)</b>	<b>97%</b>	<b>101%</b>	<b>97%</b>

Analysis Date: 8/9/11

Analyst: MO/SV

<b>Sample Parameters</b>	<b>ESP 4 Run 1</b>	<b>ESP 4 Run 2</b>	<b>ESP 4 Run 3</b>
Oxidized Front Half (area)	6,750	7,330	6,850
Oxidized Back Half (area)	23,300	4,750	6,220
Elemental Front Half (area)	44,600	60,600	50,400
Elemental Back Half (area)	35	0	129

**RESULTS**

Oxidized Front Half (ng)	30.5	33.1	31.0
Oxidized Back Half (ng)	117	23.8	31.2
Oxidized Breakthrough (%)	79.3	41.8	50.2
Total Oxidized (ng)	147	56.9	62.1
Elemental Front Half (ng)	202	274	228
Elemental Back Half (ng)	0.175	0.00	0.647
Elemental Breakthrough (%)	0.1	0.0	0.3
Total Elemental (ng)	202	274	228
<b>Total Mercury (ng)</b>	<b>349</b>	<b>331</b>	<b>291</b>

<b>Sample Parameters</b>	<b>Run 1 Spike</b>	<b>Run 2 Spike</b>	<b>Run 3 Spike</b>
Front Half (area)	116,000	110,000	106,000
Back Half (area)	91	0	61

**RESULTS**

Front Half (ng)	524	497	479
Back Half (ng)	0.456	0.00	0.306
Breakthrough (%)	0.1	0.0	0.1
<b>Total Mercury (ng)</b>	<b>525</b>	<b>497</b>	<b>479</b>
<b>Spike Recovery (%)</b>	<b>100%</b>	<b>97%</b>	<b>105%</b>

Analysis Date: 8/9/11

Analyst: MO/SV

<b>Sample Parameters</b>	<b>Stack Run 1</b>	<b>Stack Run 2</b>	<b>Stack Run 3</b>
Oxidized Front Half (area)	3,100	2,480	2,630
Oxidized Back Half (area)	79	9	51
Elemental Front Half (area)	12,100	13,000	13,700
Elemental Back Half (area)	55	183	73

**RESULTS**

Oxidized Front Half (ng)	14.0	11.2	11.9
Oxidized Back Half (ng)	0.396	0.0451	0.256
Oxidized Breakthrough (%)	2.7	0.4	2.1
Total Oxidized (ng)	14.4	11.3	12.1
Elemental Front Half (ng)	54.7	58.7	61.9
Elemental Back Half (ng)	0.276	0.917	0.366
Elemental Breakthrough (%)	0.5	1.5	0.6
Total Elemental (ng)	55.0	59.7	62.3
<b>Total Mercury (ng)</b>	<b>69.4</b>	<b>70.9</b>	<b>74.4</b>

<b>Sample Parameters</b>	<b>Stack Run 1 Spike</b>	<b>Stack Run 2 Spike</b>	<b>Stack Run 3 Spike</b>
Front Half (area)	19,000	17,800	21,700
Back Half (area)	322	943	128

**RESULTS**

Front Half (ng)	85.9	80.4	98.1
Back Half (ng)	1.61	4.73	0.642
Breakthrough (%)	1.8	5.6	0.7
<b>Total Mercury (ng)</b>	<b>87.5</b>	<b>85.2</b>	<b>98.7</b>
<b>Spike Recovery (%)</b>	<b>97%</b>	<b>92%</b>	<b>106%</b>

Sample Parameters	SCR 1	SCR 1	SCR 1
	Run 1	Run 2	Run 3
Oxidized Front Half (area)	3,720	2,810	2,450
Oxidized Back Half (area)	1,620	1,840	1,080
Elemental Front Half (area)	71,600	67,300	69,000
Elemental Back Half (area)	8	25	46

**RESULTS**

Oxidized Front Half (ng)	17.6	13.3	11.6
Oxidized Back Half (ng)	7.66	8.70	5.11
Oxidized Breakthrough (%)	30.3	39.6	30.6
Total Oxidized (ng)	25.3	22.0	16.7
Elemental Front Half (ng)	339	318	326
Elemental Back Half (ng)	0.0387	0.121	0.223
Elemental Breakthrough (%)	0.0	0.0	0.1
Total Elemental (ng)	339	318	327
<b>Total Mercury (ng)</b>	<b>364</b>	<b>340</b>	<b>343</b>

Sample Parameters	SCR 1	SCR 1	SCR 1
	Run 1 Spike	Run 2 Spike	Run 3 Spike
Front Half (area)	113,000	113,000	102,000
Back Half (area)	6	43	0

**RESULTS**

Front Half (ng)	534	534	482
Back Half (ng)	0.0291	0.208	0.00
Breakthrough (%)	0.0	0.0	0.0
<b>Total Mercury (ng)</b>	<b>534</b>	<b>535</b>	<b>482</b>
<b>Spike Recovery (%)</b>	<b>99%</b>	<b>106%</b>	<b>90%</b>

	<b>SCR 2</b>
<b>Sample Parameters</b>	<b>Run 1</b>
Oxidized Front Half (area)	4,460
Oxidized Back Half (area)	1,100
Elemental Front Half (area)	67,100
Elemental Back Half (area)	0

**RESULTS**

Oxidized Front Half (ng)	21.1
Oxidized Back Half (ng)	5.20
Oxidized Breakthrough (%)	19.8
Total Oxidized (ng)	26.3
Elemental Front Half (ng)	317
Elemental Back Half (ng)	0.00
Elemental Breakthrough (%)	0.0
Total Elemental (ng)	317
<b>Total Mercury (ng)</b>	<b>344</b>

	<b>SCR 2</b>
<b>Sample Parameters</b>	<b>Run 1 Spike</b>
Front Half (area)	107,000
Back Half (area)	0

**RESULTS**

Front Half (ng)	506
Back Half (ng)	0.00
Breakthrough (%)	0.0
<b>Total Mercury (ng)</b>	<b>506</b>

**Spike Recovery (%)**                      **96%**

Analysis Date: 8/24/11

Analyst: MO

Sample Parameters	Wilson	Wilson
	SRC 2	SRC 2
	Run 2	Run 3
Particulate Coil	0	0
Oxidized Front Half (area)	6,160	3,310
Oxidized Back Half (area)	3,640	1,520
Elemental Front Half (area)	61,600	63,400
Elemental Back Half (area)	95	0

**RESULTS**

Ash Bonded (ng)	0.00	0.00
Oxidized Front Half (ng)	28.4	15.3
Oxidized Back Half (ng)	17.5	7.29
Oxidized Breakthrough (%)	38.1	32.3
Total Oxidized (ng)	45.9	22.6
Elemental Front Half (ng)	284	292
Elemental Back Half (ng)	0.456	0.00
Elemental Breakthrough (%)	0.2	0.0
Total Elemental (ng)	285	292
<b>Total Mercury (ng)</b>	<b>330</b>	<b>315</b>

Sample Parameters	Wilson	Wilson
	SRC 2	SRC 2
	Run 2 Spike	Run 3 Spike
Particulate Coil	0	0
Front Half (area)	110,000	110,000
Back Half (area)	34	0

**RESULTS**

Ash Bonded (ng)	0.00	0.00
Front Half (ng)	507	507
Back Half (ng)	0.163	0.000
Breakthrough (%)	0.0	0.0
<b>Total Mercury (ng)</b>	<b>507</b>	<b>507</b>
Spike Recovery	100%	104%

Sample Parameters	SCR 3	SCR 3	SCR 3
	Run 1	Run 2	Run 3
Oxidized Front Half (area)	3,240	5,340	3,280
Oxidized Back Half (area)	824	1,460	1,190
Elemental Front Half (area)	51,200	66,500	51,900
Elemental Back Half (area)	0	118	23

**RESULTS**

Oxidized Front Half (ng)	15.3	25.3	15.5
Oxidized Back Half (ng)	3.99	6.91	5.63
Oxidized Breakthrough (%)	20.7	21.5	26.6
Total Oxidized (ng)	19.3	32.2	21.1
Elemental Front Half (ng)	242	315	245
Elemental Back Half (ng)	0.00	0.571	0.111
Elemental Breakthrough (%)	0.0	0.2	0.0
Total Elemental (ng)	242	315	246
<b>Total Mercury (ng)</b>	<b>261</b>	<b>347</b>	<b>267</b>

Sample Parameters	SCR 3	SCR 3	SCR 3
	Run 1 Spike	Run 2 Spike	Run 3 Spike
Front Half (area)	101,000	105,000	94,100
Back Half (area)	0	113	0

**RESULTS**

Front Half (ng)	478	497	445
Back Half (ng)	0.00	0.547	0.00
Breakthrough (%)	0.0	0.1	0.0
<b>Total Mercury (ng)</b>	<b>478</b>	<b>497</b>	<b>445</b>
<b>Spike Recovery (%)</b>	<b>116%</b>	<b>93%</b>	<b>101%</b>



Sample Parameters	SCR 4	SCR 4	SCR 4
	Run 1	Run 2	Run 3
Oxidized Front Half (area)	4,050	3,840	1,850
Oxidized Back Half (area)	1,060	1,700	661
Elemental Front Half (area)	64,800	61,700	61,400
Elemental Back Half (area)	0	87	81

**RESULTS**

Oxidized Front Half (ng)	19.2	18.2	8.75
Oxidized Back Half (ng)	5.01	8.04	3.20
Oxidized Breakthrough (%)	20.7	30.7	26.8
Total Oxidized (ng)	24.2	26.2	12.0
Elemental Front Half (ng)	306	292	290
Elemental Back Half (ng)	0.00	0.421	0.392
Elemental Breakthrough (%)	0.0	0.1	0.1
Total Elemental (ng)	306	292	291
<b>Total Mercury (ng)</b>	<b>331</b>	<b>318</b>	<b>303</b>

Sample Parameters	SCR 4	SCR 4	SCR 4
	Run 1 Spike	Run 2 Spike	Run 3 Spike
Front Half (area)	98,000	101,000	97,200
Back Half (area)	0	41	0

**RESULTS**

Front Half (ng)	463	478	460
Back Half (ng)	0.00	0.199	0.00
Breakthrough (%)	0.0	0.0	0.0
<b>Total Mercury (ng)</b>	<b>463</b>	<b>478</b>	<b>460</b>
<b>Spike Recovery (%)</b>	<b>87%</b>	<b>95%</b>	<b>94%</b>



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*Calibration Data*

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Includes the following:

- Mercury Standards
- Mercury Calibration Curves

**GENERAL INFORMATION**

Date: 8/4/11  
Analyzer: Lumex  
Analyst: BL

**INITIAL CALIBRATION**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,030	0.00485	4.82	-3.7	Yes
2	10	2,100	0.00476	9.8	-1.8	Yes
3	25	5,540	0.00451	25.9	3.6	Yes
4	50	10,200	0.00490	47.7	-4.6	Yes
5	100	22,500	0.00444	105.2	5.2	Yes
6	250	53,500	0.00467	250	0.1	Yes
7	500	109,000	0.00459	510	1.9	Yes

Average Response Factor (ng/area) 0.00468  
R-Squared 1.00

**LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	422	0.00474	2	-1.3	NA

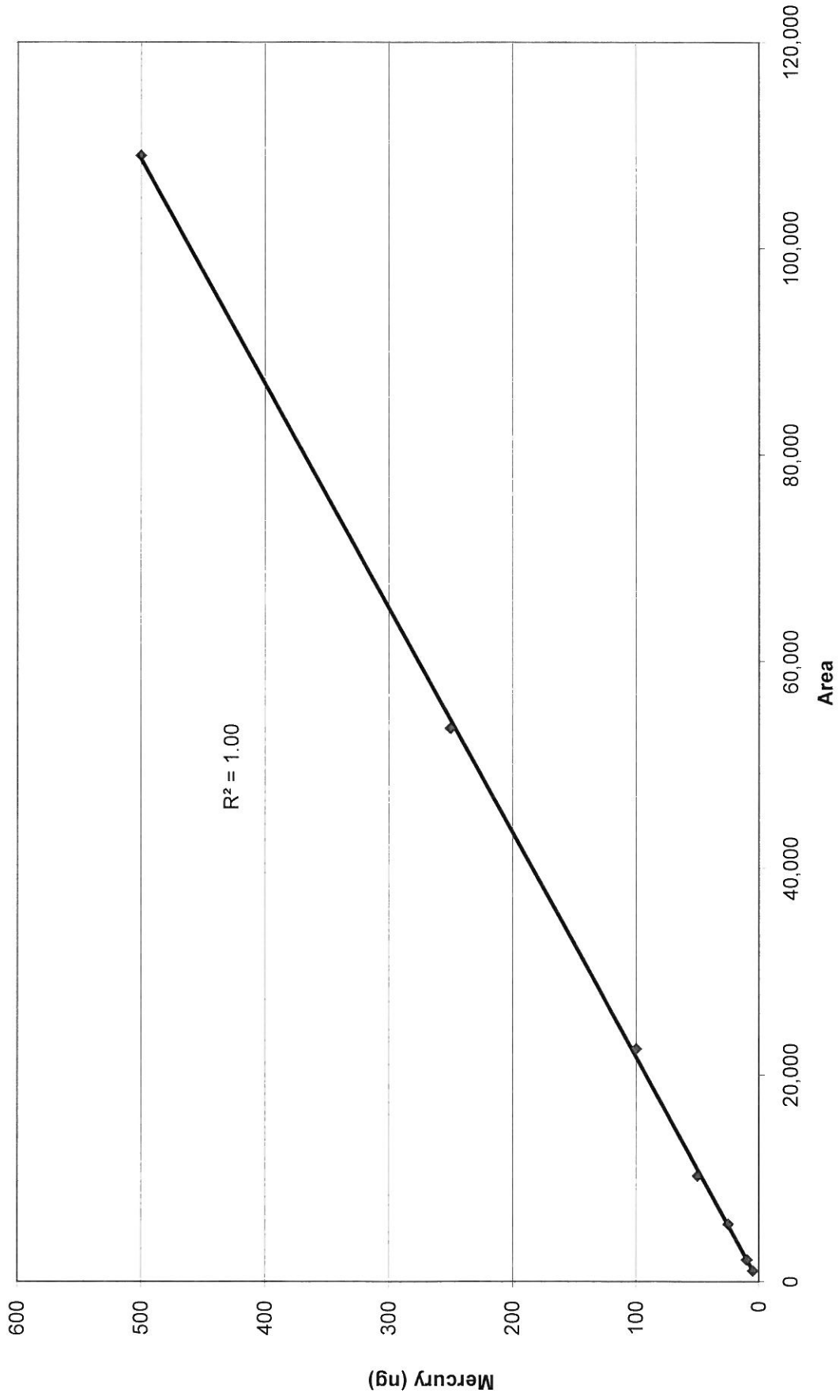
**SECOND SOURCE CHECK STANDARD ANALYSIS**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,300	0.00460	254	1.6	Yes

**CONTINUING CALIBRATION VERIFICATION STANDARDS**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	51,900	0.00482	242.71	-2.9	Yes
NA	250	53,300	0.00469	249.26	-0.3	Yes

Mercury Calibration Summary  
Wilson ESP 1 Runs 1-3



GENERAL INFORMATION

Date: 8/5/11  
 Analyzer: Lumex  
 Analyst: BL/JN

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.25	5.0	Yes
2	10	2,400	0.00417	10.6	5.9	Yes
3	25	5,790	0.00432	25.5	2.2	Yes
4	50	11,500	0.00435	50.7	1.5	Yes
5	100	21,000	0.00476	92.6	-7.4	Yes
6	250	54,600	0.00458	241	-3.7	Yes
7	500	111,000	0.00450	490	-2.1	Yes

Average Response Factor (ng/area) 0.00441  
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	473	0.00423	2	4.3	NA

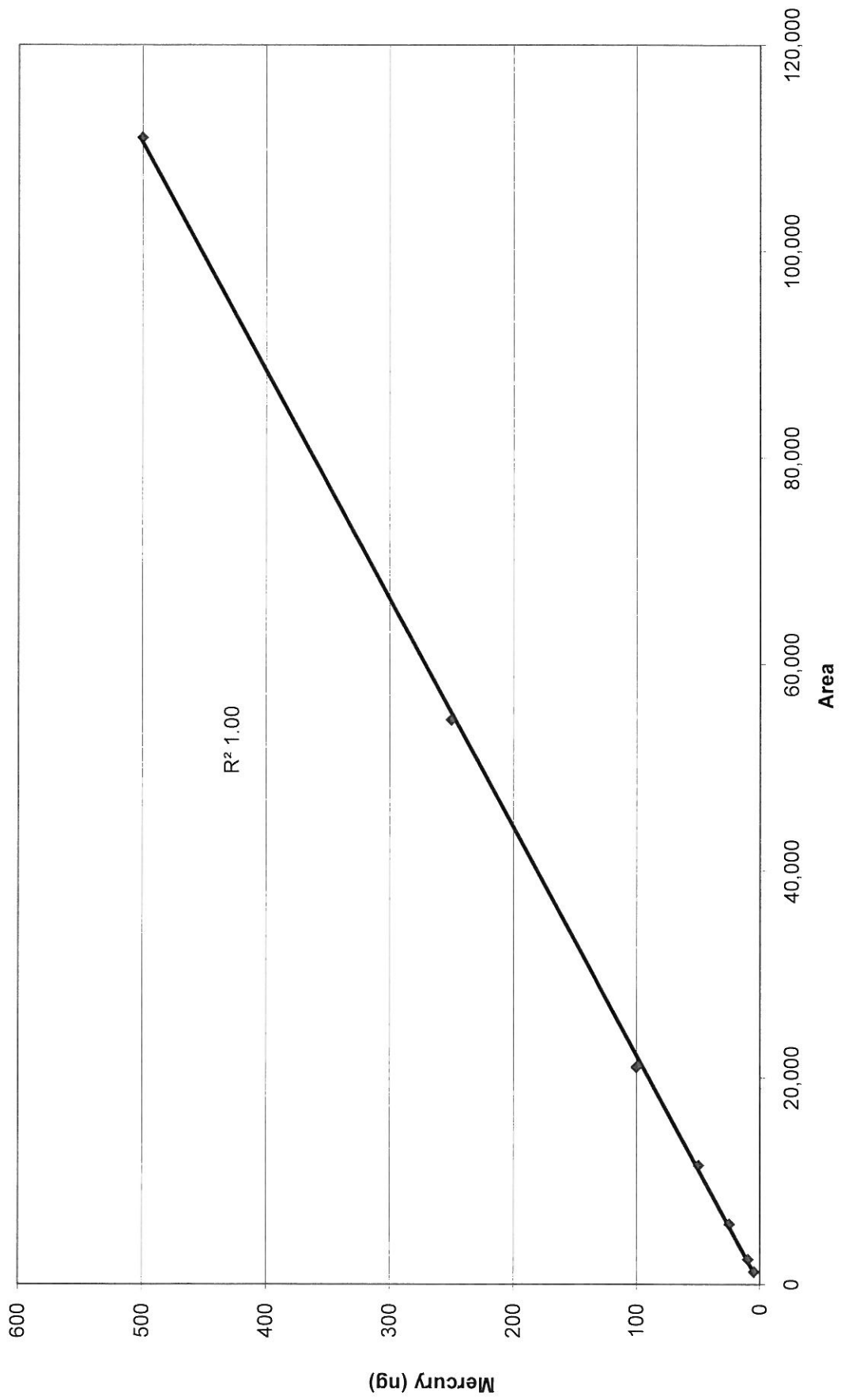
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,600	0.00466	236	-5.4	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,900	0.00455	242.18	-3.1	Yes
NA	250	55,300	0.00452	243.95	-2.4	Yes
NA	250	53,600	0.00466	236.45	-5.4	Yes
NA	250	53,500	0.00467	236.00	-5.6	Yes

Mercury Calibration Summary  
ESP 2 Runs 1-3



GENERAL INFORMATION

Date: 8/5/11  
Analyzer: Lumex  
Analyst: BL/JN

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.25	5.0	Yes
2	10	2,400	0.00417	10.6	5.9	Yes
3	25	5,790	0.00432	25.5	2.2	Yes
4	50	11,500	0.00435	50.7	1.5	Yes
5	100	21,000	0.00476	92.6	-7.4	Yes
6	250	54,600	0.00458	241	-3.7	Yes
7	500	111,000	0.00450	490	-2.1	Yes

Average Response Factor (ng/area) 0.00441  
R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	473	0.00423	2	4.3	NA

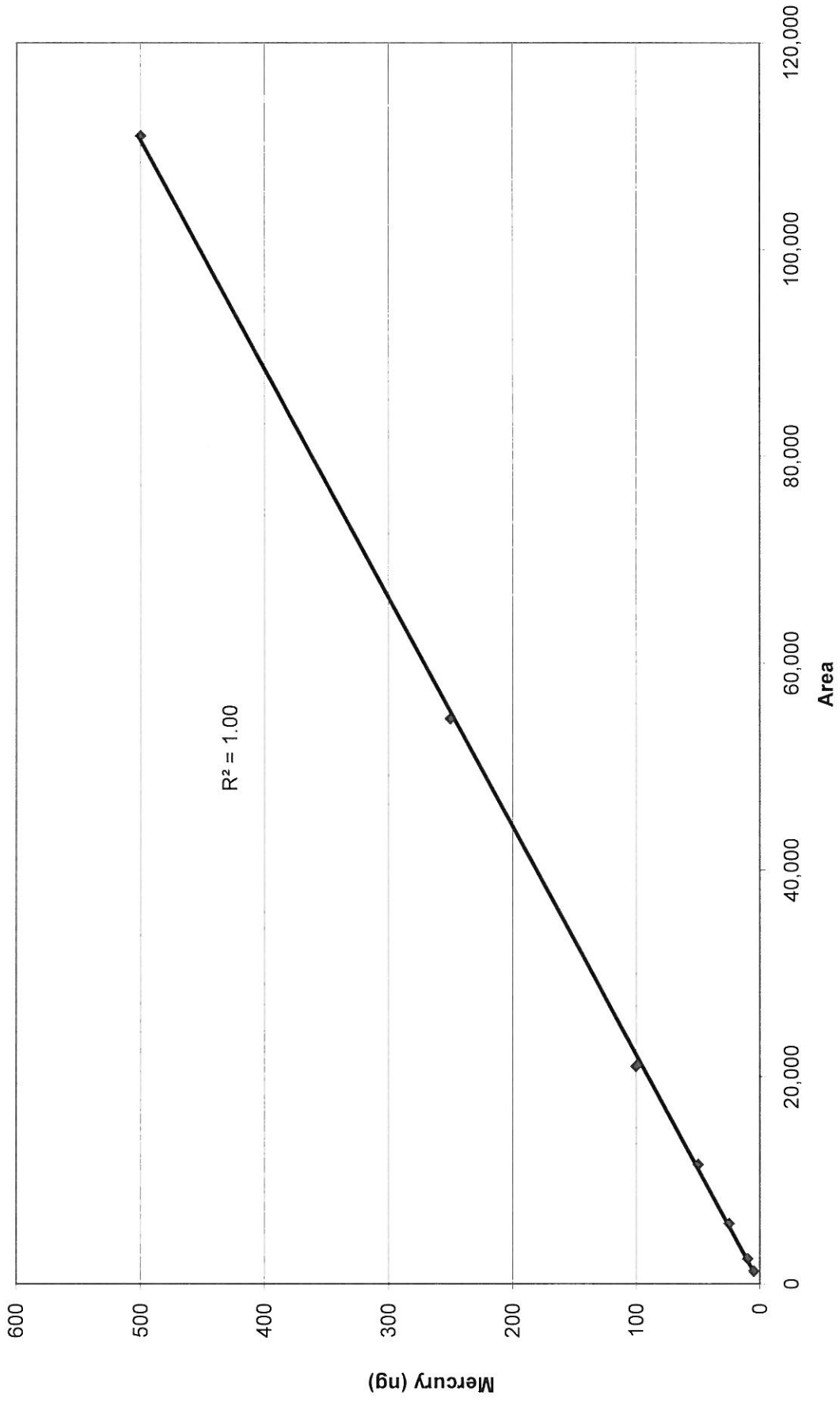
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,600	0.00466	236	-5.4	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,500	0.00459	240.42	-3.8	Yes
NA	250	55,300	0.00452	243.95	-2.4	Yes

Mercury Calibration Summary  
Wilson ESP 3 Runs 1-3



**GENERAL INFORMATION**

Date: 8/9/11  
 Analyzer: Ohio Lumex  
 Analyst: MO/SV

**INITIAL CALIBRATION**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.38	7.6	Yes
2	10	2,310	0.00433	10.4	4.4	Yes
3	25	5,660	0.00442	25.6	2.3	Yes
4	50	10,500	0.00476	47.4	-5.1	Yes
5	100	22,100	0.00452	99.9	-0.1	Yes
6	250	52,900	0.00473	239	-4.4	Yes
7	500	107,000	0.00467	484	-3.3	Yes

Average Response Factor (ng/area) 0.00452  
 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	399	0.00501	2	-9.8	NA

**SECOND SOURCE CHECK STANDARD ANALYSIS**

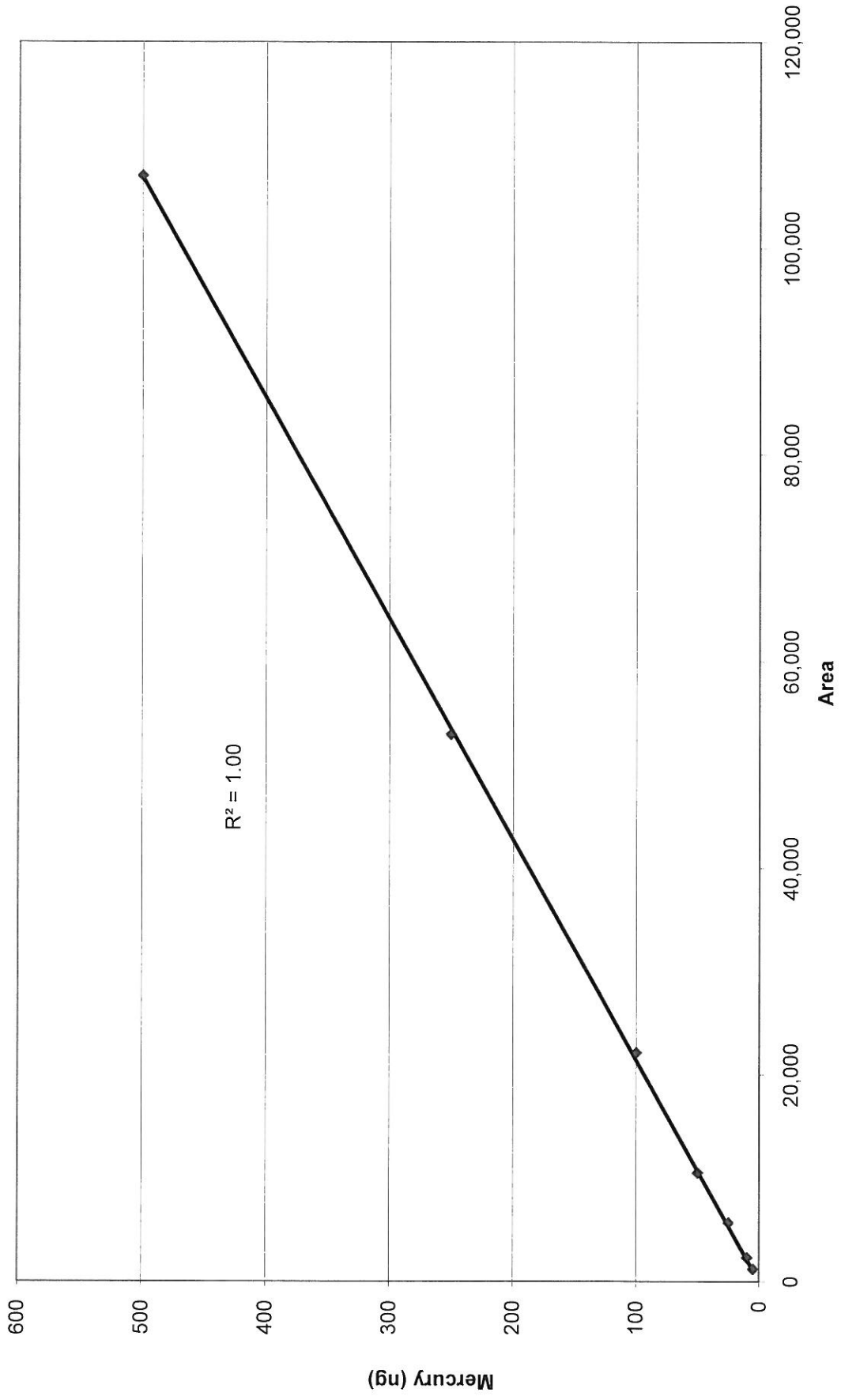
Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,500	0.00467	242	-3.3	Yes

**CONTINUING CALIBRATION VERIFICATION STANDARDS**

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	5	1,150	0.00435	5.20	3.9	Yes
NA	250	52,700	0.00474	238.15	-4.7	Yes
NA	250	49,300	0.00507	222.79	-10.9	No
NA	250	50,900	0.00491	230.02	-8.0	Yes
NA	250	43,500	0.00575	196.58	-21.4	No
NA	250	49,700	0.00503	224.60	-10.2	No
NA	250	47,900	0.00522	216.46	-13.4	No
NA	250	51,900	0.00482	234.54	-6.2	Yes
NA	250	49,700	0.00503	224.60	-10.2	No
NA	250	51,200	0.00488	231.37	-7.5	Yes
NA	250	50,300	0.00497	227.31	-9.1	Yes
NA	250	50,200	0.00498	226.86	-9.3	Yes
NA	250	51,400	0.00486	232.28	-7.1	Yes
NA	250	49,500	0.00505	223.69	-10.5	No
NA	250	49,900	0.00501	225.50	-9.8	Yes



Mercury Calibration Summary  
Wilson ESP 4 Runs 1-3



GENERAL INFORMATION

Date: 8/9/11  
Analyzer: Ohio Lumex  
Analyst: MO/SV

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.38	7.6	Yes
2	10	2,310	0.00433	10.4	4.4	Yes
3	25	5,660	0.00442	25.6	2.3	Yes
4	50	10,500	0.00476	47.4	-5.1	Yes
5	100	22,100	0.00452	99.9	-0.1	Yes
6	250	52,900	0.00473	239	-4.4	Yes
7	500	107,000	0.00467	484	-3.3	Yes

Average Response Factor (ng/area) 0.00452  
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	399	0.00501	2	-9.8	NA

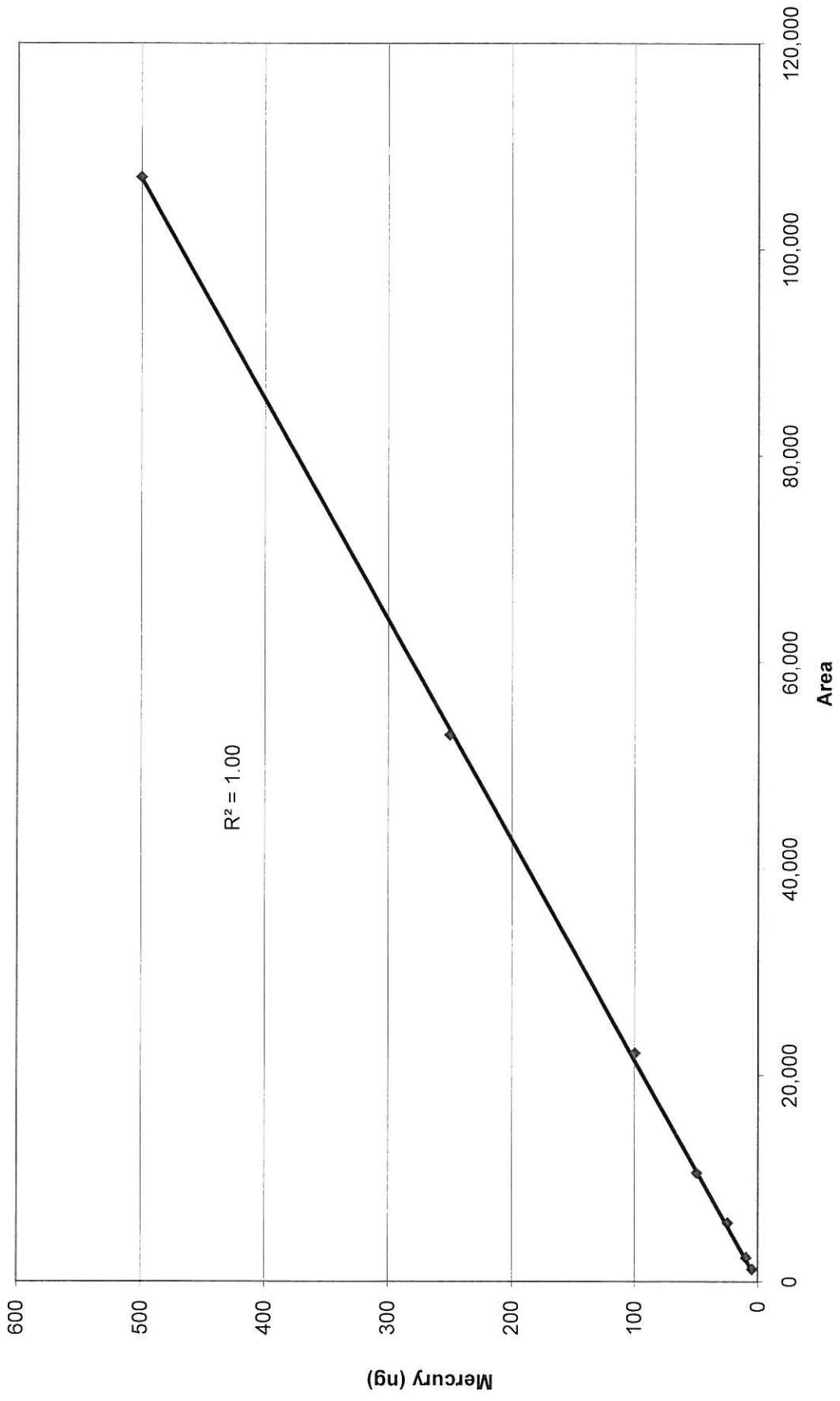
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,500	0.00467	242	-3.3	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	5	1,150	0.00435	5.20	3.9	Yes
NA	250	52,700	0.00474	238.15	-4.7	Yes
NA	250	49,300	0.00507	222.79	-10.9	No
NA	250	50,900	0.00491	230.02	-8.0	Yes
NA	250	43,500	0.00575	196.58	-21.4	No
NA	250	49,700	0.00503	224.60	-10.2	No
NA	250	47,900	0.00522	216.46	-13.4	No
NA	250	51,900	0.00482	234.54	-6.2	Yes
NA	250	49,700	0.00503	224.60	-10.2	No
NA	250	51,200	0.00488	231.37	-7.5	Yes
NA	250	50,300	0.00497	227.31	-9.1	Yes
NA	250	50,200	0.00498	226.86	-9.3	Yes
NA	250	51,400	0.00486	232.28	-7.1	Yes
NA	250	49,500	0.00505	223.69	-10.5	No
NA	250	49,900	0.00501	225.50	-9.8	Yes

**Mercury Calibration Summary  
Stack Runs 1-3**



GENERAL INFORMATION

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

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,110	0.00450	5.25	5.0	Yes
2	10	2,270	0.00441	10.7	7.4	Yes
3	25	5,110	0.00489	24.2	-3.3	Yes
4	50	10,100	0.00495	47.8	-4.5	Yes
5	100	20,800	0.00481	98.4	-1.6	Yes
6	250	51,300	0.00487	243	-3.0	Yes
7	500	107,000	0.00467	506	1.2	Yes

Average Response Factor (ng/area) 0.00473  
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	413	0.00484	1.95	-2.3	NA

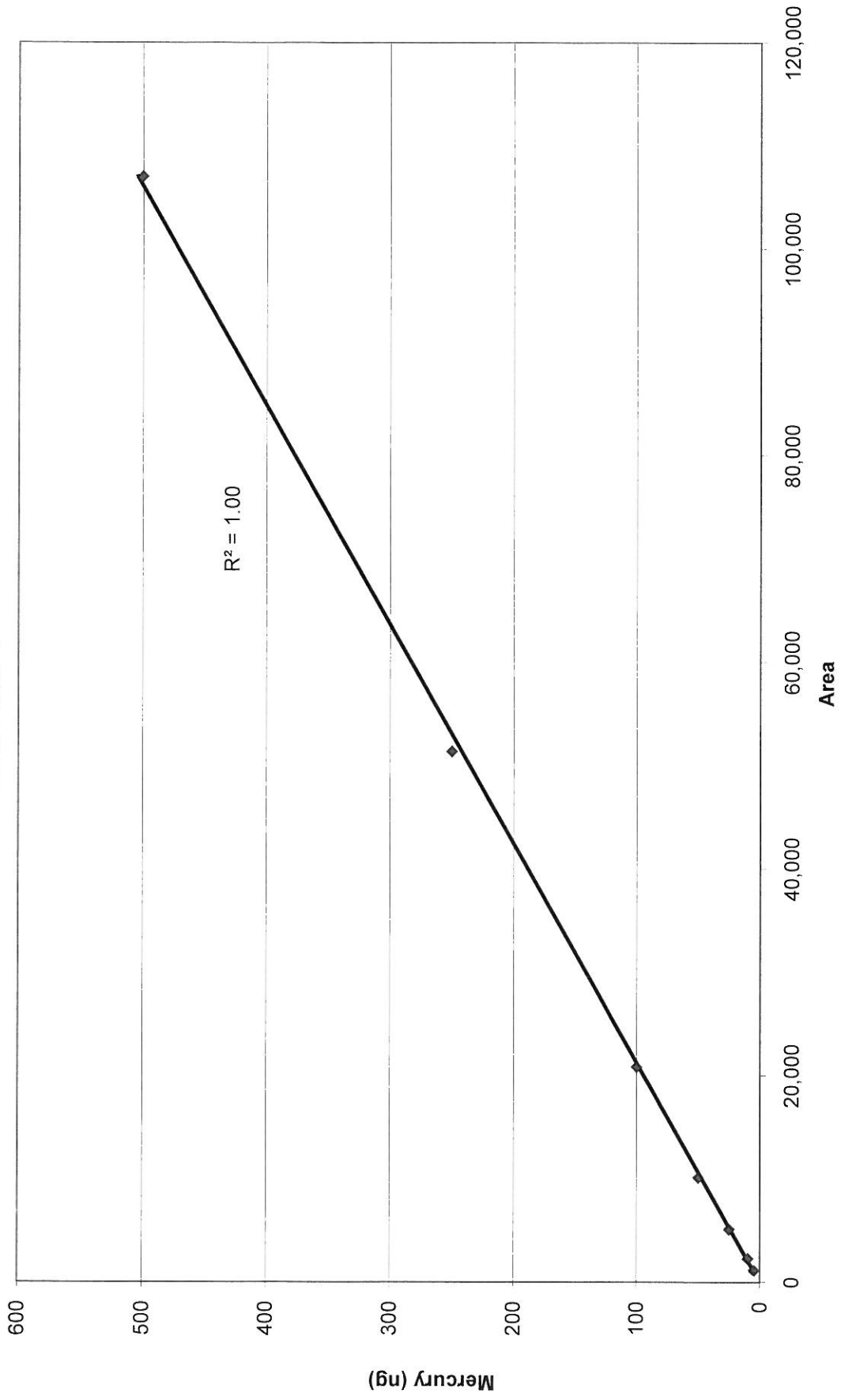
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	49,100	0.00509	232	-7.1	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	51,600	0.00484	244	-2.4	Yes
NA	250	50,400	0.00496	238	-4.7	Yes
NA	250	48,900	0.00511	231	-7.5	Yes

Mercury Calibration Summary  
Wilson - SCR 1,3,4 Runs 1-3  
SCR 2 Run 1



Date: 8/23/11  
Analyzer: Ohio Lumex  
Analyst: MO

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,150	0.00435	5.30	6.1	Yes
2	10	2,110	0.00474	9.7	-2.7	Yes
3	25	5,760	0.00434	26.6	6.2	Yes
4	50	10,600	0.00472	48.9	-2.2	Yes
5	100	21,400	0.00467	98.7	-1.3	Yes
6	250	55,400	0.00451	255	2.2	Yes
7	500	101,000	0.00495	466	-6.8	Yes

Average Response Factor (ng/area) 0.00461  
R-Squared 0.998

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	417	0.00480	2	-3.9	NA

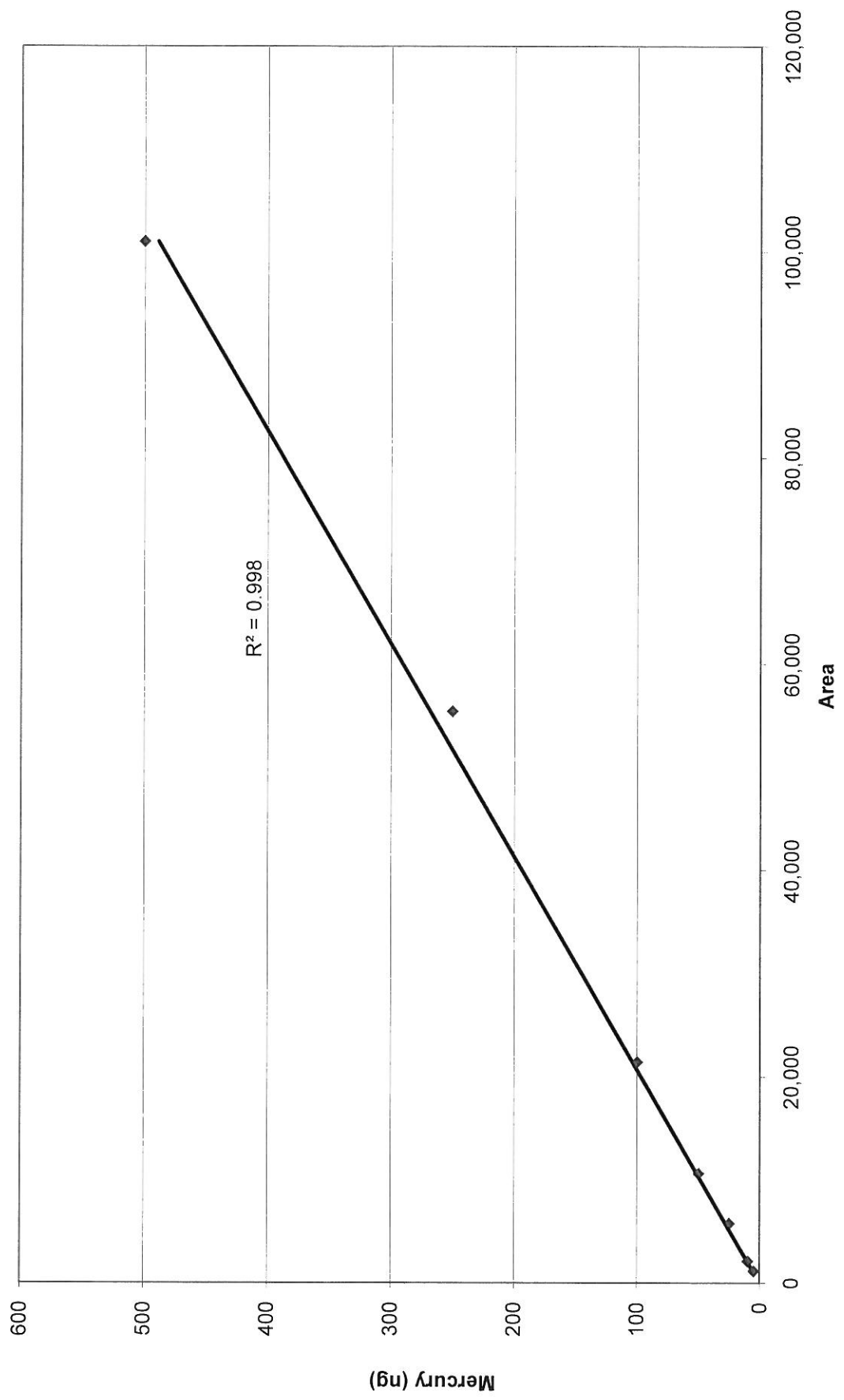
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,000	0.00463	249	-0.4	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	52,400	0.00477	241.64	-3.3	Yes
NA	250	53,800	0.00465	248.10	-0.8	Yes
NA	250	54,800	0.00456	252.71	1.1	Yes
NA	250	55,500	0.00450	255.94	2.4	Yes
NA	250	56,000	0.00446	258.24	3.3	Yes
NA	250	52,900	0.00473	243.95	-2.4	Yes
NA	250	55,500	0.00450	255.94	2.4	Yes
NA	250	53,000	0.00472	244.41	-2.2	Yes
NA	250	54,500	0.00459	251.33	0.5	Yes
NA	250	54,100	0.00462	249.48	-0.2	Yes
NA	250	56,700	0.00441	261.47	4.6	Yes
NA	250	54,400	0.00460	250.87	0.3	Yes

### Mercury Calibration Summary (Green Unit 1)





# G and C COAL ANALYSIS LAB., INC.

Mercury  
5/13/2022

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

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893896

LAB NO.

SAMPLED 08/15/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0004  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 1

MERCURY 0.074 MG/KG DRY OR PPM DRY (ASTM 6722)

## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	9.36	
% Ash .....	8.57	9.46
% Sulfur.....	3.81	4.20
B.T.U.....	11,900	13,129
BTU (Moisture-ash free).....		14,501
% Volatile Matter.....	28.00	30.89
% Fixed Carbon.....	54.07	59.65

3.20 Lbs. Sul./mil. BTU  
7.20 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#: 893896

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 08/15/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 1

SAMPLE ID:0004

Procedure used following ASTM Method D-5373-02

## ULTIMATE ANALYSIS

As Received      Dry Basis

-----      -----

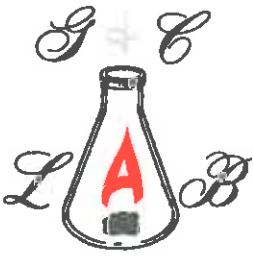
% CARBON	67.51	74.48
% HYDROGEN	4.11	4.53
% NITROGEN	1.31	1.44
% Oxygen	6.98	7.62
(by Difference)		
% Ash	8.57	9.46
% Sulfur	3.81	4.20
% Total Moisture	9.36	

\*\*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 RD.  
SUMMERSVILLE, PA 15864  
(814) 849-2559  
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893903

LAB NO.

SAMPLED 07/15/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0005  
BIG RIVERS ELECTRIC  
PETCOKE SAMPLE  
WILSON - RUN 2

MERCURY 0.085 MG/KG DRY OR PPM DRY (ASTM 6722)

## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	9.55	
% Ash .....	8.17	9.03
% Sulfur.....	3.70	4.09
B.T.U.....	11,970	13,234
BTU (Moisture-ash free).....		14,548
% Volatile Matter.....	27.90	30.85
% Fixed Carbon.....	54.38	60.12

3.09 Lbs. Sul./mil. BTU  
6.83 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#: 893903

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 07/15/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE SAMPLE  
WILSON - RUN 2

SAMPLE ID:0005

Procedure used following ASTM Method D-5373-02

### ULTIMATE ANALYSIS

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

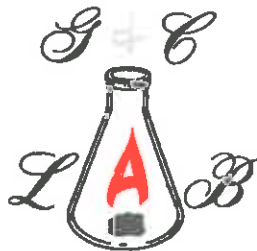
% CARBON	67.84	75.00
% HYDROGEN	4.13	4.57
% NITROGEN	1.35	1.49
% Oxygen	6.91	7.55
(by Difference)		
% Ash	8.17	9.03
% Sulfur	3.70	4.09
% Total Moisture	9.55	

\*\*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 RD.  
SUMMERSVILLE, PA 15864  
(814) 849-2559  
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893900

LAB NO.

SAMPLED

RECEIVED

REPORTED

07/15/11

08/05/11

08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0006  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 3

MERCURY 0.092 MG/KG DRY OR PPM DRY (ASTM 6722)

## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	9.58	
% Ash .....	8.27	9.15
% Sulfur.....	3.70	4.09
B.T.U.....	11,965	13,233
BTU (Moisture-ash free).....		14,566
% Volatile Matter.....	27.34	30.24
% Fixed Carbon.....	54.81	60.61
3.09 Lbs. Sul./mil. BTU		
6.91 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#: 893900

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 07/15/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 3

SAMPLE ID:0006

Procedure used following ASTM Method D-5373-02

## ULTIMATE ANALYSIS

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

% CARBON	68.00	75.20
% HYDROGEN	4.28	4.73
% NITROGEN	1.37	1.52
% Oxygen	6.45	7.04
(by Difference)		
% Ash	8.27	9.15
% Sulfur	3.70	4.09
% Total Moisture	9.58	

\*\*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.**

Wilson 1

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

893897

LAB NO. 07/14/11  
 SAMPLED 08/05/11  
 RECEIVED 08/26/11  
 REPORTED

SAMPLE MARKED:

PROJECT #3648  
 SAMPLE ID:0001  
 BIG RIVERS ELECTRIC  
 PETCOKE BLEND SAMPLE  
 WILSON - RUN 1  
 CHLORINE 99 MG/KG DRY (USGS BULLETIN 1823)  
 FLUORINE 60 MG/KG DRY (ASTM 3761-96)

M26 M29

ANALYSIS REPORT

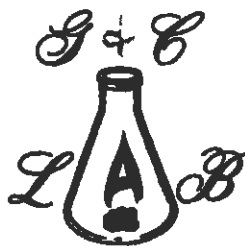
	AS RECEIVED	DRY BASIS
% Moisture.....	10.54	
% Ash .....	8.72	9.75
% Sulfur.....	3.62	4.05
B.T.U.....	11,696	13,074
BTU (Moisture-ash free).....		14,486
% Volatile Matter.....	27.69	30.95
% Fixed Carbon.....	53.05	59.30

3.10 Lbs. Sul./mil. BTU  
 7.46 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#: 893897

AIRTECH ENVIROMENTAL  
601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 1

SAMPLE ID:0001

Procedure used following ASTM Method D-5373-02

### ULTIMATE ANALYSIS

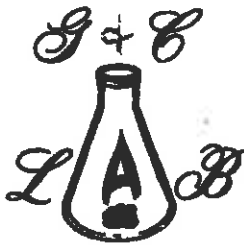
	As Received	Dry Basis
% CARBON	66.35	74.17
% HYDROGEN	4.19	4.68
% NITROGEN	1.36	1.52
% Oxygen	6.87	7.56
(by Difference)		
% Ash	8.72	9.75
% Sulfur	3.62	4.05
% Total Moisture	10.54	

\*\*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#: 893897

AIRTECH ENVIROMENTAL  
601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

SAMPLE ID:0001

PROJECT #3648

BIG RIVERS ELECTRIC

PETCOKE BLEND SAMPLE

WILSON - RUN 1

CHLORINE 99 MG/KG DRY (USGS BULLETIN 1823)

FLUORINE 60 MG/KG DRY (ASTM 3761-96)

% Total Moisture 10.54

% Ash Dry 9.75

% Ash As Received 8.72

	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.24	0.02	0.02
Arsenic	40.19	3.92	3.50
Beryllium	2.60	0.25	0.23
Cadmium	0.38	0.04	0.03
Chromium	30.45	2.97	2.66
Cobalt	14.62	1.43	1.27
Lead	88.08	8.59	7.68
Manganese	72.66	7.08	6.34
Nickel	209.87	20.46	18.30

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

RECEIVED FROM:

AIRTECH ENVIROMENTAL  
 601A COUNTRY CLUB DRIVE

BENSONVILLE, IL

60106

893902

LAB NO. 07/14/11  
 SAMPLED 08/05/11  
 RECEIVED 08/26/11  
 REPORTED

SAMPLE MARKED:

PROJECT #3648  
 SAMPLE ID:0002  
 BIG RIVERS ELECTRIC  
 PETCOKE BLEND SAMPLE  
 WILSON - RUN 2  
 CHLORINE 105 MG/KG DRY (USGS BULLETIN 1823)  
 FLUORINE 55 MG/KG DRY (ASTM 3761-96)

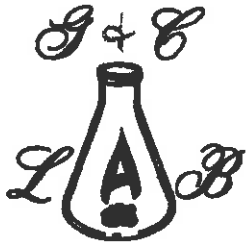
ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	10.37	
% Ash .....	8.84	9.86
% Sulfur.....	3.86	4.31
B.T.U.....	11,680	13,031
BTU (Moisture-ash free).....		14,456
% Volatile Matter.....	28.22	31.48
% Fixed Carbon.....	52.57	58.66
3.30 Lbs. Sul./mil. BTU		
7.57 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#: 893902

AIRTECH ENVIROMENTAL  
 601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:  
 PROJECT #3648  
 BIG RIVERS ELECTRIC  
 PETCOKE BLEND SAMPLE  
 WILSON - RUN 2

SAMPLE ID:0002

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS  
 As Received      Dry Basis  
 -----

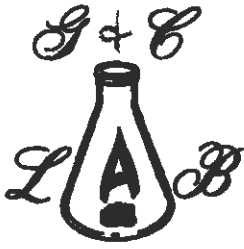
% CARBON	69.80	77.88
% HYDROGEN	4.14	4.62
% NITROGEN	1.34	1.49
% Oxygen	3.30	3.57
(by Difference)		
% Ash	8.84	9.86
% Sulfur	3.86	4.31
% Total Moisture	10.37	

\*\*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&amp;C Lab#: 893902

AIRTECH ENVIROMENTAL  
601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0002

BIG RIVERS ELECTRIC

PETCOKE BLEND SAMPLE

WILSON - RUN 2

CHLORINE 105 MG/KG DRY (USGS BULLETIN 1823)

FLUORINE 55 MG/KG DRY (ASTM 3761-96)

% Total Moisture 10.37

% Ash Dry 9.86

% Ash As Received 8.84

	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.32	0.03	0.03
Arsenic	91.65	9.04	8.10
Beryllium	2.04	0.20	0.18
Cadmium	3.20	0.32	0.28
Chromium	23.57	2.32	2.08
Cobalt	10.17	1.00	0.90
Lead	82.19	8.10	7.27
Manganese	60.81	6.00	5.38
Nickel	161.80	15.95	14.30

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

893899

RECEIVED FROM:

AIRTECH ENVIROMENTAL  
 601A COUNTRY CLUB DRIVE

LAB NO. 07/14/11  
 SAMPLED 08/05/11  
 RECEIVED  
 REPORTED 08/26/11

BENSONVILLE, IL

60106

SAMPLE MARKED:

PROJECT #3648  
 SAMPLE ID:0003  
 BIG RIVERS ELECTRIC  
 PETCOKE BLEND SAMPLE/WILSON - RUN 3  
 CHLORINE 103 MG/KG DRY (USGS BULLETIN 1823)  
 FLUORINE 58 MG/KG DRY (ASTM 3761-96)

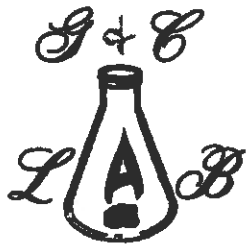
ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	9.93	
% Ash .....	7.89	8.76
% Sulfur.....	3.49	3.87
B.T.U.....	11,905	13,217
BTU (Moisture-ash free).....		14,486
% Volatile Matter.....	31.21	34.65
% Fixed Carbon.....	50.97	56.59
2.93 Lbs. Sul./mil. BTU		
6.63 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#: 893899

AIRTECH ENVIROMENTAL  
601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0003

BIG RIVERS ELECTRIC

PETCOKE BLEND SAMPLE/WILSON - RUN 3

CHLORINE 103 MG/KG DRY (USGS BULLETIN 1823)

Procedure used following ASTM Method D-5373-02

### ULTIMATE ANALYSIS

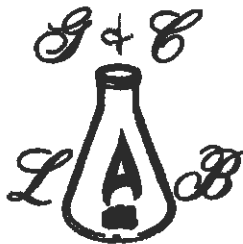
	As Received	Dry Basis
	-----	-----
% CARBON	67.23	74.64
% HYDROGEN	4.29	4.76
% NITROGEN	1.41	1.56
% Oxygen	7.41	8.14
(by Difference)		
% Ash	7.89	8.76
% Sulfur	3.49	3.87
% Total Moisture	9.93	

\*\*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&amp;C Lab#: 893899

AIRTECH ENVIROMENTAL  
601A COUNTRY CLUB DRIVE

Date Sampled: 07/14/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0003

BIG RIVERS ELECTRIC

PETCOKE BLEND SAMPLE/WILSON - RUN 3

CHLORINE 103 MG/KG DRY (USGS BULLETIN 1823)

FLUORINE 58 MG/KG DRY (ASTM 3761-96)

% Total Moisture 9.93

% Ash Dry 8.76

% Ash As Received 7.89

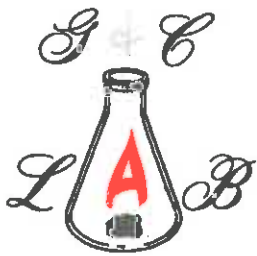
	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.14	0.01	0.01
Arsenic	9.92	0.87	0.78
Beryllium	3.73	0.33	0.29
Cadmium	0.47	0.04	0.04
Chromium	33.49	2.93	2.64
Cobalt	21.24	1.86	1.68
Lead	90.75	7.95	7.16
Manganese	54.67	4.79	4.31
Nickel	186.11	16.30	14.68

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.

SCR  
30B

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

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893898

LAB NO.

SAMPLED

RECEIVED

REPORTED

07/25/11

08/05/11

08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0013  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 1

MERCURY 0.063 MG/KG DRY OR PPM DRY (ASTM 6722)

## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	9.91	
% Ash .....	7.93	8.80
% Sulfur.....	3.30	3.66
B.T.U.....	11,956	13,271
BTU (Moisture-ash free).....		14,552
% Volatile Matter.....	29.86	33.15
% Fixed Carbon.....	52.30	58.05

2.76 Lbs. Sul./mil. BTU  
6.63 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#: 893898

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILSON - RUN 1

SAMPLE ID:0013

Procedure used following ASTM Method D-5373-02

## ULTIMATE ANALYSIS

As Received      Dry Basis

	As Received	Dry Basis
% CARBON	67.65	75.09
% HYDROGEN	4.24	4.71
% NITROGEN	1.40	1.55
% Oxygen	7.22	7.92
(by Difference)		
% Ash	7.93	8.80
% Sulfur	3.30	3.66
% Total Moisture	9.91	

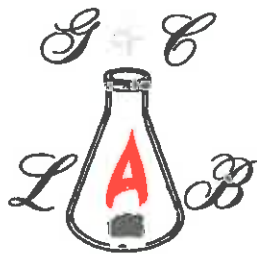
\*\*Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

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 RD.  
SUMMERSVILLE, PA 15864  
(814) 849-2559  
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893904

LAB NO.

SAMPLED 07/25/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0014  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WILLSON - RUN 2

MERCURY 0.089 MG/KG DRY OR PPM DRY (ASTM 6722)

## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	10.47	
% Ash .....	8.04	8.98
% Sulfur.....	3.56	3.98
B.T.U.....	11,815	13,197
BTU (Moisture-ash free).....		14,499
% Volatile Matter.....	27.33	30.53
% Fixed Carbon.....	54.16	60.49

3.01 Lbs. Sul./mil. BTU  
6.80 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#: 893904

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:  
PROJECT #3648  
BIG RIVERS ELECTRIC  
PETCOKE BLEND SAMPLE  
WIILSON - RUN 2

SAMPLE ID:0014

Procedure used following ASTM Method D-5373-02

## ULTIMATE ANALYSIS

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

% CARBON	66.95	74.78
% HYDROGEN	4.13	4.61
% NITROGEN	1.36	1.52
% Oxygen	7.14	7.86
(by Difference)		
% Ash	8.04	8.98
% Sulfur	3.56	3.98
% Total Moisture	10.47	

\*\*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 RD.  
SUMMERSVILLE, PA 15864  
(814) 849-2559  
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental  
601A Country Club Drive

Bensonville, IL

60106

893906

LAB NO.

SAMPLED 07/25/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648  
SAMPLE ID:0015  
BIG RIVERS ELECTRIC  
PETCOKEBLEND SAMPLE  
WILSON - RUN 3

MERCURY 0.112 MG/KG DRY OR PPM DRY (ASTM 6722)

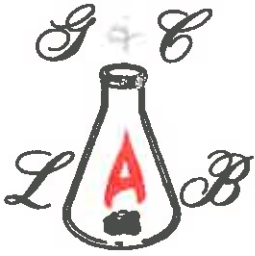
## ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	11.26	
% Ash .....	8.92	10.05
% Sulfur.....	3.44	3.88
B.T.U.....	11,582	13,052
BTU (Moisture-ash free).....		14,510
% Volatile Matter.....	30.06	33.87
% Fixed Carbon.....	49.76	56.08
2.97 Lbs. Sul./mil. BTU		
7.70 Lbs. Ash./mil. BTU		

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE  
OBTAINED FOLLOWING ASTM PROCEDURES.

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#: 893906

Airtech Enviromental  
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0015

BIG RIVERS ELECTRIC

PETCOKEBLEND SAMPLE

WILSON - RUN 3

Procedure used following ASTM Method D-5373-02

## ULTIMATE ANALYSIS

As Received      Dry Basis

-----

% CARBON	65.31	73.60
% HYDROGEN	4.13	4.65
% NITROGEN	1.34	1.51
% Oxygen	7.25	8.04
(by Difference)		
% Ash	8.92	10.05
% Sulfur	3.44	3.88
% Total Moisture	11.26	

\*\*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 \_\_\_\_\_

# BIG RIVERS ELECTRIC CORP. CHAIN OF CUSTODY RECORD

No. \_\_\_\_\_

Sampling Location: \_\_\_\_\_

W. Wilson = pet coke blend test

Plant ID. Sample Number	Date Time	Central Lab ID. Sample Number	Station Description	Sampling Method	Sample Size	Type of Preservation	Analysis Requested
001	7-14-11 11:30		HAPS testing M26 M29				
002	7-14-11 15:10		M26 M29				
003	7-14-11 17:15		M26 M29				
004	7-15-11 09:44		M26 M29				
005	7-15-11 13:35		M26 M29				
006	7-15-11 15:59		M26 M29				
<b>Samplers (Signatures)</b>							
Relinquished By (Signature)		Date		Time		Received By (Signature)	
		7-28-11		09:00			
Relinquished By (Signature)		Date		Time		Received By (Signature)	
Relinquished By (Signature)		Date		Time		Received By (Signature)	
Relinquished By (Signature)		Date		Time		Received By (Signature)	

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

**AIRTECH ENVIRONMENTAL SERVICES INC.**

Chain of Custody

Project Number		3648		Location		Centerville, KY		Page		1 of 1			
Client		Big Rivers		Date		8/2/2011		Analysis Requested					
Plant		Wilson Station		Completed By		James Christ		Ullimate/Proximate	Chlorine	Flourine	Hg (Mercury)	Metallic HAPs	Number of Containers
Metallic HAPs will be defined as antimony (Sb), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), cobalt (Co), lead (Pb), manganese (Mn) and nickel (Ni).													
ID No.	Run No.	Date	Sample Description										Notes
001	1	7/14/2011	Petcoke Blend Sample										1
002	2	7/14/2011	Petcoke Blend Sample										1
003	3	7/14/2011	Petcoke Blend Sample										1
004	1	7/15/2011	Petcoke Blend Sample										1
005	2	7/15/2011	Petcoke Blend Sample										1
006	3	7/15/2011	Petcoke Blend Sample										1
007	1	7/19/2011	Caol Sample										1
008	2	7/19/2011	Caol Sample										1
009	3	7/19/2011	Caol Sample										1
010	1	7/20/2011	Caol Sample										1
011	2	7/20/2011	Caol Sample										1
012	3	7/20/2011	Caol Sample										1
013	1	7/25/2011	Petcoke Blend Sample										1
014	2	7/25/2011	Petcoke Blend Sample										1
015	3	7/25/2011	Petcoke Blend Sample										1
Relinquished By		<i>James Christ</i>		Relinquished By				Carrier		FedEx			
(signature)		James Christ		(signature)				Laboratory		G&C Coal Analysis			
(printed)		James Christ		(printed)				Contact					
Date/Time		8/2/11		Date/Time				Address		1341 Hoffman Hollow Road			
Accepted By				Accepted By				Phone		Summerville, PA 15864			
(signature)				(signature)				Fax					
(printed)				(printed)				Date/Time					
Date/Time				Date/Time									



**AIRTECH**  
Environmental  
Services Inc.

Tracking Number: 9V5V42

Airtech Environmental Services Inc.  
601A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 860 4745

**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

COPY

Project Number		3648		Location		Stack	
Client		Big Rivers		Date		7/22/2011	
Plant		Wilson Station		Completed By		Michael Hess	
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Analysis Requested	Number of Containers	Notes
29-R1-FIL	1	7/22/2011	Quartz Filter	X		1	
29-R2-FIL	2	7/22/2011	Quartz Filter	X		1	
29-R3-FIL	3	7/22/2011	Quartz Filter	X		1	
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2	
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2	
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		2	
29-R1-5%/10%	1	7/22/2011	Imp Catch and Rinses	X		1	
29-R2-5%/10%	2	7/22/2011	Imp Catch and Rinses	X		1	
29-R3-5%/10%	3	7/22/2011	Imp Catch and Rinses	X		1	
<b>Relinquished By</b> (signature) <i>Michael Hess</i> (printed) Michael Hess Date/Time 7/22/2011 0:00				<b>Relinquished By</b> (signature) <i>David Delvin</i> (printed) DAVID DELVINS Date/Time 7-26-11 3:24			
<b>Accepted By</b> (signature) <i>David Delvin</i> (printed) DAVID DELVINS Date/Time 7-25-11				<b>Accepted By</b> (signature) <i>James Bradshaw</i> (printed) James Bradshaw Date/Time 7/26/11 1524			
<b>Carrier</b> Laboratory Contact Address Phone Fax Date/Time							



**AIRTECH ENVIRONMENTAL SERVICES INC.**  
Chain of Custody

COPY

Project Number		3648		Location		ESP 4		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		Michael Hess		Metallic HAPs			
ID No.	Run No.	Date	Sample Description								Notes
29-R1-FIL	1	7/22/2011	Quartz Filter	X						1	
29-R2-FIL	2	7/22/2011	Quartz Filter	X						1	
29-R3-FIL	3	7/22/2011	Quartz Filter	X						1	
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X						1	
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X						1	
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X						1	
29-R1-5%/10%	1	7/22/2011	Imp Catch and Rinses	X						1	
29-R2-5%/10%	2	7/22/2011	Imp Catch and Rinses	X						1	
29-R3-5%/10%	3	7/22/2011	Imp Catch and Rinses	X						1	
Relinquished By (signature)				Relinquished By (signature)				Carrier Laboratory			
(printed)				(printed)				Contact Address			
Date/Time				Date/Time				Phone Fax			
Accepted By (signature)				Accepted By (signature)				Date/Time			
(printed)				(printed)				Date/Time			

Airtech Environmental Services Inc.  
601A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 860 4745





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Project Number		3648		Location		ESP 3	
Client		Big Rivers		Date		7/22/2011	
Plant		Wilson Station		Completed By		Michael Hess	
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Analysis Requested	Page	1 of 1
29-R1-FIL	1	7/22/2011	Quartz Filter	X		1	1
29-R2-FIL	2	7/22/2011	Quartz Filter	X		1	1
29-R3-FIL	3	7/22/2011	Quartz Filter	X		1	1
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1	1
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1	1
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	X		1	1
29-R1-5%/10%	1	7/22/2011	Imp Catch and Rinses	X		1	1
29-R2-5%/10%	2	7/22/2011	Imp Catch and Rinses	X		1	1
29-R3-5%/10%	3	7/22/2011	Imp Catch and Rinses	X		1	1
				Notes			
				Number of Containers			
				Carrier			
				Laboratory			
				Contact			
				Address			
				Phone			
				Fax			
				Date/Time			
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>David Devries</i>	
(printed)		Michael Hess		(printed)		DAVID DEVRIES	
Date/Time		7/22/2011 0:00		Date/Time		7-22-11 3:24	
Accepted By (signature)		<i>David Devries</i>		Accepted By (signature)		<i>David Devries</i>	
(printed)		DAVID DEVRIES		(printed)		DAVID DEVRIES	
Date/Time		7-25-11		Date/Time		7/24/11 1524	



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Project Number		3648		Location		ESP 2		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		Michael Hess		Metallic HAPs			
ID No.	Run No.	Date	Sample Description	Number of Containers		Notes					
29-R1-FIL	1	7/22/2011	Quartz Filter	1							
29-R2-FIL	2	7/22/2011	Quartz Filter	1							
29-R3-FIL	3	7/22/2011	Quartz Filter	1							
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	1							
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	1							
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse	1							
29-R1-5%/10%	1	7/22/2011	Imp Catch and Rinses	1							
29-R2-5%/10%	2	7/22/2011	Imp Catch and Rinses	1							
29-R3-5%/10%	3	7/22/2011	Imp Catch and Rinses	1							
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>D. Hess</i>		Carrier			
(printed)		Michael Hess		(printed)		DAVID DEVERIES		Laboratory			
Date/Time		7/22/2011 0:00		Date/Time		7-26-11 3:24		Contact			
Accepted By (signature)		<i>David Deveries</i>		Accepted By (signature)		<i>Dolores Bradshaw</i>		Address			
(printed)		DAVID DEVERIES		(printed)		Dolores Bradshaw		Phone			
Date/Time		7-25-11		Date/Time		7/26/11 1524		Fax			
				Date/Time				Date/Time			

Airtech Environmental Services Inc.  
601A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 860 4745



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Project Number		3648		Location		ESP 1		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		Michael Hess		Metallic HAPs			
ID No.		Run No.		Date		Sample Description		Number of Containers			
29-R1-FIL	1	7/22/2011	Quartz Filter		X	1					
29-R2-FIL	2	7/22/2011	Quartz Filter		X	1					
29-R3-FIL	3	7/22/2011	Quartz Filter		X	1					
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X	1					
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X	1					
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO <sub>3</sub> Rinse		X	1					
29-R1-5%/10%	1	7/22/2011	Imp Catch and Rinses		X	1					
29-R2-5%/10%	2	7/22/2011	Imp Catch and Rinses		X	1					
29-R3-5%/10%	3	7/22/2011	Imp Catch and Rinses		X	1					
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>David Peries</i>		Carrier			
(printed)		Michael Hess		(printed)		DAVID PERIES		Laboratory			
Date/Time		7/22/2011 0:00		Date/Time		7-26-11 3:24		Contact			
Accepted By (signature)		<i>David Peries</i>		Accepted By (signature)		<i>Polores Brodshaw</i>		Address			
(printed)		DAVID PERIES		(printed)		Polores Brodshaw		Phone			
Date/Time		7-25-11		Date/Time		7/26/11 1524		Fax			
								Date/Time			



Airtech Environmental Services Inc.  
601A Country Club Drive  
Bensenville, IL 60106  
Phone: (630) 860-4740, Fax: (630) 860 4745









