SEVERN TRENT STL

STL Sacramento
880 Riverside Parkway
West Sacramento, CA 95605

Tel: 916 373 5600 Fax: 916 372 1059
www.stl-inc.com

May 22, 2006

STL SACRAMENTO PROJECT NUMBER: G6D260252
PO/CONTRACT: 129682.001/Event 75

Guy Graening
Brown and Caldwell
10540 White Rock Road
Suite 180
Rancho Cordova, CA 95670

Dear Mr. Graening,

This report contains the analytical results for the samples received under chain of custody by STL Sacramento on April 26, 2006. These samples are associated with Event 75.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4384.

Sincerely,

Karen Dahl
Project Manager

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Case Narrative

STL Sacramento Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

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Samples: 1 through 12
- Sample Data Sheet
- Method Blank Report
- Laboratory QC Reports

AIR, PM-10
Samples: 1 through 7
AIR, TSP
Samples: 8 through 12
- Sample Data Sheet

Full Raw Data Package

CASE NARRATIVE

STL SACRAMENTO PROJECT NUMBER G6D260252

AIR, PM-10
The final weight for sample P-0605 was less than the initial weight so this result has been reported as 'ND'.

There were no anomalies associated with this project.

SEVERN TRENT STL

ACCREDITED IN ACCORDANCE WITH nelac

STL Sacramento Certifications/Accreditations

Certifying State	Certificate #	Certifying State	Certificate #
Alaska	UST-055	Oregon*	CA 200005
Arizona	AZ0616	Pennsylvania	68-1272
Arkansas	04-067-0	South Carolina	87014002
California*	01119CA	Texas	TX 270-2004A
Colorado	NA	Utah*	QUAN1
Connecticut	PH-0691	Virginia	00178
Florida*	E87570	Washington	C087
Georgia	960	West Virginia	9930C, 334
Hawaii	NA	Wisconsin	998204680
Louisiana*	01944	NFESC	NA
Michigan	9947	USACE	NA
Nevada	CA44	USDA Foreign Plant	37-82605
New Jersey*	CA005	USDA Foreign Soil	S-46613
New York*	11666		

*NELAP accredited. A more detailed parameter list is available upon request. Update 1/27/05

QC Parameter Definitions

QC Batch: The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

Method Blank: An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD): An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also used to evaluate the precision of the process.

Duplicate Sample (DU): Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

Surrogates: Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

Matrix Spike and Matrix Spike Duplicate (MS/MSD): An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

Isotope Dilution: For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

Control Limits: The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

Sample Summary
G6D260252

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
H341E	1	P-0598	4/20/2006 09:10 AM	4/26/2006 09:00 AM
H341Q	2	P-0599	4/20/2006 09:30 AM	4/26/2006 09:00 AM
H341V	3	P-0600	4/20/2006 09:45 AM	4/26/2006 09:00 AM
H3413	4	P-0601	4/20/2006 10:05 AM	4/26/2006 09:00 AM
H3414	5	P-0602	4/20/2006 10:25 AM	4/26/2006 09:00 AM
H3416	6	P-0603	4/20/2006 10:40 AM	4/26/2006 09:00 AM
H3417	7	P-0605	4/20/2006 10:35 AM	4/26/2006 09:00 AM
H342E	8	000431	4/20/2006 09:35 AM	4/26/2006 09:00 AM
H342L	9	000432	4/20/2006 09:50 AM	4/26/2006 09:00 AM
H342M	10	000433	4/20/2006 10:10 AM	4/26/2006 09:00 AM
H342P	11	000434	4/20/2006 10:30 AM	4/26/2006 09:00 AM
H342Q	12	000435	4/20/2006 10:45 AM	4/26/2006 09:00 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. _____

Event 75

YERA000149

☒ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Air Qlty

PROJECT NUMBER: 121243

LABORATORY NAME & ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	~~TAT~~	SAMPLING METHOD	DEPTH (FT.) BEGIN ---- END	PID READING (ppm)
01	-P-0598	4/20/00	9:10	MS	1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
02	-P-0599		9:30		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
03	-P-0600		9:45		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
04	-P-0601		10:05		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
05	-P-0602		10:25		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
06	-P-0603		10:40		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
07	-P-0605		10:35		1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
08	-				1	8x10 Filter	NONE	A	PM-10, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
09														----	
10														----	

COLLECTED & RELEASED BY: Marie Sherman	DATE 4/20/00	TIME 16:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: Cheryl Hall	DATE 4/21/00	TIME 10:20	RELINQUISHED BY:	DATE / /	TIME :	
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER: FEDEX			SHIPPING NUMBER: 7920797126 80			

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

G6D260252

STL Sacramento (916) 373-5600

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. _____

Event 75

YERA000150

☒ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: ~~Yerington Air Qlty~~

PROJECT NUMBER: ~~121243~~

LABORATORY NAME & ADDRESS: SEVERN TRENT LABS., WEST SACRAMENTO,

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	~~TAT~~	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	000431	4/2/06	9:35	MS	1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
02	000432		9:50		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
03	000433		10:10		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
04	000434		10:30		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
05	000435		10:45		1	8x10 Filter	NONE	A	TSP, Gross Alpha/Beta, Th(228,230,232), Ra(226,228), U (234,235,238), Metals(Client List)					----	
06														----	
07														----	
08														----	
09														----	
10														----	

COLLECTED & RELEASED BY:	DATE	TIME	COOLER I.D.:	DATE	TIME	COMMENTS (see note on back):
Maria Drennan	4/2/06	16:00				
RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	
[illegible signature]	4/3/06	10:30		/ /	:	
RECORD RETURNED BY:	DATE	TIME				
	/ /	:				
COURIER: FED EX			SHIPPING NUMBER: 7920 7971 2680			

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

G6D260252
STL Sacramento (916) 373 - 5600
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SEVERN TRENT STL

LOT RECEIPT CHECKLIST
STL Sacramento

CLIENT Brown+Caldwell PM KD LOG # 38478

LOT# (QUANTIMS ID) G6D260252 QUOTE# 62684 LOCATION AC

	Initials	Date
DATE RECEIVED 4-26-06 TIME RECEIVED 900	CK	4-26-06

DELIVERED BY ☑ FEDEX ☐ CA OVERNIGHT ☐ CLIENT ☐ AIRBORNE ☐ GOLDENSTATE ☐ DHL ☐ UPS ☐ BAX GLOBAL ☐ GO-GETTERS ☐ STL COURIER ☐ COURIERS ON DEMAND ☐ OTHER

CUSTODY SEAL STATUS ☐ INTACT ☐ BROKEN ☑ N/A

CUSTODY SEAL #(S) _____

SHIPPPING CONTAINER(S) ☐ STL ☑ CLIENT ☐ N/A

TEMPERTURE RECORD (IN °C) IR 1☐ 3 ☐ ☑ OTHER N/A

COC #(S) N/A

TEMPERATURE BLANK Observed: N/A Corrected: _____

SAMPLE TEMPERATURE

Observed: ambient Average: _____ Corrected Average: _____

COLLECTOR'S NAME: ☐ Verified from COC ☑ Not on COC

pH MEASURED ☐ YES ☐ ANOMALY ☑ N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW _____ ☑ NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM ☑ N/A

VOA-ENCORES ☑ N/A

☐ METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL ☑ N/A

☑ COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES ☐ N/A

☐ Clouseau ☐ TEMPERATURE EXCEEDED (2 °C – 6 °C)*1 ☑ N/A

☐ WET ICE ☐ BLUE ICE ☐ GEL PACK ☐ NO COOLING AGENTS USED ☐ PM NOTIFIED

Notes: _____

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

LEAVE NO SPACES BLANK. USE "N/A" IF NOT APPLICABLE. INITIAL AND DATE ALL "N/A" ENTRIES.

SEVERN TRENT STL

Bottle Lot Inventory

Lot ID: G6D260252

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*																				
VOAh*																				
AGB																				
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
____AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
____CGJ																				
500CGJ																				
250CGJ																				
125CGJ																				
PJ																				
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
_____"CT																				
Encore																				
Folder/filter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

h = hydrochloric acid **s** = sulfuric acid **na** = sodium hydroxide **n** = nitric acid **zn** = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

QA-185 5/05 EM

Page 3

AIR, Metals – Various Methods

Brown and Caldwell

Client Sample ID: P-0598

TOTAL Metals

Lot-Sample #...: G6D260252-001 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341E1AH
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341E1AJ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H341E1AK
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341E1AL
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341E1AM
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	**6.7 B**	**12.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341E1AN**
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/16/06	H341E1AP
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**18.4**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341E1AQ**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.7 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341E1AR**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341E1AT
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341E1AU
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**0.99 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341E1AV**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341E1AW
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H341E1AX
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: P-0598

TOTAL Metals

Lot-Sample #...: G6D260252-001 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/15/06	H341E1A0
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**68.4 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341E1AC**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H341E1AD
		Dilution Factor: 1		MDL.....: 898		
Iron	**75.8 B**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341E1AE**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H341E1AF
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H341E1AG
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0042 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H341E1A1**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0599

TOTAL Metals

Lot-Sample #...: G6D260252-002 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	**0.021 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341Q1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341Q1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H341Q1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341Q1AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341Q1AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H341Q1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/16/06	H341Q1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**7.9**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341Q1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.3 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341Q1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341Q1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341Q1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**0.92 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341Q1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341Q1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H341Q1A1
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: P-0599

TOTAL Metals

Lot-Sample #...: G6D260252-002 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/15/06	H341Q1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**65.6 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341Q1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H341Q1AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**130**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341Q1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H341Q1AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H341Q1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0090 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H341Q1AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0600

TOTAL Metals

Lot-Sample #...: G6D260252-003 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341V1AK
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341V1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H341V1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341V1AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H341V1AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H341V1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/16/06	H341V1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**28.6**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341V1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.2 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341V1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341V1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H341V1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**0.91 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H341V1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H341V1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H341V1A1
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0600

TOTAL Metals

Lot-Sample #...: G6D260252-003 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/15/06	H341V1AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**66.7 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341V1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H341V1AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**189**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H341V1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H341V1AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H341V1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0084 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H341V1AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0601

TOTAL Metals

Lot-Sample #...: G6D260252-004 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34131AK
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34131AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H34131AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34131AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34131AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34131AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34131AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**21.6**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34131AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.8 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34131AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34131AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34131AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.2**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34131AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34131A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34131A1
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0601

TOTAL Metals

Lot-Sample #...: G6D260252-004 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H34131AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**85.3 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34131AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H34131AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**165**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34131AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H34131AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H34131AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0054 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H34131AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0602

TOTAL Metals

Lot-Sample #...: G6D260252-005 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34141AK
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34141AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H34141AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34141AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34141AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34141AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34141AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**8.2**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34141AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.3 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34141AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34141AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34141AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**0.91 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34141AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34141A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34141A1
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0602

TOTAL Metals

Lot-Sample #...: G6D260252-005 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H34141AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**83.6 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34141AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H34141AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**143**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34141AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H34141AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H34141AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0012 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H34141AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0603

TOTAL Metals

Lot-Sample #...: G6D260252-006 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34161AK
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34161AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H34161AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34161AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34161AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34161AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34161AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**16.2**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34161AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**3.2 B**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34161AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34161AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34161AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**0.95 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H34161AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34161A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34161A1
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0603

TOTAL Metals

Lot-Sample #...: G6D260252-006 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H34161AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**81.8 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34161AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H34161AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**126**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34161AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H34161AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H34161AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0066 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H34161AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: P-0605

TOTAL Metals

Lot-Sample #...: G6D260252-007 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34171AK
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34171AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H34171AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34171AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34171AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34171AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34171AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34171AT
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34171AU
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34171AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H34171AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	ND	1.2	ug	SW846 6020	05/05-05/15/06	H34171AX
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H34171A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H34171A1
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: P-0605

TOTAL Metals

Lot-Sample #...: G6D260252-007 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H34171AA
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	ND	240	ug	SW846 6010B	05/05-05/11/06	H34171AE
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H34171AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**34.9 B**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H34171AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H34171AH
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H34171AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0030 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H34171AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000431

TOTAL Metals

Lot-Sample #...: G6D260252-008
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	**0.021 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342E1AH**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342E1AJ
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H342E1AK
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342E1AL
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342E1AM
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342E1AN
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342E1AP
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**93.7**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342E1AQ**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**7.2**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342E1AR**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342E1AT
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342E1AU
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.2**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342E1AV**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342E1AW
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342E1AX
		Dilution Factor: 1		MDL.....: 2.9		

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Brown and Caldwell

Client Sample ID: 000431

TOTAL Metals

Lot-Sample #...: G6D260252-008 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H342E1A0
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**144 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342E1AC**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H342E1AD
		Dilution Factor: 1		MDL.....: 898		
Iron	**260**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342E1AE**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**122 B**	**600**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342E1AF**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H342E1AG
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.0072 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H342E1A1**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000432

TOTAL Metals

Lot-Sample #...: G6D260252-009 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	**0.048 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342L1AK**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342L1AL
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H342L1AM
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342L1AN
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342L1AP
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342L1AQ
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342L1AR
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**153**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342L1AT**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**7.7**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342L1AU**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342L1AV
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342L1AW
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**2.4**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342L1AX**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342L1A0
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342L1A1
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000432

TOTAL Metals

Lot-Sample #...: G6D260252-009 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**6.5 B**	**24.0**	**ug**	**SW846 6020**	**05/05-05/16/06**	**H342L1AA**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**179 B**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342L1AE**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H342L1AF
		Dilution Factor: 1		MDL.....: 898		
Iron	**287**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342L1AG**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**149 B**	**600**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342L1AH**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H342L1AJ
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.016 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H342L1AC**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000433

TOTAL Metals

Lot-Sample #...: G6D260252-010 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	**0.059 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342M1AM**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342M1AN
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H342M1AP
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342M1AQ
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342M1AR
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342M1AT
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342M1AU
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**163**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342M1AV**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**8.5**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342M1AW**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342M1AX
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342M1A0
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.4**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342M1A1**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342M1AA
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342M1AC
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000433

TOTAL Metals

Lot-Sample #...: G6D260252-010 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	**12.6 B**	**24.0**	**ug**	**SW846 6020**	**05/05-05/16/06**	**H342M1AD**
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**270**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342M1AG**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H342M1AH
		Dilution Factor: 1		MDL.....: 898		
Iron	**576**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342M1AJ**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**191 B**	**600**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342M1AK**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H342M1AL
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.017 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H342M1AE**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000434

TOTAL Metals

Lot-Sample #...: G6D260252-011 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342P1AM
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342P1AN
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H342P1AP
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342P1AQ
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	**0.14 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342P1AR**
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342P1AT
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342P1AU
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**82.0**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342P1AV**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**8.0**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342P1AW**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342P1AX
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342P1A0
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**8.9**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342P1A1**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342P1AA
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342P1AC
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000434

TOTAL Metals

Lot-Sample #...: G6D260252-011 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H342P1AD
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**242**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342P1AG**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H342P1AH
		Dilution Factor: 1		MDL.....: 898		
Iron	**699**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342P1AJ**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**172 B**	**600**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342P1AK**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H342P1AL
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.011 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H342P1AE**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

Brown and Caldwell

Client Sample ID: 000435

TOTAL Metals

Lot-Sample #...: G6D260252-012 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 6124580						
Silver	**0.023 B**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342Q1AM**
		Dilution Factor: 1		MDL.....: 0.014		
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342Q1AN
		Dilution Factor: 1		MDL.....: 1.9		
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H342Q1AP
		Dilution Factor: 1		MDL.....: 34.8		
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342Q1AQ
		Dilution Factor: 1		MDL.....: 0.0084		
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H342Q1AR
		Dilution Factor: 1		MDL.....: 0.054		
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342Q1AT
		Dilution Factor: 1		MDL.....: 3.7		
Chromium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342Q1AU
		Dilution Factor: 1		MDL.....: 10.3		
Copper	**101**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342Q1AV**
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	**9.3**	**6.0**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342Q1AW**
		Dilution Factor: 1		MDL.....: 1.9		
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342Q1AX
		Dilution Factor: 1		MDL.....: 1.1		
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H342Q1A0
		Dilution Factor: 1		MDL.....: 3.5		
Lead	**1.4**	**1.2**	**ug**	**SW846 6020**	**05/05-05/15/06**	**H342Q1A1**
		Dilution Factor: 1		MDL.....: 0.34		
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H342Q1AA
		Dilution Factor: 1		MDL.....: 1.7		
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H342Q1AC
		Dilution Factor: 1		MDL.....: 2.9		

(Continued on next page)

Brown and Caldwell

Client Sample ID: 000435

TOTAL Metals

Lot-Sample #...: G6D260252-012 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	ND	24.0	ug	SW846 6020	05/05-05/16/06	H342Q1AD
		Dilution Factor: 1		MDL.....: 6.2		
Prep Batch #...: 6124594						
Aluminum	**251**	**240**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342Q1AG**
		Dilution Factor: 1		MDL.....: 40.8		
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H342Q1AH
		Dilution Factor: 1		MDL.....: 898		
Iron	**423**	**120**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342Q1AJ**
		Dilution Factor: 1		MDL.....: 14.4		
Magnesium	**171 B**	**600**	**ug**	**SW846 6010B**	**05/05-05/11/06**	**H342Q1AK**
		Dilution Factor: 1		MDL.....: 97.2		
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H342Q1AL
		Dilution Factor: 1		MDL.....: 2020		
Prep Batch #...: 6131331						
Mercury	**0.013 B**	**0.12**	**ug**	**SW846 7471A**	**05/10-05/11/06**	**H342Q1AE**
		Dilution Factor: 1		MDL.....: 0.00036		

NOTE(S):

B Estimated result. Result is less than RL.

QC DATA ASSOCIATION SUMMARY

G6D260252

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
002	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
003	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
004	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
005	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
006	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
007	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
008	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
009	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
010	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	
011	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	

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QC DATA ASSOCIATION SUMMARY

G6D260252

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
012	AIR	SW846 6020		6124580	
	AIR	SW846 7471A		6131331	
	AIR	SW846 6010B		6124594	

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6D260252 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: G6E040000-580 **Prep Batch #...:** 6124580						
Arsenic	ND	3.6	ug	SW846 6020	05/05-05/15/06	H4Q291AC
		Dilution Factor: 1				
Barium	ND	120	ug	SW846 6020	05/05-05/15/06	H4Q291AD
		Dilution Factor: 1				
Beryllium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H4Q291AE
		Dilution Factor: 1				
Cadmium	ND	1.2	ug	SW846 6020	05/05-05/15/06	H4Q291AF
		Dilution Factor: 1				
Chromium	ND	12.0	ug	SW846 6020	05/05-05/16/06	H4Q291AH
		Dilution Factor: 1				
Cobalt	ND	12.0	ug	SW846 6020	05/05-05/15/06	H4Q291AG
		Dilution Factor: 1				
Copper	ND	6.0	ug	SW846 6020	05/05-05/15/06	H4Q291AJ
		Dilution Factor: 1				
Lead	ND	1.2	ug	SW846 6020	05/05-05/15/06	H4Q291AN
		Dilution Factor: 1				
Manganese	ND	6.0	ug	SW846 6020	05/05-05/15/06	H4Q291AK
		Dilution Factor: 1				
Molybdenum	ND	6.0	ug	SW846 6020	05/05-05/15/06	H4Q291AL
		Dilution Factor: 1				
Nickel	ND	6.0	ug	SW846 6020	05/05-05/15/06	H4Q291AM
		Dilution Factor: 1				
Selenium	ND	3.6	ug	SW846 6020	05/05-05/15/06	H4Q291AP
		Dilution Factor: 1				
Silver	ND	1.2	ug	SW846 6020	05/05-05/15/06	H4Q291AA
		Dilution Factor: 1				
Vanadium	ND	12.0	ug	SW846 6020	05/05-05/15/06	H4Q291AQ
		Dilution Factor: 1				
Zinc	ND	24.0	ug	SW846 6020	05/05-05/15/06	H4Q291AR
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: G6D260252 **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: G6E040000-594 **Prep Batch #...:** 6124594						
Aluminum	ND	240	ug	SW846 6010B	05/05-05/11/06	H4Q3J1AA
		Dilution Factor: 1				
Calcium	ND	3000	ug	SW846 6010B	05/05-05/11/06	H4Q3J1AC
		Dilution Factor: 1				
Iron	ND	120	ug	SW846 6010B	05/05-05/11/06	H4Q3J1AD
		Dilution Factor: 1				
Magnesium	ND	600	ug	SW846 6010B	05/05-05/11/06	H4Q3J1AE
		Dilution Factor: 1				
Sodium	ND	6000	ug	SW846 6010B	05/05-05/11/06	H4Q3J1AF
		Dilution Factor: 1				
MB Lot-Sample #: G6E110000-331 **Prep Batch #...:** 6131331						
Mercury	ND	0.12	ug	SW846 7471A	05/10-05/11/06	H46T11AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Arsenic	240	219	ug	91		SW846 6020	05/05-05/15/06	6124580
	240	221	ug	92	0.89	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Barium	240	241	ug	100		SW846 6020	05/05-05/15/06	6124580
	240	238	ug	99	1.4	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Beryllium	240	216	ug	90		SW846 6020	05/05-05/15/06	6124580
	240	219	ug	91	1.3	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Cadmium	240	227	ug	95		SW846 6020	05/05-05/15/06	6124580
	240	227	ug	95	0.05	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Chromium	240	256	ug	107		SW846 6020	05/05-05/16/06	6124580
	240	258	ug	108	0.93	SW846 6020	05/05-05/16/06	6124580
			Dilution Factor: 1					
Cobalt	240	236	ug	98		SW846 6020	05/05-05/15/06	6124580
	240	240	ug	100	1.6	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Copper	240	232	ug	97		SW846 6020	05/05-05/15/06	6124580
	240	233	ug	97	0.57	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Lead	240	245	ug	102		SW846 6020	05/05-05/15/06	6124580
	240	247	ug	103	0.48	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Manganese	240	229	ug	95		SW846 6020	05/05-05/15/06	6124580
	240	229	ug	95	0.08	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Molybdenum	240	238	ug	99		SW846 6020	05/05-05/15/06	6124580
	240	241	ug	100	1.1	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nickel	240	233	ug	97		SW846 6020	05/05-05/15/06	6124580
	240	233	ug	97	0.04	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Selenium	240	219	ug	91		SW846 6020	05/05-05/15/06	6124580
	240	218	ug	91	0.45	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Silver	60.0	58.0	ug	97		SW846 6020	05/05-05/15/06	6124580
	60.0	57.8	ug	96	0.37	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Vanadium	240	223	ug	93		SW846 6020	05/05-05/15/06	6124580
	240	227	ug	95	1.9	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Zinc	240	220	ug	92		SW846 6020	05/05-05/15/06	6124580
	240	224	ug	93	1.8	SW846 6020	05/05-05/15/06	6124580
			Dilution Factor: 1					
Aluminum	2400	2330	ug	97		SW846 6010B	05/05-05/11/06	6124594
	2400	2360	ug	98	1.1	SW846 6010B	05/05-05/11/06	6124594
			Dilution Factor: 1					
Calcium	60000	56100	ug	94		SW846 6010B	05/05-05/11/06	6124594
	60000	57000	ug	95	1.4	SW846 6010B	05/05-05/11/06	6124594
			Dilution Factor: 1					
Iron	1200	1190	ug	99		SW846 6010B	05/05-05/11/06	6124594
	1200	1200	ug	100	0.46	SW846 6010B	05/05-05/11/06	6124594
			Dilution Factor: 1					
Magnesium	60000	56600	ug	94		SW846 6010B	05/05-05/11/06	6124594
	60000	57400	ug	96	1.4	SW846 6010B	05/05-05/11/06	6124594
			Dilution Factor: 1					
Sodium	60000	54300	ug	91		SW846 6010B	05/05-05/11/06	6124594
	60000	55300	ug	92	1.8	SW846 6010B	05/05-05/11/06	6124594
			Dilution Factor: 1					

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Mercury	0.600	0.598	ug	100		SW846 7471A	05/10-05/11/06	6131331
	0.600	0.606	ug	101	1.3	SW846 7471A	05/10-05/11/06	6131331

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Arsenic	91	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	92	(75 - 125)	0.89	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Barium	100	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	99	(75 - 125)	1.4	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Beryllium	90	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	91	(75 - 125)	1.3	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Cadmium	95	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	95	(75 - 125)	0.05	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Chromium	107	(75 - 125)			SW846 6020	05/05-05/16/06	6124580
	108	(75 - 125)	0.93	(0-20)	SW846 6020	05/05-05/16/06	6124580
		Dilution Factor: 1					
Cobalt	98	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	100	(75 - 125)	1.6	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Copper	97	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	97	(75 - 125)	0.57	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Lead	102	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	103	(75 - 125)	0.48	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Manganese	95	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	95	(75 - 125)	0.08	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Molybdenum	99	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	100	(75 - 125)	1.1	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 **Matrix.....:** AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Nickel	97	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	97	(75 - 125)	0.04	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Selenium	91	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	91	(75 - 125)	0.45	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Silver	97	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	96	(75 - 125)	0.37	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Vanadium	93	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	95	(75 - 125)	1.9	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Zinc	92	(75 - 125)			SW846 6020	05/05-05/15/06	6124580
	93	(75 - 125)	1.8	(0-20)	SW846 6020	05/05-05/15/06	6124580
		Dilution Factor: 1					
Aluminum	97	(75 - 125)			SW846 6010B	05/05-05/11/06	6124594
	98	(75 - 125)	1.1	(0-20)	SW846 6010B	05/05-05/11/06	6124594
		Dilution Factor: 1					
Calcium	94	(75 - 125)			SW846 6010B	05/05-05/11/06	6124594
	95	(75 - 125)	1.4	(0-20)	SW846 6010B	05/05-05/11/06	6124594
		Dilution Factor: 1					
Iron	99	(75 - 125)			SW846 6010B	05/05-05/11/06	6124594
	100	(75 - 125)	0.46	(0-20)	SW846 6010B	05/05-05/11/06	6124594
		Dilution Factor: 1					
Magnesium	94	(75 - 125)			SW846 6010B	05/05-05/11/06	6124594
	96	(75 - 125)	1.4	(0-20)	SW846 6010B	05/05-05/11/06	6124594
		Dilution Factor: 1					
Sodium	91	(75 - 125)			SW846 6010B	05/05-05/11/06	6124594
	92	(75 - 125)	1.8	(0-20)	SW846 6010B	05/05-05/11/06	6124594
		Dilution Factor: 1					

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Lot-Sample #...: G6D260252 Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP-BATCH #
Mercury	100	(75 - 125)			SW846 7471A	05/10-05/11/06	6131331
	101	(75 - 125)	1.3	(0-20)	SW846 7471A	05/10-05/11/06	6131331

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

AIR, PM-10 & TSP

Brown and Caldwell

Client Sample ID: P-0598

General Chemistry

Lot-Sample #...: G6D260252-001 **Work Order #...:** H341E **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	**0.0029**	**0.0001**	**g**	**CFR50J APDX J**	**05/01-05/04/06**	**6125458**

Brown and Caldwell

Client Sample ID: P-0599

General Chemistry

Lot-Sample #...: G6D260252-002 **Work Order #...:** H341Q **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	**0.0036**	**0.0001**	**g**	**CFR50J APDX J**	**05/01-05/04/06**	**6125458**

Brown and Caldwell

Client Sample ID: P-0600

General Chemistry

Lot-Sample #...: G6D260252-003 Work Order #...: H341V Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0043	0.0001	g	CFR50J APDX J	05/01-05/02/06	6125458

Brown and Caldwell

Client Sample ID: P-0601

General Chemistry

Lot-Sample #...: G6D260252-004 Work Order #...: H3413 Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0044	0.0001	g	CFR50J APDX J	05/01-05/03/06	6125458

Brown and Caldwell

Client Sample ID: P-0602

General Chemistry

Lot-Sample #...: G6D260252-005 Work Order #...: H3414 Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0013	0.0001	g	CFR50J APDX J	05/01-05/03/06	6125458

Brown and Caldwell

Client Sample ID: P-0603

General Chemistry

Lot-Sample #...: G6D260252-006 Work Order #...: H3416 Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	0.0029	0.0001	g	CFR50J APDX J	05/01-05/03/06	6125458

Brown and Caldwell

Client Sample ID: P-0605

General Chemistry

Lot-Sample #...: G6D260252-007 **Work Order #...:** H3417 **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Particulate Matter as PM10	ND	0.0001	g	CFR50J APDX J	05/01-05/02/06	6125458

Brown and Caldwell

Client Sample ID: 000431

General Chemistry

Lot-Sample #...: G6D260252-008 Work Order #...: H342E Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0122	0.0001	g	CFR50B APDX B	05/01-05/02/06	6125457

Brown and Caldwell

Client Sample ID: 000432

General Chemistry

Lot-Sample #...: G6D260252-009 **Work Order #...:** H342L **Matrix.....:** AIR
Date Sampled...: 04/20/06 **Date Received..:** 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0172	0.0001	g	CFR50B APDX B	05/01-05/02/06	6125457

Brown and Caldwell

Client Sample ID: 000433

General Chemistry

Lot-Sample #...: G6D260252-010 Work Order #...: H342M Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0239	0.0001	g	CFR50B APDX B	05/01-05/02/06	6125457

Brown and Caldwell

Client Sample ID: 000434

General Chemistry

Lot-Sample #...: G6D260252-011 Work Order #...: H342P Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0184	0.0001	g	CFR50B APDX B	05/01-05/02/06	6125457

Brown and Caldwell

Client Sample ID: 000435

General Chemistry

Lot-Sample #...: G6D260252-012 Work Order #...: H342Q Matrix.....: AIR
Date Sampled...: 04/20/06 Date Received..: 04/26/06

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Suspended Particulates	0.0170	0.0001	g	CFR50B APDX B	05/01-05/02/06	6125457

AIR, Metals – Various Methods

Raw Data Package

ICP

G6D260252

STL Sacramento

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 05/12/06 13:44:14

File ID: MAY1106AX.csv **Analyst: WONGA**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Calib_Blank_				1.0	05/11/06 12:21		☐
2	Calib_Std_1				1.0	05/11/06 12:25		☐
3	Calib Std 2				1.0	05/11/06 12:27		☐
4	ICV4				1.0	05/11/06 12:30		☐
5	ICB				1.0	05/11/06 12:32		☐
6	PQL				1.0	05/11/06 12:36		☐
7	ICSA				1.0	05/11/06 12:39		☐
8	ICSAB_4.0				1.0	05/11/06 12:42		☐
9	FB1815158				1.0	05/11/06 12:48		☐
10	H4Q4HB	G6E040000	6124611	2A	1.0	05/11/06 12:52		☐
11	H4Q4HC	G6E040000	6124611	2A	1.0	05/11/06 12:55		☐
12	H4Q4HL	G6E040000	6124611	2A	1.0	05/11/06 12:58		☐
13	H4HK9	G6E020171-1	6124611	2A	1.0	05/11/06 13:02		☐
14	H4HK9P5	G6E020171	6124611		5.0	05/11/06 13:05		☐
15	H4HK9Z	G6E020171-1	6124611		1.0	05/11/06 13:09		☐
16	CCV				1.0	05/11/06 13:13		☐
17	CCB				1.0	05/11/06 13:15		☐
18	H4HLD	G6E020171-2	6124611	2A	1.0	05/11/06 13:18		☐
19	H4HLH	G6E020171-3	6124611	2A	1.0	05/11/06 13:22		☐
20	H4HLN	G6E020171-4	6124611	2A	1.0	05/11/06 13:26		☐
21	H4HLV	G6E020171-5	6124611	2A	1.0	05/11/06 13:29		☐
22	H4HLX	G6E020171-6	6124611	2A	1.0	05/11/06 13:33		☐
23	H4HL1	G6E020171-7	6124611	2A	1.0	05/11/06 13:36		☐
24	H4HL2	G6E020171-8	6124611	2A	1.0	05/11/06 13:40		☐
25	H4HL3	G6E020171-9	6124611	2A	1.0	05/11/06 13:44		☐
26	H4HL6	G6E020171-10	6124611	2A	1.0	05/11/06 13:47		☐
27	H4HL7	G6E020171-11	6124611	2A	1.0	05/11/06 13:51		☐
28	CCV				1.0	05/11/06 13:54		☐
29	CCB				1.0	05/11/06 13:57		☐
30	H4HL8	G6E020171-12	6124611	2A	1.0	05/11/06 14:00		☐
31	H4HL9	G6E020171-13	6124611	2A	1.0	05/11/06 14:04		☐
32	H4HMA	G6E020171-14	6124611	2A	1.0	05/11/06 14:07		☐
33	H4HMD	G6E020171-15	6124611	2A	1.0	05/11/06 14:11		☐
34	FB1685532				1.0	05/11/06 14:15		☐
35	FB1815158				1.0	05/11/06 14:18		☐
36	ZZZZZ				1.0	05/11/06 14:22		☐
37	H4Q3JC	G6E040000	6124594	2A	1.0	05/11/06 14:25		☐
38	H4Q3JL	G6E040000	6124594	2A	1.0	05/11/06 14:28		☐
39	CCV				1.0	05/11/06 14:32		☐
40	CCB				1.0	05/11/06 14:34		☐
41	H341E	G6D260252-1	6124594	2A	1.0	05/11/06 14:38		☐
42	H341EP5	G6D260252	6124594		5.0	05/11/06 14:41		☐
43	H341EZ	G6D260252-1	6124594		1.0	05/11/06 14:45		☐
44	H341Q	G6D260252-2	6124594	2A	1.0	05/11/06 14:49		☐
45	H341V	G6D260252-3	6124594	2A	1.0	05/11/06 14:52		☐
46	H3413	G6D260252-4	6124594	2A	1.0	05/11/06 14:56		☐

STL Sacramento

RUN SUMMARY

Method: 6010 | PE ICP2 (P05) | Reported: 05/12/06 13:44:14

File ID: MAY1106AX.csv **Analyst: WONGA**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
47	H3414	G6D260252-5	6124594	2A	1.0	05/11/06 14:59		☐
48	H3416	G6D260252-6	6124594	2A	1.0	05/11/06 15:03		☐
49	H3417	G6D260252-7	6124594	2A	1.0	05/11/06 15:06		☐
50	H342E	G6D260252-8	6124594	2A	1.0	05/11/06 15:10		☐
51	CCV				1.0	05/11/06 15:14		☐
52	CCB				1.0	05/11/06 15:16		☐
53	H342L	G6D260252-9	6124594	2A	1.0	05/11/06 15:20		☐
54	H342M	G6D260252-10	6124594	2A	1.0	05/11/06 15:23		☐
55	H342P	G6D260252-11	6124594	2A	1.0	05/11/06 15:27		☐
56	H342Q	G6D260252-12	6124594	2A	1.0	05/11/06 15:31		☐
57	H4Q3JB	G6E040000	6124594	2A	1.0	05/11/06 15:35		☐
58	CCV				1.0	05/11/06 15:38		☐
59	CCB				1.0	05/11/06 15:41		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6010 () | PE ICP2 (P05) | Reported: 05/12/06 13:44:14

File ID: MAY1106AX.csv **Analyst: WONGA**

#	Sample ID	Analyzed Date	In Axial	In Radial	Sc Axial	Sc Radial	Y_ Axial	Y_ Radial	Q
1	Calib_Blank_	05/11/06 12:21	0.0	0.0	0.0	0.0	0.0	0.0	☑
2	Calib Std 1	05/11/06 12:25	0.0	0.0	0.0	0.0	0.0	0.0	☑
3	Calib Std 2	05/11/06 12:27	0.0	0.0	0.0	0.0	0.0	0.0	☑
4	ICV4	05/11/06 12:30	99.9	95.1	100.0	98.9	98.7	94.6	☑
5	ICB	05/11/06 12:32	102.5	99.9	101.9	99.6	102.1	100.1	☑
6	PQL	05/11/06 12:36	100.7	99.1	100.1	100.5	100.2	100.5	☑
7	ICSA	05/11/06 12:39	83.6	85.6	87.3	91.4	86.2	88.3	☑
8	ICSAB_4.0	05/11/06 12:42	83.5	86.5	86.7	90.1	85.7	88.7	☑
9	FB1815158	05/11/06 12:48	104.8	102.3	103.7	99.9	103.6	100.1	☑
10	H4Q4HB	05/11/06 12:52	104.6	101.7	103.5	102.1	103.4	102.2	☑
11	H4Q4HC	05/11/06 12:55	98.1	98.8	98.1	97.7	96.7	96.5	☑
12	H4Q4HL	05/11/06 12:58	97.8	98.7	99.1	99.3	97.6	97.8	☑
13	H4HK9	05/11/06 13:02	104.7	102.2	103.9	101.9	103.6	102.0	☑
14	H4HK9P5	05/11/06 13:05	103.1	102.0	102.3	100.5	102.1	100.6	☑
15	H4HK9Z	05/11/06 13:09	99.6	98.8	97.7	99.6	96.2	98.2	☑
16	CCV	05/11/06 13:13	97.2	97.5	98.9	98.3	96.9	97.3	☑
17	CCB	05/11/06 13:15	104.2	101.6	103.5	101.7	103.7	102.0	☑
18	H4HLD	05/11/06 13:18	106.3	103.5	105.2	103.1	105.1	103.1	☑
19	H4HLH	05/11/06 13:22	104.3	103.9	103.3	102.4	102.9	102.5	☑
20	H4HLN	05/11/06 13:26	103.7	103.2	103.1	102.1	102.8	102.1	☑
21	H4HLV	05/11/06 13:29	106.5	103.6	105.1	104.0	104.7	103.9	☑
22	H4HLX	05/11/06 13:33	106.2	103.2	105.2	104.3	105.1	104.3	☑
23	H4HL1	05/11/06 13:36	105.8	103.4	104.9	102.0	104.5	102.0	☑
24	H4HL2	05/11/06 13:40	106.1	103.0	105.0	102.0	104.7	102.0	☑
25	H4HL3	05/11/06 13:44	105.2	103.1	104.0	104.0	103.7	104.0	☑
26	H4HL6	05/11/06 13:47	104.4	102.9	103.6	102.0	103.3	102.0	☑
27	H4HL7	05/11/06 13:51	107.0	103.0	105.7	102.8	105.4	102.7	☑
28	CCV	05/11/06 13:54	96.2	96.4	100.1	97.3	95.7	96.3	☑
29	CCB	05/11/06 13:57	103.2	101.3	102.6	101.7	102.7	101.9	☑
30	H4HL8	05/11/06 14:00	104.0	102.3	102.8	102.4	102.6	102.4	☑
31	H4HL9	05/11/06 14:04	105.7	103.1	104.5	103.0	104.3	102.8	☑
32	H4HMA	05/11/06 14:07	104.6	102.7	103.8	102.1	103.4	102.1	☑
33	H4HMD	05/11/06 14:11	106.7	102.7	105.3	104.5	104.9	104.5	☑
34	FB1685532	05/11/06 14:15	104.0	102.0	103.0	98.2	102.7	98.3	☑
35	FB1815158	05/11/06 14:18	105.9	102.5	104.8	101.8	104.6	101.9	☑
36	ZZZZZ	05/11/06 14:22	104.0	102.5	103.4	101.9	103.2	102.0	☑
37	H4Q3JC	05/11/06 14:25	98.2	98.3	98.1	99.3	96.7	98.0	☑
38	H4Q3JL	05/11/06 14:28	98.6	98.8	98.1	99.4	96.5	98.0	☑
39	CCV	05/11/06 14:32	98.9	97.0	99.2	98.0	97.9	97.1	☑
40	CCB	05/11/06 14:34	102.5	100.2	101.5	101.7	101.6	102.1	☑
41	H341E	05/11/06 14:38	105.7	101.9	104.3	102.6	104.0	102.6	☑
42	H341EP5	05/11/06 14:41	105.9	100.8	104.8	98.7	104.8	98.8	☑
43	H341EZ	05/11/06 14:45	97.8	98.6	99.0	98.6	97.4	97.2	☑
44	H341Q	05/11/06 14:49	104.5	101.9	103.5	102.2	103.1	102.2	☑
45	H341V	05/11/06 14:52	104.9	101.7	103.7	102.4	103.2	102.3	☑
46	H3413	05/11/06 14:56	103.0	102.0	101.8	99.8	101.5	99.6	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6010 () PE ICP2 (P05) Reported: 05/12/06 13:44:14

File ID: MAY1106AX.csv **Analyst: WONGA**

#	Sample ID	Analyzed Date	In Axial	In Radial	Sc Axial	Sc Radial	Y_ Axial	Y_ Radial	Q
47	H3414	05/11/06 14:59	105.2	102.2	103.9	102.2	103.6	102.0	☑
48	H3416	05/11/06 15:03	105.8	101.9	104.6	103.3	104.1	103.1	☑
49	H3417	05/11/06 15:06	105.5	101.7	104.4	101.2	104.0	101.1	☑
50	H342E	05/11/06 15:10	106.2	103.0	104.9	104.0	104.6	104.0	☑
51	CCV	05/11/06 15:14	97.4	95.4	98.7	97.0	96.6	96.1	☑
52	CCB	05/11/06 15:16	105.6	101.0	104.9	99.8	105.0	99.9	☑
53	H342L	05/11/06 15:20	106.5	102.1	105.2	104.7	104.9	104.7	☑
54	H342M	05/11/06 15:23	104.5	102.6	103.2	103.3	102.7	103.0	☑
55	H342P	05/11/06 15:27	105.5	102.3	104.0	103.2	103.5	103.0	☑
56	H342Q	05/11/06 15:31	103.9	102.0	102.7	102.9	102.2	102.7	☑
57	H4Q3JB	05/11/06 15:35	105.2	102.0	104.1	102.2	103.9	102.4	☑
58	CCV	05/11/06 15:38	97.4	96.2	97.1	98.1	96.4	97.0	☑
59	CCB	05/11/06 15:41	105.0	100.9	104.2	101.1	104.3	101.2	☑

STL Sacramento

ICP Data Review Checklist

SEVERN TRENT STL

Run/Project Information:

Run Date: 05/11/06 Analyst: ANONG Instrument: P05

Prep Batches Run: 6124611, 6124594

Circle Method used: 6010B / 200.7: SAC-MT-0003 Rev. 2.0

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2nd Level
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels ?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits ? (6010B, CLP = 90 - 110%, 200.7 = 95 -105%[ICV])	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL or +/- CRDL (CLP) ?	✓			✓
4. CRI analyzed? (for CLP only)	✓			✓
5. ICSA/ICSAB run at required frequency and within SOP limits ?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the linear range for any parameter diluted and reanalyzed ?			✓	✓
2. All reported results bracketed by in control QC ?	✓			✓
3. Sample analyses done within holding time ?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits ?	✓			✓
2. Method blank done per prep batch and < RL or CRDL (CLP) ?	✓			✓
3. MS run at required frequency and within limits ?			✓	✓
4. MSD or DU run at required frequency and RPD within SOP limits ?			✓	✓
5. Dilution Test done per prep batch (or per SDG for CLP) ?	✓			✓
6. Post digest spike analyzed if required (CLP only) ?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately ?			✓	✓
2. Current IDL/LR/IEC data on file ?	✓			✓
3. Calculations checked for error ?	✓			✓
4. Transcriptions checked for error ?	✓			✓
5. All client/project specific requirements met ?	✓			✓
6. Date/time of analysis verified as correct ?	✓			✓

Analyst: Anong Date: 05/12/06

Comments:

2nd Level Reviewer : MTZ Date: 5/16/06

Comments:

STL Sacramento

Method 6010B Instrument QC Standards

SEVERN TRENT SERVICES

Chemist: AWong

Run Date: 05/11/06

Type of Analysis: Trace ICP (AirTox)

Instrument ID: P05

Standard Expiration Dates Verified: 05/11/06

Standard Name	Standard Logbook ID
STD0 (Cal Blank) / ICB / CCB	2409-48-6
STD1 (Cal Std 1)	2680-11
STD2 (Cal Std 2)	2680-12
STD3 (Cal Std 3)	NA
STD4 (Cal Std 4)	NA
ICV	2680-42
ICV2	NA
PQLCRI	1750-017-12
ICSA	2680-14
ICSAB	2680-15
CCV	2680-13
Internal Standard	2696-15-4

QA – 416
ERS 2/1/01

5/11/2006 12:10:57 PM Hg ReAlign... Actual peak offset (nm): -0.008
Drift (nm): 0.000 Slit adjustment: 0

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	364985.5
-1.6	15.0	536838.0
-1.2	15.0	732831.5
-0.8	15.0	943564.6
-0.4	15.0	1088864.5
0.0	15.0	1201650.4
0.4	15.0	1242685.0
0.8	15.0	1158748.5
1.2	15.0	979894.3
1.6	15.0	762581.7
2.0	15.0	599278.2
0.4	10.0	5019.4
0.4	10.5	30744.4
0.4	11.0	63400.3
0.4	11.5	104906.1
0.4	12.0	162180.1
0.4	12.5	364529.0
0.4	13.0	520736.5
0.4	13.5	694513.8
0.4	14.0	888194.1
0.4	14.5	1148821.3
0.4	15.0	1171852.4
0.4	15.5	1186138.5
0.4	16.0	1091820.9
0.4	16.5	788823.7
0.4	17.0	594121.0
0.4	17.5	443740.6
0.4	18.0	307759.6
0.4	18.5	217614.8
0.4	19.0	93359.9
0.4	19.5	52149.7
0.4	20.0	21343.1
-0.4	15.5	1046397.1
0.0	15.5	1177302.5
0.4	15.5	1182429.3
0.8	15.5	1102620.8
1.2	15.5	939338.4
0.4	13.5	744768.1
0.4	14.0	911812.8
0.4	14.5	1167765.5
0.4	15.0	1184693.9
0.4	15.5	1200146.2
0.4	16.0	1089073.5
0.4	16.5	783490.1
0.4	17.0	589310.8
0.4	17.5	426345.6

5/11/2006 12:12:52 PM aligned for analyte Mn 257.610
X viewing position set to 0.4 mm having Peak intensity 1200146.2 for Axial viewing
Y viewing position set to 15.5 mm having Peak intensity 1200146.2 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	137.7
-6.5	15.0	191.6
-6.0	15.0	288.2
-5.5	15.0	412.7
-5.0	15.0	679.2

-4.5	15.0	1390.2
-4.0	15.0	2997.4
-3.5	15.0	5919.9
-3.0	15.0	10222.8
-2.5	15.0	16945.0
-2.0	15.0	28257.9
-1.5	15.0	44102.1
-1.0	15.0	64011.1
-0.5	15.0	85324.2
0.0	15.0	109507.6
0.5	15.0	105935.8
1.0	15.0	94017.5
1.5	15.0	80442.7
2.0	15.0	57611.3
2.5	15.0	39878.4
3.0	15.0	21652.1
3.5	15.0	9440.2
4.0	15.0	3335.2
4.5	15.0	2829.3
5.0	15.0	1340.1
5.5	15.0	626.9
6.0	15.0	322.5
6.5	15.0	208.1
7.0	15.0	166.0

5/11/2006 12:14:45 PM aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 109507.6 for Radial viewing

Sequence No.: 1
Sample ID: Calib_Blank_1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 12:21:42 PM
Data Type: Reprocessed on 5/12/2006 7:32:15 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Blank_1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	378660.9	5164.48	1.36%	100.00	%
In Radial	20388.2	105.98	0.52%	100.00	%
Y_ Axial	1647391.8	22727.93	1.38%	100.00	%
Y_ Radial	150740.0	3259.93	2.16%	100.00	%
Sc Axial	1846190.4	27146.19	1.47%	100.00	%
Sc Radial	173077.6	3811.71	2.20%	100.00	%
Al_1 396.153 R†	-216.7	6.86	3.17%	[0.00]	mg/L
Al_2 308.215 R†	81.8	21.36	26.12%	[0.00]	mg/L
Ca 315.887 R†	-322.6	15.91	4.93%	[0.00]	mg/L
Fe_1 273.955†	29.8	15.17	50.94%	[0.00]	mg/L
Fe_2 238.863 R†	52.8	5.12	9.69%	[0.00]	mg/L
Mg 279.077 R†	-147.0	10.33	7.03%	[0.00]	mg/L
Na_1 589.592 R†	291.0	103.29	35.50%	[0.00]	mg/L
Na_2 330.237 R†	79.7	17.69	22.18%	[0.00]	mg/L
Zn 206.200†	35.2	2.48	7.06%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib_Std_1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 5/11/2006 12:25:24 PM
Data Type: Reprocessed on 5/12/2006 7:32:20 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	351363.7	8304.14	2.36%	92.791	%
In Radial	18832.1	24.14	0.13%	92.368	%
Y_ Axial	1543115.8	34758.36	2.25%	93.670	%
Y_ Radial	141441.2	249.67	0.18%	93.831	%
Sc Axial	1756977.7	40863.46	2.33%	95.168	%
Sc Radial	164284.5	163.09	0.10%	94.920	%
Al_1 396.153 R†	519248.3	3123.19	0.60%	[50]	mg/L
Al_2 308.215 R†	135085.8	293.59	0.22%	[50]	mg/L
Ca 315.887 R†	890032.1	4611.69	0.52%	[50]	mg/L
Fe_1 273.955†	2464821.9	5213.48	0.21%	[50]	mg/L
Fe_2 238.863 R†	54447.2	65.85	0.12%	[50]	mg/L
Mg 279.077 R†	113096.4	67.71	0.06%	[50]	mg/L
Na_1 589.592 R†	553591.2	1618.31	0.29%	[50]	mg/L
Na_2 330.237 R†	3743.7	81.25	2.17%	[50]	mg/L
Zn 206.200†	156957.4	1100.35	0.70%	[5.0]	mg/L

Sequence No.: 3
Sample ID: Calib_Std_2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 5/11/2006 12:27:41 PM
Data Type: Reprocessed on 5/12/2006 7:32:38 AM
Initial Sample Vol:
Sample Prep Vol:

Mean Data: Calib_Std_2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
In Axial	313995.7	1489.43	0.47%	82.923	%
In Radial	17905.5	320.13	1.79%	87.823	%
Y_ Axial	1425973.1	7197.31	0.50%	86.559	%
Y_ Radial	136206.8	1994.64	1.46%	90.359	%
Sc Axial	1626935.7	7874.91	0.48%	88.124	%
Sc Radial	159244.4	968.01	0.61%	92.008	%
Al_2 308.215 R†	687662.6	16914.57	2.46%	[250]	mg/L
Ca_315.887 R†	4379769.0	97327.50	2.22%	[250]	mg/L
Fe_2 238.863 R†	274608.0	5898.23	2.15%	[250]	mg/L
Mg_279.077 R†	564991.2	12177.31	2.16%	[250]	mg/L
Na_1 589.592 R†	2795637.1	58198.85	2.08%	[250]	mg/L
Na_2 330.237 R†	17430.8	102.18	0.59%	[250]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al_1 396.153 R	1	Lin Thru 0	0.0	10380	0.00000	1.000000	
Al_2 308.215 R	2	Lin Thru 0	0.0	2749	0.00000	0.999994	
Ca_315.887 R	2	Lin Thru 0	0.0	17530	0.00000	0.999995	
Fe_1 273.955	1	Lin Thru 0	0.0	49300	0.00000	1.000000	
Fe_2 238.863 R	2	Lin Thru 0	0.0	1098	0.00000	0.999999	
Mg_279.077 R	2	Lin Thru 0	0.0	2260	0.00000	1.000000	
Na_1 589.592 R	2	Lin Thru 0	0.0	11180	0.00000	0.999998	
Na_2 330.237 R	2	Lin Thru 0	0.0	69.92	0.00000	0.999900	
Zn_206.200	1	Lin Thru 0	0.0	31390	0.00000	1.000000	

Sequence No.: 4
Sample ID: ICV4
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 5/11/2006 12:30:05 PM
Data Type: Reprocessed on 5/12/2006 7:32:39 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICV4

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	378387.4	99.928	%	0.9173				0.92%
In Radial	19389.5	95.101	%	3.3118				3.48%
Y_ Axial	1626367.4	98.724	%	0.8833				0.89%
Y_ Radial	142529.2	94.553	%	2.7372				2.89%
Sc Axial	1846676.3	100.03	%	0.848				0.85%
Sc Radial	171257.0	98.948	%	1.8949				1.92%
Al_1 396.153 R†	105678.6	10.176	mg/L	0.1235	10.176	mg/L	0.1235	1.21%
Al_2 308.215 R†	26774.1	9.7404	mg/L	0.03777	9.7404	mg/L	0.03777	0.39%
Ca_315.887 R†	172782.6	9.8564	mg/L	0.04704	9.8564	mg/L	0.04704	0.48%
Fe_1 273.955†	492849.2	9.9977	mg/L	0.18632	9.9977	mg/L	0.18632	1.86%
Fe_2 238.863 R†	10876.2	9.9049	mg/L	0.00639	9.9049	mg/L	0.00639	0.06%
Mg_279.077 R†	22369.8	9.8980	mg/L	0.06972	9.8980	mg/L	0.06972	0.70%
Na_1 589.592 R†	112552.9	10.069	mg/L	0.1392	10.069	mg/L	0.1392	1.38%
Na_2 330.237 R†	744.0	10.075	mg/L	1.4652	10.075	mg/L	1.4652	14.54%
Zn_206.200†	30777.1	0.98043	mg/L	0.017758	0.98043	mg/L	0.017758	1.81%

Sequence No.: 5
Sample ID: ICB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 5/11/2006 12:32:28 PM
Data Type: Reprocessed on 5/12/2006 7:32:40 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	388302.4	102.55	%	0.468				0.46%
In Radial	20362.6	99.874	%	0.6885				0.69%
Y_ Axial	1681384.4	102.06	%	0.368				0.36%
Y_ Radial	150828.0	100.06	%	1.369				1.37%
Sc Axial	1881408.4	101.91	%	0.399				0.39%
Sc Radial	172457.8	99.642	%	1.4891				1.49%
Al_1 396.153 R†	47.2	0.00455	mg/L	0.007234	0.00455	mg/L	0.007234	158.99%
Al_2 308.215 R†	16.5	0.00601	mg/L	0.006410	0.00601	mg/L	0.006410	106.64%
Ca_315.887 R†	104.0	0.00593	mg/L	0.001917	0.00593	mg/L	0.001917	32.31%
Fe_1 273.955†	397.1	0.00805	mg/L	0.000485	0.00805	mg/L	0.000485	6.02%
Fe_2 238.863 R†	13.3	0.01211	mg/L	0.011554	0.01211	mg/L	0.011554	95.43%
Mg_279.077 R†	-7.5	-0.00330	mg/L	0.003850	-0.00330	mg/L	0.003850	116.68%
Na_1 589.592 R†	805.4	0.07205	mg/L	0.005596	0.07205	mg/L	0.005596	7.77%
Na_2 330.237 R†	22.4	0.31987	mg/L	0.386877	0.31987	mg/L	0.386877	120.95%
Zn_206.200†	20.4	0.00065	mg/L	0.000269	0.00065	mg/L	0.000269	41.42%

Sequence No.: 6
Sample ID: PQL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 5/11/2006 12:36:04 PM
Data Type: Reprocessed on 5/12/2006 7:32:42 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	381182.5	100.67	%	1.483				1.47%
In Radial	20203.0	99.092	%	0.9690				0.98%
Y_ Axial	1650055.4	100.16	%	1.460				1.46%
Y_ Radial	151530.3	100.52	%	0.134				0.13%
Sc Axial	1847840.3	100.09	%	1.350				1.35%
Sc Radial	173913.7	100.48	%	0.117				0.12%
Al_1 396.153 R†	1131.4	0.10894	mg/L	0.006061	130.78	mg/L	7.276	5.56%
Al_2 308.215 R†	271.3	0.09869	mg/L	0.009075	118.48	mg/L	10.894	9.19%
Ca 315.887 R†	1694.4	0.09665	mg/L	0.002028	116.03	mg/L	2.435	2.10%
Fe_1 273.955†	2536.0	0.05144	mg/L	0.000285	61.758	mg/L	0.3424	0.55%
Fe_2 238.863 R†	57.9	0.05275	mg/L	0.003385	63.323	mg/L	4.0631	6.42%
Mg 279.077 R†	230.3	0.10189	mg/L	0.010518	122.31	mg/L	12.627	10.32%
Na_1 589.592 R†	3426.6	0.30654	mg/L	0.005323	368.00	mg/L	6.390	1.74%
Na_2 330.237 R†	6.4	0.08680	mg/L	0.002162	104.21	mg/L	2.595	2.49%
Zn 206.200†	214.4	0.00683	mg/L	0.000299	8.2005	mg/L	0.35941	4.38%

Sequence No.: 7
Sample ID: ICSA
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 5/11/2006 12:39:40 PM
Data Type: Reprocessed on 5/12/2006 7:32:43 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	316554.7	83.598	%	0.4310				0.52%
In Radial	17447.0	85.574	%	0.5962				0.70%
Y_ Axial	1419665.6	86.177	%	0.4937				0.57%
Y_ Radial	133162.9	88.339	%	0.5376				0.61%
Sc Axial	1612487.0	87.341	%	0.4683				0.54%
Sc Radial	158259.7	91.439	%	0.9825				1.07%
Al_1 396.153 R†	5177750.5	498.58	mg/L	11.477	498.58	mg/L	11.477	2.30%
Al_2 308.215 R†	1378631.6	501.55	mg/L	1.511	501.55	mg/L	1.511	0.30%
Ca_315.887 R†	8349789.6	476.32	mg/L	14.741	476.32	mg/L	14.741	3.09%
Fe_1 273.955†	9216891.8	186.97	mg/L	3.043	186.97	mg/L	3.043	1.63%
Fe_2 238.863 R†	205093.1	186.78	mg/L	0.306	186.78	mg/L	0.306	0.16%
Mg_279.077 R†	1100320.8	486.86	mg/L	3.046	486.86	mg/L	3.046	0.63%
Na_1 589.592 R†	1018.0	0.09107	mg/L	0.004165	0.09107	mg/L	0.004165	4.57%
Na_2 330.237 R†	38.5	-1.0107	mg/L	0.31743	-1.0107	mg/L	0.31743	31.41%
Zn_206.200†	232.5	0.00741	mg/L	0.001489	0.00741	mg/L	0.001489	20.10%

Sequence No.: 8
Sample ID: ICSAB_4.0
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 5/11/2006 12:42:12 PM
Data Type: Reprocessed on 5/12/2006 7:32:44 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: ICSAB_4.0

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	316079.4	83.473	%	1.6141				1.93%
In Radial	17633.0	86.486	%	0.7925				0.92%
Y_ Axial	1411951.1	85.708	%	1.3367				1.56%
Y_ Radial	133713.8	88.705	%	0.6550				0.74%
Sc Axial	1599841.2	86.656	%	1.4968				1.73%
Sc Radial	155949.2	90.104	%	0.6050				0.67%
Al_1 396.153 R†	5230341.2	503.65	mg/L	3.588	503.65	mg/L	3.588	0.71%
Al_2 308.215 R†	1358098.0	494.08	mg/L	5.630	494.08	mg/L	5.630	1.14%
Ca 315.887 R†	8374003.6	477.70	mg/L	2.905	477.70	mg/L	2.905	0.61%
Fe_1 273.955†	9274691.9	188.14	mg/L	1.991	188.14	mg/L	1.991	1.06%
Fe_2 238.863 R†	206757.0	188.29	mg/L	0.034	188.29	mg/L	0.034	0.02%
Mg 279.077 R†	1078157.3	477.05	mg/L	6.365	477.05	mg/L	6.365	1.33%
Na_1 589.592 R†	745.9	0.06673	mg/L	0.013465	0.06673	mg/L	0.013465	20.18%
Na_2 330.237 R†	-40.6	-2.7000	mg/L	0.25167	-2.7000	mg/L	0.25167	9.32%
Zn 206.200†	30881.9	0.98377	mg/L	0.037394	0.98377	mg/L	0.037394	3.80%

Sequence No.: 16
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/11/2006 1:13:04 PM
Data Type: Reprocessed on 5/12/2006 7:32:57 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	367964.4	97.175	%	1.3906				1.43%
In Radial	19879.4	97.504	%	1.6401				1.68%
Y_ Axial	1596308.7	96.899	%	1.2781				1.32%
Y_ Radial	146663.8	97.296	%	1.3673				1.41%
Sc Axial	1826368.0	98.926	%	0.4252				0.43%
Sc Radial	170150.9	98.309	%	1.4471				1.47%
Al_1 396.153 R†	260978.4	25.130	mg/L	0.3106	25.130	mg/L	0.3106	1.24%
Al_2 308.215 R†	68124.8	24.784	mg/L	0.0594	24.784	mg/L	0.0594	0.24%
Ca 315.887 R†	445478.9	25.413	mg/L	0.0862	25.413	mg/L	0.0862	0.34%
Fe_1 273.955†	1247138.5	25.299	mg/L	0.0180	25.299	mg/L	0.0180	0.07%
Fe_2 238.863 R†	27695.8	25.222	mg/L	0.0448	25.222	mg/L	0.0448	0.18%
Mg 279.077 R†	57931.8	25.633	mg/L	0.0802	25.633	mg/L	0.0802	0.31%
Na_1 589.592 R†	278283.8	24.895	mg/L	0.2410	24.895	mg/L	0.2410	0.97%
Na_2 330.237 R†	1844.3	24.904	mg/L	0.0851	24.904	mg/L	0.0851	0.34%
Zn 206.200†	80173.7	2.5540	mg/L	0.00380	2.5540	mg/L	0.00380	0.15%

Sequence No.: 17
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 1:15:24 PM
Data Type: Reprocessed on 5/12/2006 7:32:58 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	394623.6	104.22	%	0.014				0.01%
In Radial	20719.0	101.62	%	0.184				0.18%
Y_ Axial	1708345.3	103.70	%	0.080				0.08%
Y_ Radial	153713.1	101.97	%	1.498				1.47%
Sc Axial	1910808.5	103.50	%	0.052				0.05%
Sc Radial	175979.1	101.68	%	1.728				1.70%
Al_1 396.153 R†	-30.2	-0.00291	mg/L	0.008132	-0.00291	mg/L	0.008132	279.88%
Al_2 308.215 R†	-4.6	-0.00169	mg/L	0.006248	-0.00169	mg/L	0.006248	370.75%
Ca_315.887 R†	4.1	0.00024	mg/L	0.001325	0.00024	mg/L	0.001325	560.10%
Fe_1 273.955†	73.9	0.00150	mg/L	0.000504	0.00150	mg/L	0.000504	33.60%
Fe_2 238.863 R†	3.5	0.00322	mg/L	0.002178	0.00322	mg/L	0.002178	67.67%
Mg_279.077 R†	-7.6	-0.00337	mg/L	0.006357	-0.00337	mg/L	0.006357	188.78%
Na_1 589.592 R†	286.9	0.02567	mg/L	0.019099	0.02567	mg/L	0.019099	74.40%
Na_2 330.237 R†	16.0	0.22895	mg/L	0.058600	0.22895	mg/L	0.058600	25.60%
Zn_206.200†	17.5	0.00056	mg/L	0.000137	0.00056	mg/L	0.000137	24.69%

Sequence No.: 28
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/11/2006 1:54:49 PM
Data Type: Reprocessed on 5/12/2006 7:33:13 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	364130.2	96.163	%	0.9853				1.02%
In Radial	19650.2	96.380	%	0.7712				0.80%
Y_ Axial	1576109.7	95.673	%	0.8438				0.88%
Y_ Radial	145186.8	96.316	%	0.8495				0.88%
Sc Axial	1847391.7	100.07	%	1.545				1.54%
Sc Radial	168419.0	97.308	%	0.7329				0.75%
Al_1 396.153 R†	260806.9	25.114	mg/L	0.7525	25.114	mg/L	0.7525	3.00%
Al_2 308.215 R†	68941.8	25.081	mg/L	0.0840	25.081	mg/L	0.0840	0.33%
Ca 315.887 R†	446900.0	25.494	mg/L	0.0387	25.494	mg/L	0.0387	0.15%
Fe_1 273.955†	1249713.8	25.351	mg/L	0.0072	25.351	mg/L	0.0072	0.03%
Fe_2 238.863 R†	27737.5	25.260	mg/L	0.0538	25.260	mg/L	0.0538	0.21%
Mg 279.077 R†	58217.1	25.759	mg/L	0.0211	25.759	mg/L	0.0211	0.08%
Na_1 589.592 R†	275287.7	24.627	mg/L	0.7268	24.627	mg/L	0.7268	2.95%
Na_2 330.237 R†	1845.6	24.922	mg/L	1.2246	24.922	mg/L	1.2246	4.91%
Zn 206.200†	80212.6	2.5552	mg/L	0.00551	2.5552	mg/L	0.00551	0.22%

Sequence No.: 29
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 1:57:10 PM
Data Type: Reprocessed on 5/12/2006 7:33:14 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	390804.7	103.21	%	0.957				0.93%
In Radial	20657.0	101.32	%	0.474				0.47%
Y_ Axial	1692074.9	102.71	%	0.816				0.79%
Y_ Radial	153606.5	101.90	%	0.410				0.40%
Sc Axial	1893408.0	102.56	%	0.905				0.88%
Sc Radial	175988.7	101.68	%	0.330				0.32%
Al_1 396.153 R†	26.3	0.00253	mg/L	0.002386	0.00253	mg/L	0.002386	94.34%
Al_2 308.215 R†	17.6	0.00640	mg/L	0.003110	0.00640	mg/L	0.003110	48.60%
Ca_315.887 R†	1.1	0.00006	mg/L	0.000197	0.00006	mg/L	0.000197	309.08%
Fe_1 273.955†	93.3	0.00189	mg/L	0.000382	0.00189	mg/L	0.000382	20.20%
Fe_2 238.863 R†	-1.5	-0.00134	mg/L	0.007001	-0.00134	mg/L	0.007001	523.63%
Mg_279.077 R†	-3.4	-0.00152	mg/L	0.000241	-0.00152	mg/L	0.000241	15.84%
Na_1 589.592 R†	92.3	0.00825	mg/L	0.005148	0.00825	mg/L	0.005148	62.36%
Na_2 330.237 R†	5.7	0.08082	mg/L	0.164214	0.08082	mg/L	0.164214	203.18%
Zn_206.200†	10.2	0.00032	mg/L	0.000025	0.00032	mg/L	0.000025	7.71%

Sequence No.: 34
Sample ID: FB1685532
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 5/11/2006 2:15:05 PM
Data Type: Reprocessed on 5/12/2006 7:33:17 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: FB1685532

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	393811.2	104.00	%	0.388				0.37%
In Radial	20805.5	102.05	%	0.410				0.40%
Y_ Axial	1692266.3	102.72	%	0.286				0.28%
Y_ Radial	148221.0	98.329	%	0.2959				0.30%
Sc Axial	1901653.1	103.00	%	0.286				0.28%
Sc Radial	169916.3	98.174	%	0.4758				0.48%
Al_1 396.153 R†	79.9	0.00769	mg/L	0.012069	9.2342	mg/L	14.48816	156.90%
Al_2 308.215 R†	26.9	0.00978	mg/L	0.000480	11.738	mg/L	0.5765	4.91%
Ca 315.887 R†	5895.3	0.33630	mg/L	0.003661	403.72	mg/L	4.395	1.09%
Fe_1 273.955†	31367.1	0.63629	mg/L	0.000997	763.86	mg/L	1.197	0.16%
Fe_2 238.863 R†	717.0	0.65294	mg/L	0.000072	783.84	mg/L	0.086	0.01%
Mg 279.077 R†	56.2	0.02486	mg/L	0.002831	29.844	mg/L	3.3989	11.39%
Na_1 589.592 R†	8329.5	0.74515	mg/L	0.021074	894.54	mg/L	25.299	2.83%
Na_2 330.237 R†	43.8	0.62589	mg/L	0.014161	751.37	mg/L	17.000	2.26%
Zn 206.200†	97.8	0.00312	mg/L	0.000002	3.7419	mg/L	0.00274	0.07%

Sequence No.: 35
Sample ID: FB1815158
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 5/11/2006 2:18:39 PM
Data Type: Reprocessed on 5/12/2006 7:33:18 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: FB1815158

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	400963.4	105.89	%	1.268				1.20%
In Radial	20897.5	102.50	%	0.322				0.31%
Y_ Axial	1722609.4	104.57	%	1.297				1.24%
Y_ Radial	153607.9	101.90	%	3.280				3.22%
Sc Axial	1934822.7	104.80	%	1.221				1.16%
Sc Radial	176191.2	101.80	%	3.321				3.26%
Al_1 396.153 R†	130.9	0.01260	mg/L	0.003232	15.126	mg/L	3.8794	25.65%
Al_2 308.215 R†	35.6	0.01297	mg/L	0.000992	15.565	mg/L	1.1913	7.65%
Ca 315.887 R†	3350.5	0.19113	mg/L	0.004832	229.45	mg/L	5.801	2.53%
Fe_1 273.955†	24318.5	0.49331	mg/L	0.000394	592.21	mg/L	0.473	0.08%
Fe_2 238.863 R†	539.5	0.49135	mg/L	0.020308	589.86	mg/L	24.380	4.13%
Mg 279.077 R†	65.6	0.02903	mg/L	0.006814	34.846	mg/L	8.1804	23.48%
Na_1 589.592 R†	5246.9	0.46939	mg/L	0.016785	563.49	mg/L	20.150	3.58%
Na_2 330.237 R†	10.7	0.15257	mg/L	0.000450	183.15	mg/L	0.541	0.30%
Zn 206.200†	103.2	0.00329	mg/L	0.000027	3.9451	mg/L	0.03227	0.82%

Sequence No.: 36
Sample ID: H4Q3JB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 5/11/2006 2:22:16 PM
Data Type: Reprocessed on 5/12/2006 7:33:18 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H4Q3JB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	393885.1	104.02	%	0.788				0.76%
In Radial	20892.6	102.47	%	0.364				0.35%
Y_ Axial	1700654.4	103.23	%	0.919				0.89%
Y_ Radial	153761.2	102.00	%	2.477				2.43%
Sc Axial	1908675.7	103.38	%	0.840				0.81%
Sc Radial	176348.4	101.89	%	2.491				2.44%
Al_1 396.153 R†	-36.3	-0.00350	mg/L	0.003105	-4.1967	mg/L	3.72788	88.83%
Al_2 308.215 R†	4.1	0.00151	mg/L	0.004244	1.8100	mg/L	5.09465	281.47%
Ca_315.887 R†	-6.9	-0.00039	mg/L	0.000760	-0.47268	mg/L	0.912391	193.02%
Fe_1 273.955†	60415.6	1.2256	mg/L	0.00003	1471.3	mg/L	0.04	0.00%
Fe_2 238.863 R†	1335.3	1.2161	mg/L	0.04736	1459.9	mg/L	56.85	3.89%
Mg_279.077 R†	3.5	0.00154	mg/L	0.000048	1.8502	mg/L	0.05812	3.14%
Na_1 589.592 R†	208.7	0.01867	mg/L	0.004826	22.417	mg/L	5.7941	25.85%
Na_2 330.237 R†	-19.9	-0.27899	mg/L	0.230498	-334.92	mg/L	276.709	82.62%
Zn_206.200†	23.9	0.00076	mg/L	0.000172	0.91336	mg/L	0.206758	22.64%

Sequence No.: 37
Sample ID: H4Q3JC
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 5/11/2006 2:25:52 PM
Data Type: Reprocessed on 5/12/2006 7:33:19 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H4Q3JC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	372019.6	98.246	%	1.7469				1.78%
In Radial	20036.1	98.273	%	0.6946				0.71%
Y_ Axial	1592631.0	96.676	%	0.8111				0.84%
Y_ Radial	147734.1	98.006	%	0.1576				0.16%
Sc Axial	1811043.9	98.096	%	0.8616				0.88%
Sc Radial	171950.0	99.349	%	0.0483				0.05%
Al_1 396.153 R†	20186.6	1.9438	mg/L	0.01166	2333.5	mg/L	14.00	0.60%
Al_2 308.215 R†	5243.8	1.9077	mg/L	0.01044	2290.2	mg/L	12.54	0.55%
Ca 315.887 R†	819717.4	46.761	mg/L	0.0998	56136	mg/L	119.9	0.21%
Fe_1 273.955†	49021.3	0.99442	mg/L	0.010824	1193.8	mg/L	12.99	1.09%
Fe_2 238.863 R†	1090.3	0.99294	mg/L	0.001022	1192.0	mg/L	1.23	0.10%
Mg 279.077 R†	106583.8	47.160	mg/L	0.0330	56615	mg/L	39.6	0.07%
Na_1 589.592 R†	505848.1	45.253	mg/L	0.1124	54325	mg/L	134.9	0.25%
Na_2 330.237 R†	3204.5	45.326	mg/L	0.5574	54413	mg/L	669.2	1.23%
Zn 206.200†	15017.6	0.47840	mg/L	0.008092	574.31	mg/L	9.714	1.69%

Sequence No.: 38
Sample ID: H4Q3JL
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 5/11/2006 2:28:51 PM
Data Type: Reprocessed on 5/12/2006 7:33:19 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H4Q3JL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	373175.7	98.551	%	0.6457				0.66%
In Radial	20148.3	98.823	%	0.0071				0.01%
Y_ Axial	1589424.6	96.481	%	1.3337				1.38%
Y_ Radial	147691.0	97.977	%	2.1724				2.22%
Sc Axial	1810366.8	98.060	%	1.3957				1.42%
Sc Radial	171959.0	99.354	%	2.2058				2.22%
Al_1 396.153 R†	20418.2	1.9661	mg/L	0.00182	2360.3	mg/L	2.18	0.09%
Al_2 308.215 R†	5375.2	1.9555	mg/L	0.03338	2347.5	mg/L	40.07	1.71%
Ca 315.887 R†	831683.8	47.444	mg/L	0.1497	56955	mg/L	179.8	0.32%
Fe_1 273.955†	49252.6	0.99911	mg/L	0.006079	1199.4	mg/L	7.30	0.61%
Fe_2 238.863 R†	1092.5	0.99492	mg/L	0.019949	1194.4	mg/L	23.95	2.01%
Mg 279.077 R†	108128.8	47.844	mg/L	0.2058	57435	mg/L	247.0	0.43%
Na_1 589.592 R†	515017.8	46.073	mg/L	0.0767	55310	mg/L	92.1	0.17%
Na_2 330.237 R†	3273.9	46.314	mg/L	0.9966	55598	mg/L	1196.3	2.15%
Zn 206.200†	15090.3	0.48071	mg/L	0.003474	577.09	mg/L	4.171	0.72%

Sequence No.: 39
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/11/2006 2:32:19 PM
Data Type: Reprocessed on 5/12/2006 7:33:20 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	374514.7	98.905	%	0.6610				0.67%
In Radial	19770.4	96.970	%	0.3709				0.38%
Y_ Axial	1613268.2	97.929	%	0.5809				0.59%
Y_ Radial	146309.7	97.061	%	0.3114				0.32%
Sc Axial	1832302.1	99.248	%	0.0463				0.05%
Sc Radial	169685.2	98.040	%	0.4764				0.49%
Al_1 396.153 R†	254709.6	24.527	mg/L	0.3475	24.527	mg/L	0.3475	1.42%
Al_2 308.215 R†	68890.1	25.062	mg/L	0.0028	25.062	mg/L	0.0028	0.01%
Ca 315.887 R†	447111.4	25.506	mg/L	0.0577	25.506	mg/L	0.0577	0.23%
Fe_1 273.955†	1252041.2	25.398	mg/L	0.0085	25.398	mg/L	0.0085	0.03%
Fe_2 238.863 R†	27465.6	25.013	mg/L	0.0514	25.013	mg/L	0.0514	0.21%
Mg 279.077 R†	58157.3	25.733	mg/L	0.0443	25.733	mg/L	0.0443	0.17%
Na_1 589.592 R†	268702.0	24.038	mg/L	0.3774	24.038	mg/L	0.3774	1.57%
Na_2 330.237 R†	1884.6	25.482	mg/L	1.0834	25.482	mg/L	1.0834	4.25%
Zn 206.200†	79994.7	2.5483	mg/L	0.00203	2.5483	mg/L	0.00203	0.08%

Sequence No.: 40
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 2:34:45 PM
Data Type: Reprocessed on 5/12/2006 7:33:21 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	387961.1	102.46	%	1.473				1.44%
In Radial	20425.2	100.18	%	0.770				0.77%
Y_ Axial	1674506.7	101.65	%	1.482				1.46%
Y_ Radial	153930.1	102.12	%	0.116				0.11%
Sc Axial	1874163.2	101.52	%	1.430				1.41%
Sc Radial	176091.0	101.74	%	0.024				0.02%
Al_1 396.153 R†	-68.9	-0.00664	mg/L	0.001038	-0.00664	mg/L	0.001038	15.64%
Al_2 308.215 R†	-10.1	-0.00367	mg/L	0.001497	-0.00367	mg/L	0.001497	40.83%
Ca 315.887 R†	43.2	0.00247	mg/L	0.000908	0.00247	mg/L	0.000908	36.84%
Fe_1 273.955†	101.1	0.00205	mg/L	0.000231	0.00205	mg/L	0.000231	11.25%
Fe_2 238.863 R†	7.4	0.00672	mg/L	0.000065	0.00672	mg/L	0.000065	0.96%
Mg 279.077 R†	-8.1	-0.00359	mg/L	0.005038	-0.00359	mg/L	0.005038	140.27%
Na_1 589.592 R†	228.0	0.02040	mg/L	0.023605	0.02040	mg/L	0.023605	115.74%
Na_2 330.237 R†	4.2	0.05974	mg/L	0.426341	0.05974	mg/L	0.426341	713.68%
Zn 206.200†	17.0	0.00054	mg/L	0.000117	0.00054	mg/L	0.000117	21.65%

Sequence No.: 41
Sample ID: H341E
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 5/11/2006 2:38:20 PM
Data Type: Reprocessed on 5/12/2006 7:33:21 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H341E

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	400223.0	105.69	%	0.024				0.02%
In Radial	20782.7	101.93	%	0.343				0.34%
Y_ Axial	1712493.2	103.95	%	0.345				0.33%
Y_ Radial	154657.9	102.60	%	0.978				0.95%
Sc Axial	1926432.7	104.35	%	0.306				0.29%
Sc Radial	177641.1	102.64	%	1.086				1.06%
Al_1 396.153 R†	591.9	0.05699	mg/L	0.000753	68.417	mg/L	0.9034	1.32%
Al_2 308.215 R†	167.0	0.06076	mg/L	0.002407	72.941	mg/L	2.8896	3.96%
Ca 315.887 R†	8056.8	0.45960	mg/L	0.000683	551.74	mg/L	0.820	0.15%
Fe_1 273.955†	3113.3	0.06316	mg/L	0.001080	75.817	mg/L	1.2968	1.71%
Fe_2 238.863 R†	61.5	0.05601	mg/L	0.008142	67.239	mg/L	9.7748	14.54%
Mg 279.077 R†	145.5	0.06438	mg/L	0.000145	77.291	mg/L	0.1740	0.23%
Na_1 589.592 R†	7260.9	0.64955	mg/L	0.001749	779.78	mg/L	2.100	0.27%
Na_2 330.237 R†	20.1	0.28237	mg/L	0.383186	338.98	mg/L	460.007	135.70%
Zn 206.200†	197.7	0.00630	mg/L	0.000053	7.5598	mg/L	0.06373	0.84%

Sequence No.: 42
Sample ID: H341EP5
Analyst: AWW
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 66
Date Collected: 5/11/2006 2:41:55 PM
Data Type: Reprocessed on 5/12/2006 7:33:22 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H341EP5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	400851.7	105.86	%	2.463				2.33%
In Radial	20554.6	100.82	%	0.101				0.10%
Y_ Axial	1725853.1	104.76	%	2.617				2.50%
Y_ Radial	148900.9	98.780	%	1.5314				1.55%
Sc Axial	1934839.8	104.80	%	2.546				2.43%
Sc Radial	170839.1	98.707	%	1.5867				1.61%
Al_1 396.153 R†	172.6	0.01662	mg/L	0.001508	99.745	mg/L	9.0519	9.08%
Al_2 308.215 R†	46.5	0.01693	mg/L	0.000266	101.64	mg/L	1.596	1.57%
Ca_315.887 R†	1740.8	0.09930	mg/L	0.000063	596.06	mg/L	0.380	0.06%
Fe_1 273.955†	3914.9	0.07942	mg/L	0.003300	476.69	mg/L	19.808	4.16%
Fe_2 238.863 R†	77.1	0.07020	mg/L	0.010504	421.37	mg/L	63.051	14.96%
Mg_279.077 R†	17.0	0.00751	mg/L	0.004689	45.090	mg/L	28.1435	62.42%
Na_1 589.592 R†	1597.3	0.14289	mg/L	0.017952	857.69	mg/L	107.754	12.56%
Na_2 330.237 R†	19.8	0.28132	mg/L	0.691185	1688.6	mg/L	4148.77	245.69%
Zn_206.200†	128.3	0.00409	mg/L	0.000064	24.536	mg/L	0.3814	1.55%

Sequence No.: 43
Sample ID: H341EZ
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 5/11/2006 2:45:29 PM
Data Type: Reprocessed on 5/12/2006 7:33:22 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H341EZ

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	370240.4	97.776	%	0.9621				0.98%
In Radial	20109.7	98.634	%	0.0087				0.01%
Y_ Axial	1605350.3	97.448	%	0.6092				0.63%
Y_ Radial	146553.7	97.223	%	0.4493				0.46%
Sc Axial	1828366.1	99.035	%	0.6664				0.67%
Sc Radial	170680.6	98.615	%	0.4892				0.50%
Al_1 396.153 R†	20953.0	2.0176	mg/L	0.00206	2422.1	mg/L	2.47	0.10%
Al_2 308.215 R†	5554.6	2.0208	mg/L	0.00509	2425.9	mg/L	6.11	0.25%
Ca 315.887 R†	836337.0	47.709	mg/L	0.0157	57274	mg/L	18.8	0.03%
Fe_1 273.955†	54968.4	1.1151	mg/L	0.01739	1338.6	mg/L	20.88	1.56%
Fe_2 238.863 R†	1245.3	1.1341	mg/L	0.00493	1361.5	mg/L	5.92	0.43%
Mg 279.077 R†	110265.8	48.789	mg/L	0.0452	58571	mg/L	54.3	0.09%
Na_1 589.592 R†	532199.8	47.610	mg/L	0.0056	57155	mg/L	6.7	0.01%
Na_2 330.237 R†	3413.2	48.297	mg/L	0.0091	57979	mg/L	10.9	0.02%
Zn 206.200†	15548.1	0.49530	mg/L	0.008184	594.59	mg/L	9.824	1.65%

Sequence No.: 44
Sample ID: H341Q
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 5/11/2006 2:49:01 PM
Data Type: Reprocessed on 5/12/2006 7:33:23 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H341Q

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	395730.1	104.51	%	0.498				0.48%
In Radial	20780.1	101.92	%	0.270				0.27%
Y_ Axial	1699159.5	103.14	%	0.298				0.29%
Y_ Radial	153982.6	102.15	%	0.778				0.76%
Sc Axial	1910087.6	103.46	%	0.321				0.31%
Sc Radial	176807.5	102.16	%	0.813				0.80%
Al_1 396.153 R†	567.7	0.05466	mg/L	0.003332	65.623	mg/L	4.0001	6.10%
Al_2 308.215 R†	164.1	0.05971	mg/L	0.003414	71.677	mg/L	4.0987	5.72%
Ca 315.887 R†	6319.2	0.36048	mg/L	0.009006	432.75	mg/L	10.812	2.50%
Fe_1 273.955†	5330.4	0.10813	mg/L	0.000562	129.81	mg/L	0.675	0.52%
Fe_2 238.863 R†	112.2	0.10217	mg/L	0.000905	122.66	mg/L	1.087	0.89%
Mg 279.077 R†	146.6	0.06484	mg/L	0.002685	77.844	mg/L	3.2229	4.14%
Na_1 589.592 R†	7399.3	0.66193	mg/L	0.018256	794.64	mg/L	21.916	2.76%
Na_2 330.237 R†	25.3	0.35833	mg/L	0.512060	430.17	mg/L	614.718	142.90%
Zn 206.200†	145.8	0.00464	mg/L	0.000242	5.5745	mg/L	0.29006	5.20%

Sequence No.: 45
Sample ID: H341V
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 5/11/2006 2:52:37 PM
Data Type: Reprocessed on 5/12/2006 7:33:23 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H341V

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	397259.9	104.91	%	0.451				0.43%
In Radial	20743.8	101.74	%	0.515				0.51%
Y_ Axial	1700888.2	103.25	%	0.086				0.08%
Y_ Radial	154222.4	102.31	%	1.120				1.09%
Sc Axial	1915396.7	103.75	%	0.062				0.06%
Sc Radial	177262.9	102.42	%	1.254				1.22%
Al_1 396.153 R†	577.1	0.05557	mg/L	0.007803	66.709	mg/L	9.3678	14.04%
Al_2 308.215 R†	151.5	0.05510	mg/L	0.003904	66.145	mg/L	4.6865	7.09%
Ca 315.887 R†	5204.2	0.29687	mg/L	0.001590	356.39	mg/L	1.909	0.54%
Fe_1 273.955†	7762.8	0.15747	mg/L	0.001026	189.04	mg/L	1.231	0.65%
Fe_2 238.863 R†	171.8	0.15650	mg/L	0.004549	187.87	mg/L	5.461	2.91%
Mg 279.077 R†	116.8	0.05167	mg/L	0.000056	62.035	mg/L	0.0673	0.11%
Na_1 589.592 R†	7278.2	0.65110	mg/L	0.011315	781.63	mg/L	13.584	1.74%
Na_2 330.237 R†	36.1	0.51273	mg/L	0.161859	615.52	mg/L	194.308	31.57%
Zn 206.200†	141.4	0.00450	mg/L	0.000006	5.4056	mg/L	0.00700	0.13%

Sequence No.: 46
Sample ID: H3413
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 5/11/2006 2:56:13 PM
Data Type: Reprocessed on 5/12/2006 7:33:24 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H3413

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	390084.7	103.02	%	0.583				0.57%
In Radial	20796.9	102.00	%	0.147				0.14%
Y_ Axial	1672580.6	101.53	%	0.292				0.29%
Y_ Radial	150132.9	99.597	%	0.2279				0.23%
Sc Axial	1879632.4	101.81	%	0.390				0.38%
Sc Radial	172711.6	99.789	%	0.0983				0.10%
Al_1 396.153 R†	737.5	0.07102	mg/L	0.002237	85.258	mg/L	2.6858	3.15%
Al_2 308.215 R†	206.7	0.07519	mg/L	0.003064	90.264	mg/L	3.6781	4.07%
Ca 315.887 R†	7401.1	0.42220	mg/L	0.000110	506.84	mg/L	0.132	0.03%
Fe_1 273.955†	6782.4	0.13758	mg/L	0.000069	165.17	mg/L	0.083	0.05%
Fe_2 238.863 R†	148.9	0.13561	mg/L	0.000601	162.79	mg/L	0.722	0.44%
Mg 279.077 R†	150.1	0.06640	mg/L	0.000682	79.716	mg/L	0.8182	1.03%
Na_1 589.592 R†	7164.5	0.64093	mg/L	0.000557	769.42	mg/L	0.668	0.09%
Na_2 330.237 R†	76.7	1.0920	mg/L	0.29302	1311.0	mg/L	351.76	26.83%
Zn 206.200†	202.4	0.00645	mg/L	0.000013	7.7413	mg/L	0.01545	0.20%

Sequence No.: 47
Sample ID: H3414
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 5/11/2006 2:59:47 PM
Data Type: Reprocessed on 5/12/2006 7:33:25 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H3414

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	398259.4	105.18	%	2.037				1.94%
In Radial	20836.4	102.20	%	0.643				0.63%
Y_ Axial	1706497.5	103.59	%	2.006				1.94%
Y_ Radial	153822.9	102.05	%	2.239				2.19%
Sc Axial	1917532.4	103.86	%	2.077				2.00%
Sc Radial	176827.5	102.17	%	2.194				2.15%
Al_1 396.153 R†	723.3	0.06965	mg/L	0.008873	83.611	mg/L	10.6522	12.74%
Al_2 308.215 R†	196.2	0.07138	mg/L	0.001905	85.694	mg/L	2.2871	2.67%
Ca 315.887 R†	5969.6	0.34054	mg/L	0.003994	408.81	mg/L	4.795	1.17%
Fe_1 273.955†	5872.1	0.11912	mg/L	0.001560	143.00	mg/L	1.873	1.31%
Fe_2 238.863 R†	126.1	0.11484	mg/L	0.010652	137.86	mg/L	12.787	9.28%
Mg 279.077 R†	141.1	0.06242	mg/L	0.002021	74.939	mg/L	2.4266	3.24%
Na_1 589.592 R†	6961.2	0.62275	mg/L	0.000154	747.59	mg/L	0.185	0.02%
Na_2 330.237 R†	27.8	0.39401	mg/L	0.354166	473.01	mg/L	425.169	89.89%
Zn 206.200†	122.1	0.00389	mg/L	0.000074	4.6713	mg/L	0.08912	1.91%

Sequence No.: 48
Sample ID: H3416
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 5/11/2006 3:03:21 PM
Data Type: Reprocessed on 5/12/2006 7:33:26 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H3416

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	400795.4	105.85	%	1.226				1.16%
In Radial	20777.4	101.91	%	0.854				0.84%
Y_ Axial	1715395.0	104.13	%	1.190				1.14%
Y_ Radial	155364.4	103.07	%	0.944				0.92%
Sc Axial	1930864.0	104.59	%	1.077				1.03%
Sc Radial	178838.5	103.33	%	0.863				0.84%
Al_1 396.153 R†	707.4	0.06812	mg/L	0.006223	81.779	mg/L	7.4708	9.14%
Al_2 308.215 R†	185.3	0.06740	mg/L	0.004775	80.913	mg/L	5.7322	7.08%
Ca 315.887 R†	4941.8	0.28191	mg/L	0.003236	338.42	mg/L	3.884	1.15%
Fe_1 273.955†	5156.2	0.10460	mg/L	0.001122	125.57	mg/L	1.347	1.07%
Fe_2 238.863 R†	102.2	0.09310	mg/L	0.011110	111.77	mg/L	13.338	11.93%
Mg 279.077 R†	113.7	0.05030	mg/L	0.008597	60.381	mg/L	10.3201	17.09%
Na_1 589.592 R†	6602.1	0.59062	mg/L	0.000424	709.03	mg/L	0.509	0.07%
Na_2 330.237 R†	40.5	0.57603	mg/L	0.045678	691.51	mg/L	54.835	7.93%
Zn 206.200†	125.2	0.00399	mg/L	0.000093	4.7870	mg/L	0.11174	2.33%

Sequence No.: 49
Sample ID: H3417
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 5/11/2006 3:06:56 PM
Data Type: Reprocessed on 5/12/2006 7:33:30 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H3417

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	399615.8	105.53	%	0.079				0.07%
In Radial	20728.8	101.67	%	1.003				0.99%
Y_ Axial	1713148.0	103.99	%	0.108				0.10%
Y_ Radial	152472.3	101.15	%	1.475				1.46%
Sc Axial	1927637.4	104.41	%	0.033				0.03%
Sc Radial	175186.0	101.22	%	1.376				1.36%
Al_1 396.153 R†	109.7	0.01057	mg/L	0.009023	12.687	mg/L	10.8317	85.38%
Al_2 308.215 R†	28.3	0.01028	mg/L	0.003466	12.346	mg/L	4.1606	33.70%
Ca 315.887 R†	3447.3	0.19665	mg/L	0.001459	236.08	mg/L	1.751	0.74%
Fe_1 273.955†	1433.9	0.02909	mg/L	0.000476	34.920	mg/L	0.5715	1.64%
Fe_2 238.863 R†	23.5	0.02143	mg/L	0.002958	25.732	mg/L	3.5506	13.80%
Mg 279.077 R†	45.5	0.02012	mg/L	0.010475	24.150	mg/L	12.5753	52.07%
Na_1 589.592 R†	6640.6	0.59406	mg/L	0.019845	713.16	mg/L	23.823	3.34%
Na_2 330.237 R†	37.5	0.53380	mg/L	0.303047	640.82	mg/L	363.802	56.77%
Zn 206.200†	68.7	0.00219	mg/L	0.000045	2.6260	mg/L	0.05361	2.04%

Sequence No.: 50
Sample ID: H342E
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 5/11/2006 3:10:31 PM
Data Type: Reprocessed on 5/12/2006 7:33:32 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H342E

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	402288.5	106.24	%	0.646				0.61%
In Radial	20990.1	102.95	%	0.284				0.28%
Y_ Axial	1723978.0	104.65	%	0.709				0.68%
Y_ Radial	156792.8	104.02	%	1.797				1.73%
Sc Axial	1936937.2	104.92	%	0.750				0.72%
Sc Radial	179952.4	103.97	%	1.943				1.87%
Al_1 396.153 R†	1241.3	0.11953	mg/L	0.003533	143.50	mg/L	4.241	2.96%
Al_2 308.215 R†	334.5	0.12168	mg/L	0.003106	146.07	mg/L	3.729	2.55%
Ca 315.887 R†	8131.9	0.46389	mg/L	0.007048	556.89	mg/L	8.461	1.52%
Fe_1 273.955†	10694.0	0.21693	mg/L	0.003343	260.42	mg/L	4.013	1.54%
Fe_2 238.863 R†	234.0	0.21307	mg/L	0.012539	255.79	mg/L	15.053	5.88%
Mg 279.077 R†	229.2	0.10141	mg/L	0.002745	121.74	mg/L	3.296	2.71%
Na_1 589.592 R†	7239.2	0.64762	mg/L	0.008675	777.45	mg/L	10.414	1.34%
Na_2 330.237 R†	23.3	0.32906	mg/L	0.210506	395.03	mg/L	252.709	63.97%
Zn 206.200†	158.1	0.00504	mg/L	0.000098	6.0474	mg/L	0.11815	1.95%

Sequence No.: 51
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/11/2006 3:14:06 PM
Data Type: Reprocessed on 5/12/2006 7:33:32 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	368680.2	97.364	%	0.5607				0.58%
In Radial	19441.9	95.358	%	1.3620				1.43%
Y_ Axial	1591229.1	96.591	%	0.5058				0.52%
Y_ Radial	144927.6	96.144	%	1.2896				1.34%
Sc Axial	1821679.9	98.672	%	1.8422				1.87%
Sc Radial	167893.3	97.005	%	1.4291				1.47%
Al_1 396.153 R†	260425.0	25.077	mg/L	1.2445	25.077	mg/L	1.2445	4.96%
Al_2 308.215 R†	69085.7	25.133	mg/L	0.0285	25.133	mg/L	0.0285	0.11%
Ca 315.887 R†	446255.3	25.457	mg/L	0.0490	25.457	mg/L	0.0490	0.19%
Fe_1 273.955†	1249046.6	25.337	mg/L	0.0558	25.337	mg/L	0.0558	0.22%
Fe_2 238.863 R†	27370.2	24.926	mg/L	0.0624	24.926	mg/L	0.0624	0.25%
Mg 279.077 R†	57891.5	25.615	mg/L	0.0907	25.615	mg/L	0.0907	0.35%
Na_1 589.592 R†	274069.3	24.518	mg/L	1.2431	24.518	mg/L	1.2431	5.07%
Na_2 330.237 R†	1935.3	26.217	mg/L	0.1860	26.217	mg/L	0.1860	0.71%
Zn 206.200†	79469.3	2.5316	mg/L	0.00593	2.5316	mg/L	0.00593	0.23%

Sequence No.: 52
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 3:16:26 PM
Data Type: Reprocessed on 5/12/2006 7:33:33 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	399943.0	105.62	%	1.646				1.56%
In Radial	20600.2	101.04	%	0.211				0.21%
Y_ Axial	1729383.0	104.98	%	1.417				1.35%
Y_ Radial	150594.2	99.903	%	2.8970				2.90%
Sc Axial	1936520.6	104.89	%	1.453				1.38%
Sc Radial	172702.7	99.783	%	2.9287				2.94%
Al_1 396.153 R†	28.9	0.00279	mg/L	0.006241	0.00279	mg/L	0.006241	223.91%
Al_2 308.215 R†	10.2	0.00371	mg/L	0.002045	0.00371	mg/L	0.002045	55.16%
Ca 315.887 R†	27.6	0.00158	mg/L	0.000124	0.00158	mg/L	0.000124	7.89%
Fe_1 273.955†	110.4	0.00224	mg/L	0.000186	0.00224	mg/L	0.000186	8.32%
Fe_2 238.863 R†	-2.4	-0.00222	mg/L	0.008146	-0.00222	mg/L	0.008146	367.68%
Mg 279.077 R†	-16.5	-0.00730	mg/L	0.006783	-0.00730	mg/L	0.006783	92.92%
Na_1 589.592 R†	212.8	0.01903	mg/L	0.000753	0.01903	mg/L	0.000753	3.96%
Na_2 330.237 R†	-28.9	-0.41287	mg/L	0.181029	-0.41287	mg/L	0.181029	43.85%
Zn 206.200†	9.2	0.00029	mg/L	0.000026	0.00029	mg/L	0.000026	8.92%

Sequence No.: 53
Sample ID: H342L
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 5/11/2006 3:20:02 PM
Data Type: Reprocessed on 5/12/2006 7:33:34 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H342L

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	403339.9	106.52	%	0.591				0.55%
In Radial	20818.0	102.11	%	0.065				0.06%
Y_ Axial	1727779.7	104.88	%	0.364				0.35%
Y_ Radial	157850.7	104.72	%	1.759				1.68%
Sc Axial	1941382.9	105.16	%	0.350				0.33%
Sc Radial	181214.6	104.70	%	1.894				1.81%
Al_1 396.153 R†	1547.4	0.14901	mg/L	0.004397	178.88	mg/L	5.279	2.95%
Al_2 308.215 R†	404.2	0.14706	mg/L	0.003014	176.54	mg/L	3.618	2.05%
Ca 315.887 R†	9864.6	0.56273	mg/L	0.004805	675.55	mg/L	5.768	0.85%
Fe_1 273.955†	11798.7	0.23934	mg/L	0.000816	287.32	mg/L	0.979	0.34%
Fe_2 238.863 R†	243.7	0.22193	mg/L	0.007597	266.43	mg/L	9.120	3.42%
Mg 279.077 R†	281.1	0.12440	mg/L	0.000380	149.33	mg/L	0.456	0.31%
Na_1 589.592 R†	7335.5	0.65623	mg/L	0.010620	787.79	mg/L	12.749	1.62%
Na_2 330.237 R†	16.5	0.23025	mg/L	0.005236	276.42	mg/L	6.286	2.27%
Zn 206.200†	200.0	0.00637	mg/L	0.000142	7.6502	mg/L	0.17073	2.23%

Sequence No.: 54
Sample ID: H342M
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 5/11/2006 3:23:36 PM
Data Type: Reprocessed on 5/12/2006 7:33:35 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H342M

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	395886.0	104.55	%	2.142				2.05%
In Radial	20924.2	102.63	%	0.202				0.20%
Y_ Axial	1691335.1	102.67	%	2.128				2.07%
Y_ Radial	155330.9	103.05	%	0.489				0.47%
Sc Axial	1905623.4	103.22	%	2.234				2.16%
Sc Radial	178708.1	103.25	%	0.429				0.42%
Al_1 396.153 R†	2335.3	0.22487	mg/L	0.002383	269.96	mg/L	2.860	1.06%
Al_2 308.215 R†	618.6	0.22506	mg/L	0.004666	270.18	mg/L	5.602	2.07%
Ca_315.887 R†	10254.2	0.58496	mg/L	0.006711	702.23	mg/L	8.056	1.15%
Fe_1 273.955†	23632.3	0.47939	mg/L	0.001579	575.50	mg/L	1.896	0.33%
Fe_2 238.863 R†	522.4	0.47574	mg/L	0.001809	571.11	mg/L	2.171	0.38%
Mg_279.077 R†	359.6	0.15910	mg/L	0.003851	191.00	mg/L	4.623	2.42%
Na_1 589.592 R†	7997.3	0.71543	mg/L	0.002398	858.86	mg/L	2.879	0.34%
Na_2 330.237 R†	43.4	0.61271	mg/L	0.053760	735.54	mg/L	64.537	8.77%
Zn_206.200†	367.5	0.01171	mg/L	0.000509	14.055	mg/L	0.6111	4.35%

Sequence No.: 55
Sample ID: H342P
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 5/11/2006 3:27:11 PM
Data Type: Reprocessed on 5/12/2006 7:33:36 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H342P

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	399372.1	105.47	%	3.275				3.11%
In Radial	20860.7	102.32	%	0.428				0.42%
Y_ Axial	1704607.2	103.47	%	3.525				3.41%
Y_ Radial	155227.5	102.98	%	0.191				0.19%
Sc Axial	1919378.7	103.96	%	3.304				3.18%
Sc Radial	178618.8	103.20	%	0.091				0.09%
Al_1 396.153 R†	2093.2	0.20156	mg/L	0.002530	241.97	mg/L	3.037	1.26%
Al_2 308.215 R†	554.4	0.20170	mg/L	0.007693	242.14	mg/L	9.236	3.81%
Ca_315.887 R†	10847.1	0.61878	mg/L	0.001073	742.83	mg/L	1.288	0.17%
Fe_1 273.955†	28716.4	0.58252	mg/L	0.002070	699.31	mg/L	2.485	0.36%
Fe_2 238.863 R†	620.6	0.56518	mg/L	0.016778	678.49	mg/L	20.141	2.97%
Mg_279.077 R†	323.9	0.14333	mg/L	0.003435	172.07	mg/L	4.124	2.40%
Na_1 589.592 R†	8807.5	0.78791	mg/L	0.007021	945.87	mg/L	8.429	0.89%
Na_2 330.237 R†	45.6	0.64760	mg/L	0.113200	777.43	mg/L	135.894	17.48%
Zn_206.200†	180.2	0.00574	mg/L	0.000213	6.8917	mg/L	0.25605	3.72%

Sequence No.: 56
Sample ID: H342Q
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 5/11/2006 3:31:42 PM
Data Type: Reprocessed on 5/12/2006 7:33:38 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H342Q

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	393596.0	103.94	%	3.051				2.94%
In Radial	20800.0	102.02	%	0.045				0.04%
Y_ Axial	1684074.5	102.23	%	3.041				2.97%
Y_ Radial	154794.4	102.69	%	0.715				0.70%
Sc Axial	1895278.2	102.66	%	3.089				3.01%
Sc Radial	178082.9	102.89	%	0.505				0.49%
Al_1 396.153 R†	2172.5	0.20920	mg/L	0.005577	251.14	mg/L	6.696	2.67%
Al_2 308.215 R†	568.4	0.20678	mg/L	0.002302	248.24	mg/L	2.764	1.11%
Ca 315.887 R†	9121.2	0.52032	mg/L	0.003000	624.63	mg/L	3.601	0.58%
Fe_1 273.955†	17359.8	0.35215	mg/L	0.012602	422.75	mg/L	15.128	3.58%
Fe_2 238.863 R†	370.1	0.33702	mg/L	0.006264	404.59	mg/L	7.520	1.86%
Mg 279.077 R†	322.8	0.14285	mg/L	0.003500	171.48	mg/L	4.201	2.45%
Na_1 589.592 R†	8033.5	0.71867	mg/L	0.009195	862.75	mg/L	11.039	1.28%
Na_2 330.237 R†	25.5	0.36015	mg/L	0.103137	432.35	mg/L	123.814	28.64%
Zn 206.200†	204.2	0.00651	mg/L	0.000341	7.8097	mg/L	0.40996	5.25%

Sequence No.: 57
Sample ID: H4Q3JB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 5/11/2006 3:35:18 PM
Data Type: Reprocessed on 5/12/2006 7:33:39 AM
Initial Sample Vol: 0.0833 mL
Sample Prep Vol: 100 mL

Mean Data: H4Q3JB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	398331.9	105.19	%	0.708				0.67%
In Radial	20796.0	102.00	%	0.661				0.65%
Y_ Axial	1712280.3	103.94	%	0.728				0.70%
Y_ Radial	154312.7	102.37	%	1.430				1.40%
Sc Axial	1921119.4	104.06	%	0.747				0.72%
Sc Radial	176878.7	102.20	%	1.352				1.32%
Al_1 396.153 R†	16.8	0.00162	mg/L	0.002598	1.9398	mg/L	3.11872	160.78%
Al_2 308.215 R†	-0.5	-0.00019	mg/L	0.005697	-0.23196	mg/L	6.839110	>999.9%
Ca_315.887 R†	-10.8	-0.00062	mg/L	0.000842	-0.74060	mg/L	1.011307	136.55%
Fe_1 273.955†	378.7	0.00768	mg/L	0.000882	9.2227	mg/L	1.05861	11.48%
Fe_2 238.863 R†	11.7	0.01063	mg/L	0.006740	12.757	mg/L	8.0907	63.42%
Mg_279.077 R†	-4.4	-0.00196	mg/L	0.002766	-2.3553	mg/L	3.32080	140.99%
Na_1 589.592 R†	-21.1	-0.00189	mg/L	0.007280	-2.2689	mg/L	8.73958	385.18%
Na_2 330.237 R†	1.6	0.02214	mg/L	0.029146	26.581	mg/L	34.9894	131.63%
Zn_206.200†	18.2	0.00058	mg/L	0.000013	0.69494	mg/L	0.015672	2.26%

Sequence No.: 58
Sample ID: CCV
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 5/11/2006 3:38:53 PM
Data Type: Reprocessed on 5/12/2006 7:33:40 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	368697.9	97.369	%	0.7064				0.73%
In Radial	19613.6	96.201	%	3.8496				4.00%
Y_ Axial	1587647.0	96.373	%	0.6479				0.67%
Y_ Radial	146234.7	97.011	%	3.4026				3.51%
Sc Axial	1792257.3	97.079	%	0.7177				0.74%
Sc Radial	169802.4	98.108	%	3.3316				3.40%
Al_1 396.153 R†	263330.9	25.357	mg/L	1.1674	25.357	mg/L	1.1674	4.60%
Al_2 308.215 R†	68932.7	25.078	mg/L	0.0482	25.078	mg/L	0.0482	0.19%
Ca_315.887 R†	445134.0	25.393	mg/L	0.1736	25.393	mg/L	0.1736	0.68%
Fe_1 273.955†	1242496.3	25.205	mg/L	0.0087	25.205	mg/L	0.0087	0.03%
Fe_2 238.863 R†	27261.6	24.827	mg/L	0.0545	24.827	mg/L	0.0545	0.22%
Mg_279.077 R†	57731.3	25.544	mg/L	0.2133	25.544	mg/L	0.2133	0.83%
Na_1 589.592 R†	277050.3	24.785	mg/L	1.1490	24.785	mg/L	1.1490	4.64%
Na_2 330.237 R†	1776.3	23.957	mg/L	1.1786	23.957	mg/L	1.1786	4.92%
Zn_206.200†	78642.9	2.5052	mg/L	0.00052	2.5052	mg/L	0.00052	0.02%

Sequence No.: 59
Sample ID: CCB
Analyst: AWW
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 5/11/2006 3:41:13 PM
Data Type: Reprocessed on 5/12/2006 7:33:41 AM
Initial Sample Vol: 1 mL
Sample Prep Vol: 1 mL

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
In Axial	397550.3	104.99	%	3.369				3.21%
In Radial	20570.8	100.90	%	0.082				0.08%
Y_ Axial	1718917.2	104.34	%	3.256				3.12%
Y_ Radial	152557.3	101.21	%	1.124				1.11%
Sc Axial	1922838.3	104.15	%	3.286				3.16%
Sc Radial	174939.1	101.08	%	1.030				1.02%
Al_1 396.153 R†	-46.8	-0.00451	mg/L	0.000435	-0.00451	mg/L	0.000435	9.65%
Al_2 308.215 R†	13.5	0.00492	mg/L	0.004371	0.00492	mg/L	0.004371	88.81%
Ca_315.887 R†	35.1	0.00200	mg/L	0.000205	0.00200	mg/L	0.000205	10.23%
Fe_1 273.955†	128.7	0.00261	mg/L	0.000327	0.00261	mg/L	0.000327	12.51%
Fe_2 238.863 R†	-4.2	-0.00386	mg/L	0.000799	-0.00386	mg/L	0.000799	20.71%
Mg_279.077 R†	-9.7	-0.00430	mg/L	0.000234	-0.00430	mg/L	0.000234	5.45%
Na_1 589.592 R†	42.2	0.00378	mg/L	0.007798	0.00378	mg/L	0.007798	206.48%
Na_2 330.237 R†	2.9	0.04151	mg/L	0.216269	0.04151	mg/L	0.216269	521.06%
Zn_206.200†	12.0	0.00038	mg/L	0.000141	0.00038	mg/L	0.000141	36.83%

ICPMS

SEVERN TRENT STL

STL Sacramento
ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): (M01) M02		Method 6020 SOP SAC-MT-0001	
File Number 060515A1	Batch Numbers 6131060, 6124580, 6124604, 6132516	Date 5/15/06	Analyst BRJ

Lot Numbers G6D260271, G6E020266, G6D260252, G6E020171, G6E080132	YES	NO	NA
1. Copy of analysis protocol used included?	✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓		
3. ICB & CCBs < reporting limit or recal and rerun?	✓		
4. 10 samples or less analyzed between calibration checks?	✓		
5. All parameters within linear range?	✓		
6. LCS/LCSD within limits?	✓		
7. Prep blank value < reporting limit or all samples >20x blank?	✓	*1	
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?	✓		
9. Appropriate dilution factors applied to data?	✓		
10. Matrix spike and spike dup within customer defined limits?			✓
11. Each batch checked for presence of internal standard in samples?	✓		
12. Anomalies entered using Clouseau?	✓		✓

COMMENTS: *1 MB 6131060 OUT OF CONTROL FOR Fe. (SAMPLES > 10X MB) NCM- BRJ 5/17/06

REVIEWED BY: MTZ DATE: 5/17/06	DATA ENTERED BY: BRJ DATE: 5/16/06

q:\forms\checklists\qa-427 icpms review.doc QA-427 ERS 6/11/03

Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020
User Name: JonesB
Computer Name: SACP317A
Dataset File Path: c:\elandata\dataset\060515a1\
Report Date/Time: Tuesday, May 16, 2006 10:04:23

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	12:39:23 Mon 15-May-06	Sample	
	AUTOLENS BJONES	12:41:35 Mon 15-May-06	Sample	
	DAILY BJONES	12:45:04 Mon 15-May-06	Sample	
6131060	H3470 n.i.	14:33:39 Mon 15-May-06	Sample	G6D260271-3 N.I.
6131060	H4JJV n.i.	14:36:25 Mon 15-May-06	Sample	G6E020266-3 N.I.
6124580	H341E n.i.	14:39:12 Mon 15-May-06	Sample	G6D260252-1 N.I.
6124604	H4HK9 n.i.	14:41:59 Mon 15-May-06	Sample	G6E020171-1 N.I.
6132516	H4XGJ n.i.	14:44:47 Mon 15-May-06	Sample	G6E080132-1 N.I.
	Rinse 3X	14:53:05 Mon 15-May-06	Sample	
	Blank	14:57:42 Mon 15-May-06	Blank	
	Standard 1	15:02:12 Mon 15-May-06	Standard #1	
	ICV	15:06:28 Mon 15-May-06	Sample	
	ICB	15:10:48 Mon 15-May-06	Sample	
	ICSA	15:15:08 Mon 15-May-06	Sample	
	ICSAB	15:19:26 Mon 15-May-06	Sample	
	Rinse	15:27:37 Mon 15-May-06	Sample	
6124580	FB1	15:31:58 Mon 15-May-06	Sample	G6E040000-580 FB1-F1685532
6124580	FB2	15:36:18 Mon 15-May-06	Sample	G6E040000-580 FB2-F1815158
6124604	FB1	15:40:38 Mon 15-May-06	Sample	G6E040000-604 FB1-F1815158
6132516	FB1	15:44:59 Mon 15-May-06	Sample	G6E120000-516 FB1-F1815158
	CCV 1 >RECAL	15:49:20 Mon 15-May-06	Sample	
	CCB 1	15:53:41 Mon 15-May-06	Sample	
	CCV 2	15:58:01 Mon 15-May-06	Sample	
	CCB 2	16:02:22 Mon 15-May-06	Sample	
6131060	H45L1C	16:06:41 Mon 15-May-06	Sample	G6E110000-60 LCS
6131060	H45L1L	16:10:57 Mon 15-May-06	Sample	G6E110000-60 LCSD
	Rinse	16:15:15 Mon 15-May-06	Sample	
6131060	H45L1B	16:19:37 Mon 15-May-06	Sample	G6E110000-60 BLK - out Fe↑
6131060	H3470	16:23:56 Mon 15-May-06	Sample	G6D260271-3
6131060	H3470P5	16:28:13 Mon 15-May-06	Sample	G6D260271-3 5X
6131060	H3470Z	16:32:30 Mon 15-May-06	Sample	G6D260271-3 PS
6131060	H4JJV	16:36:47 Mon 15-May-06	Sample	G6E020266-3
6131060	H4JJ0	16:41:05 Mon 15-May-06	Sample	G6E020266-4
	CCV 3	16:45:24 Mon 15-May-06	Sample	
	CCB 3	16:49:45 Mon 15-May-06	Sample	
	CCV 4	16:54:06 Mon 15-May-06	Sample	
	CCB 4	16:58:26 Mon 15-May-06	Sample	
6124580	H4Q29C	17:02:45 Mon 15-May-06	Sample	G6E040000-580 LCS
6124580	H4Q29L	17:07:02 Mon 15-May-06	Sample	G6E040000-580 LCSD
	Rinse	17:11:21 Mon 15-May-06	Sample	
6124580	H4Q29B	17:15:42 Mon 15-May-06	Sample	G6E040000-580 BLK
6124580	H341E	17:20:02 Mon 15-May-06	Sample	G6D260252-1
6124580	H341EP5	17:24:21 Mon 15-May-06	Sample	G6D260252-1 5X
6124580	H341EZ	17:28:40 Mon 15-May-06	Sample	G6D260252-1 PS
6124580	H341Q	17:32:59 Mon 15-May-06	Sample	G6D260252-2
6124580	H341V	17:37:19 Mon 15-May-06	Sample	G6D260252-3
	CCV 5	17:41:39 Mon 15-May-06	Sample - out Cr	
	CCB 5	17:46:00 Mon 15-May-06	Sample	
	CCV 6	17:50:21 Mon 15-May-06	Sample	

Rerun Cr

	CCB 6	17:54:41 Mon 15-May-06	Sample	
6124580	H3413	17:59:02 Mon 15-May-06	Sample	G6D260252-4
6124580	H3414	18:03:23 Mon 15-May-06	Sample	G6D260252-5
6124580	H3416	18:07:44 Mon 15-May-06	Sample	G6D260252-6
6124580	H3417	18:12:05 Mon 15-May-06	Sample	G6D260252-7
6124580	H342E	18:16:27 Mon 15-May-06	Sample	G6D260252-8
6124580	H342L	18:20:49 Mon 15-May-06	Sample	G6D260252-9
6124580	H342M	18:25:12 Mon 15-May-06	Sample	G6D260252-10
6124580	H342P	18:29:35 Mon 15-May-06	Sample	G6D260252-11
6124580	H342Q	18:33:58 Mon 15-May-06	Sample	G6D260252-12
	CCV 7 >RECAL	18:38:20 Mon 15-May-06	Sample	
	CCB 7	18:42:41 Mon 15-May-06	Sample - cut Zn ↓ (<-RL)	
	CCV 8	18:47:02 Mon 15-May-06	Sample	
	CCB 8	18:51:23 Mon 15-May-06	Sample	
6124604	H4Q34B	18:55:45 Mon 15-May-06	Sample	G6E040000-604 BLK
6124604	H4Q34C	19:00:04 Mon 15-May-06	Sample	G6E040000-604 LCS
6124604	H4Q34L	19:04:22 Mon 15-May-06	Sample	G6E040000-604 LCSD
6124604	H4HK9	19:08:39 Mon 15-May-06	Sample	G6E020171-1
6124604	H4HK9P5	19:12:55 Mon 15-May-06	Sample	G6E020171-1 5X
6124604	H4HK9Z	19:17:12 Mon 15-May-06	Sample	G6E020171-1 PS
6124604	H4HLD	19:21:30 Mon 15-May-06	Sample	G6E020171-2
6124604	H4HLH	19:25:47 Mon 15-May-06	Sample	G6E020171-3
6124604	H4HLN	19:30:05 Mon 15-May-06	Sample	G6E020171-4
6124604	H4HLV	19:34:24 Mon 15-May-06	Sample	G6E020171-5
	CCV 9	19:38:43 Mon 15-May-06	Sample	
	CCB 9	19:43:04 Mon 15-May-06	Sample	
	CCV 10	19:47:25 Mon 15-May-06	Sample	
	CCB 10	19:51:46 Mon 15-May-06	Sample	
6124604	H4HLX	19:56:06 Mon 15-May-06	Sample	G6E020171-6
6124604	H4HL1	20:00:25 Mon 15-May-06	Sample	G6E020171-7
6124604	H4HL2	20:04:45 Mon 15-May-06	Sample	G6E020171-8
6124604	H4HL3	20:09:05 Mon 15-May-06	Sample	G6E020171-9
6124604	H4HL6	20:13:26 Mon 15-May-06	Sample	G6E020171-10
6124604	H4HL7	20:17:47 Mon 15-May-06	Sample	G6E020171-11
6124604	H4HL8	20:22:08 Mon 15-May-06	Sample	G6E020171-12
6124604	H4HL9	20:26:30 Mon 15-May-06	Sample	G6E020171-13
6124604	H4HMA	20:30:52 Mon 15-May-06	Sample	G6E020171-14
6124604	H4HMD	20:35:14 Mon 15-May-06	Sample	G6E020171-15
	CCV 11 >RECAL	20:39:36 Mon 15-May-06	Sample	
	CCB 11	20:43:57 Mon 15-May-06	Sample	
	CCV 12	20:48:17 Mon 15-May-06	Sample	
	CCB 12	20:52:38 Mon 15-May-06	Sample	
6132516	H5CJ4C	20:56:58 Mon 15-May-06	Sample	G6E120000-516 LCS
6132516	H5CJ4L	21:01:16 Mon 15-May-06	Sample	G6E120000-516 LCSD
	Rinse	21:05:36 Mon 15-May-06	Sample	
6132516	H5CJ4B	21:09:59 Mon 15-May-06	Sample	G6E120000-516 BLK
6132516	H4XGJ	21:14:18 Mon 15-May-06	Sample	G6E080132-1
6132516	H4XGJP5	21:18:34 Mon 15-May-06	Sample	G6E080132-1 5X
6132516	H4XGJZ	21:22:50 Mon 15-May-06	Sample	G6E080132-1 PS
6132516	H4XGK	21:27:07 Mon 15-May-06	Sample	G6E080132-2
6132516	H4XGN	21:31:24 Mon 15-May-06	Sample	G6E080132-3
6132516	H4XGP	21:35:42 Mon 15-May-06	Sample	G6E080132-4
	CCV 13	21:40:01 Mon 15-May-06	Sample	
	CCB 13	21:44:22 Mon 15-May-06	Sample	
	CCV 14	21:48:43 Mon 15-May-06	Sample	
	CCB 14	21:53:03 Mon 15-May-06	Sample	
6132516	H4XGQ	21:57:23 Mon 15-May-06	Sample	G6E080132-5
6132516	H4XGR	22:01:42 Mon 15-May-06	Sample	G6E080132-6
6132516	H4XGW	22:06:00 Mon 15-May-06	Sample	G6E080132-7
6132516	H4XGX	22:10:19 Mon 15-May-06	Sample	G6E080132-8

RERUN Zn

6132516	H4XG0	22:14:39 Mon 15-May-06	Sample	G6E080132-9
6132516	H4XG7	22:18:59 Mon 15-May-06	Sample	G6E080132-10
6132516	H4XG8	22:23:19 Mon 15-May-06	Sample	G6E080132-11
6132516	H4XG9	22:27:40 Mon 15-May-06	Sample	G6E080132-12
6132516	H4XHA	22:32:01 Mon 15-May-06	Sample	G6E080132-13
6132516	H4XHD	22:36:22 Mon 15-May-06	Sample	G6E080132-14
	CCV 15	22:40:43 Mon 15-May-06	Sample	
	CCB 15	22:45:04 Mon 15-May-06	Sample	

STL Sacramento RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 05/16/06 17:07:59

File ID: 060515A1 **Analyst:** ionesb

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	H3470 n.i.	G6D260271-3	6131060	2A	1.0	05/15/06 14:33		☐
2	H4JJV n.i.	G6E020266-3	6131060	2A	1.0	05/15/06 14:36		☐
3	H341E n.i.	G6D260252-1	6124580	2A	1.0	05/15/06 14:39		☐
4	H4HK9 n.i.	G6E020171-1	6124604	2A	1.0	05/15/06 14:41		☐
5	H4XGJ n.i.	G6E080132-1	6132516	2A	1.0	05/15/06 14:44		☐
6	Rinse 3X				3.0	05/15/06 14:53		☐
7	Blank				1.0	05/15/06 14:57		☐
8	Standard1				1.0	05/15/06 15:02		☐
9	ICV				1.0	05/15/06 15:06		☐
10	ICB				1.0	05/15/06 15:10		☐
11	ICSA				1.0	05/15/06 15:15		☐
12	ICSAB				1.0	05/15/06 15:19		☐
13	Rinse				1.0	05/15/06 15:27		☐
14	FB1				1.0	05/15/06 15:31		☐
15	FB2				1.0	05/15/06 15:36		☐
16	FB1				1.0	05/15/06 15:40		☐
17	FB1				1.0	05/15/06 15:44		☐
18	CCV 1				1.0	05/15/06 15:49		☐
19	CCB 1				1.0	05/15/06 15:53		☐
22	CCV 2				1.0	05/15/06 15:58		☐
23	CCB 2				1.0	05/15/06 16:02		☐
24	H45L1C	G6E110000	6131060	2A	1.0	05/15/06 16:06		☐
25	H45L1L	G6E110000	6131060	2A	1.0	05/15/06 16:10		☐
26	Rinse				1.0	05/15/06 16:15		☐
27	H45L1B	G6E110000	6131060	2A	1.0	05/15/06 16:19		☐
28	H3470	G6D260271-3	6131060	2A	1.0	05/15/06 16:23		☐
29	H3470P5	G6D260271	6131060		5.0	05/15/06 16:28		☐
30	H3470Z	G6D260271-3	6131060		1.0	05/15/06 16:32		☐
31	H4JJV	G6E020266-3	6131060	2A	1.0	05/15/06 16:36		☐
32	H4JJ0	G6E020266-4	6131060	2A	1.0	05/15/06 16:41		☐
33	CCV 3				1.0	05/15/06 16:45		☐
34	CCB 3				1.0	05/15/06 16:49		☐
35	CCV 4				1.0	05/15/06 16:54		☐
36	CCB 4				1.0	05/15/06 16:58		☐
37	H4Q29C	G6E040000	6124580	2A	1.0	05/15/06 17:02		☐
38	H4Q29L	G6E040000	6124580	2A	1.0	05/15/06 17:07		☐
39	Rinse				1.0	05/15/06 17:11		☐
40	H4Q29B	G6E040000	6124580	2A	1.0	05/15/06 17:15		☐
41	H341E	G6D260252-1	6124580	2A	1.0	05/15/06 17:20		☐
42	H341EP5	G6D260252	6124580		5.0	05/15/06 17:24		☐
43	H341EZ	G6D260252-1	6124580		1.0	05/15/06 17:28		☐
44	H341Q	G6D260252-2	6124580	2A	1.0	05/15/06 17:32		☐
45	H341V	G6D260252-3	6124580	2A	1.0	05/15/06 17:37		☐
46	CCV 5				1.0	05/15/06 17:41		☐
47	CCB 5				1.0	05/15/06 17:46		☐
48	CCV 6				1.0	05/15/06 17:50		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 05/16/06 17:07:59

File ID: **060515A1** **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
49	CCB 6				1.0	05/15/06 17:54		☐
50	H3413	G6D260252-4	6124580	2A	1.0	05/15/06 17:59		☐
51	H3414	G6D260252-5	6124580	2A	1.0	05/15/06 18:03		☐
52	H3416	G6D260252-6	6124580	2A	1.0	05/15/06 18:07		☐
53	H3417	G6D260252-7	6124580	2A	1.0	05/15/06 18:12		☐
54	H342E	G6D260252-8	6124580	2A	1.0	05/15/06 18:16		☐
55	H342L	G6D260252-9	6124580	2A	1.0	05/15/06 18:20		☐
56	H342M	G6D260252-10	6124580	2A	1.0	05/15/06 18:25		☐
57	H342P	G6D260252-11	6124580	2A	1.0	05/15/06 18:29		☐
58	H342Q	G6D260252-12	6124580	2A	1.0	05/15/06 18:33		☐
59	CCV 7				1.0	05/15/06 18:38		☐
60	CCB 7				1.0	05/15/06 18:42		☐
63	CCV 8				1.0	05/15/06 18:47		☐
64	CCB 8				1.0	05/15/06 18:51		☐
65	H4Q34B	G6E040000	6124604	2A	1.0	05/15/06 18:55		☐
66	H4Q34C	G6E040000	6124604	2A	1.0	05/15/06 19:00		☐
67	H4Q34L	G6E040000	6124604	2A	1.0	05/15/06 19:04		☐
68	H4HK9	G6E020171-1	6124604	2A	1.0	05/15/06 19:08		☐
69	H4HK9P5	G6E020171	6124604		5.0	05/15/06 19:12		☐
70	H4HK9Z	G6E020171-1	6124604		1.0	05/15/06 19:17		☐
71	H4HLD	G6E020171-2	6124604	2A	1.0	05/15/06 19:21		☐
72	H4HLH	G6E020171-3	6124604	2A	1.0	05/15/06 19:25		☐
73	H4HLN	G6E020171-4	6124604	2A	1.0	05/15/06 19:30		☐
74	H4HLV	G6E020171-5	6124604	2A	1.0	05/15/06 19:34		☐
75	CCV 9				1.0	05/15/06 19:38		☐
76	CCB 9				1.0	05/15/06 19:43		☐
77	CCV 10				1.0	05/15/06 19:47		☐
78	CCB 10				1.0	05/15/06 19:51		☐
79	H4HLX	G6E020171-6	6124604	2A	1.0	05/15/06 19:56		☐
80	H4HL1	G6E020171-7	6124604	2A	1.0	05/15/06 20:00		☐
81	H4HL2	G6E020171-8	6124604	2A	1.0	05/15/06 20:04		☐
82	H4HL3	G6E020171-9	6124604	2A	1.0	05/15/06 20:09		☐
83	H4HL6	G6E020171-10	6124604	2A	1.0	05/15/06 20:13		☐
84	H4HL7	G6E020171-11	6124604	2A	1.0	05/15/06 20:17		☐
85	H4HL8	G6E020171-12	6124604	2A	1.0	05/15/06 20:22		☐
86	H4HL9	G6E020171-13	6124604	2A	1.0	05/15/06 20:26		☐
87	H4HMA	G6E020171-14	6124604	2A	1.0	05/15/06 20:30		☐
88	H4HMD	G6E020171-15	6124604	2A	1.0	05/15/06 20:35		☐
89	CCV 11				1.0	05/15/06 20:39		☐
90	CCB 11				1.0	05/15/06 20:43		☐
93	CCV 12				1.0	05/15/06 20:48		☐
94	CCB 12				1.0	05/15/06 20:52		☐
95	H5CJ4C	G6E120000	6132516	2A	1.0	05/15/06 20:56		☐
96	H5CJ4L	G6E120000	6132516	2A	1.0	05/15/06 21:01		☐
97	Rinse				1.0	05/15/06 21:05		☐
98	H5CJ4B	G6E120000	6132516	2A	1.0	05/15/06 21:09		☐

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 05/16/06 17:07:59

File ID: **060515A1** **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
99	H4XGJ	G6E080132-1	6132516	2A	1.0	05/15/06 21:14		☐
100	H4XGJP5	G6E080132	6132516		5.0	05/15/06 21:18		☐
101	H4XGJZ	G6E080132-1	6132516		1.0	05/15/06 21:22		☐
102	H4XGK	G6E080132-2	6132516	2A	1.0	05/15/06 21:27		☐
103	H4XGN	G6E080132-3	6132516	2A	1.0	05/15/06 21:31		☐
104	H4XGP	G6E080132-4	6132516	2A	1.0	05/15/06 21:35		☐
105	CCV 13				1.0	05/15/06 21:40		☐
106	CCB 13				1.0	05/15/06 21:44		☐
107	CCV 14				1.0	05/15/06 21:48		☐
108	CCB 14				1.0	05/15/06 21:53		☐
109	H4XGQ	G6E080132-5	6132516	2A	1.0	05/15/06 21:57		☐
110	H4XGR	G6E080132-6	6132516	2A	1.0	05/15/06 22:01		☐
111	H4XGW	G6E080132-7	6132516	2A	1.0	05/15/06 22:06		☐
112	H4XGX	G6E080132-8	6132516	2A	1.0	05/15/06 22:10		☐
113	H4XG0	G6E080132-9	6132516	2A	1.0	05/15/06 22:14		☐
114	H4XG7	G6E080132-10	6132516	2A	1.0	05/15/06 22:18		☐
115	H4XG8	G6E080132-11	6132516	2A	1.0	05/15/06 22:23		☐
116	H4XG9	G6E080132-12	6132516	2A	1.0	05/15/06 22:27		☐
117	H4XHA	G6E080132-13	6132516	2A	1.0	05/15/06 22:32		☐
118	H4XHD	G6E080132-14	6132516	2A	1.0	05/15/06 22:36		☐
119	CCV 15				1.0	05/15/06 22:40		☐
120	CCB 15				1.0	05/15/06 22:45		☐

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 05/16/06 17:07:59

File ID: 060515A1 **Analyst:** ionesb

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
1	H3470 n.i.	05/15/06 14:33	0.3	0.0	0.1	0.0	☐
2	H4JJV n.i.	05/15/06 14:36	0.1	0.0	0.1	0.0	☐
3	H341E n.i.	05/15/06 14:39	0.1	0.0	0.1	0.0	☐
4	H4HK9 n.i.	05/15/06 14:41	0.1	0.0	0.1	0.0	☐
5	H4XGJ n.i.	05/15/06 14:44	0.1	0.0	0.1	0.0	☐
6	Rinse 3X	05/15/06 14:53	100.7	99.5	99.9	98.8	☐
7	Blank	05/15/06 14:57	100.0	100.0	100.0	100.0	☑
8	Standard1	05/15/06 15:02	99.2	97.2	96.3	98.5	☑
9	ICV	05/15/06 15:06	102.1	100.1	99.0	100.8	☑
10	ICB	05/15/06 15:10	103.3	101.5	100.0	103.0	☑
11	ICSA	05/15/06 15:15	83.4	87.3	80.0	87.6	☑
12	ICSAB	05/15/06 15:19	84.8	89.6	80.2	91.6	☑
13	Rinse	05/15/06 15:27	109.6	110.2	92.9	111.4	☑
14	FB1	05/15/06 15:31	108.0	113.1	94.9	114.0	☑
15	FB2	05/15/06 15:36	107.3	110.6	92.4	112.7	☑
16	FB1	05/15/06 15:40	106.2	111.2	90.7	112.0	☑
17	FB1	05/15/06 15:44	104.4	110.7	88.8	112.0	☑
18	CCV 1	05/15/06 15:49	106.0	105.6	89.4	107.9	☑
19	CCB 1	05/15/06 15:53	108.9	106.8	92.7	109.7	☑
22	CCV 2	05/15/06 15:58	98.4	98.6	99.4	98.2	☑
23	CCB 2	05/15/06 16:02	102.3	101.1	99.3	100.1	☑
24	H45L1C	05/15/06 16:06	96.0	100.2	105.3	100.7	☑
25	H45L1L	05/15/06 16:10	94.8	100.3	105.8	101.6	☑
26	Rinse	05/15/06 16:15	98.7	99.1	106.4	98.7	☑
27	H45L1B	05/15/06 16:19	95.7	102.6	107.9	101.7	☑
28	H3470	05/15/06 16:23	97.3	100.8	104.2	101.8	☑
29	H3470P5	05/15/06 16:28	100.6	101.4	104.1	99.2	☐
30	H3470Z	05/15/06 16:32	95.3	99.0	102.9	99.5	☑
31	H4JJV	05/15/06 16:36	95.4	99.7	103.8	99.8	☑
32	H4JJ0	05/15/06 16:41	96.8	101.1	104.5	101.0	☑
33	CCV 3	05/15/06 16:45	98.7	97.5	102.0	97.3	☑
34	CCB 3	05/15/06 16:49	99.6	99.2	100.9	97.8	☑
35	CCV 4	05/15/06 16:54	98.7	98.0	102.1	98.7	☑
36	CCB 4	05/15/06 16:58	100.4	99.5	103.0	98.6	☑
37	H4Q29C	05/15/06 17:02	96.5	99.8	106.0	101.3	☑
38	H4Q29L	05/15/06 17:07	96.0	100.1	106.4	101.5	☑
39	Rinse	05/15/06 17:11	98.2	98.5	107.9	98.6	☑
40	H4Q29B	05/15/06 17:15	96.9	101.0	108.2	101.4	☑
41	H341E	05/15/06 17:20	97.4	102.3	108.8	100.6	☑
42	H341EP5	05/15/06 17:24	99.0	100.1	107.7	98.9	☐
43	H341EZ	05/15/06 17:28	94.0	98.9	107.7	98.4	☑
44	H341Q	05/15/06 17:32	96.7	100.1	107.3	100.7	☑
45	H341V	05/15/06 17:37	96.4	101.1	108.9	101.4	☑
46	CCV 5	05/15/06 17:41	97.8	95.9	103.3	96.3	☑
47	CCB 5	05/15/06 17:46	101.0	98.6	104.0	98.4	☑
48	CCV 6	05/15/06 17:50	98.8	96.7	104.4	96.6	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 05/16/06 17:07:59

File ID: **060515A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
49	CCB 6	05/15/06 17:54	101.0	99.1	104.0	99.2	☑
50	H3413	05/15/06 17:59	96.7	100.2	103.8	100.4	☑
51	H3414	05/15/06 18:03	98.3	100.6	105.9	100.8	☑
52	H3416	05/15/06 18:07	96.3	99.4	104.0	101.1	☑
53	H3417	05/15/06 18:12	96.2	100.7	103.9	100.9	☑
54	H342E	05/15/06 18:16	99.1	101.8	104.7	100.7	☑
55	H342L	05/15/06 18:20	96.7	100.4	102.9	100.8	☑
56	H342M	05/15/06 18:25	97.1	103.1	105.3	101.4	☑
57	H342P	05/15/06 18:29	97.7	100.3	103.2	99.2	☑
58	H342Q	05/15/06 18:33	97.4	101.7	103.8	99.9	☑
59	CCV 7	05/15/06 18:38	99.3	95.8	102.2	96.7	☑
60	CCB 7	05/15/06 18:42	101.8	97.6	104.1	98.9	☑
63	CCV 8	05/15/06 18:47	97.3	98.5	98.3	99.1	☑
64	CCB 8	05/15/06 18:51	99.2	99.3	99.7	99.4	☑
65	H4Q34B	05/15/06 18:55	95.1	101.3	97.1	101.4	☑
66	H4Q34C	05/15/06 19:00	94.3	101.4	101.5	100.5	☑
67	H4Q34L	05/15/06 19:04	92.9	99.1	103.2	100.1	☑
68	H4HK9	05/15/06 19:08	96.1	101.1	106.0	101.6	☑
69	H4HK9P5	05/15/06 19:12	96.3	98.3	105.1	99.0	☐
70	H4HK9Z	05/15/06 19:17	90.8	97.6	103.6	99.3	☑
71	H4HLD	05/15/06 19:21	95.3	99.4	104.6	101.1	☑
72	H4HLH	05/15/06 19:25	92.0	98.7	101.3	99.1	☑
73	H4HLN	05/15/06 19:30	93.4	98.2	104.5	99.7	☑
74	H4HLV	05/15/06 19:34	92.8	98.9	104.6	99.8	☑
75	CCV 9	05/15/06 19:38	96.6	96.9	103.0	98.4	☑
76	CCB 9	05/15/06 19:43	99.6	99.8	103.9	99.2	☑
77	CCV 10	05/15/06 19:47	94.7	94.8	98.5	95.1	☑
78	CCB 10	05/15/06 19:51	96.8	98.0	99.7	98.3	☑
79	H4HLX	05/15/06 19:56	94.0	98.7	100.5	100.0	☑
80	H4HL1	05/15/06 20:00	94.6	100.1	101.8	101.2	☑
81	H4HL2	05/15/06 20:04	92.2	98.7	99.9	99.6	☑
82	H4HL3	05/15/06 20:09	91.2	97.9	97.0	98.2	☑
83	H4HL6	05/15/06 20:13	93.4	100.2	99.7	100.5	☑
84	H4HL7	05/15/06 20:17	92.8	99.1	96.2	99.6	☑
85	H4HL8	05/15/06 20:22	95.6	102.3	100.9	101.7	☑
86	H4HL9	05/15/06 20:26	92.7	99.5	97.0	99.1	☑
87	H4HMA	05/15/06 20:30	94.0	100.1	99.5	100.5	☑
88	H4HMD	05/15/06 20:35	93.7	101.0	96.9	100.2	☑
89	CCV 11	05/15/06 20:39	94.0	94.7	96.4	96.2	☑
90	CCB 11	05/15/06 20:43	94.5	94.5	98.3	95.6	☑
93	CCV 12	05/15/06 20:48	99.1	99.2	97.9	99.6	☑
94	CCB 12	05/15/06 20:52	103.5	102.2	101.3	101.7	☑
95	H5CJ4C	05/15/06 20:56	97.0	102.4	102.9	102.6	☑
96	H5CJ4L	05/15/06 21:01	95.0	101.7	102.2	104.2	☑
97	Rinse	05/15/06 21:05	99.3	100.6	104.3	101.4	☑
98	H5CJ4B	05/15/06 21:09	95.9	102.7	105.3	104.2	☑

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 05/16/06 17:07:59

File ID: **060515A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Indium	Lithium-6	Thulium	Q
99	H4XGJ	05/15/06 21:14	98.0	103.3	106.5	104.3	☑
100	H4XGJP5	05/15/06 21:18	98.7	101.4	106.1	102.0	☐
101	H4XGJZ	05/15/06 21:22	94.6	101.2	103.1	101.3	☑
102	H4XGK	05/15/06 21:27	95.8	101.8	105.8	103.0	☑
103	H4XGN	05/15/06 21:31	94.4	101.1	105.8	102.8	☑
104	H4XGP	05/15/06 21:35	96.1	101.6	105.0	102.0	☑
105	CCV 13	05/15/06 21:40	99.2	99.3	99.0	99.2	☑
106	CCB 13	05/15/06 21:44	99.3	100.4	101.4	99.9	☑
107	CCV 14	05/15/06 21:48	99.4	98.6	100.9	99.5	☑
108	CCB 14	05/15/06 21:53	99.1	99.6	100.5	100.2	☑
109	H4XGQ	05/15/06 21:57	98.2	102.7	103.1	104.4	☑
110	H4XGR	05/15/06 22:01	95.9	102.2	102.7	101.7	☑
111	H4XGW	05/15/06 22:06	98.8	103.6	103.8	104.3	☑
112	H4XGX	05/15/06 22:10	97.6	104.6	102.5	103.7	☑
113	H4XG0	05/15/06 22:14	96.8	103.1	102.5	103.5	☑
114	H4XG7	05/15/06 22:18	97.8	102.6	101.2	102.8	☑
115	H4XG8	05/15/06 22:23	98.6	103.4	102.5	102.3	☑
116	H4XG9	05/15/06 22:27	99.8	103.0	104.8	102.4	☑
117	H4XHA	05/15/06 22:32	99.5	102.2	102.1	102.9	☑
118	H4XHD	05/15/06 22:36	95.8	101.8	101.4	101.5	☑
119	CCV 15	05/15/06 22:40	96.9	97.1	99.5	98.6	☑
120	CCB 15	05/15/06 22:45	98.3	97.0	100.5	98.9	☑

STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 6131060.mth
File Path: C:\elandata\Method\6131060.mth

Timing Parameters

Sweeps/Reading: 50
Readings/Replicate: 1
Number of Replicates: 3
Tuning File: default.tun
Optimization File: default.dac
QC Enabled: Yes
Settling Time: Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Li-1	6.015	Peak Hopping	1	14.0 ms	700 ms
Be	9.012	Peak Hopping	1	14.0 ms	700 ms
Al	26.982	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
V	50.944	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Mn	54.938	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Co	58.933	Peak Hopping	1	14.0 ms	700 ms
Ni	59.933	Peak Hopping	1	14.0 ms	700 ms
Cu	64.928	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
As	74.922	Peak Hopping	1	20.0 ms	1000 ms
Se	81.917	Peak Hopping	1	20.0 ms	1000 ms
Mo	96.906	Peak Hopping	1	14.0 ms	700 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Ag	106.905	Peak Hopping	1	14.0 ms	700 ms
Cd	110.904	Peak Hopping	1	14.0 ms	700 ms
Sb	120.904	Peak Hopping	1	14.0 ms	700 ms
Ba	134.906	Peak Hopping	1	14.0 ms	700 ms
In-1	114.904	Peak Hopping	1	14.0 ms	700 ms
Tl	204.975	Peak Hopping	1	14.0 ms	700 ms
Pb	207.977	Peak Hopping	1	14.0 ms	700 ms
Tm-1	168.934	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Ni	60.931	Peak Hopping	1	5.0 ms	250 ms
Cu	62.930	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Se	75.919	Peak Hopping	1	5.0 ms	250 ms
Se	76.920	Peak Hopping	1	20.0 ms	1000 ms
Se	77.917	Peak Hopping	1	20.0 ms	1000 ms
Br	78.918	Peak Hopping	1	20.0 ms	1000 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Cd	107.904	Peak Hopping	1	5.0 ms	250 ms
Cd	113.904	Peak Hopping	1	14.0 ms	700 ms

Ag	108.905	Peak Hopping	1	5.0 ms	250 ms
In	114.904	Peak Hopping	1	14.0 ms	700 ms
207.977	207.977	Peak Hopping	1	14.0 ms	700 ms
Pb	206.976	Peak Hopping	1	14.0 ms	700 ms
Pb	205.975	Peak Hopping	1	14.0 ms	700 ms
Tm	168.934	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
V	50.944	-3.108 * Cr 53 + 0.3524 * Cr 52
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Ni	59.933	-0.005 * Ca 43
Cu	64.928	-0.0078 * Ti 49
As	74.922	-3.1278 * Se 77 + 1.0177 * Se 78
Se	81.917	- 0.00325 * Br 79
Cd	110.904	-1.073 * Pd 108 + 0.712 * Pd 106
In-1	114.904	- 0.014032 * Sn 118
Pb	207.977	+ 1.0 * Pb 207 + 1.0 * Pb 206
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51
Se	75.919	- 0.268980 * Ge 72
Se	77.917	- 0.030435 * Kr 83
Cd	107.904	- 1.184953 * Pd 105
Cd	113.904	- 0.026826 * Sn 118
In	114.904	- 0.014032 * Sn 118

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Li-1	6.015	Linear Thru Zero	ug/L	ug/L				
Be	9.012	Linear Thru Zero	ug/L	ug/L	100			
Al	26.982	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
V	50.944	Linear Thru Zero	ug/L	ug/L	100			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Mn	54.938	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Co	58.933	Linear Thru Zero	ug/L	ug/L	100			
Ni	59.933	Linear Thru Zero	ug/L	ug/L	100			
Cu	64.928	Linear Thru Zero	ug/L	ug/L	100			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			
As	74.922	Linear Thru Zero	ug/L	ug/L	100			

Se	81.917	Linear Thru Zero	ug/L	ug/L	100
Mo	96.906	Linear Thru Zero	ug/L	ug/L	200
Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Ag	106.905	Linear Thru Zero	ug/L	ug/L	50
Cd	110.904	Linear Thru Zero	ug/L	ug/L	100
Sb	120.904	Linear Thru Zero	ug/L	ug/L	50
Ba	134.906	Linear Thru Zero	ug/L	ug/L	100
In-1	114.904	Linear Thru Zero	ug/L	ug/L	
Tl	204.975	Linear Thru Zero	ug/L	ug/L	50
Pb	207.977	Linear Thru Zero	ug/L	ug/L	100
Tm-1	168.934	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Ni	60.931	Linear Thru Zero	ug/L	ug/L	100
Cu	62.930	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Se	75.919	Linear Thru Zero	ug/L	ug/L	100
Se	76.920	Linear Thru Zero	ug/L	ug/L	100
Se	77.917	Linear Thru Zero	ug/L	ug/L	100
Br	78.918	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Cd	107.904	Linear Thru Zero	ug/L	ug/L	100
Cd	113.904	Linear Thru Zero	ug/L	ug/L	100
Ag	108.905	Linear Thru Zero	ug/L	ug/L	50
In	114.904	Linear Thru Zero	ug/L	ug/L	
207.977	207.977	Linear Thru Zero	ug/L	ug/L	100
Pb	206.976	Linear Thru Zero	ug/L	ug/L	100
Pb	205.975	Linear Thru Zero	ug/L	ug/L	100
Tm	168.934	Linear Thru Zero	ug/L	ug/L	
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 2532-60D

Internal standard: 2532-64B

Blank, CCBs: 2531-21A

Standard 1, CCVs: 2532-63C

ICV: 2532-63D

ICSA: 2532-63E

ICSAB: 2532-64A

File Number: **060515A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Monday, May 15, 2006 12:39:23

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.077	1572	0.736	2035	
Be	9.012	9.079	2057	0.709	2021	
Co	58.933	58.979	14298	0.730	1892	
In	114.904	114.928	27955	0.734	1858	
Ce	139.905	139.878	34030	0.723	1905	
Tl	204.975	204.929	49733	0.734	2128	
Pb	207.977	207.978	50452	0.711	2146	
U	238.050	238.026	57679	0.707	2311	

Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Monday, May 15, 2006 12:45:04
Sample ID: DAILY BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.5
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

AutoLens Calibration

Date:	12:41:35 Mon 15-May-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	c:\elandata\Dataset\060515a1\
Lens Voltage Start:	3.00 V
Lens Voltage End:	7.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0141
Intercept:	4.2264

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.011	4.3 V	5124 cps	17
Co	58.934	5.3 V	304740 cps	17
In	114.903	5.8 V	720236 cps	17

Dual Detector Calibration

Date:	12:49:57 Mon 15-May-06
Sample Filename:	DUAL BJONES.748
Dataset Pathname:	dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.015	8711	1.44e+009 cps
Li	7.016	8195	1.53e+009 cps

Be	9.012	7726	1.62e+009 cps
B	11.009	8089	1.55e+009 cps
Na	22.990	8021	1.56e+009 cps
Mg	23.985	7446	1.68e+009 cps
Mg	24.986	7338	1.71e+009 cps
Al	26.982	6902	1.81e+009 cps
P	30.994	6536	1.92e+009 cps
K	38.964	6295	1.99e+009 cps
Ca	42.959	3390	3.69e+009 cps
Ca	43.956	6338	1.98e+009 cps
Sc	44.956	6228	2.01e+009 cps
V	50.944	6150	2.04e+009 cps
Cr	51.941	5799	2.16e+009 cps
Fe	53.940	5678	2.20e+009 cps
Mn	54.938	5670	2.21e+009 cps
Fe	56.935	5591	2.24e+009 cps
Co	58.933	5336	2.35e+009 cps
Ni	59.933	5197	2.41e+009 cps
Cu	62.930	5041	2.48e+009 cps
Cu	64.928	5028	2.49e+009 cps
Zn	67.925	5038	2.48e+009 cps
Ge	71.922	5155	2.43e+009 cps
As	74.922	5232	2.39e+009 cps
Se	77.917	5271	2.38e+009 cps
Br	78.918	5300	2.36e+009 cps
Se	81.917	5154	2.43e+009 cps
Sr	87.906	5159	2.43e+009 cps
Mo	96.906	5271	2.38e+009 cps
Ag	106.905	4642	2.70e+009 cps
Ag	108.905	4619	2.71e+009 cps
Cd	110.904	4678	2.68e+009 cps
Cd	113.904	4643	2.70e+009 cps
In	114.904	4676	2.68e+009 cps
Sn	117.902	4740	2.64e+009 cps
Sb	120.904	4724	2.65e+009 cps
Ba	134.906	4643	2.70e+009 cps
Tm	168.934	4419	2.83e+009 cps
Tl	204.975	4092	3.06e+009 cps
Pb	207.977	4163	3.01e+009 cps
Bi	208.980	4120	3.04e+009 cps
U	238.050	4133	3.03e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Monday, May 15, 2006 12:45:04
Sample Description:
Sample File:
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: c:\elandata\dataset\060515a1\DAILY BJONES.003
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	45748.157	837.201	1.830
	Rh	103	509503.665	14297.328	2.806
	Pb	208	243643.641	3382.136	1.388
⌈>	Ba	138	451068.177	3961.228	0.878
⌊	Ba++	69	0.028	0.001	2.547
⌈>	Ce	140	533400.464	4860.160	0.911
⌊	CeO	156	0.030	0.001	1.884
	Bkgd	220	6.286	3.130	49.793
	Li	7	15114.277	241.227	1.596
	Be	9	4589.985	48.142	1.049
	Co	59	231297.706	5088.456	2.200
	In	115	633760.184	13173.623	2.079
	Tl	205	341771.686	1788.300	0.523

Sample ID: H3470 n.i.
Sample Description: G6D260271-3 N.I.
Batch ID: 6131060
Sample Date/Time: Monday, May 15, 2006 14:33:39
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: c:\elandata\dataset\060515a1\H3470 n.i..004
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 27
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			1056.235	ug/L	0.000
45	Sc			72984.894	ug/L	0.000
69	Ga			20409.031	ug/L	0.000
72	Ge			15951.128	ug/L	0.000
89	Y			21710.744	ug/L	0.000
103	Rh			242.383	ug/L	0.000
115	In			2358.505	ug/L	0.000
133	Cs			16008.339	ug/L	0.000
165	Ho			709.068	ug/L	0.000
169	Tm			1344.358	ug/L	0.000
209	Bi			21017.181	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	

Sample ID: H4JJV n.i.
Sample Description: G6E020266-3 N.I.
Batch ID: 6131060
Sample Date/Time: Monday, May 15, 2006 14:36:25
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: c:\elandata\dataset\060515a1\H4JJV n.i..005
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 28
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			875.269	ug/L	0.000
45	Sc			70330.181	ug/L	0.000
69	Ga			22050.870	ug/L	0.000
72	Ge			6302.065	ug/L	0.000
89	Y			23433.377	ug/L	0.000
103	Rh			143.810	ug/L	0.000
115	In			2462.769	ug/L	0.000
133	Cs			6719.425	ug/L	0.000
165	Ho			791.454	ug/L	0.000
169	Tm			1393.411	ug/L	0.000
209	Bi			82684.974	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	

Sample ID: H341E n.i.
Sample Description: G6D260252-1 N.I.
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 14:39:12
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: c:\elandata\dataset\060515a1\H341E n.i..006
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 29
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			821.932	ug/L	0.000
45	Sc			63818.750	ug/L	0.000
69	Ga			3174.690	ug/L	0.000
72	Ge			3147.064	ug/L	0.000
89	Y			1997.779	ug/L	0.000
103	Rh			75.238	ug/L	0.000
115	In			1889.154	ug/L	0.000
133	Cs			1038.615	ug/L	0.000
165	Ho			67.143	ug/L	0.000
169	Tm			1093.857	ug/L	0.000
209	Bi			2627.419	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	

Sample ID: H4HK9 n.i.
Sample Description: G6E020171-1 N.I.
Batch ID: 6124604
Sample Date/Time: Monday, May 15, 2006 14:41:59
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: c:\elandata\dataset\060515a1\H4HK9 n.i..007
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 30
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			774.786	ug/L	0.000
45	Sc			63445.885	ug/L	0.000
69	Ga			3701.025	ug/L	0.000
72	Ge			3233.753	ug/L	0.000
89	Y			2832.702	ug/L	0.000
103	Rh			81.429	ug/L	0.000
115	In			1923.453	ug/L	0.000
133	Cs			1743.455	ug/L	0.000
165	Ho			112.858	ug/L	0.000
169	Tm			1059.569	ug/L	0.000
209	Bi			2744.111	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	

Sample ID: H4XGJ n.i.
Sample Description: G6E080132-1 N.I.
Batch ID: 6132516
Sample Date/Time: Monday, May 15, 2006 14:44:47
Method File: C:\elandata\Method\000-LISCGEIN....mth
Dataset File: c:\elandata\dataset\060515a1\H4XGJ n.i..008
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 31
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
6	Li			842.886	ug/L	0.000
45	Sc			65737.164	ug/L	0.000
69	Ga			6989.573	ug/L	0.000
72	Ge			4710.412	ug/L	0.000
89	Y			7342.637	ug/L	0.000
103	Rh			87.143	ug/L	0.000
115	In			1883.591	ug/L	0.000
133	Cs			4369.812	ug/L	0.000
165	Ho			267.146	ug/L	0.000
169	Tm			1060.998	ug/L	0.000
209	Bi			2314.500	ug/L	0.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Li	6	
Sc	45	
Ga	69	
Ge	72	
Y	89	
Rh	103	
In	115	
Cs	133	
Ho	165	
Tm	169	
Bi	209	

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 14:53:05
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\Rinse 3X.009
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3783366.053	ug/L	3860637.744
>	6	Li-1			1026712.818	ug/L	1027561.118
	9	Be	-0.007412	90.811	3.333	ug/L	5.667
	27	Al	0.295727	152.690	62704.113	ug/L	60543.406
	44	Ca	5.084647	13.095	120897.482	ug/L	117983.203
	51	V	-0.065746	420.940	-38582.166	ug/L	-37234.456
	52	Cr	0.089807	143.766	71094.078	ug/L	69403.901
	55	Mn	-0.005520	358.043	7094.216	ug/L	7169.608
	54	Fe	-2.051079	241.357	174721.364	ug/L	175796.273
	57	Fe	-0.300227	537.567	35423.598	ug/L	35313.856
	59	Co	-0.000231	334.731	183.335	ug/L	186.002
	60	Ni	0.001665	625.996	552.862	ug/L	542.865
	65	Cu	0.001862	118.791	699.295	ug/L	687.320
	68	Zn	1.339406	72.233	25844.527	ug/L	23733.517
	75	As	0.016774	911.146	34188.588	ug/L	33880.747
	82	Se	-0.397996	5.010	629.520	ug/L	775.348
	97	Mo	-0.001447	76.236	94.001	ug/L	98.334
>	72	Ge-1			3917415.841	ug/L	3889730.834
	107	Ag	0.000034	772.397	127.668	ug/L	127.668
	111	Cd	-0.001099	258.088	25.062	ug/L	29.072
	121	Sb	0.002901	91.706	281.005	ug/L	251.337
	135	Ba	0.000960	517.816	583.019	ug/L	583.019
>	115	In-1			3834851.214	ug/L	3852456.013
	205	Tl	-0.000295	260.223	469.346	ug/L	482.013
	208	Pb	0.010918	148.470	9113.194	ug/L	8860.100
>	169	Tm-1			2175024.670	ug/L	2200790.402
	50	Cr	-0.044597	208.188	-1567.908	ug/L	-1543.898
	53	Cr	1.205180	173.133	229586.263	ug/L	226274.004
	61	Ni	0.317646	1156.956	5995.752	ug/L	5933.968
	63	Cu	0.006004	96.927	254.344	ug/L	235.676
	67	Zn	2.077086	63.167	4579.022	ug/L	4291.946
	66	Zn	1.896409	36.140	12198.454	ug/L	10848.495
	76	Se	321.579083	21.061	-567765.479	ug/L	-551626.068
	77	Se	-1.341073	107.245	33970.099	ug/L	34099.119
	78	Se	-0.567189	70.259	36747.051	ug/L	37032.470

	79 Br	18.653777	240.604	103441.321	ug/L	101959.274
>	72 Ge			3917415.841	ug/L	3889730.834
	108 Cd	0.001875	1225.758	4.237	ug/L	3.817
	114 Cd	-0.001208	96.851	92.416	ug/L	102.769
	109 Ag	-0.000148	901.899	50.667	ug/L	51.667
>	115 In			3834851.214	ug/L	3852456.013
	208 207.977	0.009589	150.218	4820.663	ug/L	4713.937
	207 Pb	0.023897	59.159	2001.896	ug/L	1861.198
	206 Pb	0.003589	620.633	2290.635	ug/L	2284.965
>	169 Tm			2175024.670	ug/L	2200790.402
	106 Pd	0.009122	107.152	12.667	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.917
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	100.712
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.543
	Tl	205	
	Pb	208	
>	Tm-1	169	98.829
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	100.712
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	99.543
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.829
	Pd	106	

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 14:57:42
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\Blank.010
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3860637.744	ug/L	
>	6	Li-1			1027561.118	ug/L	
	9	Be			5.667	ug/L	
	27	Al			60543.406	ug/L	
	44	Ca			117983.203	ug/L	
	51	V			-37234.456	ug/L	
	52	Cr			69403.901	ug/L	
	55	Mn			7169.608	ug/L	
	54	Fe			175796.273	ug/L	
	57	Fe			35313.856	ug/L	
	59	Co			186.002	ug/L	
	60	Ni			542.865	ug/L	
	65	Cu			687.320	ug/L	
	68	Zn			23733.517	ug/L	
	75	As			33880.747	ug/L	
	82	Se			775.348	ug/L	
	97	Mo			98.334	ug/L	
>	72	Ge-1			3889730.834	ug/L	
	107	Ag			127.668	ug/L	
	111	Cd			29.072	ug/L	
	121	Sb			251.337	ug/L	
	135	Ba			583.019	ug/L	
>	115	In-1			3852456.013	ug/L	
	205	Tl			482.013	ug/L	
	208	Pb			8860.100	ug/L	
>	169	Tm-1			2200790.402	ug/L	
	50	Cr			-1543.898	ug/L	
	53	Cr			226274.004	ug/L	
	61	Ni			5933.968	ug/L	
	63	Cu			235.676	ug/L	
	67	Zn			4291.946	ug/L	
	66	Zn			10848.495	ug/L	
	76	Se			-551626.068	ug/L	
	77	Se			34099.119	ug/L	
	78	Se			37032.470	ug/L	

	79 Br	101959.274	ug/L
>	72 Ge	3889730.834	ug/L
	108 Cd	3.817	ug/L
	114 Cd	102.769	ug/L
	109 Ag	51.667	ug/L
>	115 In	3852456.013	ug/L
	208 207.977	4713.937	ug/L
	207 Pb	1861.198	ug/L
	206 Pb	2284.965	ug/L
>	169 Tm	2200790.402	ug/L
	106 Pd	9.667	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:02:12
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\Standard 1.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3708083.337	ug/L	3860637.744
>	6	Li-1			989989.522	ug/L	1027561.118
	9	Be	100.000000	3.151	30148.519	ug/L	5.667
	27	Al	5100.000000	3.228	29476996.192	ug/L	60543.406
	44	Ca	5100.000000	1.946	2165477.857	ug/L	117983.203
	51	V	100.000000	3.442	1582568.964	ug/L	-37234.456
	52	Cr	100.000000	3.886	1382248.850	ug/L	69403.901
	55	Mn	100.000000	3.157	2266782.431	ug/L	7169.608
	54	Fe	5100.000000	1.201	5869510.948	ug/L	175796.273
	57	Fe	5100.000000	1.474	2396114.423	ug/L	35313.856
	59	Co	100.000000	2.367	1705719.978	ug/L	186.002
	60	Ni	100.000000	1.788	359396.581	ug/L	542.865
	65	Cu	100.000000	1.797	376000.201	ug/L	687.320
	68	Zn	100.000000	2.425	166064.165	ug/L	23733.517
	75	As	100.000000	1.929	421137.310	ug/L	33880.747
	82	Se	100.000000	2.687	38193.161	ug/L	775.348
	97	Mo	200.000000	2.681	684121.541	ug/L	98.334
>	72	Ge-1			3856911.011	ug/L	3889730.834
	107	Ag	50.000000	1.284	815988.437	ug/L	127.668
	111	Cd	100.000000	1.051	351847.854	ug/L	29.072
	121	Sb	50.000000	1.601	521852.360	ug/L	251.337
	135	Ba	100.000000	1.415	279503.304	ug/L	583.019
>	115	In-1			3745269.762	ug/L	3852456.013
	205	Tl	50.000000	3.570	1194435.408	ug/L	482.013
	208	Pb	100.000000	1.384	3263857.887	ug/L	8860.100
>	169	Tm-1			2168349.036	ug/L	2200790.402
	50	Cr	100.000000	13.117	27195.210	ug/L	-1543.898
	53	Cr	100.000000	5.582	363509.738	ug/L	226274.004
	61	Ni	100.000000	2.519	11960.854	ug/L	5933.968
	63	Cu	100.000000	0.843	278402.675	ug/L	235.676
	67	Zn	100.000000	1.911	16399.927	ug/L	4291.946
	66	Zn	100.000000	6.016	76730.739	ug/L	10848.495
	76	Se	100.000000	482.877	-550823.453	ug/L	-551626.068
	77	Se	100.000000	10.482	61026.367	ug/L	34099.119
	78	Se	100.000000	3.340	131892.810	ug/L	37032.470

	79 Br	100.000000	62.180	105072.558	ug/L	101959.274
>	72 Ge			3856911.011	ug/L	3889730.834
	108 Cd	100.000000	1.593	25248.243	ug/L	3.817
	114 Cd	100.000000	1.559	794656.347	ug/L	102.769
	109 Ag	50.000000	2.162	273525.929	ug/L	51.667
>	115 In			3745269.762	ug/L	3852456.013
	208 207.977	100.000000	1.184	1686125.141	ug/L	4713.937
	207 Pb	100.000000	1.390	679866.911	ug/L	1861.198
	206 Pb	100.000000	2.146	897865.835	ug/L	2284.965
>	169 Tm			2168349.036	ug/L	2200790.402
	106 Pd	100.000000	0.905	32895.723	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:06:28
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\ICV .012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3821025.730	ug/L	3860637.744
>	6	Li-1			1017203.880	ug/L	1027561.118
	9	Be	81.696105	1.632	25327.945	ug/L	5.667
	27	Al	842.876985	1.694	5067761.611	ug/L	60543.406
	44	Ca	860.420547	3.138	476145.258	ug/L	117983.203
	51	V	88.151343	2.375	1431897.035	ug/L	-37234.456
	52	Cr	83.468178	2.307	1199687.364	ug/L	69403.901
	55	Mn	82.047947	3.380	1915841.835	ug/L	7169.608
	54	Fe	820.649612	2.441	1122391.702	ug/L	175796.273
	57	Fe	809.312481	2.547	421701.266	ug/L	35313.856
	59	Co	82.793247	5.506	1453147.452	ug/L	186.002
	60	Ni	81.891790	3.391	303040.956	ug/L	542.865
	65	Cu	82.622089	2.074	319876.906	ug/L	687.320
	68	Zn	87.034232	1.823	151933.440	ug/L	23733.517
	75	As	77.781351	1.772	344878.889	ug/L	33880.747
	82	Se	81.633512	2.790	32238.845	ug/L	775.348
	97	Mo	82.171183	3.162	289386.567	ug/L	98.334
>	72	Ge-1			3970250.066	ug/L	3889730.834
	107	Ag	41.303720	1.289	694323.963	ug/L	127.668
	111	Cd	80.459943	0.628	291612.196	ug/L	29.072
	121	Sb	36.875202	2.113	396518.461	ug/L	251.337
	135	Ba	79.932791	0.466	230253.897	ug/L	583.019
>	115	In-1			3857536.769	ug/L	3852456.013
	205	Tl	43.325706	0.912	1059009.144	ug/L	482.013
	208	Pb	84.495815	0.346	2822412.232	ug/L	8860.100
>	169	Tm-1			2217763.477	ug/L	2200790.402
	50	Cr	73.166033	3.512	20094.758	ug/L	-1543.898
	53	Cr	71.949046	13.066	334014.606	ug/L	226274.004
	61	Ni	74.684570	17.982	10723.426	ug/L	5933.968
	63	Cu	81.276859	2.063	232956.214	ug/L	235.676
	67	Zn	82.626987	2.001	14713.577	ug/L	4291.946
	66	Zn	85.112003	2.352	68912.591	ug/L	10848.495
	76	Se	166.147245	131.202	-569411.901	ug/L	-551626.068
	77	Se	71.215817	4.132	54772.075	ug/L	34099.119
	78	Se	80.129453	3.590	116304.721	ug/L	37032.470

	79 Br	45.303974	116.042	105917.970	ug/L	101959.274
>	72 Ge			3970250.066	ug/L	3889730.834
	108 Cd	78.901959	0.918	20520.714	ug/L	3.817
	114 Cd	80.823827	1.011	661624.835	ug/L	102.769
	109 Ag	41.901996	2.133	236134.791	ug/L	51.667
>	115 In			3857536.769	ug/L	3852456.013
	208 207.977	84.942895	0.613	1465729.727	ug/L	4713.937
	207 Pb	84.475586	1.349	587741.675	ug/L	1861.198
	206 Pb	83.671847	2.038	768940.831	ug/L	2284.965
>	169 Tm			2217763.477	ug/L	2200790.402
	106 Pd	83.017639	1.388	27310.894	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	98.992
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	102.070
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.132
	Tl	205	
	Pb	208	
>	Tm-1	169	100.771
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	102.070
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.132
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.771
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:10:48
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\ICB.013
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3898925.519	ug/L	3860637.744
>	6	Li-1			1027058.563	ug/L	1027561.118
	9	Be	-0.002079	273.038	5.000	ug/L	5.667
	27	Al	-0.113667	118.503	61858.900	ug/L	60543.406
	44	Ca	-13.762187	36.770	116113.747	ug/L	117983.203
	51	V	-0.160330	438.162	-41232.719	ug/L	-37234.456
	52	Cr	-0.233594	26.635	68497.411	ug/L	69403.901
	55	Mn	-0.005473	158.621	7278.695	ug/L	7169.608
	54	Fe	-2.353312	139.873	178852.007	ug/L	175796.273
	57	Fe	0.791765	598.240	36852.647	ug/L	35313.856
	59	Co	0.002624	48.457	238.670	ug/L	186.002
	60	Ni	-0.004613	57.124	543.618	ug/L	542.865
	65	Cu	-0.001125	506.978	705.691	ug/L	687.320
	68	Zn	-0.733386	61.382	23426.664	ug/L	23733.517
	75	As	-0.277940	76.966	33881.784	ug/L	33880.747
	82	Se	0.082215	67.603	832.951	ug/L	775.348
	97	Mo	0.560012	23.581	2096.926	ug/L	98.334
>	72	Ge-1			4018354.188	ug/L	3889730.834
	107	Ag	0.015515	18.035	393.676	ug/L	127.668
	111	Cd	0.001650	73.303	35.551	ug/L	29.072
	121	Sb	0.314772	23.722	3680.131	ug/L	251.337
	135	Ba	0.013630	46.701	631.356	ug/L	583.019
>	115	In-1			3910140.833	ug/L	3852456.013
	205	Tl	0.075536	13.934	2381.660	ug/L	482.013
	208	Pb	-0.019312	43.071	8464.923	ug/L	8860.100
>	169	Tm-1			2266027.201	ug/L	2200790.402
	50	Cr	0.428199	20.658	-1466.487	ug/L	-1543.898
	53	Cr	-12.963133	13.946	214958.816	ug/L	226274.004
	61	Ni	0.419817	560.279	6156.728	ug/L	5933.968
	63	Cu	0.005006	66.928	258.011	ug/L	235.676
	67	Zn	-0.811782	134.145	4330.667	ug/L	4291.946
	66	Zn	-0.684500	106.724	10735.433	ug/L	10848.495
	76	Se	532.927881	17.854	-590622.283	ug/L	-551626.068
	77	Se	-12.926012	14.282	31553.777	ug/L	34099.119
	78	Se	-1.442047	10.581	36826.205	ug/L	37032.470

	79 Br	1.107380	5622.741	105365.309	ug/L	101959.274
>	72 Ge			4018354.188	ug/L	3889730.834
	108 Cd	0.008450	231.426	6.077	ug/L	3.817
	114 Cd	0.002270	58.789	123.096	ug/L	102.769
	109 Ag	0.015290	25.907	139.670	ug/L	51.667
>	115 In			3910140.833	ug/L	3852456.013
	208 207.977	-0.024397	23.513	4424.452	ug/L	4713.937
	207 Pb	-0.012240	86.421	1829.858	ug/L	1861.198
	206 Pb	-0.015118	100.427	2210.613	ug/L	2284.965
>	169 Tm			2266027.201	ug/L	2200790.402
	106 Pd	0.014190	44.607	14.333	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.951
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	103.307
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.497
	Tl	205	
	Pb	208	
>	Tm-1	169	102.964
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	103.307
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.497
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	102.964
	Pd	106	

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:15:08
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\ICSA.014
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3099430.717	ug/L	3860637.744
>	6	Li-1			821661.152	ug/L	1027561.118
	9	Be	0.051307	44.035	17.333	ug/L	5.667
	27	Al	96585.131357	1.303	468761539.218	ug/L	60543.406
	44	Ca	100559.929581	1.762	34076084.362	ug/L	117983.203
	51	V	-0.007241	10139.917	-31233.098	ug/L	-37234.456
	52	Cr	0.910059	2.877	67933.711	ug/L	69403.901
	55	Mn	2.080554	3.560	45525.149	ug/L	7169.608
	54	Fe	98762.761175	1.433	92888990.697	ug/L	175796.273
	57	Fe	97658.469294	1.153	38057115.920	ug/L	35313.856
	59	Co	1.633137	2.560	23583.409	ug/L	186.002
	60	Ni	-0.419631	15.132	-814.948	ug/L	542.865
	65	Cu	0.710615	9.661	2814.483	ug/L	687.320
	68	Zn	-0.353181	242.795	19376.825	ug/L	23733.517
	75	As	-0.043079	289.638	28112.634	ug/L	33880.747
	82	Se	0.433343	534.886	777.053	ug/L	775.348
	97	Mo	2153.473784	0.996	6197113.083	ug/L	98.334
>	72	Ge-1			3243698.857	ug/L	3889730.834
	107	Ag	0.235253	3.606	3557.723	ug/L	127.668
	111	Cd	0.515739	3.722	1655.904	ug/L	29.072
	121	Sb	2.270291	2.294	21486.014	ug/L	251.337
	135	Ba	0.861809	3.273	2668.074	ug/L	583.019
>	115	In-1			3363785.328	ug/L	3852456.013
	205	Tl	0.065609	1.413	1816.855	ug/L	482.013
	208	Pb	0.895164	3.263	33673.906	ug/L	8860.100
>	169	Tm-1			1928771.245	ug/L	2200790.402
	50	Cr	172.981228	29.557	40468.938	ug/L	-1543.898
	53	Cr	-20.646380	1.300	164520.421	ug/L	226274.004
	61	Ni	41.501073	10.530	7071.335	ug/L	5933.968
	63	Cu	5.521316	1.977	13113.799	ug/L	235.676
	67	Zn	25.286949	5.134	6161.737	ug/L	4291.946
	66	Zn	6.123593	18.399	12452.491	ug/L	10848.495
	76	Se	1028.292596	15.687	-492382.459	ug/L	-551626.068
	77	Se	14.387347	29.163	31725.552	ug/L	34099.119
	78	Se	1.519738	24.391	32096.435	ug/L	37032.470

	79 Br	199164.300235	1.671	6781360.858	ug/L	101959.274
>	72 Ge			3243698.857	ug/L	3889730.834
	108 Cd	68.934991	0.947	15634.141	ug/L	3.817
	114 Cd	4.167768	0.433	29835.534	ug/L	102.769
	109 Ag	0.215094	2.975	1102.195	ug/L	51.667
>	115 In			3363785.328	ug/L	3852456.013
	208 207.977	0.907058	2.853	17694.545	ug/L	4713.937
	207 Pb	0.925896	3.568	7212.305	ug/L	1861.198
	206 Pb	0.849574	4.238	8767.057	ug/L	2284.965
>	169 Tm			1928771.245	ug/L	2200790.402
	106 Pd	0.548364	8.609	190.002	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	79.962
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	83.391
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	87.315
	Tl	205	
	Pb	208	
>	Tm-1	169	87.640
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	83.391
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	87.315
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	87.640
	Pd	106	

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:19:26
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\ICSAB.015
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3158728.352	ug/L	3860637.744
>	6	Li-1			823792.932	ug/L	1027561.118
	9	Be	90.063654	0.463	22612.516	ug/L	5.667
	27	Al	100398.655525	2.407	495608771.497	ug/L	60543.406
	44	Ca	102436.075273	0.663	35307266.188	ug/L	117983.203
	51	V	109.297766	4.396	1482886.384	ug/L	-37234.456
	52	Cr	99.360489	1.897	1175826.224	ug/L	69403.901
	55	Mn	105.323356	1.965	2042740.483	ug/L	7169.608
	54	Fe	101683.395816	0.976	97262409.720	ug/L	175796.273
	57	Fe	100251.457926	1.540	39738229.117	ug/L	35313.856
	59	Co	98.731455	5.868	1441847.132	ug/L	186.002
	60	Ni	91.670120	1.676	281911.588	ug/L	542.865
	65	Cu	87.388695	1.378	281156.217	ug/L	687.320
	68	Zn	86.947635	0.922	126181.037	ug/L	23733.517
	75	As	97.629771	1.643	352441.604	ug/L	33880.747
	82	Se	107.780237	1.855	35171.112	ug/L	775.348
	97	Mo	2293.816346	1.548	6713558.244	ug/L	98.334
>	72	Ge-1			3299473.585	ug/L	3889730.834
	107	Ag	43.805137	0.560	658914.821	ug/L	127.668
	111	Cd	91.759134	0.207	297582.733	ug/L	29.072
	121	Sb	50.304850	0.915	483951.124	ug/L	251.337
	135	Ba	104.245167	1.318	268541.903	ug/L	583.019
>	115	In-1			3451819.481	ug/L	3852456.013
	205	Tl	44.639342	1.132	991370.908	ug/L	482.013
	208	Pb	92.229352	2.949	2797849.681	ug/L	8860.100
>	169	Tm-1			2015052.886	ug/L	2200790.402
	50	Cr	265.920625	18.587	64047.513	ug/L	-1543.898
	53	Cr	92.738768	2.484	302360.639	ug/L	226274.004
	61	Ni	126.192750	5.535	11593.813	ug/L	5933.968
	63	Cu	92.589804	1.279	220530.420	ug/L	235.676
	67	Zn	114.743228	1.880	15562.993	ug/L	4291.946
	66	Zn	97.034479	2.323	64014.827	ug/L	10848.495
	76	Se	1083.008324	3.346	-502564.364	ug/L	-551626.068
	77	Se	117.711650	2.309	56363.123	ug/L	34099.119
	78	Se	103.116734	1.848	115400.583	ug/L	37032.470

	79 Br	1765.468086	15.716	146866.503	ug/L	101959.274
>	72 Ge			3299473.585	ug/L	3889730.834
	108 Cd	157.497174	1.583	36649.099	ug/L	3.817
	114 Cd	96.289071	0.605	705296.300	ug/L	102.769
	109 Ag	44.706256	0.626	225436.513	ug/L	51.667
>	115 In			3451819.481	ug/L	3852456.013
	208 207.977	94.268670	5.204	1477135.011	ug/L	4713.937
	207 Pb	89.998808	1.951	568732.545	ug/L	1861.198
	206 Pb	90.089429	1.441	751982.125	ug/L	2284.965
>	169 Tm			2015052.886	ug/L	2200790.402
	106 Pd	83.133540	0.813	27349.010	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	80.170
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	84.825
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	89.600
	Tl	205	
	Pb	208	
>	Tm-1	169	91.560
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	84.825
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	89.600
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	91.560
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:49:20
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 1.021
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3949079.102	ug/L	3860637.744
>	6	Li-1			918598.445	ug/L	1027561.118
	9	Be	100.541320	1.355	28150.556	ug/L	5.667
	27	Al	4695.601276	1.094	29045907.177	ug/L	60543.406
	44	Ca	5066.289114	1.202	2301768.903	ug/L	117983.203
	51	V	104.403838	2.030	1769725.884	ug/L	-37234.456
	52	Cr	96.890719	8.682	1435720.879	ug/L	69403.901
	55	Mn	102.502439	3.630	2484758.313	ug/L	7169.608
	54	Fe	5191.830494	0.339	6386070.838	ug/L	175796.273
	57	Fe	5133.662053	1.704	2579715.477	ug/L	35313.856
	59	Co	102.067145	2.055	1862088.334	ug/L	186.002
	60	Ni	94.141311	2.343	361827.277	ug/L	542.865
	65	Cu	94.592771	1.580	380374.158	ug/L	687.320
	68	Zn	94.161948	3.132	168710.672	ug/L	23733.517
	75	As	93.927282	0.622	425287.277	ug/L	33880.747
	82	Se	97.121327	1.012	39709.514	ug/L	775.348
	97	Mo	188.839884	2.315	690909.613	ug/L	98.334
>	72	Ge-1			4124958.539	ug/L	3889730.834
	107	Ag	47.041170	0.600	834087.724	ug/L	127.668
	111	Cd	91.742693	2.042	350641.115	ug/L	29.072
	121	Sb	45.789414	1.446	519209.356	ug/L	251.337
	135	Ba	91.811318	2.345	278800.628	ug/L	583.019
>	115	In-1			4068805.397	ug/L	3852456.013
	205	Tl	47.695826	2.015	1247776.796	ug/L	482.013
	208	Pb	99.473427	2.003	3554710.795	ug/L	8860.100
>	169	Tm-1			2374246.228	ug/L	2200790.402
	50	Cr	84.402950	15.407	24386.823	ug/L	-1543.898
	53	Cr	74.121137	3.985	350312.004	ug/L	226274.004
	61	Ni	94.383641	9.874	12420.316	ug/L	5933.968
	63	Cu	94.209002	1.240	280496.742	ug/L	235.676
	67	Zn	93.523975	1.004	16702.537	ug/L	4291.946
	66	Zn	95.457011	1.312	78910.993	ug/L	10848.495
	76	Se	958.490821	21.420	-623370.522	ug/L	-551626.068
	77	Se	72.281971	2.752	57236.154	ug/L	34099.119
	78	Se	94.055681	1.381	135042.251	ug/L	37032.470

	79 Br	25.722082	68.790	109214.433	ug/L	101959.274
>	72 Ge			4124958.539	ug/L	3889730.834
	108 Cd	93.279656	1.663	25583.770	ug/L	3.817
	114 Cd	93.037170	1.227	803200.012	ug/L	102.769
	109 Ag	46.749187	0.700	277854.507	ug/L	51.667
>	115 In			4068805.397	ug/L	3852456.013
	208 207.977	104.179379	2.406	1922885.001	ug/L	4713.937
	207 Pb	94.938192	1.801	706763.644	ug/L	1861.198
	206 Pb	94.072075	1.424	925062.150	ug/L	2284.965
>	169 Tm			2374246.228	ug/L	2200790.402
	106 Pd	101.974902	1.677	33545.191	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	89.396
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	106.047
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	105.616
	Tl	205	
	Pb	208	
>	Tm-1	169	107.882
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	106.047
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	105.616
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	107.882
	Pd	106	

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:53:41
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 1.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3988319.491	ug/L	3860637.744
>	6	Li-1			952537.641	ug/L	1027561.118
	9	Be	0.008458	135.166	7.667	ug/L	5.667
	27	Al	-1.371304	24.358	57256.195	ug/L	60543.406
	44	Ca	-70.967382	2.486	97200.916	ug/L	117983.203
	51	V	0.354051	175.804	-34278.136	ug/L	-37234.456
	52	Cr	-1.461187	4.646	54511.996	ug/L	69403.901
	55	Mn	-0.071627	10.115	6031.746	ug/L	7169.608
	54	Fe	-21.086692	14.236	165643.567	ug/L	175796.273
	57	Fe	-5.694380	80.871	35571.910	ug/L	35313.856
	59	Co	0.002187	37.095	243.670	ug/L	186.002
	60	Ni	-0.038309	22.409	440.198	ug/L	542.865
	65	Cu	-0.042918	8.878	571.835	ug/L	687.320
	68	Zn	-4.687339	2.727	18512.231	ug/L	23733.517
	75	As	-0.593321	30.511	34380.454	ug/L	33880.747
	82	Se	0.730077	28.352	1144.563	ug/L	775.348
	97	Mo	0.906557	26.540	3515.070	ug/L	98.334
>	72	Ge-1			4237437.575	ug/L	3889730.834
	107	Ag	0.016089	13.499	424.677	ug/L	127.668
	111	Cd	0.001735	208.396	37.783	ug/L	29.072
	121	Sb	0.007534	26.689	354.674	ug/L	251.337
	135	Ba	-0.001244	1008.164	618.689	ug/L	583.019
>	115	In-1			4113033.591	ug/L	3852456.013
	205	Tl	0.245059	24.999	7046.934	ug/L	482.013
	208	Pb	-0.052632	13.802	7813.017	ug/L	8860.100
>	169	Tm-1			2415258.959	ug/L	2200790.402
	50	Cr	0.881410	20.086	-1403.175	ug/L	-1543.898
	53	Cr	-27.885148	3.081	203849.240	ug/L	226274.004
	61	Ni	1.345955	258.919	6553.201	ug/L	5933.968
	63	Cu	-0.013764	26.145	214.674	ug/L	235.676
	67	Zn	-6.336288	24.428	3829.349	ug/L	4291.946
	66	Zn	-4.717834	7.221	8394.933	ug/L	10848.495
	76	Se	1220.956584	14.153	-651058.457	ug/L	-551626.068
	77	Se	-28.492048	2.048	28615.717	ug/L	34099.119
	78	Se	-2.620507	6.505	37600.653	ug/L	37032.470

	79 Br	-94.235358	59.906	106931.239	ug/L	101959.274
>	72 Ge			4237437.575	ug/L	3889730.834
	108 Cd	0.015750	54.037	8.447	ug/L	3.817
	114 Cd	0.002240	39.230	129.289	ug/L	102.769
	109 Ag	0.017730	5.617	161.671	ug/L	51.667
>	115 In			4113033.591	ug/L	3852456.013
	208 207.977	-0.059090	14.631	4065.278	ug/L	4713.937
	207 Pb	-0.047607	13.407	1682.495	ug/L	1861.198
	206 Pb	-0.044314	17.876	2065.244	ug/L	2284.965
>	169 Tm			2415258.959	ug/L	2200790.402
	106 Pd	0.022299	49.167	17.000	ug/L	9.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	92.699
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	108.939
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	106.764
	Tl	205	
	Pb	208	
>	Tm-1	169	109.745
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	108.939
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	106.764
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	109.745
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:53:41
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 1.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3988319.491	ug/L	
>	6	Li-1			952537.641	ug/L	
	9	Be			7.667	ug/L	
	27	Al			57256.195	ug/L	
	44	Ca			97200.916	ug/L	
	51	V			-34278.136	ug/L	
	52	Cr			54511.996	ug/L	
	55	Mn			6031.746	ug/L	
	54	Fe			165643.567	ug/L	
	57	Fe			35571.910	ug/L	
	59	Co			243.670	ug/L	
	60	Ni			440.198	ug/L	
	65	Cu			571.835	ug/L	
	68	Zn			18512.231	ug/L	
	75	As			34380.454	ug/L	
	82	Se			1144.563	ug/L	
	97	Mo			3515.070	ug/L	
>	72	Ge-1			4237437.575	ug/L	
	107	Ag			424.677	ug/L	
	111	Cd			37.783	ug/L	
	121	Sb			354.674	ug/L	
	135	Ba			618.689	ug/L	
>	115	In-1			4113033.591	ug/L	
	205	Tl			7046.934	ug/L	
	208	Pb			7813.017	ug/L	
>	169	Tm-1			2415258.959	ug/L	
	50	Cr			-1403.175	ug/L	
	53	Cr			203849.240	ug/L	
	61	Ni			6553.201	ug/L	
	63	Cu			214.674	ug/L	
	67	Zn			3829.349	ug/L	
	66	Zn			8394.933	ug/L	
	76	Se			-651058.457	ug/L	
	77	Se			28615.717	ug/L	
	78	Se			37600.653	ug/L	

	79	Br	106931.239	ug/L
>	72	Ge	4237437.575	ug/L
	108	Cd	8.447	ug/L
	114	Cd	129.289	ug/L
	109	Ag	161.671	ug/L
>	115	In	4113033.591	ug/L
	208	207.977	4065.278	ug/L
	207	Pb	1682.495	ug/L
	206	Pb	2065.244	ug/L
>	169	Tm	2415258.959	ug/L
	106	Pd	17.000	ug/L

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:49:20
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 1.021
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3949079.102	ug/L	3988319.491
>	6	Li-1			918598.445	ug/L	952537.641
	9	Be	100.000000	1.355	28150.556	ug/L	7.667
	27	Al	5100.000000	1.093	29045907.177	ug/L	57256.195
	44	Ca	5100.000000	1.185	2301768.903	ug/L	97200.916
	51	V	100.000000	2.037	1769725.884	ug/L	-34278.136
	52	Cr	100.000000	8.553	1435720.879	ug/L	54511.996
	55	Mn	100.000000	3.628	2484758.313	ug/L	6031.746
	54	Fe	5100.000000	0.338	6386070.838	ug/L	165643.567
	57	Fe	5100.000000	1.702	2579715.477	ug/L	35571.910
	59	Co	100.000000	2.056	1862088.334	ug/L	243.670
	60	Ni	100.000000	2.342	361827.277	ug/L	440.198
	65	Cu	100.000000	1.579	380374.158	ug/L	571.835
	68	Zn	100.000000	2.984	168710.672	ug/L	18512.231
	75	As	100.000000	0.618	425287.277	ug/L	34380.454
	82	Se	100.000000	1.020	39709.514	ug/L	1144.563
	97	Mo	200.000000	2.326	690909.613	ug/L	3515.070
>	72	Ge-1			4124958.539	ug/L	4237437.575
	107	Ag	50.000000	0.600	834087.724	ug/L	424.677
	111	Cd	100.000000	2.042	350641.115	ug/L	37.783
	121	Sb	50.000000	1.447	519209.356	ug/L	354.674
	135	Ba	100.000000	2.345	278800.628	ug/L	618.689
>	115	In-1			4068805.397	ug/L	4113033.591
	205	Tl	50.000000	2.025	1247776.796	ug/L	7046.934
	208	Pb	100.000000	2.002	3554710.795	ug/L	7813.017
>	169	Tm-1			2374246.228	ug/L	2415258.959
	50	Cr	100.000000	15.570	24386.823	ug/L	-1403.175
	53	Cr	100.000000	2.896	350312.004	ug/L	203849.240
	61	Ni	100.000000	10.015	12420.316	ug/L	6553.201
	63	Cu	100.000000	1.240	280496.742	ug/L	214.674
	67	Zn	100.000000	0.940	16702.537	ug/L	3829.349
	66	Zn	100.000000	1.250	78910.993	ug/L	8394.933
	76	Se	100.000000	78.445	-623370.522	ug/L	-651058.457
	77	Se	100.000000	1.974	57236.154	ug/L	28615.717
	78	Se	100.000000	1.344	135042.251	ug/L	37600.653

	79 Br	100.000000	14.741	109214.433	ug/L	106931.239
>	72 Ge			4124958.539	ug/L	4237437.575
	108 Cd	100.000000	1.663	25583.770	ug/L	8.447
	114 Cd	100.000000	1.227	803200.012	ug/L	129.289
	109 Ag	50.000000	0.700	277854.507	ug/L	161.671
>	115 In			4068805.397	ug/L	4113033.591
	208 207.977	100.000000	2.404	1922885.001	ug/L	4065.278
	207 Pb	100.000000	1.800	706763.644	ug/L	1682.495
	206 Pb	100.000000	1.423	925062.150	ug/L	2065.244
>	169 Tm			2374246.228	ug/L	2415258.959
	106 Pd	100.000000	1.678	33545.191	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	
	Tl	205	
	Pb	208	
>	Tm-1	169	
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	
	Pd	106	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 15:58:01
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 2.023
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3909608.410	ug/L	3988319.491
>	6	Li-1			946481.020	ug/L	952537.641
	9	Be	99.651609	0.216	28902.323	ug/L	7.667
	27	Al	5125.486690	0.708	29503296.854	ug/L	57256.195
	44	Ca	5133.675536	0.670	2341590.969	ug/L	97200.916
	51	V	96.446191	0.719	1723974.630	ug/L	-34278.136
	52	Cr	94.511231	3.860	1373609.464	ug/L	54511.996
	55	Mn	96.496362	1.386	2425057.876	ug/L	6031.746
	54	Fe	5030.805757	2.474	6367586.917	ug/L	165643.567
	57	Fe	5012.578259	2.249	2563249.420	ug/L	35571.910
	59	Co	101.535864	2.009	1911168.791	ug/L	243.670
	60	Ni	99.083593	2.302	362401.783	ug/L	440.198
	65	Cu	99.553242	0.766	382838.754	ug/L	571.835
	68	Zn	95.607619	1.811	163862.289	ug/L	18512.231
	75	As	98.925945	3.028	425559.582	ug/L	34380.454
	82	Se	98.846415	2.824	39674.115	ug/L	1144.563
	97	Mo	196.352565	2.887	685663.891	ug/L	3515.070
>	72	Ge-1			4169679.500	ug/L	4237437.575
	107	Ag	50.079907	0.449	832526.433	ug/L	424.677
	111	Cd	101.917314	0.979	356199.311	ug/L	37.783
	121	Sb	50.548430	0.874	523154.860	ug/L	354.674
	135	Ba	101.677517	1.687	282540.763	ug/L	618.689
>	115	In-1			4054943.428	ug/L	4113033.591
	205	Tl	50.673777	1.920	1263842.967	ug/L	7046.934
	208	Pb	99.651667	1.279	3540618.201	ug/L	7813.017
>	169	Tm-1			2372697.186	ug/L	2415258.959
	50	Cr	118.433149	3.623	29367.264	ug/L	-1403.175
	53	Cr	95.332527	4.517	346897.077	ug/L	203849.240
	61	Ni	91.791872	2.758	12058.891	ug/L	6553.201
	63	Cu	97.389357	2.147	276106.058	ug/L	214.674
	67	Zn	92.855924	2.180	15942.904	ug/L	3829.349
	66	Zn	94.223285	3.693	75618.220	ug/L	8394.933
	76	Se	83.848243	187.330	-632000.751	ug/L	-651058.457
	77	Se	98.284927	3.239	57326.489	ug/L	28615.717
	78	Se	96.948629	3.690	133441.828	ug/L	37600.653

	79 Br	45.230879	67.936	107546.702	ug/L	106931.239
>	72 Ge			4169679.500	ug/L	4237437.575
	108 Cd	101.156300	1.015	25794.815	ug/L	8.447
	114 Cd	100.864388	1.090	807440.303	ug/L	129.289
	109 Ag	50.402406	2.664	279114.817	ug/L	161.671
>	115 In			4054943.428	ug/L	4113033.591
	208 207.977	98.829446	1.402	1899598.943	ug/L	4065.278
	207 Pb	101.124750	1.440	714313.141	ug/L	1682.495
	206 Pb	100.235851	1.644	926706.117	ug/L	2065.244
>	169 Tm			2372697.186	ug/L	2415258.959
	106 Pd	100.572850	1.414	33737.257	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.364
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.401
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.588
	Tl	205	
	Pb	208	
>	Tm-1	169	98.238
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.401
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	98.588
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.238
	Pd	106	

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 16:02:22
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 2.024
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4120272.302	ug/L	3988319.491
>	6	Li-1			946064.090	ug/L	952537.641
	9	Be	-0.011325	35.038	4.333	ug/L	7.667
	27	Al	-0.081243	190.331	58079.147	ug/L	57256.195
	44	Ca	-4.892567	13.801	97196.862	ug/L	97200.916
	51	V	0.086597	214.046	-33415.616	ug/L	-34278.136
	52	Cr	0.022938	321.225	56087.542	ug/L	54511.996
	55	Mn	0.000760	1655.354	6189.192	ug/L	6031.746
	54	Fe	1.994694	194.763	171977.719	ug/L	165643.567
	57	Fe	1.369576	106.005	37106.126	ug/L	35571.910
	59	Co	0.001228	116.954	273.338	ug/L	243.670
	60	Ni	-0.001094	909.597	446.243	ug/L	440.198
	65	Cu	0.006730	163.383	611.871	ug/L	571.835
	68	Zn	-0.105981	853.144	18772.873	ug/L	18512.231
	75	As	-0.530004	37.351	32983.463	ug/L	34380.454
	82	Se	0.049711	421.867	1191.071	ug/L	1144.563
	97	Mo	-0.013258	1782.401	3547.413	ug/L	3515.070
>	72	Ge-1			4334316.128	ug/L	4237437.575
	107	Ag	0.000821	363.046	443.345	ug/L	424.677
	111	Cd	0.000340	882.816	39.378	ug/L	37.783
	121	Sb	-0.002725	20.403	329.673	ug/L	354.674
	135	Ba	0.001701	175.480	630.356	ug/L	618.689
>	115	In-1			4159075.618	ug/L	4113033.591
	205	Tl	0.041848	172.624	8099.197	ug/L	7046.934
	208	Pb	0.004741	305.165	7994.776	ug/L	7813.017
>	169	Tm-1			2417398.113	ug/L	2415258.959
	50	Cr	0.194194	104.599	-1382.694	ug/L	-1403.175
	53	Cr	-3.792492	117.218	202443.026	ug/L	203849.240
	61	Ni	-4.390078	82.582	6423.600	ug/L	6553.201
	63	Cu	0.002070	53.544	225.675	ug/L	214.674
	67	Zn	-0.226633	574.821	3886.419	ug/L	3829.349
	66	Zn	-0.209600	475.278	8433.764	ug/L	8394.933
	76	Se	89.472421	330.906	-656043.968	ug/L	-651058.457
	77	Se	-0.763482	52.999	29034.014	ug/L	28615.717
	78	Se	-0.809271	25.776	37622.386	ug/L	37600.653

	79 Br	-42.483483	135.309	107084.317	ug/L	106931.239
>	72 Ge			4334316.128	ug/L	4237437.575
	108 Cd	0.018193	82.529	13.274	ug/L	8.447
	114 Cd	0.002847	5.191	154.096	ug/L	129.289
	109 Ag	-0.000763	506.222	159.004	ug/L	161.671
>	115 In			4159075.618	ug/L	4113033.591
	208 207.977	0.009184	191.321	4250.705	ug/L	4065.278
	207 Pb	0.002555	513.324	1702.833	ug/L	1682.495
	206 Pb	-0.002826	401.718	2041.239	ug/L	2065.244
>	169 Tm			2417398.113	ug/L	2415258.959
	106 Pd	-0.003977	354.436	15.667	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	99.320
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	102.286
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.119
	Tl	205	
	Pb	208	
>	Tm-1	169	100.089
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	102.286
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.119
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.089
	Pd	106	

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 16:45:24
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 3.034
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4020184.970	ug/L	3988319.491
>	6	Li-1			971210.530	ug/L	952537.641
	9	Be	98.152525	0.604	29210.686	ug/L	7.667
	27	Al	5282.784416	2.469	30517535.034	ug/L	57256.195
	44	Ca	5084.800823	3.164	2328942.757	ug/L	97200.916
	51	V	98.889545	1.198	1774995.119	ug/L	-34278.136
	52	Cr	93.851944	0.341	1369912.375	ug/L	54511.996
	55	Mn	96.841155	1.261	2442111.858	ug/L	6031.746
	54	Fe	5071.149311	1.817	6441337.011	ug/L	165643.567
	57	Fe	4996.012606	0.294	2564256.606	ug/L	35571.910
	59	Co	99.392923	0.156	1877898.668	ug/L	243.670
	60	Ni	97.704356	1.945	358716.658	ug/L	440.198
	65	Cu	98.606220	3.544	380450.264	ug/L	571.835
	68	Zn	94.838328	1.874	163277.876	ug/L	18512.231
	75	As	97.251511	1.320	420473.743	ug/L	34380.454
	82	Se	98.521088	2.104	39695.364	ug/L	1144.563
	97	Mo	194.935689	1.762	683311.457	ug/L	3515.070
>	72	Ge-1			4184242.902	ug/L	4237437.575
	107	Ag	49.641257	1.866	815923.940	ug/L	424.677
	111	Cd	101.002531	1.672	349009.965	ug/L	37.783
	121	Sb	49.928593	0.800	510944.360	ug/L	354.674
	135	Ba	99.110691	1.437	272350.014	ug/L	618.689
>	115	In-1			4009526.288	ug/L	4113033.591
	205	Tl	50.281872	2.186	1242359.308	ug/L	7046.934
	208	Pb	99.101374	0.939	3488278.231	ug/L	7813.017
>	169	Tm-1			2350575.390	ug/L	2415258.959
	50	Cr	117.980715	6.795	29352.384	ug/L	-1403.175
	53	Cr	100.889261	4.020	356697.645	ug/L	203849.240
	61	Ni	94.817160	7.747	12287.127	ug/L	6553.201
	63	Cu	96.117137	2.874	273479.960	ug/L	214.674
	67	Zn	92.792977	1.776	15992.826	ug/L	3829.349
	66	Zn	95.308976	1.784	76682.147	ug/L	8394.933
	76	Se	10.074155	845.483	-641877.862	ug/L	-651058.457
	77	Se	98.758244	2.041	57678.440	ug/L	28615.717
	78	Se	93.438438	0.443	130444.796	ug/L	37600.653

	79 Br	18.709484	119.079	106565.753	ug/L	106931.239
>	72 Ge			4184242.902	ug/L	4237437.575
	108 Cd	101.303574	1.568	25540.062	ug/L	8.447
	114 Cd	100.345347	1.336	794248.038	ug/L	129.289
	109 Ag	50.537948	1.911	276723.569	ug/L	161.671
>	115 In			4009526.288	ug/L	4113033.591
	208 207.977	98.515148	1.080	1875913.561	ug/L	4065.278
	207 Pb	99.644466	0.570	697337.301	ug/L	1682.495
	206 Pb	99.905337	1.362	915027.368	ug/L	2065.244
>	169 Tm			2350575.390	ug/L	2415258.959
	106 Pd	98.107836	1.210	32910.782	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	101.960
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.745
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.483
	Tl	205	
	Pb	208	
>	Tm-1	169	97.322
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.745
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.483
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.322
	Pd	106	

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 16:49:45
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 3.035
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4043822.371	ug/L	3988319.491
>	6	Li-1			961113.274	ug/L	952537.641
	9	Be	-0.005863	253.420	6.000	ug/L	7.667
	27	Al	0.340525	35.916	59021.741	ug/L	57256.195
	44	Ca	-8.190590	31.004	93204.112	ug/L	97200.916
	51	V	-0.675593	64.713	-46661.741	ug/L	-34278.136
	52	Cr	0.439730	7.253	60532.360	ug/L	54511.996
	55	Mn	-0.004162	257.187	5901.992	ug/L	6031.746
	54	Fe	4.951254	50.871	171200.371	ug/L	165643.567
	57	Fe	1.392246	74.361	36151.325	ug/L	35571.910
	59	Co	0.003382	27.958	307.339	ug/L	243.670
	60	Ni	-0.009843	58.046	402.256	ug/L	440.198
	65	Cu	-0.000359	1258.695	568.219	ug/L	571.835
	68	Zn	-2.855426	18.083	14043.293	ug/L	18512.231
	75	As	-0.137942	388.450	33692.378	ug/L	34380.454
	82	Se	0.083488	132.923	1173.145	ug/L	1144.563
	97	Mo	-0.153447	115.922	2965.852	ug/L	3515.070
>	72	Ge-1			4221660.030	ug/L	4237437.575
	107	Ag	0.010602	23.635	598.687	ug/L	424.677
	111	Cd	0.005053	23.265	55.226	ug/L	37.783
	121	Sb	0.072306	5.872	1104.737	ug/L	354.674
	135	Ba	-0.011821	65.815	580.686	ug/L	618.689
>	115	In-1			4080577.131	ug/L	4113033.591
	205	Tl	0.011925	509.519	7188.041	ug/L	7046.934
	208	Pb	-0.017815	45.897	7008.448	ug/L	7813.017
>	169	Tm-1			2361086.747	ug/L	2415258.959
	50	Cr	0.029187	253.330	-1390.349	ug/L	-1403.175
	53	Cr	5.040529	53.875	210947.511	ug/L	203849.240
	61	Ni	-7.524068	29.242	6063.212	ug/L	6553.201
	63	Cu	-0.001006	199.918	211.007	ug/L	214.674
	67	Zn	-1.901507	26.737	3563.031	ug/L	3829.349
	66	Zn	-3.086210	5.257	6129.676	ug/L	8394.933
	76	Se	-26.929805	79.371	-651529.876	ug/L	-651058.457
	77	Se	1.077687	51.186	28832.884	ug/L	28615.717
	78	Se	-0.931656	44.681	36519.777	ug/L	37600.653

	79 Br	-62.435404	78.168	103265.424	ug/L	106931.239
>	72 Ge			4221660.030	ug/L	4237437.575
	108 Cd	-0.013165	74.189	4.991	ug/L	8.447
	114 Cd	0.002657	106.298	149.730	ug/L	129.289
	109 Ag	0.007966	69.566	205.007	ug/L	161.671
>	115 In			4080577.131	ug/L	4113033.591
	208 207.977	-0.011177	106.487	3760.143	ug/L	4065.278
	207 Pb	-0.026862	28.170	1456.121	ug/L	1682.495
	206 Pb	-0.024705	18.108	1792.184	ug/L	2065.244
>	169 Tm			2361086.747	ug/L	2415258.959
	106 Pd	-0.012924	109.057	12.667	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	100.900
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	99.628
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.211
	Tl	205	
	Pb	208	
>	Tm-1	169	97.757
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.628
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	99.211
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	97.757
	Pd	106	

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 16:54:06
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 4.036
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4024251.901	ug/L	3988319.491
>	6	Li-1			972745.332	ug/L	952537.641
	9	Be	98.958826	1.476	29495.298	ug/L	7.667
	27	Al	5407.171072	2.573	31207700.687	ug/L	57256.195
	44	Ca	5248.038081	0.767	2398119.580	ug/L	97200.916
	51	V	101.977427	3.980	1830007.070	ug/L	-34278.136
	52	Cr	104.729304	7.249	1521342.954	ug/L	54511.996
	55	Mn	99.445969	2.592	2505842.923	ug/L	6031.746
	54	Fe	5122.853857	1.718	6500231.119	ug/L	165643.567
	57	Fe	5117.530912	2.760	2623658.570	ug/L	35571.910
	59	Co	100.915672	1.057	1905090.243	ug/L	243.670
	60	Ni	99.871655	1.494	366378.029	ug/L	440.198
	65	Cu	97.905932	1.780	377542.303	ug/L	571.835
	68	Zn	96.474699	0.961	165649.705	ug/L	18512.231
	75	As	99.055471	0.807	427322.825	ug/L	34380.454
	82	Se	97.684523	1.008	39339.454	ug/L	1144.563
	97	Mo	197.532817	1.006	691873.851	ug/L	3515.070
>	72	Ge-1			4180707.973	ug/L	4237437.575
	107	Ag	49.253771	0.501	813897.271	ug/L	424.677
	111	Cd	101.568362	0.859	352877.521	ug/L	37.783
	121	Sb	50.448725	0.960	518978.866	ug/L	354.674
	135	Ba	100.535771	0.833	277706.764	ug/L	618.689
>	115	In-1			4030574.855	ug/L	4113033.591
	205	Tl	49.957745	1.360	1252068.644	ug/L	7046.934
	208	Pb	100.150177	0.414	3575467.392	ug/L	7813.017
>	169	Tm-1			2384078.956	ug/L	2415258.959
	50	Cr	112.487963	8.038	27919.270	ug/L	-1403.175
	53	Cr	101.795841	2.636	357806.497	ug/L	203849.240
	61	Ni	89.531850	10.159	11953.180	ug/L	6553.201
	63	Cu	95.760746	1.083	272290.265	ug/L	214.674
	67	Zn	94.508441	1.173	16205.582	ug/L	3829.349
	66	Zn	94.000149	0.111	75686.261	ug/L	8394.933
	76	Se	-1.100199	7767.123	-642436.444	ug/L	-651058.457
	77	Se	99.371208	3.908	57817.454	ug/L	28615.717
	78	Se	97.935861	0.144	134824.075	ug/L	37600.653

	79 Br	7.262395	568.945	105878.997	ug/L	106931.239
>	72 Ge			4180707.973	ug/L	4237437.575
	108 Cd	100.824634	0.740	25557.031	ug/L	8.447
	114 Cd	100.933343	0.298	803189.932	ug/L	129.289
	109 Ag	50.650197	0.913	278844.622	ug/L	161.671
>	115 In			4030574.855	ug/L	4113033.591
	208 207.977	100.072168	0.998	1932648.859	ug/L	4065.278
	207 Pb	99.260929	0.304	704600.373	ug/L	1682.495
	206 Pb	100.991695	0.495	938218.160	ug/L	2065.244
>	169 Tm			2384078.956	ug/L	2415258.959
	106 Pd	99.647678	0.728	33427.063	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	102.121
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.661
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.995
	Tl	205	
	Pb	208	
>	Tm-1	169	98.709
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.661
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.995
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.709
	Pd	106	

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 16:58:26
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 4.037
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4162585.135	ug/L	3988319.491
>	6	Li-1			981542.980	ug/L	952537.641
	9	Be	-0.007375	72.037	5.667	ug/L	7.667
	27	Al	0.169779	262.168	58469.841	ug/L	57256.195
	44	Ca	-10.734278	38.100	92799.516	ug/L	97200.916
	51	V	-0.407297	74.060	-41962.672	ug/L	-34278.136
	52	Cr	0.302958	41.195	59044.578	ug/L	54511.996
	55	Mn	-0.000172	4193.121	6053.762	ug/L	6031.746
	54	Fe	1.698572	423.988	168391.677	ug/L	165643.567
	57	Fe	2.322695	50.595	36912.759	ug/L	35571.910
	59	Co	0.004888	30.675	338.340	ug/L	243.670
	60	Ni	-0.017838	8.481	375.567	ug/L	440.198
	65	Cu	-0.003722	415.677	559.707	ug/L	571.835
	68	Zn	-2.497071	30.351	14709.077	ug/L	18512.231
	75	As	-0.508610	78.849	32460.519	ug/L	34380.454
	82	Se	-0.001446	5668.275	1148.523	ug/L	1144.563
	97	Mo	-0.145231	160.805	3006.540	ug/L	3515.070
>	72	Ge-1			4255282.958	ug/L	4237437.575
	107	Ag	0.008257	22.696	561.351	ug/L	424.677
	111	Cd	0.007356	65.257	63.499	ug/L	37.783
	121	Sb	0.054004	14.208	917.382	ug/L	354.674
	135	Ba	-0.001814	613.438	610.688	ug/L	618.689
>	115	In-1			4094166.193	ug/L	4113033.591
	205	Tl	0.043705	154.462	8045.811	ug/L	7046.934
	208	Pb	-0.009134	173.530	7380.217	ug/L	7813.017
>	169	Tm-1			2382493.032	ug/L	2415258.959
	50	Cr	-0.051478	496.455	-1422.063	ug/L	-1403.175
	53	Cr	1.606035	359.517	207135.378	ug/L	203849.240
	61	Ni	-8.238734	75.407	6064.893	ug/L	6553.201
	63	Cu	0.003054	103.049	224.341	ug/L	214.674
	67	Zn	-1.590516	74.098	3631.778	ug/L	3829.349
	66	Zn	-2.646780	27.755	6498.448	ug/L	8394.933
	76	Se	-91.839398	163.529	-663874.158	ug/L	-651058.457
	77	Se	0.062623	2512.180	28751.363	ug/L	28615.717
	78	Se	-1.072155	29.527	36666.955	ug/L	37600.653

	79 Br	-57.922536	126.824	104276.616	ug/L	106931.239
>	72 Ge			4255282.958	ug/L	4237437.575
	108 Cd	0.009850	235.436	10.966	ug/L	8.447
	114 Cd	0.005762	29.749	175.325	ug/L	129.289
	109 Ag	0.007034	62.999	200.340	ug/L	161.671
>	115 In			4094166.193	ug/L	4113033.591
	208 207.977	-0.006888	237.369	3876.529	ug/L	4065.278
	207 Pb	-0.007050	363.350	1609.483	ug/L	1682.495
	206 Pb	-0.015396	78.389	1894.205	ug/L	2065.244
>	169 Tm			2382493.032	ug/L	2415258.959
	106 Pd	-0.004971	150.997	15.333	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.045
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	100.421
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.541
	Tl	205	
	Pb	208	
>	Tm-1	169	98.643
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	100.421
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	99.541
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.643
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H4Q29C
Sample Description: G6E040000-580 LCS
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:02:45
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H4Q29C.038
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 103
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3872100.523	ug/L	3988319.491
>	6	Li-1			1009441.963	ug/L	952537.641
	9	Be	179.991169	1.735	55663.838	ug/L	7.667
	27	Al	1032.642359	2.085	5873989.328	ug/L	57256.195
	44	Ca	955.586673	0.505	503860.578	ug/L	97200.916
	51	V	185.572091	3.114	3283842.952	ug/L	-34278.136
	52	Cr	209.462167	1.698	2923482.562	ug/L	54511.996
	55	Mn	190.823377	1.528	4697509.634	ug/L	6031.746
	54	Fe	987.984623	12.561	1354839.525	ug/L	165643.567
	57	Fe	914.761667	2.072	486907.014	ug/L	35571.910
	59	Co	196.779281	1.484	3633560.485	ug/L	243.670
	60	Ni	194.478365	1.904	697482.479	ug/L	440.198
	65	Cu	193.270591	0.312	728449.992	ug/L	571.835
	68	Zn	183.199516	1.699	291639.542	ug/L	18512.231
	75	As	182.831558	2.290	743423.012	ug/L	34380.454
	82	Se	182.426403	2.589	70905.382	ug/L	1144.563
	97	Mo	198.240075	0.672	679181.817	ug/L	3515.070
>	72	Ge-1			4089495.423	ug/L	4237437.575
	107	Ag	48.355505	0.516	813587.922	ug/L	424.677
	111	Cd	189.560887	1.720	670501.461	ug/L	37.783
	121	Sb	45.890511	1.149	480718.774	ug/L	354.674
	135	Ba	200.843996	0.848	564266.107	ug/L	618.689
>	115	In-1			4103932.295	ug/L	4113033.591
	205	Tl	51.699969	1.411	1329489.164	ug/L	7046.934
	208	Pb	204.454085	0.988	7482294.335	ug/L	7813.017
>	169	Tm-1			2446608.620	ug/L	2415258.959
	50	Cr	195.261729	1.753	48390.392	ug/L	-1403.175
	53	Cr	139.165296	3.052	406291.495	ug/L	203849.240
	61	Ni	189.738704	5.625	17703.387	ug/L	6553.201
	63	Cu	212.272484	1.927	590192.541	ug/L	214.674
	67	Zn	166.083919	1.008	25058.750	ug/L	3829.349
	66	Zn	173.815850	1.271	130019.710	ug/L	8394.933
	76	Se	107.265957	33.974	-617190.643	ug/L	-651058.457
	77	Se	134.471242	2.095	66777.935	ug/L	28615.717
	78	Se	178.994409	1.649	210995.794	ug/L	37600.653

	79 Br	-956.503874	4.902	54535.210	ug/L	106931.239
>	72 Ge			4089495.423	ug/L	4237437.575
	108 Cd	184.267066	0.523	47549.100	ug/L	8.447
	114 Cd	205.427757	0.733	1664234.322	ug/L	129.289
	109 Ag	49.195374	1.266	275744.350	ug/L	161.671
>	115 In			4103932.295	ug/L	4113033.591
	208 207.977	197.729771	1.198	3914821.699	ug/L	4065.278
	207 Pb	221.674907	0.788	1612633.901	ug/L	1682.495
	206 Pb	205.279377	1.954	1954838.735	ug/L	2065.244
>	169 Tm			2446608.620	ug/L	2415258.959
	106 Pd	187.658649	1.278	62935.550	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	105.974
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.509
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.779
	Tl	205	
	Pb	208	
>	Tm-1	169	101.298
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.509
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	99.779
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.298
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H4Q29L
Sample Description: G6E040000-580 LCSD
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:07:02
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H4Q29L.039
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 104
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3812750.546	ug/L	3988319.491
>	6	Li-1			1013174.152	ug/L	952537.641
	9	Be	182.393660	2.459	56604.514	ug/L	7.667
	27	Al	1081.297931	1.634	6115111.796	ug/L	57256.195
	44	Ca	955.362027	1.439	501016.889	ug/L	97200.916
	51	V	189.082622	1.052	3328580.555	ug/L	-34278.136
	52	Cr	218.400424	1.991	3028716.038	ug/L	54511.996
	55	Mn	190.660212	2.119	4668197.024	ug/L	6031.746
	54	Fe	917.064049	2.214	1262573.901	ug/L	165643.567
	57	Fe	926.615040	1.273	490096.544	ug/L	35571.910
	59	Co	199.887461	1.288	3670703.773	ug/L	243.670
	60	Ni	194.387843	0.911	693261.891	ug/L	440.198
	65	Cu	194.382192	0.908	728588.413	ug/L	571.835
	68	Zn	186.588025	0.354	295061.591	ug/L	18512.231
	75	As	184.485655	0.343	745761.753	ug/L	34380.454
	82	Se	181.603352	1.894	70195.120	ug/L	1144.563
	97	Mo	200.419843	0.918	682867.220	ug/L	3515.070
>	72	Ge-1			4066976.851	ug/L	4237437.575
	107	Ag	48.174349	1.845	813177.309	ug/L	424.677
	111	Cd	189.458986	1.585	672336.429	ug/L	37.783
	121	Sb	45.940289	2.027	482811.411	ug/L	354.674
	135	Ba	198.126515	1.034	558478.969	ug/L	618.689
>	115	In-1			4117412.810	ug/L	4113033.591
	205	Tl	51.865441	0.694	1336508.425	ug/L	7046.934
	208	Pb	205.451124	1.598	7533680.757	ug/L	7813.017
>	169	Tm-1			2451654.071	ug/L	2415258.959
	50	Cr	209.996745	4.155	51871.109	ug/L	-1403.175
	53	Cr	146.658150	4.713	415222.129	ug/L	203849.240
	61	Ni	192.383663	1.561	17763.690	ug/L	6553.201
	63	Cu	213.105530	2.000	589254.886	ug/L	214.674
	67	Zn	172.288180	1.570	25714.389	ug/L	3829.349
	66	Zn	178.268471	1.667	132396.528	ug/L	8394.933
	76	Se	64.598132	192.242	-618226.470	ug/L	-651058.457
	77	Se	133.892844	4.004	66233.722	ug/L	28615.717
	78	Se	180.490181	0.957	211293.829	ug/L	37600.653

	79 Br	-986.030985	5.874	52736.577	ug/L	106931.239
>	72 Ge			4066976.851	ug/L	4237437.575
	108 Cd	182.415800	0.833	47227.439	ug/L	8.447
	114 Cd	204.880101	0.571	1665293.289	ug/L	129.289
	109 Ag	47.979320	1.132	269831.334	ug/L	161.671
>	115 In			4117412.810	ug/L	4113033.591
	208 207.977	199.511775	1.471	3957972.158	ug/L	4065.278
	207 Pb	221.452755	1.877	1614169.487	ug/L	1682.495
	206 Pb	205.575739	1.734	1961539.112	ug/L	2065.244
>	169 Tm			2451654.071	ug/L	2415258.959
	106 Pd	188.298499	1.077	63150.080	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	106.366
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	95.977
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.106
	Tl	205	
	Pb	208	
>	Tm-1	169	101.507
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	95.977
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.106
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.507
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 17:11:21
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\Rinse.040
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4005843.411	ug/L	3988319.491
>	6	Li-1			1028066.964	ug/L	952537.641
	9	Be	-0.000790	1478.273	8.000	ug/L	7.667
	27	Al	0.849086	12.195	61109.683	ug/L	57256.195
	44	Ca	-6.809845	20.663	92496.666	ug/L	97200.916
	51	V	-0.122797	272.621	-35937.266	ug/L	-34278.136
	52	Cr	0.435711	10.194	59618.763	ug/L	54511.996
	55	Mn	-0.003540	128.270	5835.612	ug/L	6031.746
	54	Fe	5.707992	12.855	169725.176	ug/L	165643.567
	57	Fe	1.106787	217.236	35494.284	ug/L	35571.910
	59	Co	0.010354	19.011	433.677	ug/L	243.670
	60	Ni	-0.015652	80.145	374.987	ug/L	440.198
	65	Cu	0.008279	113.860	593.192	ug/L	571.835
	68	Zn	-3.224025	31.227	13269.795	ug/L	18512.231
	75	As	-0.511070	28.191	31752.191	ug/L	34380.454
	82	Se	0.097060	126.357	1162.090	ug/L	1144.563
	97	Mo	-0.109886	173.768	3069.888	ug/L	3515.070
>	72	Ge-1			4162166.986	ug/L	4237437.575
	107	Ag	0.031748	16.741	945.385	ug/L	424.677
	111	Cd	0.009593	19.113	70.733	ug/L	37.783
	121	Sb	0.416237	17.583	4651.926	ug/L	354.674
	135	Ba	0.020458	42.111	666.025	ug/L	618.689
>	115	In-1			4050205.201	ug/L	4113033.591
	205	Tl	-0.190111	1.722	2216.281	ug/L	7046.934
	208	Pb	-0.015103	72.175	7171.148	ug/L	7813.017
>	169	Tm-1			2382596.302	ug/L	2415258.959
	50	Cr	0.226570	41.663	-1319.362	ug/L	-1403.175
	53	Cr	-4.070328	27.977	193987.277	ug/L	203849.240
	61	Ni	-9.085757	47.248	5880.532	ug/L	6553.201
	63	Cu	0.011541	90.690	243.343	ug/L	214.674
	67	Zn	-2.928375	60.533	3376.494	ug/L	3829.349
	66	Zn	-3.317906	27.792	5872.885	ug/L	8394.933
	76	Se	-68.267607	205.657	-646797.035	ug/L	-651058.457
	77	Se	-5.016985	33.365	26617.646	ug/L	28615.717
	78	Se	-1.586588	12.425	35355.467	ug/L	37600.653

	79 Br	-85.031625	46.441	100615.008	ug/L	106931.239
>	72 Ge			4162166.986	ug/L	4237437.575
	108 Cd	0.022428	82.268	14.002	ug/L	8.447
	114 Cd	0.011373	35.475	218.327	ug/L	129.289
	109 Ag	0.034202	15.998	348.353	ug/L	161.671
>	115 In			4050205.201	ug/L	4113033.591
	208 207.977	-0.012522	74.663	3769.813	ug/L	4065.278
	207 Pb	-0.015776	118.816	1548.471	ug/L	1682.495
	206 Pb	-0.019954	56.279	1852.863	ug/L	2065.244
>	169 Tm			2382596.302	ug/L	2415258.959
	106 Pd	-0.000994	346.410	16.667	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	107.929
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.224
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.472
	Tl	205	
	Pb	208	
>	Tm-1	169	98.648
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.224
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	98.472
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.648
	Pd	106	

Sample ID: H4Q29B
Sample Description: G6E040000-580 BLK
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:15:42
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H4Q29B.041
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 21
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3876204.093	ug/L	3988319.491
>	6	Li-1			1030849.992	ug/L	952537.641
	9	Be	-0.017783	37.747	2.667	ug/L	7.667
	27	Al	-3.249886	5.011	37076.081	ug/L	57256.195
	44	Ca	-31.692641	11.525	80495.985	ug/L	97200.916
	51	V	1.302375	12.091	-9836.151	ug/L	-34278.136
	52	Cr	-0.773725	8.971	42156.005	ug/L	54511.996
	55	Mn	0.418564	6.395	16170.611	ug/L	6031.746
	54	Fe	82.474042	3.749	260593.937	ug/L	165643.567
	57	Fe	56.682826	5.254	62599.880	ug/L	35571.910
	59	Co	0.011548	14.194	450.012	ug/L	243.670
	60	Ni	0.002212	177.020	434.325	ug/L	440.198
	65	Cu	0.009645	39.485	590.316	ug/L	571.835
	68	Zn	-2.620248	16.084	14000.540	ug/L	18512.231
	75	As	-0.097143	33.963	32921.113	ug/L	34380.454
	82	Se	-0.110850	64.495	1066.007	ug/L	1144.563
	97	Mo	-0.687313	1.830	1053.063	ug/L	3515.070
>	72	Ge-1			4104261.182	ug/L	4237437.575
	107	Ag	-0.006623	48.371	315.672	ug/L	424.677
	111	Cd	-0.001410	166.350	33.047	ug/L	37.783
	121	Sb	0.098186	13.538	1398.779	ug/L	354.674
	135	Ba	-0.107802	6.724	318.339	ug/L	618.689
>	115	In-1			4152185.077	ug/L	4113033.591
	205	Tl	-0.232547	0.453	1191.414	ug/L	7046.934
	208	Pb	0.023493	39.691	8783.743	ug/L	7813.017
>	169	Tm-1			2449411.648	ug/L	2415258.959
	50	Cr	3.275049	5.503	-521.679	ug/L	-1403.175
	53	Cr	-70.891138	3.988	90318.070	ug/L	203849.240
	61	Ni	-7.470424	31.328	5897.562	ug/L	6553.201
	63	Cu	0.014848	39.949	249.343	ug/L	214.674
	67	Zn	-10.391275	7.251	2367.564	ug/L	3829.349
	66	Zn	-2.563542	23.492	6326.416	ug/L	8394.933
	76	Se	-81.097007	20.815	-639042.135	ug/L	-651058.457
	77	Se	-53.017605	3.503	12221.646	ug/L	28615.717
	78	Se	-1.439578	8.897	35008.672	ug/L	37600.653

	79 Br	-1039.712853	3.192	50478.122	ug/L	106931.239
>	72 Ge			4104261.182	ug/L	4237437.575
	108 Cd	-0.014101	235.601	4.890	ug/L	8.447
	114 Cd	-0.003129	47.560	104.874	ug/L	129.289
	109 Ag	-0.009022	40.553	112.002	ug/L	161.671
>	115 In			4152185.077	ug/L	4113033.591
	208 207.977	0.028921	28.352	4695.594	ug/L	4065.278
	207 Pb	0.019266	54.439	1846.528	ug/L	1682.495
	206 Pb	0.015436	74.288	2241.621	ug/L	2065.244
>	169 Tm			2449411.648	ug/L	2415258.959
	106 Pd	-0.011930	139.194	13.000	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	108.221
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.857
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.952
	Tl	205	
	Pb	208	
>	Tm-1	169	101.414
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.857
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.952
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.414
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H341E
Sample Description: G6D260252-1
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:20:02
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H341E.042
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 32
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3980060.010	ug/L	3988319.491
>	6	Li-1			1036448.389	ug/L	952537.641
	9	Be	-0.012633	37.623	4.333	ug/L	7.667
	27	Al	63.790110	14.386	419277.604	ug/L	57256.195
	44	Ca	419.645646	5.041	276437.636	ug/L	97200.916
	51	V	1.235805	38.944	-11195.742	ug/L	-34278.136
	52	Cr	1.085077	7.144	68127.953	ug/L	54511.996
	55	Mn	3.062697	1.844	81923.016	ug/L	6031.746
	54	Fe	80.948962	1.816	260309.576	ug/L	165643.567
	57	Fe	58.900570	7.612	64058.573	ug/L	35571.910
	59	Co	5.559510	2.246	103854.808	ug/L	243.670
	60	Ni	0.983067	2.696	3986.114	ug/L	440.198
	65	Cu	15.365991	2.119	58971.574	ug/L	571.835
	68	Zn	2.823609	5.136	22296.375	ug/L	18512.231
	75	As	0.097059	24.360	33879.433	ug/L	34380.454
	82	Se	0.059834	170.472	1138.051	ug/L	1144.563
	97	Mo	-0.568685	1.920	1468.123	ug/L	3515.070
>	72	Ge-1			4128822.298	ug/L	4237437.575
	107	Ag	0.006252	25.877	542.017	ug/L	424.677
	111	Cd	0.021237	20.315	115.633	ug/L	37.783
	121	Sb	0.120911	5.947	1659.824	ug/L	354.674
	135	Ba	1.388076	2.727	4625.223	ug/L	618.689
>	115	In-1			4206065.887	ug/L	4113033.591
	205	Tl	-0.123457	2.197	3953.560	ug/L	7046.934
	208	Pb	0.823249	3.112	37747.712	ug/L	7813.017
>	169	Tm-1			2430233.032	ug/L	2415258.959
	50	Cr	5.069030	11.251	-65.081	ug/L	-1403.175
	53	Cr	-65.923022	6.047	98453.383	ug/L	203849.240
	61	Ni	2.344300	201.802	6523.806	ug/L	6553.201
	63	Cu	15.486511	2.272	43653.126	ug/L	214.674
	67	Zn	-5.515661	12.808	3015.456	ug/L	3829.349
	66	Zn	2.812338	6.668	10169.855	ug/L	8394.933
	76	Se	-102.320048	178.994	-645311.845	ug/L	-651058.457
	77	Se	-51.105485	2.240	12856.278	ug/L	28615.717
	78	Se	-1.338765	22.148	35314.178	ug/L	37600.653

	79 Br	-990.211992	3.264	53338.715	ug/L	106931.239
>	72 Ge			4128822.298	ug/L	4237437.575
	108 Cd	0.143116	18.524	46.488	ug/L	8.447
	114 Cd	0.016055	10.840	265.500	ug/L	129.289
	109 Ag	0.004704	169.056	192.339	ug/L	161.671
>	115 In			4206065.887	ug/L	4113033.591
	208 207.977	0.802095	3.388	19843.477	ug/L	4065.278
	207 Pb	0.889967	2.387	8115.762	ug/L	1682.495
	206 Pb	0.816262	3.376	9788.472	ug/L	2065.244
>	169 Tm			2430233.032	ug/L	2415258.959
	106 Pd	0.358905	18.700	137.334	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	108.809
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	97.437
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	102.262
	Tl	205	
	Pb	208	
>	Tm-1	169	100.620
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.437
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	102.262
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.620
	Pd	106	

SOP No. SAC-MT-0001

BJones

Sample ID: H341EP5

Sample Description: G6D260252-1 5X
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:24:21
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H341EP5.043
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 33
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4065434.158	ug/L	3988319.491
>	6	Li-1			1026070.335	ug/L	952537.641
	9	Be	-0.008254	79.473	5.667	ug/L	7.667
	27	Al	12.769270	17.982	130702.263	ug/L	57256.195
	44	Ca	82.854423	9.285	132641.802	ug/L	97200.916
	51	V	0.214625	97.435	-30053.528	ug/L	-34278.136
	52	Cr	0.890705	12.689	66468.221	ug/L	54511.996
	55	Mn	1.477080	1.640	43216.133	ug/L	6031.746
	54	Fe	165.482608	5.510	369216.820	ug/L	165643.567
	57	Fe	164.800555	3.196	118811.104	ug/L	35571.910
	59	Co	1.143680	1.747	21901.055	ug/L	243.670
	60	Ni	0.228529	4.049	1275.448	ug/L	440.198
	65	Cu	3.138530	4.238	12683.100	ug/L	571.835
	68	Zn	0.240509	422.842	18680.320	ug/L	18512.231
	75	As	-0.275479	151.039	32912.705	ug/L	34380.454
	82	Se	-0.007220	1162.099	1129.734	ug/L	1144.563
	97	Mo	-0.831235	0.260	573.019	ug/L	3515.070
>	72	Ge-1			4194898.278	ug/L	4237437.575
	107	Ag	0.000649	89.693	436.011	ug/L	424.677
	111	Cd	0.001554	205.729	43.205	ug/L	37.783
	121	Sb	0.072311	10.056	1114.071	ug/L	354.674
	135	Ba	0.295374	7.810	1449.787	ug/L	618.689
>	115	In-1			4116866.176	ug/L	4113033.591
	205	Tl	-0.227660	0.496	1283.427	ug/L	7046.934
	208	Pb	0.155692	6.923	13274.600	ug/L	7813.017
>	169	Tm-1			2387855.668	ug/L	2415258.959
	50	Cr	0.816664	34.363	-1174.975	ug/L	-1403.175
	53	Cr	-10.126314	40.413	186094.548	ug/L	203849.240
	61	Ni	-7.151104	62.620	6049.196	ug/L	6553.201
	63	Cu	3.209449	4.412	9355.989	ug/L	214.674
	67	Zn	-0.836836	239.952	3678.503	ug/L	3829.349
	66	Zn	0.204419	455.991	8453.458	ug/L	8394.933
	76	Se	-26.004440	101.102	-647325.913	ug/L	-651058.457
	77	Se	-8.754302	24.315	25710.428	ug/L	28615.717
	78	Se	-1.480325	66.638	35725.221	ug/L	37600.653

	79 Br	-239.617557	12.371	93337.940	ug/L	106931.239
>	72 Ge			4194898.278	ug/L	4237437.575
	108 Cd	0.006316	665.694	10.251	ug/L	8.447
	114 Cd	-0.002536	49.593	108.813	ug/L	129.289
	109 Ag	-0.001698	105.162	152.337	ug/L	161.671
>	115 In			4116866.176	ug/L	4113033.591
	208 207.977	0.154918	5.527	7007.805	ug/L	4065.278
	207 Pb	0.174679	10.972	2900.481	ug/L	1682.495
	206 Pb	0.142797	7.315	3366.314	ug/L	2065.244
>	169 Tm			2387855.668	ug/L	2415258.959
	106 Pd	0.055675	30.462	35.667	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	107.720
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.996
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.093
	Tl	205	
	Pb	208	
>	Tm-1	169	98.865
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.996
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.093
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.865
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H341EZ
Sample Description: G6D260252-1 PS
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:28:40
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H341EZ.044
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 34
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3825396.242	ug/L	3988319.491
>	6	Li-1			1025637.070	ug/L	952537.641
	9	Be	186.209032	0.854	58517.397	ug/L	7.667
	27	Al	1169.651461	5.227	6472792.300	ug/L	57256.195
	44	Ca	1435.860563	3.535	691381.167	ug/L	97200.916
	51	V	196.969991	2.992	3397350.958	ug/L	-34278.136
	52	Cr	219.260654	3.737	2977704.309	ug/L	54511.996
	55	Mn	203.617020	1.221	4882102.030	ug/L	6031.746
	54	Fe	1243.422147	6.552	1620659.598	ug/L	165643.567
	57	Fe	1128.567843	9.392	576912.477	ug/L	35571.910
	59	Co	211.935847	1.708	3811426.740	ug/L	243.670
	60	Ni	204.843705	1.978	715508.540	ug/L	440.198
	65	Cu	215.703368	1.609	791844.699	ug/L	571.835
	68	Zn	202.551553	2.381	312188.345	ug/L	18512.231
	75	As	192.368005	2.945	760103.197	ug/L	34380.454
	82	Se	190.537434	2.342	72080.593	ug/L	1144.563
	97	Mo	206.523663	1.303	689035.746	ug/L	3515.070
>	72	Ge-1			3983485.497	ug/L	4237437.575
	107	Ag	60.325988	1.599	1006068.164	ug/L	424.677
	111	Cd	195.510927	1.048	685544.404	ug/L	37.783
	121	Sb	47.046167	1.130	488551.806	ug/L	354.674
	135	Ba	205.522200	1.624	572395.394	ug/L	618.689
>	115	In-1			4068285.225	ug/L	4113033.591
	205	Tl	53.573432	1.845	1338197.727	ug/L	7046.934
	208	Pb	214.347321	1.111	7621138.634	ug/L	7813.017
>	169	Tm-1			2377248.419	ug/L	2415258.959
	50	Cr	214.156664	4.025	51807.924	ug/L	-1403.175
	53	Cr	151.786675	3.739	414219.783	ug/L	203849.240
	61	Ni	189.742534	5.866	17240.796	ug/L	6553.201
	63	Cu	235.261364	2.349	636984.771	ug/L	214.674
	67	Zn	187.343759	0.615	27071.768	ug/L	3829.349
	66	Zn	192.631536	2.803	139474.327	ug/L	8394.933
	76	Se	170.851759	82.392	-594891.788	ug/L	-651058.457
	77	Se	145.148770	3.656	68067.208	ug/L	28615.717
	78	Se	188.792646	3.157	214814.020	ug/L	37600.653

	79 Br	-943.596179	6.218	53744.810	ug/L	106931.239
>	72 Ge			3983485.497	ug/L	4237437.575
	108 Cd	189.665448	0.648	48517.480	ug/L	8.447
	114 Cd	213.053537	1.592	1711045.438	ug/L	129.289
	109 Ag	61.753889	0.251	343112.649	ug/L	161.671
>	115 In			4068285.225	ug/L	4113033.591
	208 207.977	207.604667	0.465	3993629.424	ug/L	4065.278
	207 Pb	232.598150	1.599	1643896.873	ug/L	1682.495
	206 Pb	214.423890	2.381	1983612.337	ug/L	2065.244
>	169 Tm			2377248.419	ug/L	2415258.959
	106 Pd	193.408448	3.176	64863.353	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	107.674
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	94.007
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.912
	Tl	205	
	Pb	208	
>	Tm-1	169	98.426
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	94.007
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	98.912
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.426
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H341Q
Sample Description: G6D260252-2
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:32:59
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H341Q.045
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 35
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3946734.205	ug/L	3988319.491
>	6	Li-1			1022290.097	ug/L	952537.641
	9	Be	-0.009244	19.408	5.333	ug/L	7.667
	27	Al	63.993553	2.654	416649.158	ug/L	57256.195
	44	Ca	330.635898	0.382	236145.540	ug/L	97200.916
	51	V	1.281080	35.611	-10162.535	ug/L	-34278.136
	52	Cr	3.204706	3.519	96712.258	ug/L	54511.996
	55	Mn	2.746053	1.932	73481.986	ug/L	6031.746
	54	Fe	76.602705	2.916	253045.134	ug/L	165643.567
	57	Fe	60.956614	3.027	64612.123	ug/L	35571.910
	59	Co	0.733610	2.869	13805.219	ug/L	243.670
	60	Ni	0.862239	4.599	3521.768	ug/L	440.198
	65	Cu	6.615242	0.485	25515.512	ug/L	571.835
	68	Zn	1.008283	54.907	19406.181	ug/L	18512.231
	75	As	0.041681	451.664	33403.126	ug/L	34380.454
	82	Se	0.156133	87.344	1166.859	ug/L	1144.563
	97	Mo	-0.042543	440.626	3252.620	ug/L	3515.070
>	72	Ge-1			4097437.947	ug/L	4237437.575
	107	Ag	0.017758	5.150	724.363	ug/L	424.677
	111	Cd	0.023607	39.417	121.177	ug/L	37.783
	121	Sb	0.342042	16.308	3948.905	ug/L	354.674
	135	Ba	1.395252	2.785	4545.514	ug/L	618.689
>	115	In-1			4116204.866	ug/L	4113033.591
	205	Tl	-0.189080	1.444	2287.966	ug/L	7046.934
	208	Pb	0.766092	0.532	35699.304	ug/L	7813.017
>	169	Tm-1			2431464.890	ug/L	2415258.959
	50	Cr	6.687419	4.118	350.527	ug/L	-1403.175
	53	Cr	-65.939115	5.590	97620.150	ug/L	203849.240
	61	Ni	-3.615803	241.680	6117.006	ug/L	6553.201
	63	Cu	6.610020	1.866	18613.951	ug/L	214.674
	67	Zn	-7.569200	15.731	2726.858	ug/L	3829.349
	66	Zn	0.989014	24.163	8812.076	ug/L	8394.933
	76	Se	-105.994141	50.129	-640544.751	ug/L	-651058.457
	77	Se	-53.770401	2.697	11981.411	ug/L	28615.717
	78	Se	-1.551172	20.570	34840.029	ug/L	37600.653

	79 Br	-1002.850650	4.412	52270.515	ug/L	106931.239
>	72 Ge			4097437.947	ug/L	4237437.575
	108 Cd	0.127265	26.889	41.452	ug/L	8.447
	114 Cd	0.018094	35.427	276.202	ug/L	129.289
	109 Ag	0.016621	16.483	255.010	ug/L	161.671
>	115 In			4116204.866	ug/L	4113033.591
	208 207.977	0.759475	0.861	19020.651	ug/L	4065.278
	207 Pb	0.837741	1.392	7744.092	ug/L	1682.495
	206 Pb	0.725116	2.508	8934.561	ug/L	2065.244
>	169 Tm			2431464.890	ug/L	2415258.959
	106 Pd	0.338027	15.842	130.334	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	107.323
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.696
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.077
	Tl	205	
	Pb	208	
>	Tm-1	169	100.671
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.696
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.077
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.671
	Pd	106	

SOP No. SAC-MT-0001

BJones

Sample ID: H341V

Sample Description: G6D260252-3
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:37:19
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H341V.046
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 36
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3899710.641	ug/L	3988319.491
>	6	Li-1			1037393.564	ug/L	952537.641
	9	Be	-0.013588	63.649	4.000	ug/L	7.667
	27	Al	62.881131	10.485	409163.958	ug/L	57256.195
	44	Ca	280.317268	4.204	213908.290	ug/L	97200.916
	51	V	1.478522	7.702	-6653.286	ug/L	-34278.136
	52	Cr	2.326392	10.996	84422.077	ug/L	54511.996
	55	Mn	2.703002	1.768	72221.519	ug/L	6031.746
	54	Fe	190.938323	1.258	390616.606	ug/L	165643.567
	57	Fe	167.546739	2.920	117123.022	ug/L	35571.910
	59	Co	1.281033	0.912	23868.847	ug/L	243.670
	60	Ni	0.928802	1.190	3750.969	ug/L	440.198
	65	Cu	23.857757	0.721	90337.055	ug/L	571.835
	68	Zn	-1.508438	29.176	15596.901	ug/L	18512.231
	75	As	0.103431	197.824	33560.345	ug/L	34380.454
	82	Se	0.034051	496.768	1116.883	ug/L	1144.563
	97	Mo	-0.525303	5.743	1599.813	ug/L	3515.070
>	72	Ge-1			4086333.591	ug/L	4237437.575
	107	Ag	0.008155	42.126	568.685	ug/L	424.677
	111	Cd	0.019077	12.358	106.530	ug/L	37.783
	121	Sb	0.149846	10.493	1946.551	ug/L	354.674
	135	Ba	1.534400	1.530	4988.088	ug/L	618.689
>	115	In-1			4158055.872	ug/L	4113033.591
	205	Tl	-0.205791	1.520	1876.201	ug/L	7046.934
	208	Pb	0.758598	3.605	35680.818	ug/L	7813.017
>	169	Tm-1			2449278.873	ug/L	2415258.959
	50	Cr	5.900873	6.022	148.995	ug/L	-1403.175
	53	Cr	-66.699167	6.898	96222.230	ug/L	203849.240
	61	Ni	-9.770359	48.937	5733.262	ug/L	6553.201
	63	Cu	23.734229	0.895	66116.436	ug/L	214.674
	67	Zn	-9.030244	9.372	2532.027	ug/L	3829.349
	66	Zn	-1.810067	14.835	6826.116	ug/L	8394.933
	76	Se	-70.697626	64.216	-635174.263	ug/L	-651058.457
	77	Se	-52.767180	3.450	12240.330	ug/L	28615.717
	78	Se	-1.071502	31.488	35216.617	ug/L	37600.653

	79 Br	-996.259200	2.653	52466.594	ug/L	106931.239
>	72 Ge			4086333.591	ug/L	4237437.575
	108 Cd	0.195535	8.980	59.612	ug/L	8.447
	114 Cd	0.012384	42.555	232.007	ug/L	129.289
	109 Ag	0.004579	45.646	189.339	ug/L	161.671
>	115 In			4158055.872	ug/L	4113033.591
	208 207.977	0.746629	3.683	18902.734	ug/L	4065.278
	207 Pb	0.835030	4.724	7779.459	ug/L	1682.495
	206 Pb	0.725095	2.602	8998.625	ug/L	2065.244
>	169 Tm			2449278.873	ug/L	2415258.959
	106 Pd	0.374812	3.013	142.668	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	108.908
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.434
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	101.095
	Tl	205	
	Pb	208	
>	Tm-1	169	101.409
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.434
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	101.095
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.409
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 17:41:39
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 5.047
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3934795.119	ug/L	3988319.491
>	6	Li-1			984228.368	ug/L	952537.641
	9	Be	98.492526	2.117	29698.315	ug/L	7.667
	27	Al	5479.808412	3.524	31351900.870	ug/L	57256.195
	44	Ca	5187.519543	1.577	2351806.239	ug/L	97200.916
	51	V	106.576087	0.233	1897907.158	ug/L	-34278.136
	52	Cr X	111.247448	0.771	1599015.903	ug/L	54511.996
	55	Mn	100.219654	1.827	2503744.237	ug/L	6031.746
	54	Fe	5123.006349	1.951	6445640.479	ug/L	165643.567
	57	Fe	5125.439832	1.837	2606151.305	ug/L	35571.910
	59	Co	101.090311	1.694	1892743.765	ug/L	243.670
	60	Ni	97.738317	0.224	355575.502	ug/L	440.198
	65	Cu	96.955685	2.482	370674.547	ug/L	571.835
	68	Zn	93.296066	2.192	159429.364	ug/L	18512.231
	75	As	97.461351	1.591	417439.281	ug/L	34380.454
	82	Se	99.306400	1.035	39640.917	ug/L	1144.563
	97	Mo	196.323458	2.042	681822.944	ug/L	3515.070
>	72	Ge-1			4145997.374	ug/L	4237437.575
	107	Ag	50.225477	1.597	811843.092	ug/L	424.677
	111	Cd	101.861689	1.383	346164.285	ug/L	37.783
	121	Sb	50.655529	1.009	509793.761	ug/L	354.674
	135	Ba	101.103858	1.540	273196.234	ug/L	618.689
>	115	In-1			3943009.662	ug/L	4113033.591
	205	Tl	49.875014	0.712	1219726.696	ug/L	7046.934
	208	Pb	100.277959	0.877	3493101.885	ug/L	7813.017
>	169	Tm-1			2326203.795	ug/L	2415258.959
	50	Cr	122.174238	5.255	30198.213	ug/L	-1403.175
	53	Cr	102.082675	1.230	355279.583	ug/L	203849.240
	61	Ni	88.483990	6.266	11788.532	ug/L	6553.201
	63	Cu	95.958643	1.677	270544.555	ug/L	214.674
	67	Zn	92.000391	3.438	15739.541	ug/L	3829.349
	66	Zn	92.824665	2.341	74207.097	ug/L	8394.933
	76	Se	-59.110712	118.841	-643267.433	ug/L	-651058.457
	77	Se	100.632922	0.986	57706.243	ug/L	28615.717
	78	Se	96.407314	1.342	132185.302	ug/L	37600.653

79	Br	-10.723830	174.359	104078.652	ug/L	106931.239
72	Ge			4145997.374	ug/L	4237437.575
108	Cd	101.134302	1.470	25075.747	ug/L	8.447
114	Cd	100.668722	1.113	783624.851	ug/L	129.289
109	Ag	50.972545	1.069	274499.899	ug/L	161.671
115	In			3943009.662	ug/L	4113033.591
208	207.977	100.050924	0.690	1885395.544	ug/L	4065.278
207	Pb	100.199297	1.101	693964.792	ug/L	1682.495
206	Pb	100.810093	1.863	913741.549	ug/L	2065.244
169	Tm			2326203.795	ug/L	2415258.959
106	Pd	97.671729	0.496	32764.564	ug/L	17.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	103.327
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	97.842
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	95.866
Tl	205	
Pb	208	
Tm-1	169	96.313
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	97.842
Cd	108	
Cd	114	
Ag	109	
In	115	95.866
207.977	208	
Pb	207	
Pb	206	
Tm	169	96.313
Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 17:46:00
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 5.048
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4084863.307	ug/L	3988319.491
>	6	Li-1			990596.515	ug/L	952537.641
	9	Be	0.003452	264.363	9.000	ug/L	7.667
	27	Al	0.735559	48.414	62126.143	ug/L	57256.195
	44	Ca	-15.790120	23.521	91038.821	ug/L	97200.916
	51	V	-0.421224	81.612	-42517.974	ug/L	-34278.136
	52	Cr	0.261100	52.118	58763.355	ug/L	54511.996
	55	Mn	-0.010090	134.564	5827.943	ug/L	6031.746
	54	Fe	1.928673	202.853	169640.670	ug/L	165643.567
	57	Fe	3.845880	23.524	37906.412	ug/L	35571.910
	59	Co	0.008168	8.926	403.676	ug/L	243.670
	60	Ni	-0.024875	33.308	350.987	ug/L	440.198
	65	Cu	-0.019527	41.058	500.110	ug/L	571.835
	68	Zn	-4.734275	9.588	11282.948	ug/L	18512.231
	75	As	-0.208522	156.393	33852.609	ug/L	34380.454
	82	Se	-0.002299	3116.089	1154.454	ug/L	1144.563
	97	Mo	-0.226032	96.487	2743.120	ug/L	3515.070
>	72	Ge-1			4278762.728	ug/L	4237437.575
	107	Ag	0.015487	7.957	676.359	ug/L	424.677
	111	Cd	0.007739	33.900	64.246	ug/L	37.783
	121	Sb	0.090667	7.104	1287.428	ug/L	354.674
	135	Ba	0.000539	3235.271	612.022	ug/L	618.689
>	115	In-1			4057276.924	ug/L	4113033.591
	205	Tl	0.025261	260.003	7565.037	ug/L	7046.934
	208	Pb	-0.036060	17.377	6410.591	ug/L	7813.017
>	169	Tm-1			2377691.002	ug/L	2415258.959
	50	Cr	0.020147	1163.609	-1410.748	ug/L	-1403.175
	53	Cr	-0.954804	363.939	204289.639	ug/L	203849.240
	61	Ni	-11.087010	23.617	5920.940	ug/L	6553.201
	63	Cu	-0.006055	103.409	199.006	ug/L	214.674
	67	Zn	-3.367695	42.030	3412.198	ug/L	3829.349
	66	Zn	-4.910835	13.516	4866.803	ug/L	8394.933
	76	Se	-113.119182	92.308	-669793.670	ug/L	-651058.457
	77	Se	-5.075779	31.113	27344.548	ug/L	28615.717
	78	Se	-1.770508	42.663	36151.703	ug/L	37600.653

	79 Br	-110.738783	63.817	102041.306	ug/L	106931.239
>	72 Ge			4278762.728	ug/L	4237437.575
	108 Cd	0.027926	132.799	15.372	ug/L	8.447
	114 Cd	0.007952	22.493	191.062	ug/L	129.289
	109 Ag	0.013834	28.413	236.009	ug/L	161.671
>	115 In			4057276.924	ug/L	4113033.591
	208 207.977	-0.030739	20.219	3411.332	ug/L	4065.278
	207 Pb	-0.039165	14.805	1379.776	ug/L	1682.495
	206 Pb	-0.044752	17.645	1619.483	ug/L	2065.244
>	169 Tm			2377691.002	ug/L	2415258.959
	106 Pd	-0.015907	28.641	11.667	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.996
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	100.975
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	98.644
	Tl	205	
	Pb	208	
>	Tm-1	169	98.445
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	100.975
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	98.644
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.445
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCV 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 17:50:21
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 6.049
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3941081.328	ug/L	3988319.491
>	6	Li-1			994339.861	ug/L	952537.641
	9	Be	96.497274	0.842	29402.320	ug/L	7.667
	27	Al	5302.302329	1.747	30649340.652	ug/L	57256.195
	44	Ca	5110.500964	0.932	2341745.278	ug/L	97200.916
	51	V	96.569680	4.565	1734340.706	ug/L	-34278.136
	52	Cr	98.385226	8.443	1435391.409	ug/L	54511.996
	55	Mn	97.555495	2.822	2461661.264	ug/L	6031.746
	54	Fe	4982.496199	1.257	6337218.359	ug/L	165643.567
	57	Fe	5009.599144	3.117	2573846.761	ug/L	35571.910
	59	Co	98.863558	1.098	1869272.628	ug/L	243.670
	60	Ni	95.907613	1.489	352384.565	ug/L	440.198
	65	Cu	95.728526	1.607	369709.309	ug/L	571.835
	68	Zn	91.100155	3.108	157667.778	ug/L	18512.231
	75	As	95.227385	3.230	412699.113	ug/L	34380.454
	82	Se	96.845474	1.248	39072.580	ug/L	1144.563
	97	Mo	191.288515	0.642	671192.032	ug/L	3515.070
>	72	Ge-1			4187632.386	ug/L	4237437.575
	107	Ag	49.576025	1.857	808353.723	ug/L	424.677
	111	Cd	100.397001	1.613	344181.938	ug/L	37.783
	121	Sb	50.232792	1.740	509954.145	ug/L	354.674
	135	Ba	99.264542	2.473	270560.165	ug/L	618.689
>	115	In-1			3977953.776	ug/L	4113033.591
	205	Tl	50.179582	2.075	1231319.109	ug/L	7046.934
	208	Pb	98.877412	0.812	3456316.726	ug/L	7813.017
>	169	Tm-1			2334258.814	ug/L	2415258.959
	50	Cr	108.714122	6.329	26964.986	ug/L	-1403.175
	53	Cr	97.512660	2.613	351815.388	ug/L	203849.240
	61	Ni	83.896569	2.410	11628.602	ug/L	6553.201
	63	Cu	93.771200	2.699	267023.376	ug/L	214.674
	67	Zn	89.480543	0.889	15569.021	ug/L	3829.349
	66	Zn	89.565492	1.159	72620.447	ug/L	8394.933
	76	Se	-51.572519	331.460	-648991.101	ug/L	-651058.457
	77	Se	98.981094	3.148	57792.316	ug/L	28615.717
	78	Se	94.694730	2.845	131788.961	ug/L	37600.653

	79 Br	-61.122901	19.688	102492.548	ug/L	106931.239
>	72 Ge			4187632.386	ug/L	4237437.575
	108 Cd	100.133934	3.073	25041.223	ug/L	8.447
	114 Cd	99.830141	1.412	783899.299	ug/L	129.289
	109 Ag	50.216833	2.273	272777.427	ug/L	161.671
>	115 In			3977953.776	ug/L	4113033.591
	208 207.977	98.003882	0.729	1853269.553	ug/L	4065.278
	207 Pb	99.489078	0.757	691426.240	ug/L	1682.495
	206 Pb	100.226337	1.542	911620.933	ug/L	2065.244
>	169 Tm			2334258.814	ug/L	2415258.959
	106 Pd	97.151820	0.470	32590.248	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.389
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.825
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	96.716
	Tl	205	
	Pb	208	
>	Tm-1	169	96.646
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.825
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	96.716
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.646
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCB 6
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 17:54:41
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 6.050
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4074463.060	ug/L	3988319.491
>	6	Li-1			991014.429	ug/L	952537.641
	9	Be	0.001132	917.196	8.333	ug/L	7.667
	27	Al	0.630933	54.532	61553.886	ug/L	57256.195
	44	Ca	-17.463250	25.046	90329.896	ug/L	97200.916
	51	V	0.261215	179.990	-29678.655	ug/L	-34278.136
	52	Cr	0.253209	1.741	58698.582	ug/L	54511.996
	55	Mn	-0.010010	115.331	5833.279	ug/L	6031.746
	54	Fe	4.361541	31.516	172853.181	ug/L	165643.567
	57	Fe	2.797344	117.871	37370.151	ug/L	35571.910
	59	Co	0.010017	20.267	440.011	ug/L	243.670
	60	Ni	-0.027529	20.392	341.365	ug/L	440.198
	65	Cu	-0.013649	50.722	523.872	ug/L	571.835
	68	Zn	-4.417537	12.607	11797.319	ug/L	18512.231
	75	As	-0.230158	148.950	33789.408	ug/L	34380.454
	82	Se	0.173117	132.034	1224.773	ug/L	1144.563
	97	Mo	-0.179344	109.976	2916.173	ug/L	3515.070
>	72	Ge-1			4280552.325	ug/L	4237437.575
	107	Ag	0.016690	20.588	699.695	ug/L	424.677
	111	Cd	0.014431	22.556	88.163	ug/L	37.783
	121	Sb	0.065408	12.269	1031.394	ug/L	354.674
	135	Ba	0.012412	71.807	647.691	ug/L	618.689
>	115	In-1			4075096.649	ug/L	4113033.591
	205	Tl	0.071657	87.278	8783.166	ug/L	7046.934
	208	Pb	-0.029663	10.848	6687.337	ug/L	7813.017
>	169	Tm-1			2395173.048	ug/L	2415258.959
	50	Cr	0.038356	176.917	-1407.367	ug/L	-1403.175
	53	Cr	-2.921424	51.485	201300.242	ug/L	203849.240
	61	Ni	-7.826653	43.227	6127.672	ug/L	6553.201
	63	Cu	0.005570	53.768	233.009	ug/L	214.674
	67	Zn	-2.663992	23.059	3509.971	ug/L	3829.349
	66	Zn	-4.366061	9.570	5277.467	ug/L	8394.933
	76	Se	-109.870407	33.904	-669640.427	ug/L	-651058.457
	77	Se	-4.212935	24.696	27622.157	ug/L	28615.717
	78	Se	-1.473407	24.809	36474.633	ug/L	37600.653

	79 Br	-100.849034	34.790	102663.800	ug/L	106931.239
>	72 Ge			4280552.325	ug/L	4237437.575
	108 Cd	-0.003282	626.392	7.509	ug/L	8.447
	114 Cd	0.012905	40.676	232.109	ug/L	129.289
	109 Ag	0.012546	13.564	230.008	ug/L	161.671
>	115 In			4075096.649	ug/L	4113033.591
	208 207.977	-0.025164	12.344	3544.718	ug/L	4065.278
	207 Pb	-0.036236	4.413	1410.780	ug/L	1682.495
	206 Pb	-0.033996	17.728	1731.838	ug/L	2065.244
>	169 Tm			2395173.048	ug/L	2415258.959
	106 Pd	0.003977	338.194	18.333	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.039
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	101.017
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	99.078
	Tl	205	
	Pb	208	
>	Tm-1	169	99.168
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	101.017
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	99.078
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.168
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H3413
Sample Description: G6D260252-4
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 17:59:02
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H3413.051
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 37
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3748286.809	ug/L	3988319.491
>	6	Li-1			989046.678	ug/L	952537.641
	9	Be	-0.004254	92.201	6.667	ug/L	7.667
	27	Al	76.532243	4.174	487374.699	ug/L	57256.195
	44	Ca	382.732777	2.004	258462.688	ug/L	97200.916
	51	V	1.404354	15.813	-7991.653	ug/L	-34278.136
	52	Cr	1.757285	6.232	76814.756	ug/L	54511.996
	55	Mn	3.167235	1.504	83832.719	ug/L	6031.746
	54	Fe	140.833337	2.107	330823.520	ug/L	165643.567
	57	Fe	122.801927	4.117	95240.315	ug/L	35571.910
	59	Co	1.378297	4.006	25726.473	ug/L	243.670
	60	Ni	0.830389	0.543	3406.522	ug/L	440.198
	65	Cu	17.971397	1.989	68348.982	ug/L	571.835
	68	Zn	1.978831	21.779	20857.178	ug/L	18512.231
	75	As	0.297134	91.966	34393.145	ug/L	34380.454
	82	Se	0.434202	54.672	1272.983	ug/L	1144.563
	97	Mo	-0.263246	5.259	2499.024	ug/L	3515.070
>	72	Ge-1			4096198.509	ug/L	4237437.575
	107	Ag	-0.001862	29.118	394.009	ug/L	424.677
	111	Cd	0.026544	9.287	132.138	ug/L	37.783
	121	Sb	0.153272	5.022	1966.555	ug/L	354.674
	135	Ba	3.690895	1.058	11020.603	ug/L	618.689
>	115	In-1			4120726.502	ug/L	4113033.591
	205	Tl	-0.136580	12.206	3612.419	ug/L	7046.934
	208	Pb	0.981221	1.180	43397.455	ug/L	7813.017
>	169	Tm-1			2424981.042	ug/L	2415258.959
	50	Cr	5.543693	3.956	58.370	ug/L	-1403.175
	53	Cr	-67.507094	4.786	95240.352	ug/L	203849.240
	61	Ni	-5.601277	64.144	5998.089	ug/L	6553.201
	63	Cu	18.024090	0.724	50383.946	ug/L	214.674
	67	Zn	-6.020854	20.756	2925.705	ug/L	3829.349
	66	Zn	1.911080	8.989	9457.624	ug/L	8394.933
	76	Se	41.467579	76.460	-625053.650	ug/L	-651058.457
	77	Se	-51.658855	2.660	12593.344	ug/L	28615.717
	78	Se	-0.481132	64.446	35877.523	ug/L	37600.653

	79 Br	-971.026690	5.755	53877.398	ug/L	106931.239
>	72 Ge			4096198.509	ug/L	4237437.575
	108 Cd	0.126255	34.894	41.155	ug/L	8.447
	114 Cd	0.016701	16.256	265.417	ug/L	129.289
	109 Ag	-0.003436	74.817	142.670	ug/L	161.671
>	115 In			4120726.502	ug/L	4113033.591
	208 207.977	0.964108	1.710	22980.137	ug/L	4065.278
	207 Pb	1.066419	0.838	9370.348	ug/L	1682.495
	206 Pb	0.951717	0.450	11046.969	ug/L	2065.244
>	169 Tm			2424981.042	ug/L	2415258.959
	106 Pd	0.395691	11.415	149.668	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.833
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.667
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.187
	Tl	205	
	Pb	208	
>	Tm-1	169	100.403
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.667
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.187
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.403
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H3414
Sample Description: G6D260252-5
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:03:23
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H3414.052
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 38
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3902092.177	ug/L	3988319.491
>	6	Li-1			1008450.608	ug/L	952537.641
	9	Be	-0.019886	27.818	2.000	ug/L	7.667
	27	Al	66.991419	7.385	440819.688	ug/L	57256.195
	44	Ca	299.998703	3.182	226565.977	ug/L	97200.916
	51	V	1.036526	28.892	-14791.656	ug/L	-34278.136
	52	Cr	1.365720	12.047	72634.532	ug/L	54511.996
	55	Mn	2.728500	4.399	74234.250	ug/L	6031.746
	54	Fe	115.807494	2.132	305432.243	ug/L	165643.567
	57	Fe	97.409631	4.211	84013.423	ug/L	35571.910
	59	Co	0.643157	3.534	12327.682	ug/L	243.670
	60	Ni	0.737211	2.198	3122.558	ug/L	440.198
	65	Cu	6.869935	2.775	26910.103	ug/L	571.835
	68	Zn	-0.589610	133.872	17290.115	ug/L	18512.231
	75	As	-0.057002	358.671	33552.851	ug/L	34380.454
	82	Se	0.164380	33.287	1188.595	ug/L	1144.563
	97	Mo	-0.569346	1.188	1477.791	ug/L	3515.070
>	72	Ge-1			4163899.670	ug/L	4237437.575
	107	Ag	-0.005797	22.740	329.006	ug/L	424.677
	111	Cd	0.009992	80.847	73.638	ug/L	37.783
	121	Sb	0.074133	3.804	1139.408	ug/L	354.674
	135	Ba	1.439262	3.887	4695.927	ug/L	618.689
>	115	In-1			4138477.329	ug/L	4113033.591
	205	Tl	-0.188347	2.196	2309.305	ug/L	7046.934
	208	Pb	0.756592	4.027	35403.353	ug/L	7813.017
>	169	Tm-1			2435020.310	ug/L	2415258.959
	50	Cr	4.962208	5.365	-91.619	ug/L	-1403.175
	53	Cr	-64.088785	6.440	102045.986	ug/L	203849.240
	61	Ni	-3.640055	91.667	6215.844	ug/L	6553.201
	63	Cu	6.978514	0.710	19959.211	ug/L	214.674
	67	Zn	-8.606779	8.207	2635.445	ug/L	3829.349
	66	Zn	-0.237521	240.625	8078.109	ug/L	8394.933
	76	Se	-104.418873	57.124	-650822.190	ug/L	-651058.457
	77	Se	-49.451656	3.142	13456.579	ug/L	28615.717
	78	Se	-1.378986	19.488	35575.958	ug/L	37600.653

	79 Br	-991.883966	4.510	53685.839	ug/L	106931.239
>	72 Ge			4163899.670	ug/L	4237437.575
	108 Cd	0.202668	40.939	61.242	ug/L	8.447
	114 Cd	0.010558	20.522	216.329	ug/L	129.289
	109 Ag	-0.009384	45.482	109.669	ug/L	161.671
>	115 In			4138477.329	ug/L	4113033.591
	208 207.977	0.743179	4.795	18726.366	ug/L	4065.278
	207 Pb	0.833785	3.224	7726.411	ug/L	1682.495
	206 Pb	0.725509	3.128	8950.577	ug/L	2065.244
>	169 Tm			2435020.310	ug/L	2415258.959
	106 Pd	0.349957	13.538	134.334	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	105.870
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	98.265
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.619
	Tl	205	
	Pb	208	
>	Tm-1	169	100.818
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	98.265
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.619
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.818
	Pd	106	

Sample ID: H3416
Sample Description: G6D260252-6
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:07:44
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H3416.053
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 39
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3813090.765	ug/L	3988319.491
>	6	Li-1			990607.663	ug/L	952537.641
	9	Be	-0.012024	40.745	4.333	ug/L	7.667
	27	Al	62.193291	1.182	405084.239	ug/L	57256.195
	44	Ca	259.002545	2.953	204552.097	ug/L	97200.916
	51	V	1.163182	16.318	-12290.561	ug/L	-34278.136
	52	Cr	1.374212	6.261	71328.094	ug/L	54511.996
	55	Mn	2.651014	2.848	70855.400	ug/L	6031.746
	54	Fe	104.594729	3.801	285878.440	ug/L	165643.567
	57	Fe	88.923004	1.369	78194.124	ug/L	35571.910
	59	Co	0.456001	2.630	8636.594	ug/L	243.670
	60	Ni	0.868571	1.809	3530.911	ug/L	440.198
	65	Cu	13.475235	2.425	51199.815	ug/L	571.835
	68	Zn	-0.170676	172.409	17579.318	ug/L	18512.231
	75	As	0.144122	112.901	33672.799	ug/L	34380.454
	82	Se	0.151180	110.609	1159.846	ug/L	1144.563
	97	Mo	-0.663365	1.365	1128.739	ug/L	3515.070
>	72	Ge-1			4082406.595	ug/L	4237437.575
	107	Ag	-0.006427	27.595	314.339	ug/L	424.677
	111	Cd	0.020862	12.266	111.028	ug/L	37.783
	121	Sb	0.048194	10.299	855.042	ug/L	354.674
	135	Ba	1.450750	1.257	4669.913	ug/L	618.689
>	115	In-1			4087161.711	ug/L	4113033.591
	205	Tl	-0.209978	1.798	1763.178	ug/L	7046.934
	208	Pb	0.795204	1.650	36904.133	ug/L	7813.017
>	169	Tm-1			2441430.393	ug/L	2415258.959
	50	Cr	4.577831	8.063	-188.644	ug/L	-1403.175
	53	Cr	-62.772312	5.308	102094.231	ug/L	203849.240
	61	Ni	-6.450874	42.506	5929.295	ug/L	6553.201
	63	Cu	13.449613	2.082	37519.317	ug/L	214.674
	67	Zn	-7.566904	8.189	2718.183	ug/L	3829.349
	66	Zn	-0.181371	130.851	7960.800	ug/L	8394.933
	76	Se	-16.657394	587.148	-629045.985	ug/L	-651058.457
	77	Se	-47.744028	2.351	13691.501	ug/L	28615.717
	78	Se	-0.437281	205.734	35786.585	ug/L	37600.653

79	Br	-997.151290	2.941	52376.950	ug/L	106931.239
72	Ge			4082406.595	ug/L	4237437.575
108	Cd	0.114501	60.269	37.833	ug/L	8.447
114	Cd	0.014097	8.243	242.247	ug/L	129.289
109	Ag	-0.006995	31.510	121.669	ug/L	161.671
115	In			4087161.711	ug/L	4113033.591
208	207.977	0.782562	2.886	19551.488	ug/L	4065.278
207	Pb	0.876492	1.122	8057.042	ug/L	1682.495
206	Pb	0.759391	2.879	9295.603	ug/L	2065.244
169	Tm			2441430.393	ug/L	2415258.959
106	Pd	0.337033	6.195	130.001	ug/L	17.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	103.997
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	96.341
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	99.371
Tl	205	
Pb	208	
Tm-1	169	101.084
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	96.341
Cd	108	
Cd	114	
Ag	109	
In	115	99.371
207.977	208	
Pb	207	
Pb	206	
Tm	169	101.084
Pd	106	

Sample ID: H3417
Sample Description: G6D260252-7
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:12:05
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H3417.054
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 40
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3783994.150	ug/L	3988319.491
>	6	Li-1			990025.962	ug/L	952537.641
	9	Be	-0.017452	22.508	2.667	ug/L	7.667
	27	Al	5.913875	3.912	88257.643	ug/L	57256.195
	44	Ca	165.579212	2.050	164250.063	ug/L	97200.916
	51	V	1.358817	21.097	-8772.745	ug/L	-34278.136
	52	Cr	1.233759	9.307	69263.858	ug/L	54511.996
	55	Mn	0.462130	3.806	17121.076	ug/L	6031.746
	54	Fe	42.536020	8.335	210545.039	ug/L	165643.567
	57	Fe	33.588310	6.399	50761.718	ug/L	35571.910
	59	Co	0.687194	1.627	12875.468	ug/L	243.670
	60	Ni	0.722423	5.728	3002.853	ug/L	440.198
	65	Cu	1.319165	1.830	5499.513	ug/L	571.835
	68	Zn	-2.018921	30.493	14796.202	ug/L	18512.231
	75	As	0.230566	66.283	33948.186	ug/L	34380.454
	82	Se	0.198081	59.158	1175.977	ug/L	1144.563
	97	Mo	-0.724536	2.362	919.048	ug/L	3515.070
>	72	Ge-1			4074312.303	ug/L	4237437.575
	107	Ag	-0.012200	10.114	220.669	ug/L	424.677
	111	Cd	0.004258	129.787	53.288	ug/L	37.783
	121	Sb	0.021258	19.130	582.019	ug/L	354.674
	135	Ba	0.393110	5.364	1737.173	ug/L	618.689
>	115	In-1			4143557.183	ug/L	4113033.591
	205	Tl	-0.226300	1.450	1344.437	ug/L	7046.934
	208	Pb	0.203560	6.419	15293.885	ug/L	7813.017
>	169	Tm-1			2436532.470	ug/L	2415258.959
	50	Cr	4.231608	7.382	-275.296	ug/L	-1403.175
	53	Cr	-63.754542	6.132	100384.382	ug/L	203849.240
	61	Ni	-8.849584	29.905	5772.664	ug/L	6553.201
	63	Cu	1.317433	2.405	3854.042	ug/L	214.674
	67	Zn	-9.280659	19.657	2493.334	ug/L	3829.349
	66	Zn	-1.997696	36.728	6677.157	ug/L	8394.933
	76	Se	-56.914784	110.742	-631873.949	ug/L	-651058.457
	77	Se	-47.495002	4.275	13736.555	ug/L	28615.717
	78	Se	-0.219145	212.930	35938.712	ug/L	37600.653

79	Br	-1046.502040	3.795	49772.696	ug/L	106931.239
72	Ge			4074312.303	ug/L	4237437.575
108	Cd	0.176503	56.419	54.461	ug/L	8.447
114	Cd	-0.000667	310.348	124.785	ug/L	129.289
109	Ag	-0.017892	2.960	61.667	ug/L	161.671
115	In			4143557.183	ug/L	4113033.591
208	207.977	0.200747	7.055	8055.710	ug/L	4065.278
207	Pb	0.223545	5.561	3315.295	ug/L	1682.495
206	Pb	0.194142	6.150	3922.880	ug/L	2065.244
169	Tm			2436532.470	ug/L	2415258.959
106	Pd	0.321125	4.290	124.668	ug/L	17.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	103.936
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	96.150
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	100.742
Tl	205	
Pb	208	
Tm-1	169	100.881
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	96.150
Cd	108	
Cd	114	
Ag	109	
In	115	100.742
207.977	208	
Pb	207	
Pb	206	
Tm	169	100.881
Pd	106	

Sample ID: H342E
Sample Description: G6D260252-8
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:16:27
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H342E.055
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 41
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3871184.547	ug/L	3988319.491
>	6	Li-1			997236.572	ug/L	952537.641
	9	Be	-0.016469	19.179	3.000	ug/L	7.667
	27	Al	130.196640	5.446	810161.002	ug/L	57256.195
	44	Ca	419.564509	4.122	281078.157	ug/L	97200.916
	51	V	1.459193	26.020	-7224.985	ug/L	-34278.136
	52	Cr	1.275375	16.606	71929.611	ug/L	54511.996
	55	Mn	5.970723	1.607	156678.062	ug/L	6031.746
	54	Fe	140.786530	1.787	339028.266	ug/L	165643.567
	57	Fe	128.474497	2.198	100494.756	ug/L	35571.910
	59	Co	0.577686	2.036	11189.817	ug/L	243.670
	60	Ni	0.791397	3.851	3347.450	ug/L	440.198
	65	Cu	78.088294	3.378	302427.850	ug/L	571.835
	68	Zn	-0.501768	64.340	17570.298	ug/L	18512.231
	75	As	0.153542	30.244	34674.866	ug/L	34380.454
	82	Se	0.139636	34.724	1188.700	ug/L	1144.563
	97	Mo	-0.703498	2.482	1020.060	ug/L	3515.070
>	72	Ge-1			4198401.588	ug/L	4237437.575
	107	Ag	0.017472	8.341	731.697	ug/L	424.677
	111	Cd	0.024336	10.049	126.186	ug/L	37.783
	121	Sb	0.052424	15.105	920.382	ug/L	354.674
	135	Ba	2.797993	3.291	8636.928	ug/L	618.689
>	115	In-1			4185791.383	ug/L	4113033.591
	205	Tl	-0.221400	1.150	1466.123	ug/L	7046.934
	208	Pb	0.990769	2.713	43871.371	ug/L	7813.017
>	169	Tm-1			2432460.702	ug/L	2415258.959
	50	Cr	4.853215	13.401	-121.782	ug/L	-1403.175
	53	Cr	-63.477410	7.883	103827.749	ug/L	203849.240
	61	Ni	-2.200673	296.941	6353.797	ug/L	6553.201
	63	Cu	76.846411	4.097	219420.811	ug/L	214.674
	67	Zn	-8.382691	13.215	2686.489	ug/L	3829.349
	66	Zn	-0.669312	76.182	7836.163	ug/L	8394.933
	76	Se	-77.565179	102.439	-653372.378	ug/L	-651058.457
	77	Se	-47.888653	5.087	14031.548	ug/L	28615.717
	78	Se	-0.924839	50.165	36323.853	ug/L	37600.653

79	Br	-1034.328423	4.020	51910.000	ug/L	106931.239
72	Ge			4198401.588	ug/L	4237437.575
108	Cd	0.049971	67.298	21.827	ug/L	8.447
114	Cd	0.017115	21.884	272.781	ug/L	129.289
109	Ag	0.012037	6.655	233.342	ug/L	161.671
115	In			4185791.383	ug/L	4113033.591
208	207.977	0.973299	3.151	23228.797	ug/L	4065.278
207	Pb	1.085436	3.228	9534.526	ug/L	1682.495
206	Pb	0.954774	3.189	11108.048	ug/L	2065.244
169	Tm			2432460.702	ug/L	2415258.959
106	Pd	0.430488	12.819	161.335	ug/L	17.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	104.693
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	99.079
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	101.769
Tl	205	
Pb	208	
Tm-1	169	100.712
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	99.079
Cd	108	
Cd	114	
Ag	109	
In	115	101.769
207.977	208	
Pb	207	
Pb	206	
Tm	169	100.712
Pd	106	

Sample ID: H342L
Sample Description: G6D260252-9
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:20:49
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H342L.056
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 42
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3881239.341	ug/L	3988319.491
>	6	Li-1			980569.233	ug/L	952537.641
	9	Be	-0.012901	94.716	4.000	ug/L	7.667
	27	Al	162.171692	1.217	970890.268	ug/L	57256.195
	44	Ca	535.748320	1.220	324284.086	ug/L	97200.916
	51	V	1.524235	24.130	-5895.135	ug/L	-34278.136
	52	Cr	1.718166	8.660	76275.053	ug/L	54511.996
	55	Mn	6.439522	2.970	164403.273	ug/L	6031.746
	54	Fe	247.034496	1.459	459587.755	ug/L	165643.567
	57	Fe	240.040358	3.470	153327.074	ug/L	35571.910
	59	Co	0.450852	2.460	8573.532	ug/L	243.670
	60	Ni	0.928410	1.585	3759.393	ug/L	440.198
	65	Cu	127.833517	0.637	482869.780	ug/L	571.835
	68	Zn	2.122794	35.143	21064.012	ug/L	18512.231
	75	As	0.426483	27.017	34898.069	ug/L	34380.454
	82	Se	0.253762	19.624	1204.172	ug/L	1144.563
	97	Mo	-0.654387	2.276	1163.077	ug/L	3515.070
>	72	Ge-1			4097096.469	ug/L	4237437.575
	107	Ag	0.039834	5.392	1099.736	ug/L	424.677
	111	Cd	0.031323	2.678	149.331	ug/L	37.783
	121	Sb	0.083058	3.883	1230.086	ug/L	354.674
	135	Ba	3.332346	3.744	10024.742	ug/L	618.689
>	115	In-1			4128105.367	ug/L	4113033.591
	205	Tl	-0.224491	0.687	1389.110	ug/L	7046.934
	208	Pb	1.973912	0.809	79680.277	ug/L	7813.017
>	169	Tm-1			2434481.833	ug/L	2415258.959
	50	Cr	5.897898	9.006	146.973	ug/L	-1403.175
	53	Cr	-62.324712	7.192	102999.221	ug/L	203849.240
	61	Ni	-5.414102	29.733	6010.443	ug/L	6553.201
	63	Cu	125.365830	1.848	349193.873	ug/L	214.674
	67	Zn	-5.861634	37.946	2943.391	ug/L	3829.349
	66	Zn	2.047555	51.488	9546.259	ug/L	8394.933
	76	Se	-9.212802	692.436	-630540.020	ug/L	-651058.457
	77	Se	-46.536574	5.748	14083.271	ug/L	28615.717
	78	Se	0.256485	235.091	36598.307	ug/L	37600.653

	79 Br	-1003.778326	7.033	52175.509	ug/L	106931.239
>	72 Ge			4097096.469	ug/L	4237437.575
	108 Cd	0.031025	58.652	16.459	ug/L	8.447
	114 Cd	0.020047	3.061	293.194	ug/L	129.289
	109 Ag	0.036564	21.409	368.022	ug/L	161.671
>	115 In			4128105.367	ug/L	4113033.591
	208 207.977	1.929993	0.640	42080.947	ug/L	4065.278
	207 Pb	2.136178	0.149	17143.111	ug/L	1682.495
	206 Pb	1.941267	1.785	20456.219	ug/L	2065.244
>	169 Tm			2434481.833	ug/L	2415258.959
	106 Pd	0.506048	4.800	186.669	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	102.943
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	96.688
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.366
	Tl	205	
	Pb	208	
>	Tm-1	169	100.796
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	96.688
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.366
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	100.796
	Pd	106	

Sample ID: H342M
Sample Description: G6D260252-10
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:25:12
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H342M.057
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 43
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3906478.391	ug/L	3988319.491
>	6	Li-1			1002867.946	ug/L	952537.641
	9	Be	-0.004512	118.818	6.667	ug/L	7.667
	27	Al	227.348211	8.192	1345195.097	ug/L	57256.195
	44	Ca	542.583678	2.369	328701.113	ug/L	97200.916
	51	V	1.673564	10.182	-3178.184	ug/L	-34278.136
	52	Cr	1.733539	13.786	76843.618	ug/L	54511.996
	55	Mn	7.047024	0.400	180231.988	ug/L	6031.746
	54	Fe	497.791373	1.658	767051.406	ug/L	165643.567
	57	Fe	486.440894	1.290	276743.038	ug/L	35571.910
	59	Co	0.696324	2.546	13174.915	ug/L	243.670
	60	Ni	1.114588	0.709	4447.656	ug/L	440.198
	65	Cu	136.144776	1.105	516553.812	ug/L	571.835
	68	Zn	7.208442	17.029	28815.148	ug/L	18512.231
	75	As	0.512518	22.968	35393.533	ug/L	34380.454
	82	Se	0.336731	15.937	1241.263	ug/L	1144.563
	97	Mo	-0.594377	0.824	1374.775	ug/L	3515.070
>	72	Ge-1			4115479.364	ug/L	4237437.575
	107	Ag	0.048872	8.763	1286.761	ug/L	424.677
	111	Cd	0.028513	20.683	143.128	ug/L	37.783
	121	Sb	0.181176	14.960	2324.312	ug/L	354.674
	135	Ba	7.039323	1.204	21045.948	ug/L	618.689
>	115	In-1			4239473.725	ug/L	4113033.591
	205	Tl	-0.226374	0.411	1348.771	ug/L	7046.934
	208	Pb	1.178377	0.504	51024.026	ug/L	7813.017
>	169	Tm-1			2447995.381	ug/L	2415258.959
	50	Cr	7.468211	3.459	552.072	ug/L	-1403.175
	53	Cr	-61.376700	7.921	104964.631	ug/L	203849.240
	61	Ni	-3.945065	95.626	6126.003	ug/L	6553.201
	63	Cu	132.078074	1.691	369603.741	ug/L	214.674
	67	Zn	-1.183092	152.634	3565.371	ug/L	3829.349
	66	Zn	7.123158	12.222	13179.768	ug/L	8394.933
	76	Se	27.797824	444.788	-629425.162	ug/L	-651058.457
	77	Se	-46.503844	4.361	14162.693	ug/L	28615.717
	78	Se	0.122336	198.051	36638.080	ug/L	37600.653

	79 Br	-983.603555	6.000	53482.044	ug/L	106931.239
>	72 Ge			4115479.364	ug/L	4237437.575
	108 Cd	0.110971	45.685	38.261	ug/L	8.447
	114 Cd	0.024308	10.269	336.722	ug/L	129.289
	109 Ag	0.041933	13.215	409.360	ug/L	161.671
>	115 In			4239473.725	ug/L	4113033.591
	208 207.977	1.171581	0.578	27306.208	ug/L	4065.278
	207 Pb	1.275575	0.254	10980.552	ug/L	1682.495
	206 Pb	1.118255	1.872	12737.266	ug/L	2065.244
>	169 Tm			2447995.381	ug/L	2415258.959
	106 Pd	0.550787	14.494	201.669	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	105.284
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	97.122
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	103.074
	Tl	205	
	Pb	208	
>	Tm-1	169	101.355
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.122
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	103.074
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	101.355
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H342P
Sample Description: G6D260252-11
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:29:35
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H342P.058
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 44
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3893283.110	ug/L	3988319.491
>	6	Li-1			983141.334	ug/L	952537.641
	9	Be	-0.005256	298.487	6.333	ug/L	7.667
	27	Al	196.877918	6.342	1179274.025	ug/L	57256.195
	44	Ca	571.241778	1.979	343187.798	ug/L	97200.916
	51	V	1.477710	30.999	-6759.033	ug/L	-34278.136
	52	Cr	2.005178	14.708	81096.721	ug/L	54511.996
	55	Mn	6.660045	2.149	171702.703	ug/L	6031.746
	54	Fe	546.281180	1.703	831181.062	ug/L	165643.567
	57	Fe	542.956966	2.005	306765.350	ug/L	35571.910
	59	Co	0.664470	1.202	12660.487	ug/L	243.670
	60	Ni	0.927315	1.988	3795.326	ug/L	440.198
	65	Cu	68.352403	3.016	261211.897	ug/L	571.835
	68	Zn	1.065078	49.005	19701.177	ug/L	18512.231
	75	As	0.568603	22.176	35832.717	ug/L	34380.454
	82	Se	0.489211	26.794	1308.019	ug/L	1144.563
	97	Mo	-0.618958	0.534	1298.430	ug/L	3515.070
>	72	Ge-1			4140811.968	ug/L	4237437.575
	107	Ag	0.009483	36.267	585.686	ug/L	424.677
	111	Cd	0.117509	3.085	455.864	ug/L	37.783
	121	Sb	0.066637	2.459	1057.397	ug/L	354.674
	135	Ba	3.511051	0.494	10528.332	ug/L	618.689
>	115	In-1			4126446.082	ug/L	4113033.591
	205	Tl	-0.175450	1.148	2595.385	ug/L	7046.934
	208	Pb	7.383041	1.118	272028.990	ug/L	7813.017
>	169	Tm-1			2395711.524	ug/L	2415258.959
	50	Cr	6.872764	7.502	401.867	ug/L	-1403.175
	53	Cr	-63.143874	7.954	102937.157	ug/L	203849.240
	61	Ni	-2.748248	94.224	6236.887	ug/L	6553.201
	63	Cu	67.141970	1.775	189153.039	ug/L	214.674
	67	Zn	-6.680285	11.300	2871.987	ug/L	3829.349
	66	Zn	0.855010	1.145	8810.737	ug/L	8394.933
	76	Se	-123.701866	89.168	-649193.422	ug/L	-651058.457
	77	Se	-47.243288	4.490	14033.217	ug/L	28615.717
	78	Se	0.524270	44.082	37261.334	ug/L	37600.653

	79 Br	-1014.523997	4.870	52226.045	ug/L	106931.239
>	72 Ge			4140811.968	ug/L	4237437.575
	108 Cd	0.160164	7.383	50.040	ug/L	8.447
	114 Cd	0.112774	5.005	1048.035	ug/L	129.289
	109 Ag	0.003087	114.499	179.339	ug/L	161.671
>	115 In			4126446.082	ug/L	4113033.591
	208 207.977	7.217553	1.343	143802.712	ug/L	4065.278
	207 Pb	7.989748	1.377	58519.376	ug/L	1682.495
	206 Pb	7.263632	0.586	69706.902	ug/L	2065.244
>	169 Tm			2395711.524	ug/L	2415258.959
	106 Pd	0.628336	4.147	227.670	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	103.213
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	97.720
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	100.326
	Tl	205	
	Pb	208	
>	Tm-1	169	99.191
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	97.720
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	100.326
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	99.191
	Pd	106	

Sample ID: H342Q
Sample Description: G6D260252-12
Batch ID: 6124580
Sample Date/Time: Monday, May 15, 2006 18:33:58
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\H342Q.059
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 45
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3901966.558	ug/L	3988319.491
>	6	Li-1			988463.386	ug/L	952537.641
	9	Be	-0.013004	68.065	4.000	ug/L	7.667
	27	Al	205.705639	6.183	1225412.446	ug/L	57256.195
	44	Ca	481.869395	2.419	303375.333	ug/L	97200.916
	51	V	1.846295	21.307	-144.639	ug/L	-34278.136
	52	Cr	1.651263	4.609	75959.477	ug/L	54511.996
	55	Mn	7.781299	1.736	199027.026	ug/L	6031.746
	54	Fe	272.262064	2.221	493932.068	ug/L	165643.567
	57	Fe	249.516296	4.014	159305.557	ug/L	35571.910
	59	Co	0.576136	1.665	10973.544	ug/L	243.670
	60	Ni	1.072882	1.954	4309.512	ug/L	440.198
	65	Cu	84.014261	1.561	319930.740	ug/L	571.835
	68	Zn	1.993074	29.562	21049.679	ug/L	18512.231
	75	As	0.369755	23.197	34941.234	ug/L	34380.454
	82	Se	0.211129	45.580	1196.183	ug/L	1144.563
	97	Mo	-0.704072	1.776	1001.057	ug/L	3515.070
>	72	Ge-1			4128038.164	ug/L	4237437.575
	107	Ag	0.019050	9.650	758.366	ug/L	424.677
	111	Cd	0.026867	17.692	135.301	ug/L	37.783
	121	Sb	0.065015	10.137	1054.064	ug/L	354.674
	135	Ba	3.554596	0.968	10795.322	ug/L	618.689
>	115	In-1			4182277.519	ug/L	4113033.591
	205	Tl	-0.235620	0.547	1096.069	ug/L	7046.934
	208	Pb	1.189621	2.021	50698.549	ug/L	7813.017
>	169	Tm-1			2413274.710	ug/L	2415258.959
	50	Cr	0.382165	3009.803	-1254.164	ug/L	-1403.175
	53	Cr	-63.050604	6.149	102823.808	ug/L	203849.240
	61	Ni	-5.382809	48.819	6056.531	ug/L	6553.201
	63	Cu	82.272219	1.582	230986.663	ug/L	214.674
	67	Zn	-5.797539	12.540	2978.755	ug/L	3829.349
	66	Zn	2.005793	35.713	9603.782	ug/L	8394.933
	76	Se	12.536840	306.331	-632892.001	ug/L	-651058.457
	77	Se	-46.769314	2.568	14132.660	ug/L	28615.717
	78	Se	0.204117	198.224	36826.707	ug/L	37600.653

79 Br	-1006.792264	4.603	52479.510	ug/L	106931.239
72 Ge			4128038.164	ug/L	4237437.575
108 Cd	0.137273	56.554	44.620	ug/L	8.447
114 Cd	0.018672	22.964	285.486	ug/L	129.289
109 Ag	0.013591	17.254	242.009	ug/L	161.671
115 In			4182277.519	ug/L	4113033.591
208 207.977	1.159939	3.407	26685.304	ug/L	4065.278
207 Pb	1.303347	2.257	11022.940	ug/L	1682.495
206 Pb	1.164456	1.264	12990.304	ug/L	2065.244
169 Tm			2413274.710	ug/L	2415258.959
106 Pd	0.587573	7.929	214.003	ug/L	17.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Li-1	6	103.772
Be	9	
Al	27	
Ca	44	
V	51	
Cr	52	
Mn	55	
Fe	54	
Fe	57	
Co	59	
Ni	60	
Cu	65	
Zn	68	
As	75	
Se	82	
Mo	97	
Ge-1	72	97.418
Ag	107	
Cd	111	
Sb	121	
Ba	135	
In-1	115	101.684
Tl	205	
Pb	208	
Tm-1	169	99.918
Cr	50	
Cr	53	
Ni	61	
Cu	63	
Zn	67	
Zn	66	
Se	76	
Se	77	
Se	78	
Br	79	
Ge	72	97.418
Cd	108	
Cd	114	
Ag	109	
In	115	101.684
207.977	208	
Pb	207	
Pb	206	
Tm	169	99.918
Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCV 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 18:38:20
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCV 7.060
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3987806.545	ug/L	3988319.491
>	6	Li-1			973899.960	ug/L	952537.641
	9	Be	95.907645	3.860	28603.347	ug/L	7.667
	27	Al	5191.990679	2.741	30158394.958	ug/L	57256.195
	44	Ca	5137.013276	1.624	2364860.799	ug/L	97200.916
	51	V	101.563250	0.450	1834202.412	ug/L	-34278.136
	52	Cr	104.842822	7.760	1533134.883	ug/L	54511.996
	55	Mn	98.129998	0.795	2488685.444	ug/L	6031.746
	54	Fe	5099.442599	2.039	6514342.674	ug/L	165643.567
	57	Fe	5119.077466	2.009	2641339.589	ug/L	35571.910
	59	Co	100.669159	1.509	1912983.191	ug/L	243.670
	60	Ni	98.058080	3.171	362046.123	ug/L	440.198
	65	Cu	97.563333	2.882	378608.780	ug/L	571.835
	68	Zn	94.411515	3.029	163573.409	ug/L	18512.231
	75	As	97.697355	1.145	424685.235	ug/L	34380.454
	82	Se	97.612789	1.318	39566.634	ug/L	1144.563
	97	Mo	191.343840	1.391	674642.675	ug/L	3515.070
>	72	Ge-1			4208133.709	ug/L	4237437.575
	107	Ag	50.444768	2.365	814735.761	ug/L	424.677
	111	Cd	101.482840	1.149	344620.071	ug/L	37.783
	121	Sb	50.471499	1.127	507541.837	ug/L	354.674
	135	Ba	100.247465	1.754	270678.569	ug/L	618.689
>	115	In-1			3939985.216	ug/L	4113033.591
	205	Tl	49.995939	1.250	1227728.116	ug/L	7046.934
	208	Pb	100.290133	1.438	3507994.434	ug/L	7813.017
>	169	Tm-1			2336095.535	ug/L	2415258.959
	50	Cr	120.865441	9.861	30289.467	ug/L	-1403.175
	53	Cr	106.069628	6.871	366790.462	ug/L	203849.240
	61	Ni	91.960167	10.393	12184.420	ug/L	6553.201
	63	Cu	97.261600	1.981	278346.395	ug/L	214.674
	67	Zn	92.141284	2.677	15996.173	ug/L	3829.349
	66	Zn	91.336663	2.237	74250.818	ug/L	8394.933
	76	Se	-14.865384	405.935	-648108.312	ug/L	-651058.457
	77	Se	104.616002	4.143	59764.579	ug/L	28615.717
	78	Se	93.953962	1.411	131700.781	ug/L	37600.653

	79 Br	-32.237585	109.901	104502.112	ug/L	106931.239
>	72 Ge			4208133.709	ug/L	4237437.575
	108 Cd	102.078416	1.778	25290.094	ug/L	8.447
	114 Cd	101.104824	1.648	786381.668	ug/L	129.289
	109 Ag	50.806664	1.966	273385.150	ug/L	161.671
>	115 In			3939985.216	ug/L	4113033.591
	208 207.977	100.418500	1.891	1900006.097	ug/L	4065.278
	207 Pb	100.812288	1.109	701154.555	ug/L	1682.495
	206 Pb	99.624348	1.260	906833.782	ug/L	2065.244
>	169 Tm			2336095.535	ug/L	2415258.959
	106 Pd	97.014165	2.172	32544.094	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	102.243
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	99.308
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	95.793
	Tl	205	
	Pb	208	
>	Tm-1	169	96.722
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	99.308
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	95.793
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	96.722
	Pd	106	

Sample ID: CCB 7
Sample Description:
Batch ID:
Sample Date/Time: Monday, May 15, 2006 18:42:41
Method File: C:\elandata\Method\6131060.mth
Dataset File: c:\elandata\dataset\060515a1\CCB 7.061
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: C:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			4094818.652	ug/L	3988319.491
>	6	Li-1			991581.843	ug/L	952537.641
	9	Be	-0.008715	21.956	5.333	ug/L	7.667
	27	Al	0.484367	51.533	61177.202	ug/L	57256.195
	44	Ca	-24.305199	17.749	87952.171	ug/L	97200.916
	51	V	-0.441747	101.674	-43212.692	ug/L	-34278.136
	52	Cr	0.232495	19.237	58865.023	ug/L	54511.996
	55	Mn	-0.023187	44.632	5537.086	ug/L	6031.746
	54	Fe	2.245000	152.560	171495.909	ug/L	165643.567
	57	Fe	3.829492	20.564	38223.266	ug/L	35571.910
	59	Co	0.009492	10.141	433.011	ug/L	243.670
	60	Ni	-0.036126	19.552	311.819	ug/L	440.198
	65	Cu	-0.019343	10.205	505.341	ug/L	571.835
	68	Zn X	-5.406248	13.344	10340.174	ug/L	18512.231
	75	As	-0.373542	37.929	33475.951	ug/L	34380.454
	82	Se	0.109536	38.998	1209.748	ug/L	1144.563
	97	Mo	-0.285265	61.995	2560.059	ug/L	3515.070
>	72	Ge-1			4315149.099	ug/L	4237437.575
	107	Ag	0.013364	32.535	634.357	ug/L	424.677
	111	Cd	0.008782	31.122	67.277	ug/L	37.783
	121	Sb	0.037137	6.685	726.364	ug/L	354.674
	135	Ba	0.007214	97.522	623.689	ug/L	618.689
>	115	In-1			4014259.729	ug/L	4113033.591
	205	Tl	0.036808	156.406	7892.644	ug/L	7046.934
	208	Pb	-0.046368	6.460	6069.819	ug/L	7813.017
>	169	Tm-1			2387575.365	ug/L	2415258.959
	50	Cr	0.086419	249.778	-1406.173	ug/L	-1403.175
	53	Cr	-1.780234	18.208	204765.748	ug/L	203849.240
	61	Ni	-11.032760	22.869	5974.709	ug/L	6553.201
	63	Cu	-0.000913	244.847	216.007	ug/L	214.674
	67	Zn	-3.846930	38.172	3380.168	ug/L	3829.349
	66	Zn	-5.478282	13.833	4500.282	ug/L	8394.933
	76	Se	-174.083317	44.360	-682159.081	ug/L	-651058.457
	77	Se	-1.918167	76.869	28544.890	ug/L	28615.717
	78	Se	-1.415244	82.221	36816.163	ug/L	37600.653

	79 Br	-115.807813	13.890	102671.042	ug/L	106931.239
>	72 Ge			4315149.099	ug/L	4237437.575
	108 Cd	0.010441	195.117	10.879	ug/L	8.447
	114 Cd	0.010329	19.091	207.991	ug/L	129.289
	109 Ag	0.010188	57.284	213.674	ug/L	161.671
>	115 In			4014259.729	ug/L	4113033.591
	208 207.977	-0.043910	8.419	3171.575	ug/L	4065.278
	207 Pb	-0.054455	6.380	1277.093	ug/L	1682.495
	206 Pb	-0.045301	5.277	1621.150	ug/L	2065.244
>	169 Tm			2387575.365	ug/L	2415258.959
	106 Pd	0.008948	208.167	20.000	ug/L	17.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
>	Li-1	6	104.099
	Be	9	
	Al	27	
	Ca	44	
	V	51	
	Cr	52	
	Mn	55	
	Fe	54	
	Fe	57	
	Co	59	
	Ni	60	
	Cu	65	
	Zn	68	
	As	75	
	Se	82	
	Mo	97	
>	Ge-1	72	101.834
	Ag	107	
	Cd	111	
	Sb	121	
	Ba	135	
>	In-1	115	97.599
	Tl	205	
	Pb	208	
>	Tm-1	169	98.854
	Cr	50	
	Cr	53	
	Ni	61	
	Cu	63	
	Zn	67	
	Zn	66	
	Se	76	
	Se	77	
	Se	78	
	Br	79	
>	Ge	72	101.834
	Cd	108	
	Cd	114	
	Ag	109	
>	In	115	97.599
	207.977	208	
	Pb	207	
	Pb	206	
>	Tm	169	98.854
	Pd	106	

SEVERN TRENT STL

STL Sacramento
ICP-MS Data Review Checklist
Level I and Level II

Instrument ID (Circle one): M01 M02		Method 6020 SOP SAC-MT-0001	
File Number 060516A1	Batch Numbers 6124580	Date 5/16/06	Analyst BRJ

Lot Numbers G6D260252	YES	NO	NA
1. Copy of analysis protocol used included?	✓		
2. ICVs & CCVs within 10% of true value or recal and rerun?	✓		
3. ICB & CCBs < reporting limit or recal and rerun?	✓		
4. 10 samples or less analyzed between calibration checks?	✓		
5. All parameters within linear range?	✓		
6. LCS/LCSD within limits?	✓		
7. Prep blank value < reporting limit or all samples >20x blank?	✓		
8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <130% of the Calibration Blank intensities?	✓		
9. Appropriate dilution factors applied to data?	✓		
10. Matrix spike and spike dup within customer defined limits?			✓
11. Each batch checked for presence of internal standard in samples?			✓
12. Anomalies entered using Clouseau?			✓

COMMENTS: _____

REVIEWED BY: MZ DATE: 5/17/06	DATA ENTERED BY: BRJ DATE: 5/16/06

Dataset Report

Perkin Elmer ICPMS M01
SOP No. SAC-MT-0001
Method 6020
User Name: JonesB
Computer Name: SACP317A
Dataset File Path: C:\elandata\Dataset\060516A1\
Report Date/Time: Tuesday, May 16, 2006 15:09:31

The Dataset

Batch ID	Sample ID	Date and Time	Read Type	Description
	TUNE BJONES	12:33:39 Tue 16-May-06	Sample	
	AUTOLENS BJONES	12:36:30 Tue 16-May-06	Sample	Auto Lens Calib
	DAILY BJONES	12:38:43 Tue 16-May-06	Sample	
	DAILY BJONES	12:40:50 Tue 16-May-06	Sample	
	Rinse 3X	13:03:06 Tue 16-May-06	Sample	
	Blank	13:06:16 Tue 16-May-06	Blank	
	Standard 1	13:09:22 Tue 16-May-06	Standard #1	
	ICV	13:12:11 Tue 16-May-06	Sample -OUT Fe^{57}	
	ICB	13:15:06 Tue 16-May-06	Sample	
	ICSA	13:18:00 Tue 16-May-06	Sample	
	ICSAB	13:20:52 Tue 16-May-06	Sample	
	Rinse	13:23:46 Tue 16-May-06	Sample	
	CCV 1 >RECAL	13:26:41 Tue 16-May-06	Sample -OUT Cr	
	CCB 1	13:29:36 Tue 16-May-06	Sample	
	CCV 2	13:32:31 Tue 16-May-06	Sample	
	CCB 2	13:35:27 Tue 16-May-06	Sample	
6124580	H4Q29C	13:38:20 Tue 16-May-06	Sample	G6E040000-580 LCS
6124580	H4Q29L	13:41:10 Tue 16-May-06	Sample	G6E040000-580 LCSD
	Rinse	13:44:03 Tue 16-May-06	Sample	
6131060	H45L1B	13:46:59 Tue 16-May-06	Sample	G6E110000-60 BLK - DO NOT REPORT (REF. ONLY)
6124580	H4Q29B	13:49:55 Tue 16-May-06	Sample	G6E040000-580 BLK
6124580	H341E	13:52:48 Tue 16-May-06	Sample	G6D260252-1
6124580	H341EP5	13:55:39 Tue 16-May-06	Sample	G6D260252-1 5X
6124580	H341EZ	13:58:31 Tue 16-May-06	Sample	G6D260252-1 PS
6124580	H341Q	14:01:23 Tue 16-May-06	Sample	G6D260252-2
6124580	H341V	14:04:15 Tue 16-May-06	Sample	G6D260252-3
	CCV 3	14:07:09 Tue 16-May-06	Sample	
	CCB 3	14:10:04 Tue 16-May-06	Sample	
	CCV 4	14:12:59 Tue 16-May-06	Sample	
	CCB 4	14:15:54 Tue 16-May-06	Sample	
6124580	H3413	14:18:49 Tue 16-May-06	Sample	G6D260252-4
6124580	H3414	14:21:42 Tue 16-May-06	Sample	G6D260252-5
6124580	H3416	14:24:35 Tue 16-May-06	Sample	G6D260252-6
6124580	H3417	14:27:29 Tue 16-May-06	Sample	G6D260252-7
6124580	H342E	14:30:23 Tue 16-May-06	Sample	G6D260252-8
6124580	H342L	14:33:18 Tue 16-May-06	Sample	G6D260252-9
6124580	H342M	14:36:13 Tue 16-May-06	Sample	G6D260252-10
6124580	H342P	14:39:08 Tue 16-May-06	Sample	G6D260252-11
6124580	H342Q	14:42:04 Tue 16-May-06	Sample	G6D260252-12
	CCV 5	14:44:59 Tue 16-May-06	Sample	
	CCB 5	14:47:55 Tue 16-May-06	Sample	

REP. Cr.O

REPORT Zn ONLY

STL Sacramento

RUN SUMMARY

Method: 6020 (SOP: SAC-MT-001) Instrument: M01 Reported: 05/16/06 17:15:20

File ID: 060516A1 **Analyst: ionesb**

#	Sample ID	Lot No.	Batch		DF	Analyzed Date	Comment	Q
1	Rinse 3X				3.0	05/16/06 13:03		☐
2	Blank				1.0	05/16/06 13:06		☐
3	Standard1				1.0	05/16/06 13:09		☐
4	ICV				1.0	05/16/06 13:12		☐
5	ICB				1.0	05/16/06 13:15		☐
6	ICSA				1.0	05/16/06 13:18		☐
7	ICSAB				1.0	05/16/06 13:20		☐
8	Rinse				1.0	05/16/06 13:23		☐
9	CCV 1				1.0	05/16/06 13:26		☐
10	CCB 1				1.0	05/16/06 13:29		☐
13	CCV 2				1.0	05/16/06 13:32		☐
14	CCB 2				1.0	05/16/06 13:35		☐
15	H4Q29C	G6E040000	6124580	2A	1.0	05/16/06 13:38		☐
16	H4Q29L	G6E040000	6124580	2A	1.0	05/16/06 13:41		☐
17	Rinse				1.0	05/16/06 13:44		☐
18	H45L1B	G6E110000	6131060	2A	1.0	05/16/06 13:46		☐
19	H4Q29B	G6E040000	6124580	2A	1.0	05/16/06 13:49		☐
20	H341E	G6D260252-1	6124580	2A	1.0	05/16/06 13:52		☐
21	H341EP5	G6D260252	6124580		5.0	05/16/06 13:55		☐
22	H341EZ	G6D260252-1	6124580		1.0	05/16/06 13:58		☐
23	H341Q	G6D260252-2	6124580	2A	1.0	05/16/06 14:01		☐
24	H341V	G6D260252-3	6124580	2A	1.0	05/16/06 14:04		☐
25	CCV 3				1.0	05/16/06 14:07		☐
26	CCB 3				1.0	05/16/06 14:10		☐
27	CCV 4				1.0	05/16/06 14:12		☐
28	CCB 4				1.0	05/16/06 14:15		☐
29	H3413	G6D260252-4	6124580	2A	1.0	05/16/06 14:18		☐
30	H3414	G6D260252-5	6124580	2A	1.0	05/16/06 14:21		☐
31	H3416	G6D260252-6	6124580	2A	1.0	05/16/06 14:24		☐
32	H3417	G6D260252-7	6124580	2A	1.0	05/16/06 14:27		☐
33	H342E	G6D260252-8	6124580	2A	1.0	05/16/06 14:30		☐
34	H342L	G6D260252-9	6124580	2A	1.0	05/16/06 14:33		☐
35	H342M	G6D260252-10	6124580	2A	1.0	05/16/06 14:36		☐
36	H342P	G6D260252-11	6124580	2A	1.0	05/16/06 14:39		☐
37	H342Q	G6D260252-12	6124580	2A	1.0	05/16/06 14:42		☐
38	CCV 5				1.0	05/16/06 14:44		☐
39	CCB 5				1.0	05/16/06 14:47		☐

STL Sacramento

INTERNAL STANDARD SUMMARY

Method: 6020 (SOP: SAC-MT-001) M01 (M01) Reported: 05/16/06 17:15:20

File ID: **060516A1** **Analyst: ionesb**

#	Sample ID	Analyzed Date	Germanium	Q
1	Rinse 3X	05/16/06 13:03	102.7	☐
2	Blank	05/16/06 13:06	100.0	☑
3	Standard1	05/16/06 13:09	100.9	☑
4	ICV	05/16/06 13:12	100.8	☑
5	ICB	05/16/06 13:15	101.7	☑
6	ICSA	05/16/06 13:18	85.8	☑
7	ICSAB	05/16/06 13:20	85.8	☑
8	Rinse	05/16/06 13:23	104.0	☑
9	CCV 1	05/16/06 13:26	98.9	☑
10	CCB 1	05/16/06 13:29	100.6	☑
13	CCV 2	05/16/06 13:32	98.6	☑
14	CCB 2	05/16/06 13:35	97.3	☑
15	H4Q29C	05/16/06 13:38	97.2	☑
16	H4Q29L	05/16/06 13:41	95.8	☑
17	Rinse	05/16/06 13:44	97.7	☑
18	H45L1B	05/16/06 13:46	95.4	☑
19	H4Q29B	05/16/06 13:49	94.1	☑
20	H341E	05/16/06 13:52	99.0	☑
21	H341EP5	05/16/06 13:55	98.7	☐
22	H341EZ	05/16/06 13:58	95.3	☑
23	H341Q	05/16/06 14:01	96.0	☑
24	H341V	05/16/06 14:04	98.1	☑
25	CCV 3	05/16/06 14:07	98.8	☑
26	CCB 3	05/16/06 14:10	99.2	☑
27	CCV 4	05/16/06 14:12	98.0	☑
28	CCB 4	05/16/06 14:15	97.8	☑
29	H3413	05/16/06 14:18	94.6	☑
30	H3414	05/16/06 14:21	97.2	☑
31	H3416	05/16/06 14:24	97.2	☑
32	H3417	05/16/06 14:27	94.7	☑
33	H342E	05/16/06 14:30	98.8	☑
34	H342L	05/16/06 14:33	96.1	☑
35	H342M	05/16/06 14:36	97.3	☑
36	H342P	05/16/06 14:39	98.3	☑
37	H342Q	05/16/06 14:42	102.7	☑
38	CCV 5	05/16/06 14:44	101.2	☑
39	CCB 5	05/16/06 14:47	100.7	☑

STL SACRAMENTO - Elan 6000 ICPMS Perkin Elmer M01 Quantitative Method Report

File Name: 6131060R.mth
File Path: C:\elandata\Method\6131060R.mth

Timing Parameters

Sweeps/Reading:	50
Readings/Replicate:	1
Number of Replicates:	3
Tuning File:	default.tun
Optimization File:	default.dac
QC Enabled:	Yes
Settling Time:	Normal

Analyte	Mass	Scan Mode	MCA Channels	Dwell Time	Integration Time
Sc	44.956	Peak Hopping	1	14.0 ms	700 ms
Ca	43.956	Peak Hopping	1	14.0 ms	700 ms
Cr	51.941	Peak Hopping	1	14.0 ms	700 ms
Fe	53.940	Peak Hopping	1	14.0 ms	700 ms
Fe	56.935	Peak Hopping	1	14.0 ms	700 ms
Zn	67.925	Peak Hopping	1	14.0 ms	700 ms
Ge-1	71.922	Peak Hopping	1	14.0 ms	700 ms
Cr	49.946	Peak Hopping	1	5.0 ms	250 ms
Cr	52.941	Peak Hopping	1	5.0 ms	250 ms
Zn	66.927	Peak Hopping	1	5.0 ms	250 ms
Zn	65.926	Peak Hopping	1	5.0 ms	250 ms
Ge	71.922	Peak Hopping	1	14.0 ms	700 ms
Pd	105.903	Peak Hopping	1	14.0 ms	700 ms

Signal Processing

Detector Mode:	Dual
Measurement Units:	Counts
AutoLens:	On
Spectral Peak Processing:	Average
Signal Profile Processing:	Average
Blank Subtraction:	After Internal Standard
Baseline Readings:	0
Smoothing:	Yes, Factor 5

Equations

Analyte	Mass	Corrections
Fe	53.940	- 0.028226 * Cr 52
Fe	56.935	-0.074 * Ca 43
Cr	49.946	- 0.739726 * Ti 47 - 0.002506 * V 51

Calibration Information

Analyte	Mass	Curve Type	Sample Units	Std Units	Std 1	Std 2	Std 3	Std 4
Sc	44.956	Linear Thru Zero	ug/L	ug/L				
Ca	43.956	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Cr	51.941	Linear Thru Zero	ug/L	ug/L	100			
Fe	53.940	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Fe	56.935	Linear Thru Zero	ug/L	ug/L	5.1e+003			
Zn	67.925	Linear Thru Zero	ug/L	ug/L	100			

Ge-1	71.922	Linear Thru Zero	ug/L	ug/L	
Cr	49.946	Linear Thru Zero	ug/L	ug/L	100
Cr	52.941	Linear Thru Zero	ug/L	ug/L	100
Zn	66.927	Linear Thru Zero	ug/L	ug/L	100
Zn	65.926	Linear Thru Zero	ug/L	ug/L	100
Ge	71.922	Linear Thru Zero	ug/L	ug/L	
Pd	105.903	Linear Thru Zero	ug/L	ug/L	100

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M01 – Methods 6020, 200.8

AIR TOX STANDARDS - 4 % HNO3, 0.5 % HCl

Standards for run:

Tuning standard: 2532-60D

Internal standard: 2532-64B

Blank, CCBs: 2531-21C

Standard 1, CCVs: 2532-64D

ICV: 2532-63D

ICSA: 2532-63E

ICSAB: 2532-64A

File Number: **060516A1**

Instrument Tuning Report - Elan 6000

File Name: default.tun

Sample Information

Sample Date/Time: Tuesday, May 16, 2006 12:33:39

Sample ID: TUNE BJONES

Analyte	Exact Mass	Meas. Mass	Mass DAC	Meas. Pk. Width	Res. DAC	Custom Res.
Li	7.016	7.027	1556	0.740	2038	
Be	9.012	8.978	2044	0.734	2023	
Co	58.933	58.979	14292	0.747	1895	
In	114.904	114.879	27946	0.740	1863	
Ce	139.905	139.929	34033	0.731	1908	
Tl	204.975	204.979	49733	0.722	2130	
Pb	207.977	207.979	50452	0.717	2146	
U	238.050	238.026	57673	0.720	2310	

Report Date/Time: Tuesday, May 16, 2006 12:35:16

Elan 6000 Instrument Optomization Report

File Name c:\elandata\Optimize\default.dac
Path c:\elandata\Optimize

Sample Information

Sample Date/Time: Tuesday, May 16, 2006 12:33:39
Sample ID: TUNE BJONES

Parameter Settings

Nebulizer Gas Flow	0.9
Lens Voltage	5.5
ICP RF Power	1100.0
Analog Stage Voltage	-2000.0
Pulse Stage Voltage	1400.0
Discriminator Threshold	70.0
AC Rod Offset	-7.0
Service DAC 1	60.0
Quadrupole Rod Offset	0.0
Exit Lens	0.0
Makeup Gas Flow [MGAS]	0.9
DRC Mode MGAS	0.9

AutoLens Calibration

Date:	12:36:30 Tue 16-May-06
Sample Filename:	AUTOLENS BJONES.002
Dataset Pathname:	060516A1\
Lens Voltage Start:	3.00 V
Lens Voltage End:	7.00 V
Lens Voltage Step:	0.25 V
Slope:	0.0142
Intercept:	4.8876

Analyte	Mass	Optimum Voltage	Maximum Intensity	# Points
Be	9.012	5.0 V	4544 cps	17
Co	58.933	5.8 V	303247 cps	17
In	114.904	6.5 V	679801 cps	17

Dual Detector Calibration

Date:	12:49:57 Mon 15-May-06
Sample Filename:	DUAL BJONES.748
Dataset Pathname:	c:\elandata\Dataset\dual detector calibration\
Points Acquired:	37
Lens Voltage Start:	-3.00 V
Lens Voltage End:	15.00 V
Lens Voltage Step:	0.50 V

Analyte	Mass	Gain	N(max)
Li	6.013	8787	1.42e+009 cps
Li	7.015	8230	1.52e+009 cps

Be	9.011	7758	1.61e+009 cps
B	11.009	8132	1.54e+009 cps
Na	22.991	8093	1.55e+009 cps
Mg	23.986	7524	1.66e+009 cps
Mg	24.985	7359	1.70e+009 cps
Al	26.983	6978	1.79e+009 cps
P	30.992	6556	1.91e+009 cps
K	38.965	6363	1.97e+009 cps
Ca	42.958	3399	3.68e+009 cps
Ca	43.957	6406	1.95e+009 cps
Sc	44.956	6293	1.99e+009 cps
V	50.943	6219	2.01e+009 cps
Cr	51.942	5854	2.14e+009 cps
Fe	53.941	5735	2.18e+009 cps
Mn	54.940	5730	2.18e+009 cps
Fe	56.934	5639	2.22e+009 cps
Co	58.934	5383	2.33e+009 cps
Ni	59.934	5251	2.38e+009 cps
Cu	62.930	5087	2.46e+009 cps
Cu	64.926	5086	2.46e+009 cps
Zn	67.926	5088	2.46e+009 cps
Ge	71.922	5211	2.40e+009 cps
As	74.922	5268	2.38e+009 cps
Se	77.918	5331	2.35e+009 cps
Br	78.918	5328	2.35e+009 cps
Se	81.918	5208	2.40e+009 cps
Sr	87.906	5219	2.40e+009 cps
Mo	96.906	5331	2.35e+009 cps
Ag	106.906	4686	2.67e+009 cps
Ag	108.906	4661	2.69e+009 cps
Cd	110.906	4739	2.64e+009 cps
Cd	113.906	4688	2.67e+009 cps
In	114.903	4713	2.66e+009 cps
Sn	117.903	4787	2.62e+009 cps
Sb	120.902	4779	2.62e+009 cps
Ba	134.904	4701	2.66e+009 cps
Tm	168.934	4464	2.80e+009 cps
Tl	204.975	4140	3.02e+009 cps
Pb	207.979	4208	2.97e+009 cps
Bi	208.982	4166	3.00e+009 cps
U	238.051	4181	2.99e+009 cps

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Tuesday, May 16, 2006 12:38:43
Sample Description:
Sample File: C:\elandata\Sample\6131060X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\060516A1\DAILY BJONES.003
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	68620.127	515.500	0.751
	Rh	103	498689.168	3495.476	0.701
	Pb	208	247729.443	2290.735	0.925
⌈>	Ba	138	434105.142	2489.094	0.573
⌊	Ba++	69	0.030	0.001	1.685
⌈>	Ce	140	521490.421	1085.041	0.208
⌊	CeO	156	0.036	0.001	3.082
	Bkgd	220	5.429	3.097	57.051
	Li	7	18443.313	293.984	1.594
	Be	9	4929.258	98.550	1.999
	Co	59	292482.162	3902.840	1.334
	In	115	652613.135	1555.571	0.238
	Tl	205	344387.425	3391.659	0.985

Daily Performance Report - Elan 6000

Sample ID: DAILY BJONES
Sample Date/Time: Tuesday, May 16, 2006 12:40:50
Sample Description:
Sample File: C:\elandata\Sample\6131060X.sam
Method File: C:\elandata\Method\000-DAILY_EPA.mth
Dataset File: C:\elandata\Dataset\060516A1\DAILY BJONES.004
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 5
Dual Detector Mode: Dual

Summary

	Analyte	Mass	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24	57858.472	782.171	1.352
	Rh	103	459169.845	7914.276	1.724
	Pb	208	218629.538	3776.162	1.727
⌈>	Ba	138	422207.044	3298.502	0.781
⌊	Ba++	69	0.028	0.001	1.865
⌈>	Ce	140	505971.455	4447.776	0.879
⌊	CeO	156	0.030	0.001	2.906
	Bkgd	220	5.714	3.194	55.902
	Li	7	17670.769	249.455	1.412
	Be	9	4711.460	105.626	2.242
	Co	59	251749.607	7542.202	2.996
	In	115	607001.119	10900.294	1.796
	Tl	205	307178.453	2596.054	0.845

Sample ID: Rinse 3X
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:03:06
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\Rinse 3X.005
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3684728.579	ug/L	0.000
⌈	44	Ca			73943.801	ug/L	0.000
|	52	Cr			51380.481	ug/L	0.000
|	54	Fe			169276.281	ug/L	0.000
|	57	Fe			31998.781	ug/L	0.000
|	68	Zn			11662.108	ug/L	0.000
⌊>	72	Ge-1			3435483.605	ug/L	0.000
⌈	50	Cr			-445.218	ug/L	0.000
|	53	Cr			71707.274	ug/L	0.000
|	67	Zn			3233.005	ug/L	0.000
|	66	Zn			5565.629	ug/L	0.000
⌊>	72	Ge			3435483.605	ug/L	0.000
	106	Pd			14.000	ug/L	0.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	

Sample ID: Blank
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:06:16
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\Blank.006
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3560417.621	ug/L	
⌈	44	Ca			72799.255	ug/L	
|	52	Cr			49430.592	ug/L	
|	54	Fe			165296.483	ug/L	
|	57	Fe			30598.945	ug/L	
|	68	Zn			11891.420	ug/L	
⌊>	72	Ge-1			3345864.108	ug/L	
⌈	50	Cr			-394.197	ug/L	
|	53	Cr			68207.076	ug/L	
|	67	Zn			3222.995	ug/L	
|	66	Zn			5767.659	ug/L	
⌊>	72	Ge			3345864.108	ug/L	
	106	Pd			15.667	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	

Sample ID: Standard 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:09:22
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\Standard 1.007
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3574884.800	ug/L	3560417.621
⌈	44	Ca	5100.000000	1.683	2352500.631	ug/L	72799.255
|	52	Cr	100.000000	0.963	1560979.165	ug/L	49430.592
|	54	Fe	5100.000000	2.183	6380969.406	ug/L	165296.483
|	57	Fe	5100.000000	1.289	2663365.234	ug/L	30598.945
|	68	Zn	100.000000	0.964	159018.966	ug/L	11891.420
⌊>	72	Ge-1			3376635.239	ug/L	3345864.108
⌈	50	Cr	100.000000	6.180	32994.572	ug/L	-394.197
|	53	Cr	100.000000	1.947	130243.915	ug/L	68207.076
|	67	Zn	100.000000	0.986	15932.856	ug/L	3222.995
|	66	Zn	100.000000	1.849	77131.655	ug/L	5767.659
⌊>	72	Ge			3376635.239	ug/L	3345864.108
	106	Pd	100.000000	0.602	30428.819	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: ICV
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:12:11
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\ICV .008
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 3
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3535701.986	ug/L	3560417.621
⌈	44	Ca	832.054674	2.488	444874.847	ug/L	72799.255
|	52	Cr	76.780190	2.422	1209060.948	ug/L	49430.592
|	54	Fe	778.281690	3.625	1114114.118	ug/L	165296.483
|	57	Fe ✕	792.893008	2.089	439769.507	ug/L	30598.945
|	68	Zn	81.472955	1.653	131674.041	ug/L	11891.420
⌊>	72	Ge-1			3374137.377	ug/L	3345864.108
⌈	50	Cr	71.280764	6.115	23389.024	ug/L	-394.197
|	53	Cr	76.891585	3.892	115967.046	ug/L	68207.076
|	67	Zn	81.524580	2.607	13576.762	ug/L	3222.995
|	66	Zn	83.725195	3.422	65470.625	ug/L	5767.659
⌊>	72	Ge			3374137.377	ug/L	3345864.108
	106	Pd	81.950814	0.780	24939.492	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	100.845
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.845
	Pd	106	

Sample ID: ICB
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:15:06
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\ICB.009
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3727768.958	ug/L	3560417.621
⌈	44	Ca	5.248323	52.477	76392.053	ug/L	72799.255
|	52	Cr	0.479688	6.914	57571.112	ug/L	49430.592
|	54	Fe	2.409957	154.831	171038.058	ug/L	165296.483
|	57	Fe	1.845255	110.053	32081.435	ug/L	30598.945
|	68	Zn	1.233781	87.588	13920.160	ug/L	11891.420
⌊>	72	Ge-1			3402562.415	ug/L	3345864.108
⌈	50	Cr	-0.050056	160.220	-417.841	ug/L	-394.197
|	53	Cr	0.394096	884.730	69599.183	ug/L	68207.076
|	67	Zn	1.225634	18.448	3434.219	ug/L	3222.995
|	66	Zn	1.381225	90.476	6857.935	ug/L	5767.659
⌊>	72	Ge			3402562.415	ug/L	3345864.108
	106	Pd	-0.007672	123.718	13.333	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	101.695
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.695
	Pd	106	

Sample ID: ICSA
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:18:00
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\ICSA.010
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 2
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2818576.932	ug/L	3560417.621
⌈	44	Ca	90208.089140	1.215	34317712.025	ug/L	72799.255
|	52	Cr	1.588765	2.642	62796.218	ug/L	49430.592
|	54	Fe	93426.786971	1.680	96892745.905	ug/L	165296.483
|	57	Fe	93703.806340	2.974	41129826.933	ug/L	30598.945
|	68	Zn	2.123343	5.946	12851.766	ug/L	11891.420
⌊>	72	Ge-1			2869461.736	ug/L	3345864.108
⌈	50	Cr	189.137460	20.899	53392.987	ug/L	-394.197
|	53	Cr	-11.056352	34.563	52722.399	ug/L	68207.076
|	67	Zn	22.807384	6.726	5221.027	ug/L	3222.995
|	66	Zn	7.666649	4.385	9592.369	ug/L	5767.659
⌊>	72	Ge			2869461.736	ug/L	3345864.108
	106	Pd	0.628026	5.085	206.669	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	85.761
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	85.761
	Pd	106	

Sample ID: ICSAB
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:20:52
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\ICSAB.011
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 1
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2732223.998	ug/L	3560417.621
	44	Ca	88410.808791	0.896	33654717.320	ug/L	72799.255
	52	Cr	89.273730	1.833	1189411.079	ug/L	49430.592
	54	Fe	94861.790527	0.231	98442676.944	ug/L	165296.483
	57	Fe	93972.154754	1.089	41267984.918	ug/L	30598.945
	68	Zn	96.101764	2.153	130357.990	ug/L	11891.420
>	72	Ge-1			2871238.696	ug/L	3345864.108
	50	Cr	276.035672	15.983	78197.375	ug/L	-394.197
	53	Cr	81.801729	4.835	101230.538	ug/L	68207.076
	67	Zn	116.671855	1.122	15343.577	ug/L	3222.995
	66	Zn	100.923817	1.245	66149.505	ug/L	5767.659
>	72	Ge			2871238.696	ug/L	3345864.108
	106	Pd	84.616381	1.764	25750.175	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
	Ca	44	
	Cr	52	
	Fe	54	
	Fe	57	
	Zn	68	
>	Ge-1	72	85.815
	Cr	50	
	Cr	53	
	Zn	67	
	Zn	66	
>	Ge	72	85.815
	Pd	106	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:23:46
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\Rinse.012
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3549017.652	ug/L	3560417.621
⌈	44	Ca	-7.132523	29.665	72448.386	ug/L	72799.255
|	52	Cr	0.251569	34.569	55344.894	ug/L	49430.592
|	54	Fe	-1.473744	345.836	170144.044	ug/L	165296.483
|	57	Fe	4.252428	41.164	34093.599	ug/L	30598.945
|	68	Zn	-1.872397	36.140	9528.888	ug/L	11891.420
⌊>	72	Ge-1			3480906.752	ug/L	3345864.108
⌈	50	Cr	0.001783	5452.242	-409.400	ug/L	-394.197
|	53	Cr	-3.153040	41.789	68968.302	ug/L	68207.076
|	67	Zn	-1.612316	40.845	3141.912	ug/L	3222.995
|	66	Zn	-2.163714	36.834	4406.470	ug/L	5767.659
⌊>	72	Ge			3480906.752	ug/L	3345864.108
	106	Pd	-0.015344	98.198	11.000	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	104.036
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	104.036
	Pd	106	

Sample ID: CCV 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:26:41
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 1.013
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3155577.396	ug/L	3560417.621
⌈	44	Ca	4432.021597	3.484	2013910.198	ug/L	72799.255
|	52	Cr ✗	84.417672	0.748	1299632.267	ug/L	49430.592
|	54	Fe	4659.162754	1.948	5730474.278	ug/L	165296.483
|	57	Fe	4802.559116	1.434	2460580.047	ug/L	30598.945
|	68	Zn	92.795757	1.209	145536.218	ug/L	11891.420
⌊>	72	Ge-1			3310527.264	ug/L	3345864.108
⌈	50	Cr	93.480872	4.754	30232.995	ug/L	-394.197
|	53	Cr	74.792750	9.862	112520.254	ug/L	68207.076
|	67	Zn	90.907113	4.670	14491.561	ug/L	3222.995
|	66	Zn	93.218751	0.972	70886.648	ug/L	5767.659
⌊>	72	Ge			3310527.264	ug/L	3345864.108
	106	Pd	93.918610	2.033	28579.276	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.944
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.944
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: CCB 1
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:29:36
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 1.014
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3196963.785	ug/L	3560417.621
⌈	44	Ca	-7.490125	34.672	69855.413	ug/L	72799.255
|	52	Cr	0.015210	690.637	49919.704	ug/L	49430.592
|	54	Fe	-10.777796	53.327	153028.382	ug/L	165296.483
|	57	Fe	-1.471917	194.835	29993.006	ug/L	30598.945
|	68	Zn	0.630992	181.810	12909.670	ug/L	11891.420
⌊>	72	Ge-1			3364715.062	ug/L	3345864.108
⌈	50	Cr	0.130375	116.368	-352.455	ug/L	-394.197
|	53	Cr	-9.686000	44.787	62635.557	ug/L	68207.076
|	67	Zn	0.143698	275.074	3259.367	ug/L	3222.995
|	66	Zn	0.362787	297.873	6069.980	ug/L	5767.659
⌊>	72	Ge			3364715.062	ug/L	3345864.108
	106	Pd	-0.005480	158.745	14.000	ug/L	15.667

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	100.563
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.563
	Pd	106	

Sample ID: BLK RECAL
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:29:36
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 1.014
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3196963.785	ug/L	
⌈	44	Ca			69855.413	ug/L	
|	52	Cr			49919.704	ug/L	
|	54	Fe			153028.382	ug/L	
|	57	Fe			29993.006	ug/L	
|	68	Zn			12909.670	ug/L	
⌊>	72	Ge-1			3364715.062	ug/L	
⌈	50	Cr			-352.455	ug/L	
|	53	Cr			62635.557	ug/L	
|	67	Zn			3259.367	ug/L	
|	66	Zn			6069.980	ug/L	
⌊>	72	Ge			3364715.062	ug/L	
	106	Pd			14.000	ug/L	

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	

Sample ID: STD1 RECAL
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:26:41
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 1.013
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3155577.396	ug/L	3196963.785
⌈	44	Ca	5100.000000	3.478	2013910.198	ug/L	69855.413
|	52	Cr	100.000000	0.748	1299632.267	ug/L	49919.704
|	54	Fe	5100.000000	1.944	5730474.278	ug/L	153028.382
|	57	Fe	5100.000000	1.434	2460580.047	ug/L	29993.006
|	68	Zn	100.000000	1.217	145536.218	ug/L	12909.670
⌊>	72	Ge-1			3310527.264	ug/L	3364715.062
⌈	50	Cr	100.000000	4.761	30232.995	ug/L	-352.455
|	53	Cr	100.000000	8.726	112520.254	ug/L	62635.557
|	67	Zn	100.000000	4.677	14491.561	ug/L	3259.367
|	66	Zn	100.000000	0.976	70886.648	ug/L	6069.980
⌊>	72	Ge			3310527.264	ug/L	3364715.062
	106	Pd	100.000000	2.033	28579.276	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	
	Pd	106	

Sample ID: CCV 2
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:32:31
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 2.015
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3015443.616	ug/L	3196963.785
⌈	44	Ca	4921.103418	0.978	1950669.136	ug/L	69855.413
|	52	Cr	96.111790	2.556	1254186.988	ug/L	49919.704
|	54	Fe	5081.822360	2.630	5725786.488	ug/L	153028.382
|	57	Fe	4834.198935	1.915	2340205.725	ug/L	29993.006
|	68	Zn	99.501223	1.641	145236.498	ug/L	12909.670
⌊>	72	Ge-1			3319127.498	ug/L	3364715.062
⌈	50	Cr	94.291805	6.715	28549.751	ug/L	-352.455
|	53	Cr	93.674704	1.516	109587.198	ug/L	62635.557
|	67	Zn	99.602972	3.049	14481.485	ug/L	3259.367
|	66	Zn	97.326992	2.135	69334.633	ug/L	6069.980
⌊>	72	Ge			3319127.498	ug/L	3364715.062
	106	Pd	97.317927	0.473	27813.135	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.645
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.645
	Pd	106	

Sample ID: CCB 2
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:35:27
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 2.016
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc			3046220.392	ug/L	3196963.785
44	Ca	1.238264	528.098	68389.241	ug/L	69855.413
52	Cr	-0.035856	221.503	48113.616	ug/L	49919.704
54	Fe	2.282740	291.530	151220.985	ug/L	153028.382
57	Fe	-0.888932	228.727	28762.983	ug/L	29993.006
68	Zn	-1.718674	35.536	10285.716	ug/L	12909.670
72	Ge-1			3274621.287	ug/L	3364715.062
50	Cr	-0.039483	120.403	-355.078	ug/L	-352.455
53	Cr	1.504537	211.701	61673.709	ug/L	62635.557
67	Zn	-1.042163	65.743	3053.825	ug/L	3259.367
66	Zn	-1.887300	42.902	4686.530	ug/L	6069.980
72	Ge			3274621.287	ug/L	3364715.062
106	Pd	-0.004668	43.301	12.667	ug/L	14.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Cr	52	
Fe	54	
Fe	57	
Zn	68	
Ge-1	72	97.322
Cr	50	
Cr	53	
Zn	67	
Zn	66	
Ge	72	97.322
Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H4Q29C
Sample Description: G6E040000-580 LCS
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:38:20
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H4Q29C.017
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 101
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3058976.005	ug/L	3196963.785
⌈	44	Ca	978.365688	1.059	436286.003	ug/L	69855.413
|	52	Cr	213.061007	0.435	2679380.698	ug/L	49919.704
|	54	Fe	1032.603636	1.124	1264202.742	ug/L	153028.382
|	57	Fe	980.910346	2.630	490845.953	ug/L	29993.006
|	68	Zn	197.162235	0.789	271127.115	ug/L	12909.670
⌊>	72	Ge-1			3269043.783	ug/L	3364715.062
⌈	50	Cr	170.328420	5.709	51075.753	ug/L	-352.455
|	53	Cr	153.766955	4.625	138169.559	ug/L	62635.557
|	67	Zn	191.118905	3.444	24454.001	ug/L	3259.367
|	66	Zn	191.602973	1.497	128699.394	ug/L	6069.980
⌊>	72	Ge			3269043.783	ug/L	3364715.062
	106	Pd	193.578633	0.887	55310.271	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.157
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.157
	Pd	106	

Sample ID: H4Q29L
Sample Description: G6E040000-580 LCSD
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:41:10
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H4Q29L.018
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 102
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3012015.251	ug/L	3196963.785
⌈	44	Ca	993.081700	0.610	435834.835	ug/L	69855.413
|	52	Cr	215.051604	1.820	2667057.829	ug/L	49919.704
|	54	Fe	985.788120	1.016	1197040.536	ug/L	153028.382
|	57	Fe	946.130848	2.304	467954.308	ug/L	29993.006
|	68	Zn	202.437706	0.782	274281.948	ug/L	12909.670
⌊>	72	Ge-1			3224455.364	ug/L	3364715.062
⌈	50	Cr	178.716697	4.412	52887.746	ug/L	-352.455
|	53	Cr	154.908039	4.590	136785.203	ug/L	62635.557
|	67	Zn	193.106228	0.791	24343.788	ug/L	3259.367
|	66	Zn	193.730350	2.081	128294.159	ug/L	6069.980
⌊>	72	Ge			3224455.364	ug/L	3364715.062
	106	Pd	189.137697	0.078	54041.706	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	95.831
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	95.831
	Pd	106	

Sample ID: Rinse
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 13:44:03
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\Rinse.019
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3058044.327	ug/L	3196963.785
⌈	44	Ca	-9.863670	26.831	64494.156	ug/L	69855.413
|	52	Cr	0.015732	676.349	48961.031	ug/L	49919.704
|	54	Fe	-0.717156	148.479	148697.255	ug/L	153028.382
|	57	Fe	-3.857984	16.776	27471.269	ug/L	29993.006
|	68	Zn	0.750855	116.333	13599.276	ug/L	12909.670
⌊>	72	Ge-1			3286617.349	ug/L	3364715.062
⌈	50	Cr	-0.017040	301.860	-349.502	ug/L	-352.455
|	53	Cr	-4.840734	42.660	58731.485	ug/L	62635.557
|	67	Zn	0.118791	917.886	3196.969	ug/L	3259.367
|	66	Zn	0.970982	99.906	6553.905	ug/L	6069.980
⌊>	72	Ge			3286617.349	ug/L	3364715.062
	106	Pd	0.005835	301.993	15.667	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.679
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.679
	Pd	106	

Sample ID: H45L1B
Sample Description: G6E110000-60 BLK
Batch ID: 6131060
Sample Date/Time: Tuesday, May 16, 2006 13:46:59
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H45L1B.020
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 20
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3011900.100	ug/L	3196963.785
⌈	44	Ca	34.287042	6.914	79284.593	ug/L	69855.413
|	52	Cr	-1.217847	5.595	32840.196	ug/L	49919.704
|	54	Fe	38.095586	6.890	186334.564	ug/L	153028.382
|	57	Fe	6.963484	13.561	31819.146	ug/L	29993.006
|	68	Zn	-0.059031	122.541	12234.548	ug/L	12909.670
⌊>	72	Ge-1			3208582.873	ug/L	3364715.062
⌈	50	Cr	0.890868	6.171	-72.157	ug/L	-352.455
|	53	Cr	-66.097103	2.367	27124.941	ug/L	62635.557
|	67	Zn	-10.033381	2.830	2010.980	ug/L	3259.367
|	66	Zn	0.074720	314.284	5835.781	ug/L	6069.980
⌊>	72	Ge			3208582.873	ug/L	3364715.062
	106	Pd	-0.012836	177.447	10.333	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	95.360
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	95.360
	Pd	106	

Sample ID: H4Q29B
Sample Description: G6E040000-580 BLK
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:49:55
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H4Q29B.021
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 21
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2973643.730	ug/L	3196963.785
⌈	44	Ca	-14.875602	24.336	60264.488	ug/L	69855.413
|	52	Cr	-1.055650	6.584	34323.861	ug/L	49919.704
|	54	Fe	24.922858	12.625	169995.546	ug/L	153028.382
|	57	Fe	-0.337819	580.011	28045.737	ug/L	29993.006
|	68	Zn	0.968505	138.138	13392.718	ug/L	12909.670
⌊>	72	Ge-1			3164797.565	ug/L	3364715.062
⌈	50	Cr	0.856864	13.490	-80.857	ug/L	-352.455
|	53	Cr	-64.067822	3.761	27728.187	ug/L	62635.557
|	67	Zn	-7.936140	2.543	2209.781	ug/L	3259.367
|	66	Zn	1.102806	109.400	6402.632	ug/L	6069.980
⌊>	72	Ge			3164797.565	ug/L	3364715.062
	106	Pd	-0.014003	66.144	10.000	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	94.058
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	94.058
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H341E
Sample Description: G6D260252-1
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:52:48
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H341E.022
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 27
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3016956.284	ug/L	3196963.785
⌈	44	Ca	438.717781	2.079	237418.729	ug/L	69855.413
|	52	Cr	0.735867	13.258	58664.431	ug/L	49919.704
|	54	Fe	117.569257	31.610	280928.467	ug/L	153028.382
|	57	Fe	55.731641	7.043	56403.926	ug/L	29993.006
|	68	Zn	4.898104	15.748	19316.330	ug/L	12909.670
⌊>	72	Ge-1			3329909.409	ug/L	3364715.062
⌈	50	Cr	2.177593	12.882	320.578	ug/L	-352.455
|	53	Cr	-62.237751	3.597	30131.760	ug/L	62635.557
|	67	Zn	-5.018680	7.169	2656.129	ug/L	3259.367
|	66	Zn	5.060992	16.049	9310.207	ug/L	6069.980
⌊>	72	Ge			3329909.409	ug/L	3364715.062
	106	Pd	0.423595	2.479	135.001	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.966
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.966
	Pd	106	

Sample ID: H341EP5
Sample Description: G6D260252-1 5X
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:55:39
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H341EP5.023
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 28
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			3059562.230	ug/L	3196963.785
⌈	44	Ca	85.762368	3.761	101733.003	ug/L	69855.413
|	52	Cr	0.941426	2.663	61066.687	ug/L	49919.704
|	54	Fe	151.523018	1.115	317281.213	ug/L	153028.382
|	57	Fe	149.128191	0.271	100895.618	ug/L	29993.006
|	68	Zn	1.954340	9.569	15341.772	ug/L	12909.670
⌊>	72	Ge-1			3320297.383	ug/L	3364715.062
⌈	50	Cr	0.893569	13.229	-73.786	ug/L	-352.455
|	53	Cr	-12.427668	26.465	55464.858	ug/L	62635.557
|	67	Zn	-0.440699	171.629	3166.271	ug/L	3259.367
|	66	Zn	1.999547	1.960	7291.831	ug/L	6069.980
⌊>	72	Ge			3320297.383	ug/L	3364715.062
	106	Pd	0.056012	49.608	30.000	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.680
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.680
	Pd	106	

Sample ID: H341EZ
Sample Description: G6D260252-1 PS
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 13:58:31
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H341EZ.024
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 29
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2939234.457	ug/L	3196963.785
⌈	44	Ca	1484.577590	4.117	615013.101	ug/L	69855.413
|	52	Cr	217.812890	3.166	2686846.378	ug/L	49919.704
|	54	Fe	1010.826183	1.119	1217265.849	ug/L	153028.382
|	57	Fe	964.876108	1.476	474253.318	ug/L	29993.006
|	68	Zn	215.851878	0.902	290091.314	ug/L	12909.670
⌊>	72	Ge-1			3207526.815	ug/L	3364715.062
⌈	50	Cr	174.462079	3.445	51332.549	ug/L	-352.455
|	53	Cr	149.345016	5.938	133320.916	ug/L	62635.557
|	67	Zn	205.176712	1.479	25538.979	ug/L	3259.367
|	66	Zn	207.223966	1.474	136133.149	ug/L	6069.980
⌊>	72	Ge			3207526.815	ug/L	3364715.062
	106	Pd	193.821786	1.589	55379.729	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	95.328
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	95.328
	Pd	106	

Sample ID: H341Q
Sample Description: G6D260252-2
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:01:23
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H341Q.025
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 30
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
45	Sc			2905877.247	ug/L	3196963.785
44	Ca	332.568564	1.797	190879.218	ug/L	69855.413
52	Cr	3.015481	3.147	84745.786	ug/L	49919.704
54	Fe	152.887287	1.916	310225.139	ug/L	153028.382
57	Fe	149.607094	15.589	98471.020	ug/L	29993.006
68	Zn	3.105925	25.275	16420.424	ug/L	12909.670
72	Ge-1			3231367.170	ug/L	3364715.062
50	Cr	3.723968	8.413	772.533	ug/L	-352.455
53	Cr	-61.405072	3.505	29648.094	ug/L	62635.557
67	Zn	-6.397121	6.091	2425.608	ug/L	3259.367
66	Zn	2.894110	12.532	7662.051	ug/L	6069.980
72	Ge			3231367.170	ug/L	3364715.062
106	Pd	0.324405	14.691	106.667	ug/L	14.000

Internal Standard Recoveries

Analyte	Mass	Int Std % Recovery
Sc	45	
Ca	44	
Cr	52	
Fe	54	
Fe	57	
Zn	68	
Ge-1	72	96.037
Cr	50	
Cr	53	
Zn	67	
Zn	66	
Ge	72	96.037
Pd	106	

Sample ID: H341V
Sample Description: G6D260252-3
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:04:15
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H341V.026
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 31
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2978071.817	ug/L	3196963.785
⌈	44	Ca	274.348301	2.014	172906.444	ug/L	69855.413
|	52	Cr	2.051721	6.252	74585.433	ug/L	49919.704
|	54	Fe	114.562445	1.332	275154.819	ug/L	153028.382
|	57	Fe	93.396089	2.034	73840.030	ug/L	29993.006
|	68	Zn	3.396397	12.648	17163.156	ug/L	12909.670
⌊>	72	Ge-1			3301699.377	ug/L	3364715.062
⌈	50	Cr	3.157220	7.279	616.359	ug/L	-352.455
|	53	Cr	-61.663471	2.340	30168.716	ug/L	62635.557
|	67	Zn	-6.557440	4.573	2460.635	ug/L	3259.367
|	66	Zn	3.199125	8.689	8026.296	ug/L	6069.980
⌊>	72	Ge			3301699.377	ug/L	3364715.062
	106	Pd	0.395588	0.885	127.001	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.127
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.127
	Pd	106	

Sample ID: CCV 3
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:07:09
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 3.027
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2895759.643	ug/L	3196963.785
⌈	44	Ca	4771.170075	0.801	1895765.916	ug/L	69855.413
|	52	Cr	97.841486	1.643	1277576.926	ug/L	49919.704
|	54	Fe	4998.001117	2.188	5639759.203	ug/L	153028.382
|	57	Fe	4773.091931	1.352	2313616.806	ug/L	29993.006
|	68	Zn	99.938715	0.335	146006.812	ug/L	12909.670
⌊>	72	Ge-1			3323282.170	ug/L	3364715.062
⌈	50	Cr	94.035003	9.736	28503.156	ug/L	-352.455
|	53	Cr	100.894619	0.381	113412.864	ug/L	62635.557
|	67	Zn	97.902956	1.188	14309.027	ug/L	3259.367
|	66	Zn	94.677509	1.892	67692.489	ug/L	6069.980
⌊>	72	Ge			3323282.170	ug/L	3364715.062
	106	Pd	96.115727	1.276	27469.723	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.769
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.769
	Pd	106	

Sample ID: CCB 3
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:10:04
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 3.028
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2976695.237	ug/L	3196963.785
⌈	44	Ca	-4.360543	136.415	67575.606	ug/L	69855.413
|	52	Cr	-0.151962	50.252	47587.737	ug/L	49919.704
|	54	Fe	-4.116494	144.425	147135.432	ug/L	153028.382
|	57	Fe	-0.163264	1451.496	29652.140	ug/L	29993.006
|	68	Zn	-1.493865	31.229	10793.991	ug/L	12909.670
⌊>	72	Ge-1			3338142.868	ug/L	3364715.062
⌈	50	Cr	-0.058519	81.197	-367.590	ug/L	-352.455
|	53	Cr	-2.614535	180.678	60745.416	ug/L	62635.557
|	67	Zn	-1.131765	99.066	3102.206	ug/L	3259.367
|	66	Zn	-1.487587	21.194	5043.734	ug/L	6069.980
⌊>	72	Ge			3338142.868	ug/L	3364715.062
	106	Pd	-0.015170	13.323	9.667	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	99.210
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	99.210
	Pd	106	

Sample ID: CCV 4
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:12:59
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 4.029
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2919826.245	ug/L	3196963.785
⌈	44	Ca	4821.204320	2.217	1899114.426	ug/L	69855.413
|	52	Cr	98.101545	3.278	1269842.161	ug/L	49919.704
|	54	Fe	4998.638389	2.389	5593327.027	ug/L	153028.382
|	57	Fe	4914.523108	2.726	2361489.249	ug/L	29993.006
|	68	Zn	101.132409	2.770	146367.352	ug/L	12909.670
⌊>	72	Ge-1			3296235.699	ug/L	3364715.062
⌈	50	Cr	96.945862	3.935	29161.420	ug/L	-352.455
|	53	Cr	102.662320	3.170	113371.241	ug/L	62635.557
|	67	Zn	101.259629	3.069	14564.531	ug/L	3259.367
|	66	Zn	97.853165	1.892	69178.327	ug/L	6069.980
⌊>	72	Ge			3296235.699	ug/L	3364715.062
	106	Pd	96.887155	1.383	27690.083	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.965
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.965
	Pd	106	

Sample ID: CCB 4
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:15:54
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 4.030
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2845046.007	ug/L	3196963.785
⌈	44	Ca	-3.181208	71.553	67078.827	ug/L	69855.413
|	52	Cr	-0.072700	104.066	47894.423	ug/L	49919.704
|	54	Fe	-4.771730	163.512	144402.441	ug/L	153028.382
|	57	Fe	-1.697789	184.147	28514.723	ug/L	29993.006
|	68	Zn	-0.938416	66.770	11380.755	ug/L	12909.670
⌊>	72	Ge-1			3289070.945	ug/L	3364715.062
⌈	50	Cr	-0.145298	80.835	-388.606	ug/L	-352.455
|	53	Cr	-0.662821	952.342	60889.835	ug/L	62635.557
|	67	Zn	-0.631849	191.797	3115.221	ug/L	3259.367
|	66	Zn	-1.207235	47.576	5154.595	ug/L	6069.980
⌊>	72	Ge			3289070.945	ug/L	3364715.062
	106	Pd	-0.010502	185.592	11.000	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.752
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.752
	Pd	106	

Sample ID: H3413
Sample Description: G6D260252-4
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:18:49
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H3413.031
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 32
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2796734.843	ug/L	3196963.785
⌈	44	Ca	382.243275	0.809	206217.423	ug/L	69855.413
|	52	Cr	1.389626	5.896	63922.005	ug/L	49919.704
|	54	Fe	135.801484	2.144	287563.363	ug/L	153028.382
|	57	Fe	110.562104	3.054	79029.372	ug/L	29993.006
|	68	Zn	4.138058	6.661	17494.141	ug/L	12909.670
⌊>	72	Ge-1			3182611.431	ug/L	3364715.062
⌈	50	Cr	2.703466	5.453	461.476	ug/L	-352.455
|	53	Cr	-61.462124	3.185	29170.251	ug/L	62635.557
|	67	Zn	-6.171408	13.886	2413.266	ug/L	3259.367
|	66	Zn	3.970620	9.825	8218.464	ug/L	6069.980
⌊>	72	Ge			3182611.431	ug/L	3364715.062
	106	Pd	0.375750	4.689	121.334	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	94.588
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	94.588
	Pd	106	

Sample ID: H3414
Sample Description: G6D260252-5
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:21:42
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H3414.032
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 33
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2949247.377	ug/L	3196963.785
⌈	44	Ca	306.853260	1.641	183498.918	ug/L	69855.413
|	52	Cr	1.056683	20.840	61562.696	ug/L	49919.704
|	54	Fe	156.433547	0.470	317799.962	ug/L	153028.382
|	57	Fe	141.564651	0.347	95814.414	ug/L	29993.006
|	68	Zn	3.301836	4.661	16880.269	ug/L	12909.670
⌊>	72	Ge-1			3270295.876	ug/L	3364715.062
⌈	50	Cr	2.346876	19.478	366.107	ug/L	-352.455
|	53	Cr	-61.345573	4.385	30032.111	ug/L	62635.557
|	67	Zn	-6.566374	10.564	2435.950	ug/L	3259.367
|	66	Zn	3.289934	8.886	8009.254	ug/L	6069.980
⌊>	72	Ge			3270295.876	ug/L	3364715.062
	106	Pd	0.388587	7.802	125.001	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.194
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.194
	Pd	106	

Sample ID: H3416
Sample Description: G6D260252-6
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:24:35
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H3416.033
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 34
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2847547.928	ug/L	3196963.785
⌈	44	Ca	252.721833	1.523	163099.434	ug/L	69855.413
|	52	Cr	0.865484	10.971	59206.388	ug/L	49919.704
|	54	Fe	145.578522	5.469	305964.181	ug/L	153028.382
|	57	Fe	126.369744	1.888	88647.047	ug/L	29993.006
|	68	Zn	2.432520	14.101	15732.799	ug/L	12909.670
⌊>	72	Ge-1			3270238.962	ug/L	3364715.062
⌈	50	Cr	2.419342	2.066	388.260	ug/L	-352.455
|	53	Cr	-60.254199	2.249	30593.197	ug/L	62635.557
|	67	Zn	-6.811129	4.829	2408.261	ug/L	3259.367
|	66	Zn	2.227787	17.251	7325.244	ug/L	6069.980
⌊>	72	Ge			3270238.962	ug/L	3364715.062
	106	Pd	0.387420	12.532	124.668	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.192
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.192
	Pd	106	

STL SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M01 - Method 6020 **QUANTITATIVE ANALYSIS REPORT**
SOP No. SAC-MT-0001
BJones

Sample ID: H3417
Sample Description: G6D260252-7
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:27:29
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H3417.034
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 35
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2863632.458	ug/L	3196963.785
⌈	44	Ca	176.650978	1.454	131020.318	ug/L	69855.413
|	52	Cr	0.993133	1.133	59239.533	ug/L	49919.704
|	54	Fe	86.170181	6.436	235734.624	ug/L	153028.382
|	57	Fe	74.323589	3.807	62521.123	ug/L	29993.006
|	68	Zn	1.222925	38.618	13789.869	ug/L	12909.670
⌊>	72	Ge-1			3187031.699	ug/L	3364715.062
⌈	50	Cr	1.709836	12.031	169.089	ug/L	-352.455
|	53	Cr	-59.075112	4.046	30388.911	ug/L	62635.557
|	67	Zn	-7.505833	11.645	2272.494	ug/L	3259.367
|	66	Zn	1.589430	38.354	6742.615	ug/L	6069.980
⌊>	72	Ge			3187031.699	ug/L	3364715.062
	106	Pd	0.296399	15.233	98.667	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	94.719
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	94.719
	Pd	106	

Sample ID: H342E
Sample Description: G6D260252-8
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:30:23
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H342E.035
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 36
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2971403.515	ug/L	3196963.785
⌈	44	Ca	420.823348	2.273	230207.411	ug/L	69855.413
|	52	Cr	0.879187	3.209	60371.896	ug/L	49919.704
|	54	Fe	183.909521	9.563	353170.271	ug/L	153028.382
|	57	Fe	166.512744	2.726	109380.100	ug/L	29993.006
|	68	Zn	3.731923	66.276	17754.117	ug/L	12909.670
⌊>	72	Ge-1			3325090.749	ug/L	3364715.062
⌈	50	Cr	2.924353	1.672	549.732	ug/L	-352.455
|	53	Cr	-60.042005	3.494	31203.118	ug/L	62635.557
|	67	Zn	-6.189903	19.203	2520.352	ug/L	3259.367
|	66	Zn	3.119525	63.269	8040.196	ug/L	6069.980
⌊>	72	Ge			3325090.749	ug/L	3364715.062
	106	Pd	0.389754	16.908	125.334	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.822
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.822
	Pd	106	

Sample ID: H342L
Sample Description: G6D260252-9
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:33:18
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H342L.036
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 37
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2885055.816	ug/L	3196963.785
⌈	44	Ca	521.710850	2.455	261373.684	ug/L	69855.413
|	52	Cr	1.232623	11.621	62998.333	ug/L	49919.704
|	54	Fe	263.320613	2.704	428331.088	ug/L	153028.382
|	57	Fe	241.477662	4.169	141191.888	ug/L	29993.006
|	68	Zn	5.454044	23.031	19477.756	ug/L	12909.670
⌊>	72	Ge-1			3232935.448	ug/L	3364715.062
⌈	50	Cr	-2.615124	369.660	-1098.023	ug/L	-352.455
|	53	Cr	-57.898242	6.933	31388.453	ug/L	62635.557
|	67	Zn	-3.189232	37.951	2779.570	ug/L	3259.367
|	66	Zn	5.345080	25.314	9217.310	ug/L	6069.980
⌊>	72	Ge			3232935.448	ug/L	3364715.062
	106	Pd	0.493611	7.405	155.001	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	96.083
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	96.083
	Pd	106	

Sample ID: H342M
Sample Description: G6D260252-10
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:36:13
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H342M.037
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 38
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2935612.428	ug/L	3196963.785
⌈	44	Ca	541.826693	2.528	272352.530	ug/L	69855.413
|	52	Cr	1.263641	17.232	64199.195	ug/L	49919.704
|	54	Fe	451.343725	1.366	637304.018	ug/L	153028.382
|	57	Fe	439.232609	2.592	236305.832	ug/L	29993.006
|	68	Zn	10.541153	0.597	26413.814	ug/L	12909.670
⌊>	72	Ge-1			3274532.756	ug/L	3364715.062
⌈	50	Cr	3.931284	2.572	846.121	ug/L	-352.455
|	53	Cr	-58.472521	1.858	31523.942	ug/L	62635.557
|	67	Zn	0.474861	183.916	3224.330	ug/L	3259.367
|	66	Zn	10.017719	2.142	12339.316	ug/L	6069.980
⌊>	72	Ge			3274532.756	ug/L	3364715.062
	106	Pd	0.576464	7.117	178.668	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	97.320
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	97.320
	Pd	106	

Sample ID: H342P
Sample Description: G6D260252-11
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:39:08
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H342P.038
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 39
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2889604.288	ug/L	3196963.785
⌈	44	Ca	569.772144	1.289	285891.797	ug/L	69855.413
|	52	Cr	1.071892	6.764	62488.367	ug/L	49919.704
|	54	Fe	541.493351	1.845	742613.163	ug/L	153028.382
|	57	Fe	509.684355	3.626	272336.039	ug/L	29993.006
|	68	Zn	2.898284	29.783	16543.006	ug/L	12909.670
⌊>	72	Ge-1			3308870.454	ug/L	3364715.062
⌈	50	Cr	10.611022	118.361	2897.163	ug/L	-352.455
|	53	Cr	-58.622959	6.238	31775.770	ug/L	62635.557
|	67	Zn	-6.271644	1.251	2497.998	ug/L	3259.367
|	66	Zn	2.810679	32.229	7792.741	ug/L	6069.980
⌊>	72	Ge			3308870.454	ug/L	3364715.062
	106	Pd	0.680322	3.102	208.336	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	98.340
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	98.340
	Pd	106	

Sample ID: H342Q
Sample Description: G6D260252-12
Batch ID: 6124580
Sample Date/Time: Tuesday, May 16, 2006 14:42:04
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\H342Q.039
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 40
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2999421.897	ug/L	3196963.785
⌈	44	Ca	454.915106	8.734	252224.640	ug/L	69855.413
|	52	Cr	1.032049	25.172	64604.625	ug/L	49919.704
|	54	Fe	306.635880	12.772	505670.131	ug/L	153028.382
|	57	Fe	285.944244	5.296	172779.490	ug/L	29993.006
|	68	Zn	3.705439	12.747	18398.723	ug/L	12909.670
⌊>	72	Ge-1			3454777.218	ug/L	3364715.062
⌈	50	Cr	3.368522	8.669	709.867	ug/L	-352.455
|	53	Cr	-59.982092	5.675	32396.104	ug/L	62635.557
|	67	Zn	-5.595345	18.553	2683.485	ug/L	3259.367
|	66	Zn	3.779310	14.091	8794.062	ug/L	6069.980
⌊>	72	Ge			3454777.218	ug/L	3364715.062
	106	Pd	0.593968	6.465	183.669	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	102.677
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	102.677
	Pd	106	

Sample ID: CCV 5
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:44:59
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCV 5.040
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 4
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2928085.726	ug/L	3196963.785
⌈	44	Ca	4653.887239	0.755	1896635.191	ug/L	69855.413
|	52	Cr	96.537172	3.527	1292496.230	ug/L	49919.704
|	54	Fe	4912.887226	3.875	5684162.984	ug/L	153028.382
|	57	Fe	4714.919757	1.034	2342464.704	ug/L	29993.006
|	68	Zn	100.902926	1.354	150941.524	ug/L	12909.670
⌊>	72	Ge-1			3405616.763	ug/L	3364715.062
⌈	50	Cr	101.319468	8.451	31514.822	ug/L	-352.455
|	53	Cr	99.876738	6.089	115684.597	ug/L	62635.557
|	67	Zn	99.017152	2.240	14791.260	ug/L	3259.367
|	66	Zn	96.322702	2.750	70464.829	ug/L	6069.980
⌊>	72	Ge			3405616.763	ug/L	3364715.062
	106	Pd	99.000184	1.316	28293.676	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	101.216
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	101.216
	Pd	106	

Sample ID: CCB 5
Sample Description:
Batch ID:
Sample Date/Time: Tuesday, May 16, 2006 14:47:55
Method File: C:\elandata\Method\6131060R.mth
Dataset File: C:\elandata\Dataset\060516A1\CCB 5.041
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Autosampler Position: 5
Number of Replicates: 3
Dual Detector Mode: Dual
Initial Sample Quantity (mg):
Sample Prep Volume (mL):
Aliquot Volume (mL):
Diluted To Volume (mL):

Sample Result Summary

	Mass	Analyte	Conc. Mean	Conc. RSD	Meas. Intens. Mean	Sample Unit	Blank Intensity
	45	Sc			2923343.591	ug/L	3196963.785
⌈	44	Ca	-7.273754	21.078	67534.651	ug/L	69855.413
|	52	Cr	-0.264376	40.595	46907.145	ug/L	49919.704
|	54	Fe	-8.971289	42.248	144120.996	ug/L	153028.382
|	57	Fe	-0.621000	57.433	29911.991	ug/L	29993.006
|	68	Zn	-2.568237	18.295	9509.845	ug/L	12909.670
⌊>	72	Ge-1			3389700.006	ug/L	3364715.062
⌈	50	Cr	-0.159012	58.761	-404.795	ug/L	-352.455
|	53	Cr	-3.759918	81.144	61146.815	ug/L	62635.557
|	67	Zn	-2.456210	24.861	3000.107	ug/L	3259.367
|	66	Zn	-2.671399	9.148	4338.678	ug/L	6069.980
⌊>	72	Ge			3389700.006	ug/L	3364715.062
	106	Pd	0.002334	346.410	14.667	ug/L	14.000

Internal Standard Recoveries

	Analyte	Mass	Int Std % Recovery
	Sc	45	
⌈	Ca	44	
|	Cr	52	
|	Fe	54	
|	Fe	57	
|	Zn	68	
⌊>	Ge-1	72	100.743
⌈	Cr	50	
|	Cr	53	
|	Zn	67	
|	Zn	66	
⌊>	Ge	72	100.743
	Pd	106	

Mercury

G6D260252 G6E020171

STL Sacramento

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 05/17/06 09:37:17

Sequence: 11MAY06I Date: 05/11/06 12:10 Analyst: merrittn ICV: _____ CAL/CCV: _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
1	Std01Rep1				0.00	1.0	0.00	ug/L		05/11/06 12:10		☐
2	Std02Rep1	= 0.200			0.00	1.0	0.00	ug/L		05/11/06 12:12		☐
3	Std03Rep1	= 0.500			0.00	1.0	0.00	ug/L		05/11/06 12:15		☐
4	Std04Rep1	= 1.00			0.00	1.0	0.00	ug/L		05/11/06 12:16		☐
5	Std05Rep1	= 5.00			0.00	1.0	0.00	ug/L		05/11/06 12:19		☐
6	Std06Rep1	= 10.0			0.00	1.0	0.00	ug/L		05/11/06 12:20		☐
7	ICV	= 2.00			1.94	1.0	1.94	ug/L	97.0%	05/11/06 12:25		☐
8	ICB				-0.01	1.0	-0.01	ug/L		05/11/06 12:27		☐
9	H46T1B	G6E110000	6131331		-0.00	1.0	-0.00	ug/L		05/11/06 12:29		☐
10	H46T1C	G6E110000 = 1.80	6131331		1.00	1.0	0.60	ug/L	33.2%	05/11/06 12:30		☐
11	H46T1L	G6E110000 = 1.80	6131331		1.01	1.0	0.61	ug/L	33.7%	05/11/06 12:32		☐
12	H341E	G6D260252-1	6131331	AIR	0.01	1.0	0.00	ug/L		05/11/06 12:34		☐
13	H341Q	G6D260252-2	6131331	AIR	0.01	1.0	0.01	ug/L		05/11/06 12:36		☐
14	H341V	G6D260252-3	6131331	AIR	0.01	1.0	0.01	ug/L		05/11/06 12:38		☐
15	H3413	G6D260252-4	6131331	AIR	0.01	1.0	0.01	ug/L		05/11/06 12:40		☐
16	H3414	G6D260252-5	6131331	AIR	0.00	1.0	0.00	ug/L		05/11/06 12:41		☐
17	H3416	G6D260252-6	6131331	AIR	0.01	1.0	0.01	ug/L		05/11/06 12:43		☐
18	H3417	G6D260252-7	6131331	AIR	0.00	1.0	0.00	ug/L		05/11/06 12:45		☐
19	CCV	= 5.00			5.03	1.0	5.03	ug/L	100.6%	05/11/06 12:47		☐
20	CCB				-0.00	1.0	-0.00	ug/L		05/11/06 12:49		☐
21	H342E	G6D260252-8	6131331	AIR	0.01	1.0	0.01	ug/L		05/11/06 12:51		☐
22	H342L	G6D260252-9	6131331	AIR	0.03	1.0	0.02	ug/L		05/11/06 12:53		☐
23	H342M	G6D260252-10	6131331	AIR	0.03	1.0	0.02	ug/L		05/11/06 12:54		☐
24	H342P	G6D260252-11	6131331	AIR	0.02	1.0	0.01	ug/L		05/11/06 12:56		☐
25	H342Q	G6D260252-12	6131331	AIR	0.02	1.0	0.01	ug/L		05/11/06 12:58		☐
26	H46WDB	G6E110000	6131338		-0.00	1.0	-0.00	ug/L		05/11/06 12:59		☐
27	H46WDC	G6E110000 = 1.80	6131338		1.00	1.0	0.60	ug/L	33.3%	05/11/06 13:01		☐
28	H46WDL	G6E110000 = 1.80	6131338		0.99	1.0	0.59	ug/L	33.0%	05/11/06 13:03		☐
29	H4HK9	G6E020171-1	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:04		☐
30	H4HLD	G6E020171-2	6131338	AIR	0.02	1.0	0.01	ug/L		05/11/06 13:06		☐
31	CCV	= 5.00			4.99	1.0	4.99	ug/L	99.8%	05/11/06 13:08		☐
32	CCB				-0.01	1.0	-0.01	ug/L		05/11/06 13:09		☐
33	H4HLH	G6E020171-3	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:11		☐
34	H4HLN	G6E020171-4	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:13		☐

STL Sacramento

RUN SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) Instrument: STL2 (H03) Reported: 05/17/06 09:37:17

Sequence: **11MAY06I** **Date: 05/11/06 12:10** **Analyst: merrittn** **ICV:** _____ **CAL/CCV:** _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
35	H4HLV	G6E020171-5	6131338	AIR	0.02	1.0	0.01	ug/L		05/11/06 13:15		☐
36	H4HLX	G6E020171-6	6131338	AIR	0.01	1.0	0.00	ug/L		05/11/06 13:16		☐
37	H4HL1	G6E020171-7	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:18		☐
38	H4HL2	G6E020171-8	6131338	AIR	-0.00	1.0	-0.00	ug/L		05/11/06 13:20		☐
39	H4HL3	G6E020171-9	6131338	AIR	0.03	1.0	0.02	ug/L		05/11/06 13:22		☐
40	H4HL6	G6E020171-10	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:24		☐
41	H4HL7	G6E020171-11	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:25		☐
42	H4HL8	G6E020171-12	6131338	AIR	0.02	1.0	0.01	ug/L		05/11/06 13:27		☐
43	CCV	= 5.00			4.99	1.0	4.99	ug/L	99.8%	05/11/06 13:29		☐
44	CCB				0.00	1.0	0.00	ug/L		05/11/06 13:32		☐
45	H4HL9	G6E020171-13	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:33		☐
46	H4HMA	G6E020171-14	6131338	AIR	0.01	1.0	0.01	ug/L		05/11/06 13:35		☐
47	H4HMD	G6E020171-15	6131338	AIR	0.00	1.0	0.00	ug/L		05/11/06 13:37		☐
48	CCV	= 5.00			4.98	1.0	4.98	ug/L	99.6%	05/11/06 13:39		☐
49	CCB				-0.01	1.0	-0.01	ug/L		05/11/06 13:40		☐

STL Sacramento

CALIBRATION CHECK SUMMARY

Method: CVHG - Mercury (Mercury by Cold Vapor AA) | Instrument: STL2 (H03) | Reported: 05/17/06 09:37:31

Sequence: 11MAY06I **Date:** 05/11/06 12:25 **Analyst:** merrittn **ICV:** _____ **CAL/CCV:** _____

#	Sample ID	Lot No.	Batch	Matrix	Raw	DF	Result	Units	%R	Analyzed Date	Comment	Q
7	ICV	= 2.00			1.94	1.0	1.94	ug/L	97.0%	05/11/06 12:25		☐
8	ICB				-0.01	1.0	-0.01	ug/L		05/11/06 12:27		☐
19	CCV	= 5.00			5.03	1.0	5.03	ug/L	100.6%	05/11/06 12:47		☐
20	CCB				-0.00	1.0	-0.00	ug/L		05/11/06 12:49		☐
31	CCV	= 5.00			4.99	1.0	4.99	ug/L	99.8%	05/11/06 13:08		☐
32	CCB				-0.01	1.0	-0.01	ug/L		05/11/06 13:09		☐
43	CCV	= 5.00			4.99	1.0	4.99	ug/L	99.8%	05/11/06 13:29		☐
44	CCB				0.00	1.0	0.00	ug/L		05/11/06 13:32		☐
48	CCV	= 5.00			4.98	1.0	4.98	ug/L	99.6%	05/11/06 13:39		☐
49	CCB				-0.01	1.0	-0.01	ug/L		05/11/06 13:40		☐

WinHg Database 1.5

File Utility Help

Protocol STL2 Dataset/Proto 11MAY06I/STL2

Protocol | Line Info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.94444e-4

C 1.07352e-2

Rho .999998

Type Linear

Calibrated

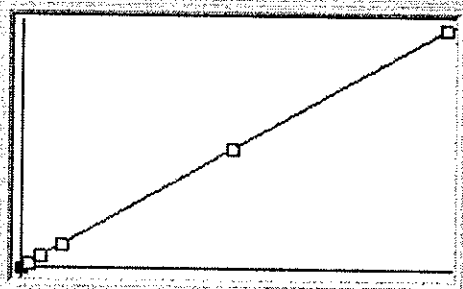
Accepted

Accept

µ Abs. 51508

Accepted

New



Include S1 Rep 1 ☑ 2 ☐ 3 ☐ 4 ☐ 5 ☐

11-May-06 12:22 Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	.003	.003	72	0	72		
02	.20000	.208	.008	1128	0%	1127		
03	.50000	.504	.004	2647	0%	2647		
04	1.0000	.987	-.013	5133	0%	5133		
05	5.0000	4.99	-.008	25731	0%	25730		
06	10.000	10.0	.005	51509	0%	51508		

Ready CAP NUM

CHEMIST INITIAL: NM
DATE OF RUN: 05/11/06 NM 05/11/06
INSTRUMENT ID.: H-03
TYPE OF ANALYSIS: Hg
CALIBRATION STD.: 1767-18-18
ICV STD.: 1767-19-1
CCV STD.: 1767-18-18

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1	12:10:57 11 May 06	HG		
Hg	.000	ug/L	72					
*** Standard: 2 Rep: 1				Seq: 2	12:12:34 11 May 06	HG		
Hg	.200	ug/L	1127					
*** Standard: 3 Rep: 1				Seq: 3	12:15:05 11 May 06	HG		
Hg	.500	ug/L	2647					
*** Standard: 4 Rep: 1				Seq: 4	12:16:56 11 May 06	HG		
Hg	1.00	ug/L	5133					
*** Standard: 5 Rep: 1				Seq: 5	12:19:05 11 May 06	HG		
Hg	5.00	ug/L	25730					
*** Standard: 6 Rep: 1				Seq: 6	12:20:48 11 May 06	HG		
Hg	10.0	ug/L	51508					

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 1				Seq: 1		12:10:57 11 May 06		HG
Hg	.000	ug/L	72					
*** Standard: 2 Rep: 1				Seq: 2		12:12:34 11 May 06		HG
Hg	.200	ug/L	1127					
*** Standard: 3 Rep: 1				Seq: 3		12:15:05 11 May 06		HG
Hg	.500	ug/L	2647					
*** Standard: 4 Rep: 1				Seq: 4		12:16:56 11 May 06		HG
Hg	1.00	ug/L	5133					
*** Standard: 5 Rep: 1				Seq: 5		12:19:05 11 May 06		HG
Hg	5.00	ug/L	25730					
*** Standard: 6 Rep: 1				Seq: 6		12:20:48 11 May 06		HG
Hg	10.0	ug/L	51508					
*** Sample ID: ICV				Seq: 7		12:25:42 11 May 06		HG
Hg	1.94	ug/L	.000	1.94				
*** Sample ID: ICB				Seq: 8		12:27:21 11 May 06		HG
Hg	-.010	ug/L	.000	-.010				
*** Sample ID: H46T1B				Seq: 9		12:29:20 11 May 06		HG
			G6E110000-331					
Hg	-.002	ug/L	.000	-.002				
*** Sample ID: H46T1C				Seq: 10		12:30:57 11 May 06		HG
			G6E110000-331					
Hg	.997	ug/L	.000	.997				
*** Sample ID: H46T1L				Seq: 11		12:32:33 11 May 06		HG
			G6E110000-331					
Hg	1.01	ug/L	.000	1.01				
*** Sample ID: H341E				Seq: 12		12:34:13 11 May 06		HG
			G6D260252-1					
Hg	.007	ug/L	.000	.007				
*** Sample ID: H341Q				Seq: 13		12:36:30 11 May 06		HG
			G6D260252-2					
Hg	.015	ug/L	.000	.015				

97%

99.7%

101%

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: H341V Seq: 14 12:38:21 11 May 06 HG
G6D260252-3

Hg	.014	ug/L	.000	.014

*** Sample ID: H3413 Seq: 15 12:40:12 11 May 06 HG
G6D260252-4

Hg	.009	ug/L	.000	.009

*** Sample ID: H3414 Seq: 16 12:41:55 11 May 06 HG
G6D260252-5

Hg	.002	ug/L	.000	.002

*** Sample ID: H3416 Seq: 17 12:43:44 11 May 06 HG
G6D260252-6

Hg	.011	ug/L	.000	.011

*** Sample ID: H3417 Seq: 18 12:45:45 11 May 06 HG
G6D260252-7

Hg	.005	ug/L	.000	.005

*** Sample ID: CCV Seq: 19 12:47:55 11 May 06 HG
CCV-1

Hg	5.03	ug/L	.000	5.03

100.6%

*** Sample ID: CCB Seq: 20 12:49:42 11 May 06 HG
CCB-1

Hg	-.003	ug/L	.000	-.003

*** Sample ID: H342E Seq: 21 12:51:23 11 May 06 HG
G6D260252-8

Hg	.012	ug/L	.000	.012

*** Sample ID: H342L Seq: 22 12:53:04 11 May 06 HG
G6D260252-9

Hg	.027	ug/L	.000	.027

*** Sample ID: H342M Seq: 23 12:54:41 11 May 06 HG
G6D260252-10

Hg	.029	ug/L	.000	.029

*** Sample ID: H342P Seq: 24 12:56:20 11 May 06 HG
G6D260252-11

Hg	.018	ug/L	.000	.018

*** Sample ID: H342Q Seq: 25 12:58:00 11 May 06 HG
G6D260252-12

Hg	.021	ug/L	.000	.021

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: H46WDB Seq: 26 12:59:41 11 May 06 HG
G6E110000-338

Hg	-.001	ug/L	.000	-.001

*** Sample ID: H46WDC Seq: 27 13:01:29 11 May 06 HG
G6E110000-338

Hg	.999	ug/L	.000	.999	99.9%

*** Sample ID: H46WDL Seq: 28 13:03:09 11 May 06 HG
G6E110000-338

Hg	.991	ug/L	.000	.991	99.1%

*** Sample ID: H4HK9 Seq: 29 13:04:48 11 May 06 HG
G6E020171-1

Hg	.014	ug/L	.000	.014

*** Sample ID: H4HLD Seq: 30 13:06:29 11 May 06 HG
G6E020171-2

Hg	.017	ug/L	.000	.017

*** Sample ID: CCV Seq: 31 13:08:05 11 May 06 HG
CCV-2

Hg	4.99	ug/L	.000	4.99	99.8%

*** Sample ID: CCB Seq: 32 13:09:44 11 May 06 HG
CCB-2

Hg	-.007	ug/L	.000	-.007

*** Sample ID: H4HLH Seq: 33 13:11:23 11 May 06 HG
G6E020171-3

Hg	.011	ug/L	.000	.011

*** Sample ID: H4HLN Seq: 34 13:13:03 11 May 06 HG
G6E020171-4

Hg	.009	ug/L	.000	.009

*** Sample ID: H4HLV Seq: 35 13:15:03 11 May 06 HG
G6E020171-5

Hg	.016	ug/L	.000	.016

*** Sample ID: H4HLX Seq: 36 13:16:44 11 May 06 HG
G6E020171-6

Hg	.007	ug/L	.000	.007

*** Sample ID: H4HL1 Seq: 37 13:18:43 11 May 06 HG
G6E020171-7

Hg	.015	ug/L	.000	.015

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: H4HL2					Seq: 38	13:20:23 11 May 06	HG	
				G6E020171-8				
Hg	-.001	ug/L	.000	-.001				
*** Sample ID: H4HL3					Seq: 39	13:22:11 11 May 06	HG	
				G6E020171-9				
Hg	.029	ug/L	.000	.029				
*** Sample ID: H4HL6					Seq: 40	13:24:04 11 May 06	HG	
				G6E020171-10				
Hg	.014	ug/L	.000	.014				
*** Sample ID: H4HL7					Seq: 41	13:25:43 11 May 06	HG	
				G6E020171-11				
Hg	.009	ug/L	.000	.009				
*** Sample ID: H4HL8					Seq: 42	13:27:30 11 May 06	HG	
				G6E020171-12				
Hg	.016	ug/L	.000	.016				
*** Sample ID: CCV					Seq: 43	13:29:07 11 May 06	HG	
				CCV-3				
Hg	4.99	ug/L	.000	4.99		99.8%		
*** Sample ID: CCB					Seq: 44	13:32:08 11 May 06	HG	
				CCB-3				
Hg	.002	ug/L	.000	.002				
*** Sample ID: H4HL9					Seq: 45	13:33:44 11 May 06	HG	
				G6E020171-13				
Hg	.012	ug/L	.000	.012				
*** Sample ID: H4HMA					Seq: 46	13:35:22 11 May 06	HG	
				G6E020171-14				
Hg	.009	ug/L	.000	.009				
*** Sample ID: H4HMD					Seq: 47	13:37:12 11 May 06	HG	
				G6E020171-15				
Hg	-.000	ug/L	.000	-.000				
*** Sample ID: CCV					Seq: 48	13:39:05 11 May 06	HG	
				CCV-4				
Hg	4.98	ug/L	.000	4.98		99.6%		
*** Sample ID: CCB					Seq: 49	13:40:46 11 May 06	HG	
				CCB-4				
Hg	-.014	ug/L	.000	-.014				

SEVERN TRENT STL

STL Sacramento

Hg Data Review Checklist

Run Date: 05/11/06 **Analyst:** Merritt **Instrument** H-03

Prep Batches Run: 6131331

Circle Methods Used: **7470A / 245.1** **7471 / 245.5**

A. Calibration/Instrument Run QC	Yes	No	N/A	2ndLevel
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within ± RL?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the high calibration standard diluted and reanalyzed?			✓	✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?			✓	✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and transcriptions checked for error?	✓			✓
4. All client / project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Analyst: Merritt Date: 05/11/06

Comments:

2nd Level Reviewer: MZ Date: 5/17/06

Comments:

Sample Preparation Log

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 5-May-06 **Analyst:** merrittn **Matrix:** AIR

Fraction: Filter **SOP:** **Method:** ICPTRACE

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6E040000	594	H4Q3JB	2A	NA	NA	NA	100	6124594	1.2
G6E040000	594	H4Q3JC	2A	NA	NA	NA	100	6124594	1.2
G6E040000	594	H4Q3JL	2A	NA	NA	NA	100	6124594	1.2
G6D260252	1	H341E	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	2	H341Q	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	3	H341V	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	4	H3413	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	5	H3414	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	6	H3416	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	7	H3417	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	8	H342E	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	9	H342L	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	10	H342M	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	11	H342P	2A	9	0.75	0.75	100	6124594	1.2
G6D260252	12	H342Q	2A	9	0.75	0.75	100	6124594	1.2
MB-contr	1	F1685532	2A	9	0.75	0.75	100	6124594	1.2
MB-contr	2	F1815158	2A	9	0.75	0.75	100	6124594	1.2

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

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QA-372B mlt 02/20/03

STL Sacramento
Metals Preparation Spiking
Documentation Form

SEVERN TRENT STL

Lot # G6D260252

Batch Number: 6124594

EPA Analytical Method ID: 6010

Spiked Date: 05/05/06

MS Run #: N/A

EPA Prep Method ID: 2A

Hot Plate Microwave ID: 4

Analyst Initial/Date: 05/05/06 NM

Witness Initial/Date: MC/05/05/06

Hot Plate Temp Observed: 90 Corected: 90

Correct Folder ID Witness:

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
✓	ICP Part 1 5% HNO_3	Ca, Mg Al, As, Ba, Se, Sn, Tl Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	5,000 200 100 50 25 20 5 5.6	1774-Met6-17	1.0 mL	N/A	
✓	ICP Part 2 2% HNO_3	K,Na P,S B,Li,Sr	5,000 1,000 100	1774-Met7-10	1.0 mL	N/A	
	Si H20/Tr HF	Si	1,000				
	XCAL-45 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B,Si As,Be,Cd,Cr,Co,Cu,Pb,Mn,Mo,Ni,Se,U,V,Zn,Ba,Li Sn,Sr,Ti Sb,Ag,Tl	50 10 2.5				
	Misc. Elements					05/05/06 NM	

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
✓	70% HNO_3	Mallinckrodt	251037		30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	05/05/06 NM

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

QA-400 DAW 1/10/06

STL SACRAMENTO
Metals - Air Toxics - Preparation Log

Date: 5-May-06 **Analyst:** merrittn **Matrix:** AIR

Fraction: Filter **SOP:** **Method:** ICPMS

LOT ID		Workorder		Volume Received	Volume Removed	Initial Prep Volume	Final Prep Volume	Batch	Prep Factor
G6E040000	580	H4Q29B	2A	NA	NA	NA	100	6124580	1.2
G6E040000	580	H4Q29C	2A	NA	NA	NA	100	6124580	1.2
G6E040000	580	H4Q29L	2A	NA	NA	NA	100	6124580	1.2
G6D260252	1	H341E	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	2	H341Q	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	3	H341V	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	4	H3413	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	5	H3414	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	6	H3416	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	7	H3417	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	8	H342E	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	9	H342L	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	10	H342M	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	11	H342P	2A	9	0.75	0.75	100	6124580	1.2
G6D260252	12	H342Q	2A	9	0.75	0.75	100	6124580	1.2
MB-contr	1	F1685532	2A	9	0.75	0.75	100	6124580	1.2
MB-contr	2	F1815158	2A	9	0.75	0.75	100	6124580	1.2

For 1" filter: factor = 9 (9/1)
For 0.75" filter factor = 12 (9/0.75)

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QA-372B mlt 02/20/03

STL Sacramento
Metals Preparation Spiking
Documentation Form

SEVERN TRENT STL

Lot # G6D260252

Batch Number: 6124580

EPA Analytical Method ID: 6020

Spiked Date: 05/05/06

MS Run #: N/A

EPA Prep Method ID: 2-A

Hot Plate Microwave ID: 4

Analyst Initial/Date: 05/05/06 NM

Witness Initial/Date: MC/05/05/06

Hot Plate Temp Observed: 90 Corected: 90

Correct Folder ID Witness:

Check If Used	Bottle Name	Elements	Stock Concentration (mg/L)	Tracking Number	LCS/DCS Volume Spiked	MS/SD Volume Spiked	Expiration Date
	ICP Part 1 5% HNO_3	Ca, Mg Al, As, Ba, Se, Sn, Tl Fe,Mo,Ti Sb,Co,Pb,Mn,Ni,V,Zn Cu Cr ,Be,Cd Ag	5,000 200 100 50 25 20 5 5.6				
	ICP Part 2 2% HNO_3	K,Na P,S B,Li,Sr	5,000 1,000 100				
	Si H20/Tr HF	Si	1,000			05/05/06 NM	
	XCAL-45 5% HNO_3	Al,K,Mg,Ca,Na,Fe,P,B,Si As,Be,Cd,Cr,Co,Cu,Pb, Mn,Mo,Ni,Se,U,V,Zn,Ba, Li Sn,Sr,Ti Sb,Ag,Tl	50 10 2.5	1774-Met 7-8	2.0 mL	N/A	11/07
	Misc. Elements				05/05/06 NM		

Prep Reagents:

Check If Used	Reagent	Supplier	Lot Number	Check If Used	Reagent	Supplier	Lot Number
	70% HNO_3	Mallinckrodt	B51037		30% H_2O_2	Mallinckrodt	
	37% HCl	Mallinckrodt			49% HF	Fisher	05/05/06 NM

ICP matrix spike and LCS: For final volumes of 100ml, add 1ml from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (Si) when requested.
ICPMS matrix spike and LCS: For final volumes of 100ml, add 2ml of XCAL-45.
Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.

QA-400 DAW 1/10/06

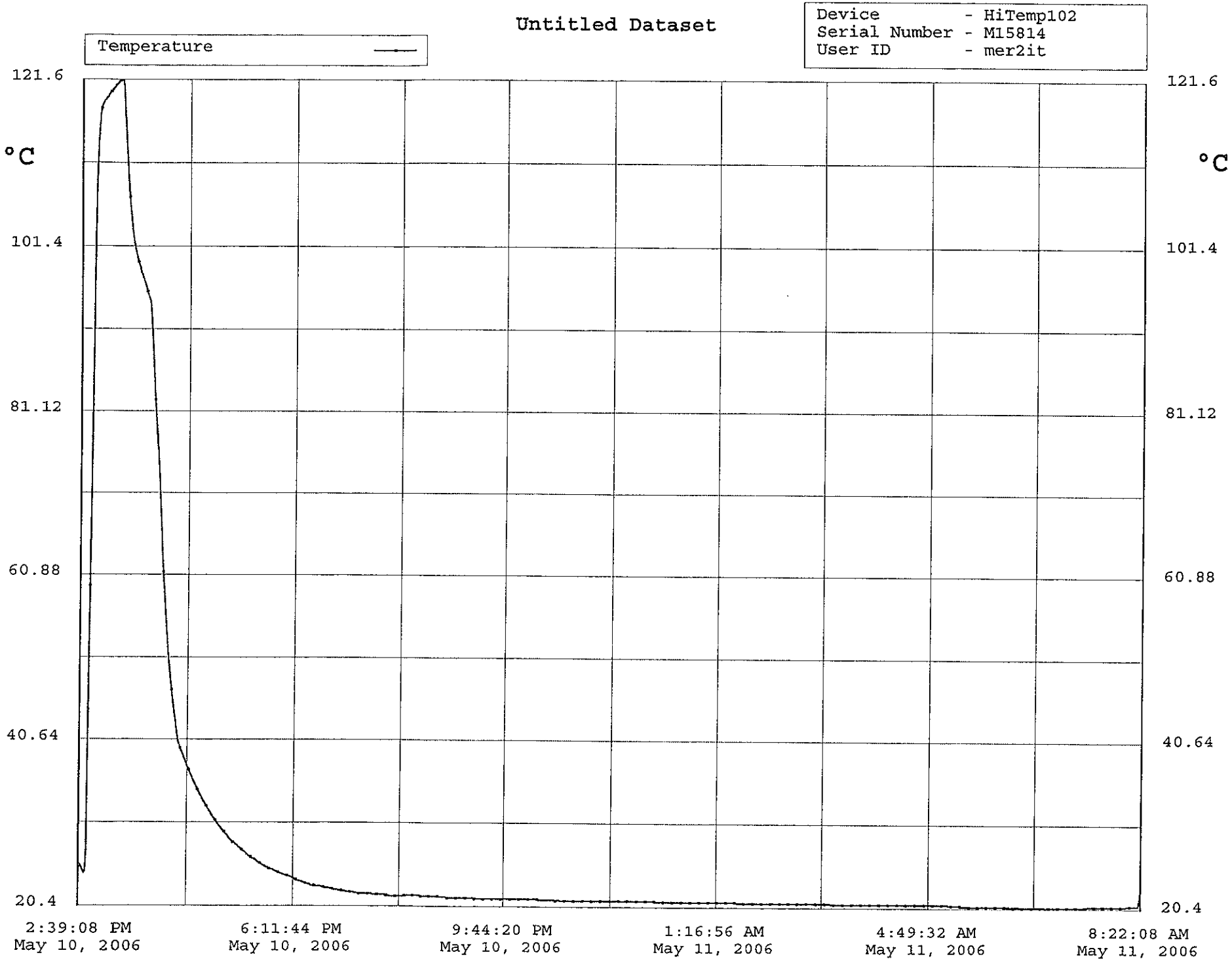
STL Sacramento
Mercury Sample Preparation Log

STL Lot Number	WO #	pH	Matrix	Wt/Vol	Final Vol.	Chemist:	merrittn	Date:	05/11/06
0	Std1Rep1	NA	AQUEOUS	50	50	SOP#:	SAC-MT-0005		
0.2	Std2Rep1	NA	AQUEOUS	50	50	Autoclave: Start Time:	14:40	End:	16:00
0.5	Std3Rep1	NA	AQUEOUS	50	50	Balance ID:	QA-007	Calibrated:	NA
1	Std4Rep1	NA	AQUEOUS	50	50	STANDARDS:			
5	Std5Rep1	NA	AQUEOUS	50	50	Initial Calibration Standard (ICV):			
10	Std6Rep1	NA	AQUEOUS	50	50	Lot#:1767-19-1		Conc:	100ppb
ICV	ICV	NA	AQUEOUS	50	50	Calibration Stds./CCV/Matrix Spike/LCSW			
ICB	ICB	NA	AQUEOUS	50	50	Lot#:1767-18-18		Conc:	100ppb
G6E110000-331	H46T1B		AQUEOUS	50	50		*SOIL (0.6g/50ml)*		
G6E110000-331	H46T1C		AQUEOUS	50	50		Curve/QC (ppb)	Spike Volume	
G6E110000-331	H46T1L		AQUEOUS	50	50		0.0	0.0 ul	
G6D260252-1	H341E		Filter	0.75	50		0.2	100 ul	
G6D260252-2	H341Q		Filter	0.75	50		0.5	250 ul	
G6D260252-3	H341V		Filter	0.75	50		1.0	0.5 ml	
G6D260252-4	H3413		Filter	0.75	50		5.0	2.5 ml	
G6D260252-5	H3414		Filter	0.75	50		10.0	5.0 ml	
G6D260252-6	H3416		Filter	0.75	50		CCV/5.0	2.5 ml	
G6D260252-7	H3417		Filter	0.75	50		LCS/1.0	0.6g/0.5 ml	
G6D260252-8	H342E		Filter	0.75	50		MS/SD/3.0	1.5 ml	
G6D260252-9	H342L		Filter	0.75	50		ICV/2.0	1.0 ml	
G6D260252-10	H342M		Filter	0.75	50				
G6D260252-11	H342P		Filter	0.75	50		*WATER (30/30ml) , DI Leach (30/30)*		
G6D260252-12	H342Q		Filter	0.75	50		*STLC (3/30 ml) , TCLP (6/30ml)*		
CCV	CCV		AQUEOUS	50	50		Curve/QC (ppb)	Spike Volume	
CCB	CCB		AQUEOUS	50	50		0.0	0.0 ul	
G6E110000-338	H46WDB		AQUEOUS	0.75	50		0.2	60 ul	
G6E110000-338	H46WDC		AQUEOUS	0.75	50		0.5	150 ul	
G6E110000-338	H46WDL		AQUEOUS	0.75	50		1.0	300 ul	
G6E020171-1	H4HK9		Filter	0.75	50		5.0	1.5 ml	
G6E020171-2	H4HLD		Filter	0.75	50		10.0	3.0 ml	
G6E020171-3	H4HLH		Filter	0.75	50		CCV/5.0	1.5 ml	
G6E020171-4	H4HLN		Filter	0.75	50		LCS/1.0	300 ul	
G6E020171-5	H4HLV		Filter	0.75	50		MS/SD/1.0	300 ul	
G6E020171-6	H4HLX		Filter	0.75	50		ICV/2.0	600 ul	
G6E020171-7	H4HL1		Filter	0.75	50				
G6E020171-8	H4HL2		Filter	0.75	50		**REAGENTS:**		
G6E020171-9	H4HL3		Filter	0.75	50		HNO3 Lot#: C02065		
G6E020171-10	H4HL6		Filter	0.75	50		H2SO4 Lot#: C05024		

QA392 Rev.2/21/2003

STL Sacramento
Mercury Sample Preparation Log

STL Lot Number	WO #	pH	Matrix	Wt/Vol	Final Vol.	Chemist:	merrittn	Date:	05/11/06
G6E020171-11	H4HL7		Filter	0.75	50		KMnO4 Lot# 2626-MET-37-5		
G6E020171-12	H4HL8		Filter	0.75	50		K2S2O8 Lot#: 2626-MET-36-2		
G6E020171-13	H4HL9		Filter	0.75	50		NaCl(NH2OH)2 2626-36-5:		
G6E020171-14	H4HMA		Filter	0.75	50		SnCL2 Lot#:2626-38-4		
G6E020171-15	H4HMD		Filter	0.75	50				
CCV	CCV		AQUEOUS	50	50				
CCB	CCV		AQUEOUS	50	50				
CCV	CCV		AQUEOUS	50	50				
CCB	CCV		AQUEOUS	50	50				


Untitled Dataset
Device - HiTemp102
Serial Number - M15814
User ID - mer2it
Temperature
°C
121.6
101.4
81.12
60.88
40.64
20.4
2:39:08 PM May 10, 2006
6:11:44 PM May 10, 2006
9:44:20 PM May 10, 2006
1:16:56 AM May 11, 2006
4:49:32 AM May 11, 2006
8:22:08 AM May 11, 2006

Device Name:	**HiTemp102**
Device Description:	**Temperature Recorder**
Serial Number:	**M15814**
User ID:	**mer2it**

Reading Number	Date and Time	Channel 1 Temperature (°C)
1	2006-05-10 14:39:08	25.1
2	2006-05-10 14:40:08	25.4
3	2006-05-10 14:41:08	25.2
4	2006-05-10 14:42:08	24.9
5	2006-05-10 14:43:08	24.6
6	2006-05-10 14:44:08	24.4
7	2006-05-10 14:45:08	24.6
8	2006-05-10 14:46:08	26.8
9	2006-05-10 14:47:08	42.1
10	2006-05-10 14:48:08	59.5
11	2006-05-10 14:49:08	73.4
12	2006-05-10 14:50:08	86
13	2006-05-10 14:51:08	97.1
14	2006-05-10 14:52:08	105.8
15	2006-05-10 14:53:08	110.9
16	2006-05-10 14:54:08	114
17	2006-05-10 14:55:08	116
18	2006-05-10 14:56:08	117.4
19	2006-05-10 14:57:08	118.1
20	2006-05-10 14:58:08	118.5
21	2006-05-10 14:59:08	118.8
22	2006-05-10 15:00:08	119
23	2006-05-10 15:01:08	119.1
24	2006-05-10 15:02:08	119.3
25	2006-05-10 15:03:08	119.5
26	2006-05-10 15:04:08	119.7
27	2006-05-10 15:05:08	120
28	2006-05-10 15:06:08	120.1
29	2006-05-10 15:07:08	120.3
30	2006-05-10 15:08:08	120.5
31	2006-05-10 15:09:08	120.7
32	2006-05-10 15:10:08	120.9
33	2006-05-10 15:11:08	121
34	2006-05-10 15:12:08	121.1
35	2006-05-10 15:13:08	121.3
36	2006-05-10 15:14:08	121.4
37	2006-05-10 15:15:08	121.5
38	2006-05-10 15:16:08	121.6
39	2006-05-10 15:17:08	121.6
40	2006-05-10 15:18:08	120.6
41	2006-05-10 15:19:08	118.3
42	2006-05-10 15:20:08	115.8
43	2006-05-10 15:21:08	113.4
44	2006-05-10 15:22:08	111.1
45	2006-05-10 15:23:08	109.1

AIR, PM-10 & TSP

RQC050 Severn Trent Laboratories, Inc. Run Date: 5/05/06
WET CHEM BATCHSHEET Time: 15:32:38

STL Sacramento

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)
QC BATCH #: **6125458** INITIALS: DATA ENTRY:
PREP DATE: 5/01/06 13:46 PREP INITIALS
COMP DATE: 5/04/06 16:49 ANAL DATE 5/5/06
USER: VALMORES

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
H341E-1-AA	G-6D260252-001	XX S 88 JR 01	Y-D	5/4/06	P-0598
H341Q-1-AD	G-6D260252-002	XX S 88 JR 01	Y-D		P-0599
H341V-1-AD	G-6D260252-003	XX S 88 JR 01	Y-D	5/2/06	P-0600
H3413-1-AD	G-6D260252-004	XX S 88 JR 01	Y-D	5/03/06	P-0601
H3414-1-AD	G-6D260252-005	XX S 88 JR 01	Y-D		P-0602
H3416-1-AD	G-6D260252-006	XX S 88 JR 01	Y-D		P-0603
H3417-1-AD	G-6D260252-007	XX S 88 JR 01	Y-D	5/02/06	P-0605

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6D 260252 - 1-7 Batch #: ~~6125458~~ G125458

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 5/5/06 ANALYST: Sakhare

LEVEL 1 ANALYSIS REVIEW	YES	NO	NA
1. Samples are in good condition.	✓		
2. Sample filter number matches the folder or petri ID number.	✓		
3. Desiccator temperature and % humidity criteria in control.	✓		
4. Balance calibration criteria met.	✓		
5. Beginning and ending calibration sample bracket weights are in calibration.	✓		
6. Samples reached stable weight.	✓		
7. Samples exceeded 5 consecutive final weighings.			✓

LEVEL 1 DATA REVIEW	YES	NO	NA
1. Benchsheet is complete.	✓		
2. QAS or QAPP consulted and followed for client specifics.	✓		
3. Data entered in properly.	✓		
4. Copy of spreadsheet or logbook raw data entry attached to data package.	✓		
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.			✓

Completed By & Date: SV 5/5/06

LEVEL 2 REVIEW:	YES	NO	NA
1. Level 1 checklist complete and verified.	✓		
2. Deviations, Anomalies, Holding times checked and approved.	✓		
3. Reanalysis documented and chemist notified.			✓
4. Client specific criteria met.	✓		
5. Data entry checked and released in Quantims.	✓		
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).	✓		

Completed By & Date: SL 5/5/06

Comments: de IA

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0005 030706skv1043	5.0003 030706skv1659	5.0004 050106skv1345	5.0003 050206skv0926	5.0001 050306skv1652	4.9999 050406skv1137			-0.0004
H3KFM	pmbc030706-596	4.4891 030706skv1044	4.4896 030706skv1700	4.4975 042106skv0920	4.4976 042106skv1519					0.0080
H3KFP	pmbc030706-597	4.4758 030706skv1044	4.4758 030706skv1700	4.4831 042106skv0920	4.4835 042106skv1519					0.0077
H341E	pmbc030706-598	4.4713 030706skv1045	4.4713 030706skv1700	4.4767 050106skv1345	4.4752 050206skv0927	4.4737 050306skv1653	4.4742 050406skv1138			0.0029
H341Q	pmbc030706-599	4.4603 030706skv1045	4.4603 030706skv1701	4.4660 050106skv1345	4.4652 050206skv0928	4.4641 050306skv1654	4.4639 050406skv1138			0.0036
H341V	pmbc030706-600	4.4659 030706skv1045	4.4659 030706skv1702	4.4701 050106skv1346	4.4702 050206skv0928					0.0043
	5 g wt	5.0000 030706skv1047	5.0002 030706skv1702	4.9998 042106skv0921	4.9998 042106skv1520					-0.0004
	5 g wt	5.0000 030706skv1047	5.0002 030706skv1702	5.0003 050106skv1346	5.0002 050206skv0929	4.9999 050306skv1655	5.0000 050406skv1139			-0.0002

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Page ~~2/2~~ 1/2 Batch#: 6125458

Reviewed by: GL 5/5/06

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0001 032806pgr0805	4.9996 032906skv1048	5.0005 050106skv1346	5.0001 050206skv0929	5.0001 050306skiv1645				0.0005
H3413	pmbc032706-601	4.4656 032806pgr0805	4.4656 032906skv1049	4.4721 050106skv1347	4.4699 050206skv0930	4.4700 050306skiv1645				0.0044
H3414	pmbc032706-602	4.4603 032806pgr0806	4.4600 032906skv1049	4.4657 050106skv1347	4.4613 050206skv0930	4.4613 050306skiv1645				0.0013
H3416	pmbc032706-603	4.4553 032806pgr0807	4.4550 032906skv1050	4.4603 050106skv1347	4.4580 050206skv0931	4.4579 050306skiv1646				0.0029
	pmbc032706-604	4.4329 032806pgr0808	4.4329 032906skv1051							NC
H3417	pmbc032706-605	4.4655 032806pgr0809	4.4655 032906skv1052	4.4649 050106skv1348	4.4649 050206skv0932					-0.0006
	pmbc032706-606	4.4704 032806pgr0810	4.4700 032906skv1052	4.4745 050306skiv1647						NC
	pmbc032706-607	4.4895 032806pgr0811	4.4891 032906skv1053	4.4963 050306skiv1648						NC
	pmbc032706-608	4.4445 032806pgr0812	4.4440 032906skv1053	4.4515 050306skiv1648						NC
	pmbc032706-609	4.4365 032806pgr0813	4.4360 032906skv1054	4.4445 050306skiv1649						NC
	pmbc032706-610	4.4876 032806pgr0815	4.4876 032906skv1054	4.4948 050306skiv1649						NC
	5 g wt	4.9999 032806pgr0816	5.0000 032906skv1055	5.0005 050106skv1348	5.0002 050206skv0932	4.9999 050306skiv1649				-0.0001

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Page ~~1/2~~ Batch#: 612545

Reviewed by: 5/5/06

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6125458**

Date 5/05/2006
Time 17:26:49

Method Code: **JR Particulate Matter as PM10 "PM10 HiVol" (CFR50-J)**
Analyst: **Steve Valmores**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
H341E-1-AA	0.0029	g	0.0001	05/01-05/04/06	.00	N	R	0.0029	0.0001	1.00
H341Q-1-AD	0.0036	g	0.0001	05/01-05/04/06	.00	N	R	0.0036	0.0001	1.00
H341V-1-AD	0.0043	g	0.0001	05/01-05/02/06	.00	N	R	0.0043	0.0001	1.00
H3413-1-AD	0.0044	g	0.0001	05/01-05/03/06	.00	N	R	0.0044	0.0001	1.00
H3414-1-AD	0.0013	g	0.0001	05/01-05/03/06	.00	N	R	0.0013	0.0001	1.00
H3416-1-AD	0.0029	g	0.0001	05/01-05/03/06	.00	N	R	0.0029	0.0001	1.00
H3417-1-AD	ND	g	0.0001	05/01-05/02/06	.00	N	R	ND	0.0001	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0

RQC050

Severn Trent Laboratories, Inc.
WET CHEM BATCHSHEET

Run Date: 5/05/06
Time: 15:36:13

STL Sacramento

PRODUCTION FIGURES - WET CHEM

TOTAL NUMBER	SAMPLE NUMBER	QC	RE-RUN MATRIX	RE-RUN OTHER	MISC NUMBER	TOTAL HOURS	EXPANDED DELIVERABLE

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)
QC BATCH #: **6125457**
PREP DATE: 5/01/06 13:41
COMP DATE: 5/02/06 9:24
USER: VALMORES

INITIALS:
PREP
ANAL

DATA ENTRY:
INITIALS
DATE 5/5/06

Work Order	Lab Number	Structured Analysis	Exp. Del.	Analysis Date	Sample ID:
H342E-1-AA	G-6D260252-008	XX S 88 AO 3W	Y-D	5/02/06	000431
H342L-1-AD	G-6D260252-009	XX S 88 AO 3W	Y-D		000432
H342M-1-AF	G-6D260252-010	XX S 88 AO 3W	Y-D		000433
H342P-1-AF	G-6D260252-011	XX S 88 AO 3W	Y-D		000434
H342Q-1-AF	G-6D260252-012	XX S 88 AO 3W	Y-D		000435

Control Limits

STL Sacramento

Air Toxics Laboratory

SEVERN TRENT STL

PARTICULATE ANALYSIS

LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G6D260252- 8-12 Batch #: 6125457

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 5/5/06 ANALYST: [illegible]

LEVEL 1 ANALYSIS REVIEW	YES	NO	NA
1. Samples are in good condition.	✓		
2. Sample filter number matches the folder or petri ID number.	✓		
3. Desiccator temperature and % humidity criteria in control.	✓		
4. Balance calibration criteria met.	✓		
5. Beginning and ending calibration sample bracket weights are in calibration.			
6. Samples reached stable weight.	✓		
7. Samples exceeded 5 consecutive final weighings.			✓
LEVEL 1 DATA REVIEW			
1. Benchsheet is complete.	✓		
2. QAS or QAPP consulted and followed for client specifics.	✓		
3. Data entered in properly.	✓		
4. Copy of spreadsheet or logbook raw data entry attached to data package.	✓		✓
5. Analyst observations, HTV's, Anomalies properly documented and attached to data package.			

Completed By & Date: [illegible] 5/5/06

LEVEL 2 REVIEW:			
1. Level 1 checklist complete and verified.	✓		
2. Deviations, Anomalies, Holding times checked and approved.	✓		
3. Reanalysis documented and chemist notified.			✓
4. Client specific criteria met.	✓		
5. Data entry checked and released in Quantims.	✓		
6. Indication on benchsheet or spreadsheet on review and released (dated & signed).	✓		

Completed By & Date: [illegible] 5/5/06

Comments: [illegible] IA

SOP# : Sac-IP-0006

GRAVIMETRIC BALANCE: QA-45

Severn Trent Laboratories

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

Lab ID	Filter ID	Initial Weight (g) date/time initials	Initial Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Final Weight (g) date/time initials	Wt of Particulate (g)
	5 g wt	5.0001 032806pgr0832	4.9999 032906skv1027	5.0002 050106skv1341	5.0000 050206skv0921					0.0001
H3KFV	bctsp032706-426	4.3545 032806pgr0833	4.3543 032906skv1028	4.3894 042106skv0907	4.3896 042106skv1503					0.0353
H3FW	bctsp032706-427	4.3551 032806pgr0834	4.3551 032906skv1029	4.3772 042106skv0908	4.3771 042106skv1503					0.0220
H3KFX	bctsp032706-428	4.3499 032806pgr0835	4.3495 032906skv1029	4.3739 042106skv0908	4.3737 042106skv1504					0.0242
H3KF0	bctsp032706-429	4.3586 032806pgr0836	4.3591 032906skv1030	4.3572 042106skv0909	4.3576 042106skv1504					-0.0015
	bctsp032706-430	4.3433 032806pgr0837	4.3437 032906skv1030							NC
H342E	bctsp032706-431	4.3618 032806pgr0838	4.3619 032906skv1031	4.3746 050106skv1342	4.3741 050206skv0922					0.0122
H342L	bctsp032706-432	4.3437 032806pgr0838	4.3441 032906skv1031	4.3617 050106skv1342	4.3613 050206skv0922					0.0172
H342M	bctsp032706-433	4.3435 032806pgr0839	4.3438 032906skv1031	4.3674 050106skv1342	4.3677 050206skv0923					0.0239
H342P	bctsp032706-434	4.3494 032806pgr0839	4.3499 032906skv1032	4.3688 050106skv1343	4.3683 050206skv0923					0.0184
H342Q	bctsp032706-435	4.3492 032806pgr0840	4.3496 032906skv1034	4.3666 050106skv1343	4.3666 050206skv0923					0.0170
	5 g wt	4.9998 032806pgr0844	4.9997 032906skv1034	4.9998 042106skv0909	5.0001 042106skv1504					0.0004
	5 g wt	4.9998 032806pgr0844	4.9997 032906skv1034	5.0004 050106skv1344	5.0002 050206skv0924					0.0005

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Page 1/1 Batch#: 6125457

Reviewed by: 5/5/02

PDE115

Severn Trent Laboratories, Inc.
Inorganics Batch Review
QC Batch **6125457**

Date 5/05/2006
Time 17:31:22

Method Code: **AO Particulates in Air, Suspended "TSP HiVol" (APP B)**
Analyst: **Steve Valmores**

Work Order	Result	Units	LDL/Dil	Prep. - Anal.	Total Solids	PSRL Flag	R/R	Rounded Result	Output LDL	Dil.
H342E-1-AA	0.0122	g	0.0001	05/01-05/02/06	.00	N	R	0.0122	0.0001	1.00
H342L-1-AD	0.0172	g	0.0001	05/01-05/02/06	.00	N	R	0.0172	0.0001	1.00
H342M-1-AF	0.0239	g	0.0001	05/01-05/02/06	.00	N	R	0.0239	0.0001	1.00
H342P-1-AF	0.0184	g	0.0001	05/01-05/02/06	.00	N	R	0.0184	0.0001	1.00
H342Q-1-AF	0.0170	g	0.0001	05/01-05/02/06	.00	N	R	0.0170	0.0001	1.00

Notes:

PRODUCTION TOTALS

TEST	TOTAL #	SAMPLE #	QC #	MATRIX #	OTHER #	MISC #	HOURS
	0	0	0	0	0	0	.0