UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

FINAL

Approval Form / Project Checklist

Project Number: 1212042

Report Date: February 1, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

Comments

See Partial Reports for documentation - J. Birri

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	Nelson F. Alf	2/1/13
	Special Projects Coord.	John Birri	2/4/13
	Laboratory QAO	Sunny Cherukara	2/7/13
	Laboratory Branch Chief	John Bourbon	for JMB 2/1/13

491417

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Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

	File Core Data	√
1	Project Report – 1 Copy	✓
2	Project Narrative – 1 Copy	✓
3	Analytical Request Form (ARF)	
4	External Chain of Custody Forms	
5	Shipping Forms/Air Bills	
6	Sample Acceptance Checklist(s)	
7	Internal Chain of Custody Form(s)	
8	OSCAR Sample Tracking Log	
9	Project Correspondence	
	Area Specific Raw Data	
11	Organics	
	VOAs	
	NVOAs	
	PCBs	
	Pesticides	
	Haloacetic Acids	
	MEE	
12	Metals	
	ICP-AES	✓
	ICP-MS	
	CVAAS – Mercury	
	DMA - Mercury	

		√
13	Sanitary Chemistry	
14	Microbiology	
15	Biology	

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February 01, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory between 12/12/2012 and 1/30/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-001-4248-001	1212042-01	Solid	12/11/2012 15:19	12/12/2012 08:50
S-001-4248-002	1212042-02	Solid	12/11/2012 15:19	12/12/2012 08:50
S-002-1824-001	1212042-03	Solid	12/11/2012 15:22	12/12/2012 08:50
S-003-1218-001	1212042-04	Solid	12/11/2012 15:25	12/12/2012 08:50
S-004-7884-001	1212042-05	Solid	12/11/2012 15:30	12/12/2012 08:50
S-005-4854-001	1212042-06	Solid	12/11/2012 15:33	12/12/2012 08:50
S-006-1824-001	1212042-07	Solid	12/11/2012 15:38	12/12/2012 08:50
S-007-3642-001	1212042-08	Solid	12/11/2012 15:40	12/12/2012 08:50
S-008-1824-001	1212046-01	Solid	12/12/2012 15:47	12/13/2012 08:39
S-008-1824-002	1212046-02	Solid	12/12/2012 16:10	12/13/2012 08:39
S-009-1824-001	1212046-03	Solid	12/12/2012 15:50	12/13/2012 08:39
S-010-0612-001	1212046-04	Solid	12/12/2012 15:55	12/13/2012 08:39
S-011-0612-001	1212046-05	Solid	12/12/2012 15:58	12/13/2012 08:39
S-012-1824-001	1212046-06	Solid	12/12/2012 16:04	12/13/2012 08:39
S-013-3036-001	1212052-01	Solid	12/13/2012 15:02	12/13/2012 17:40
S-013-3036-002	1212052-02	Solid	12/13/2012 15:02	12/13/2012 17:40
S-014-3036-001	1212052-03	Solid	12/13/2012 15:17	12/13/2012 17:40
S-015-4854-001	1212062-01	Solid	12/18/2012 15:07	12/19/2012 07:40
S-015-4854-002	1212062-02	Solid	12/18/2012 15:07	12/19/2012 07:40
S-016-3036-001	1212062-03	Solid	12/18/2012 15:22	12/19/2012 07:40
S-017-0612-001	1212062-04	Solid	12/18/2012 15:31	12/19/2012 07:40
S-018-0612-001	1212062-05	Solid	12/18/2012 15:36	12/19/2012 07:40
S-019-6066-001	1301005-01	Solid	01/08/2013 12:06	01/08/2013 17:10
S-019-6066-002	1301005-02	Solid	01/08/2013 12:06	01/08/2013 17:10
S-020-6672-001	1301005-03	Solid	01/08/2013 12:11	01/08/2013 17:10
S-021-4854-001	1301005-04	Solid	01/08/2013 12:15	01/08/2013 17:10
S-022-2430-001	1301005-05	Solid	01/08/2013 12:19	01/08/2013 17:10
S-023-3642-001	1301005-06	Solid	01/08/2013 12:23	01/08/2013 17:10
S-024-1824-001	1301005-07	Solid	01/08/2013 12:26	01/08/2013 17:10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-025-6672-001	1301005-08	Solid	01/08/2013 14:50	01/08/2013 17:10
S-026-6672-001	1301005-09	Solid	01/08/2013 15:00	01/08/2013 17:10
S-027-8490-001	1301009-01	Solid	01/10/2013 10:03	01/10/2013 15:40
S-027-8490-002	1301009-02	Solid	01/10/2013 10:03	01/10/2013 15:40
S-028-4248-001	1301009-03	Solid	01/10/2013 10:09	01/10/2013 15:40
S-029-1824-001	1301009-04	Solid	01/10/2013 10:13	01/10/2013 15:40
S-030-6066-001	1301009-05	Solid	01/10/2013 12:10	01/10/2013 15:40
S-031-3642-001	1301009-06	Solid	01/10/2013 12:16	01/10/2013 15:40
S-032-4854-001	1301011-01	Solid	01/11/2013 09:16	01/14/2013 08:20
S-032-4854-002	1301011-02	Solid	01/11/2013 09:16	01/14/2013 08:20
S-033-1824-001	1301011-03	Solid	01/11/2013 13:51	01/14/2013 08:20
S-034-0612-001	1301011-04	Solid	01/11/2013 14:42	01/14/2013 08:20
S-035-8490-001	1301016-01	Solid	01/15/2013 11:15	01/15/2013 13:50
S-035-8490-002	1301016-02	Solid	01/15/2013 11:15	01/15/2013 13:50
S-036-8490-001	1301016-03	Solid	01/15/2013 11:25	01/15/2013 13:50
S-037-2430-001	1301016-04	Solid	01/15/2013 11:30	01/15/2013 13:50
S-038-0612-001	1301016-05	Solid	01/15/2013 12:20	01/15/2013 13:50
S-039-7884-001	1301023-01	Solid	01/17/2013 08:27	01/17/2013 14:00
S-039-7884-002	1301023-02	Solid	01/17/2013 08:27	01/17/2013 14:00
S-040-1824-001	1301023-03	Solid	01/17/2013 08:25	01/17/2013 14:00
S-041-3642-001	1301027-01	Solid	01/18/2013 09:15	01/18/2013 16:27
S-041-3642-002	1301027-02	Solid	01/18/2013 09:15	01/18/2013 16:27
S-042-3642-001	1301027-03	Solid	01/18/2013 09:20	01/18/2013 16:27
S-043-1824-001	1301027-04	Solid	01/18/2013 09:25	01/18/2013 16:27
S-044-4854-001	1301027-05	Solid	01/18/2013 12:11	01/18/2013 16:27
S-045-4854-001	1301027-06	Solid	01/18/2013 12:15	01/18/2013 16:27
S-046-5460-001	1301027-07	Solid	01/18/2013 13:55	01/18/2013 16:27
S-047-6672-001	1301027-08	Solid	01/18/2013 14:00	01/18/2013 16:27
S-048-4854-001	1301035-01	Solid	01/23/2013 11:27	01/23/2013 17:46

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-048-4854-002	1301035-02	Solid	01/23/2013 11:27	01/23/2013 17:46
S-049-4248-001	1301038-01	Solid	01/24/2013 09:20	01/24/2013 12:30
S-049-4248-002	1301038-02	Solid	01/24/2013 09:20	01/24/2013 12:30
S-050-1218-001	1301038-03	Solid	01/24/2013 09:27	01/24/2013 12:30
S-051-0612-001	1301038-04	Solid	01/24/2013 09:40	01/24/2013 12:30
S-052-1218-001	1301038-05	Solid	01/24/2013 09:55	01/24/2013 12:30
S-053-0006-001	1301038-06	Solid	01/24/2013 10:08	01/24/2013 12:30
S-054-0006-001	1301038-07	Solid	01/24/2013 11:15	01/24/2013 12:30
S-055-4248-001	1301045-01	Solid	01/24/2013 14:15	01/25/2013 12:10
S-055-4248-002	1301045-02	Solid	01/24/2013 14:15	01/25/2013 12:10
S-056-1218-001	1301045-03	Solid	01/24/2013 15:00	01/25/2013 12:10
S-057-1824-001	1301045-04	Solid	01/24/2013 15:20	01/25/2013 12:10
S-058-1218-001	1301045-05	Solid	01/24/2013 15:25	01/25/2013 12:10
S-059-0612-001	1301045-06	Solid	01/24/2013 15:30	01/25/2013 12:10
S-060-4248-001	1301048-01	Solid	01/25/2013 13:37	01/25/2013 15:45
S-060-4248-002	1301048-02	Solid	01/25/2013 13:37	01/25/2013 15:45
S-061-0006-001	1301061-01	Solid	01/30/2013 10:50	01/30/2013 13:40
S-061-0006-002	1301061-02	Solid	01/30/2013 10:50	01/30/2013 13:40

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-001-4248-001				**Sample ID: 1212042-01**
Metals ICP				
Lead	210		0.76	mg/kg dry
Field ID: S-001-4248-002				**Sample ID: 1212042-02**
Metals ICP				
Lead	240		0.75	mg/kg dry
Field ID: S-002-1824-001				**Sample ID: 1212042-03**
Metals ICP				
Lead	270		0.74	mg/kg dry
Field ID: S-003-1218-001				**Sample ID: 1212042-04**
Metals ICP				
Lead	630		0.85	mg/kg dry
Field ID: S-004-7884-001				**Sample ID: 1212042-05**
Metals ICP				
Lead	1600		0.74	mg/kg dry
Field ID: S-005-4854-001				**Sample ID: 1212042-06**
Metals ICP				
Lead	480		0.79	mg/kg dry
Field ID: S-006-1824-001				**Sample ID: 1212042-07**

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-006-1824-001				Sample ID: 1212042-07
Metals ICP				
Lead	790		0.77	mg/kg dry
Field ID: S-007-3642-001				Sample ID: 1212042-08
Metals ICP				
Lead	590		0.79	mg/kg dry
Field ID: S-008-1824-001				Sample ID: 1212046-01
Metals ICP				
Lead	170		0.88	mg/kg dry
Field ID: S-008-1824-002				Sample ID: 1212046-02
Metals ICP				
Lead	56		0.74	mg/kg dry
Field ID: S-009-1824-001				Sample ID: 1212046-03
Metals ICP				
Lead	81		0.78	mg/kg dry
Field ID: S-010-0612-001				Sample ID: 1212046-04
Metals ICP				
Lead	580		0.76	mg/kg dry
Field ID: S-011-0612-001				Sample ID: 1212046-05
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-011-0612-001				**Sample ID: 1212046-05**
Metals ICP				
Lead	78		0.72	mg/kg dry
Field ID: S-012-1824-001				**Sample ID: 1212046-06**
Metals ICP				
Lead	16		0.82	mg/kg dry
Field ID: S-013-3036-001				**Sample ID: 1212052-01**
Metals ICP				
Lead	190		0.73	mg/kg dry
Field ID: S-013-3036-002				**Sample ID: 1212052-02**
Metals ICP				
Lead	150		0.76	mg/kg dry
Field ID: S-014-3036-001				**Sample ID: 1212052-03**
Metals ICP				
Lead	18		0.69	mg/kg dry
Field ID: S-015-4854-001				**Sample ID: 1212062-01**
Metals ICP				
Lead	80		0.65	mg/kg dry
Field ID: S-015-4854-002				**Sample ID: 1212062-02**
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-015-4854-002				Sample ID: 1212062-02
Metals ICP				
Lead	68		0.64	mg/kg dry
Field ID: S-016-3036-001				Sample ID: 1212062-03
Metals ICP				
Lead	9.1		0.64	mg/kg dry
Field ID: S-017-0612-001				Sample ID: 1212062-04
Metals ICP				
Lead	71		0.65	mg/kg dry
Field ID: S-018-0612-001				Sample ID: 1212062-05
Metals ICP				
Lead	1200		0.64	mg/kg dry
Field ID: S-019-6066-001				Sample ID: 1301005-01
Metals ICP				
Lead	9.2		0.68	mg/kg dry
Field ID: S-019-6066-002				Sample ID: 1301005-02
Metals ICP				
Lead	6.0		0.70	mg/kg dry
Field ID: S-020-6672-001				Sample ID: 1301005-03
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-020-6672-001				**Sample ID: 1301005-03**
Metals ICP				
Lead	5.9		0.68	mg/kg dry
Field ID: S-021-4854-001				**Sample ID: 1301005-04**
Metals ICP				
Lead	8.2		0.69	mg/kg dry
Field ID: S-022-2430-001				**Sample ID: 1301005-05**
Metals ICP				
Lead	36		0.68	mg/kg dry
Field ID: S-023-3642-001				**Sample ID: 1301005-06**
Metals ICP				
Lead	290		0.66	mg/kg dry
Field ID: S-024-1824-001				**Sample ID: 1301005-07**
Metals ICP				
Lead	890		0.66	mg/kg dry
Field ID: S-025-6672-001				**Sample ID: 1301005-08**
Metals ICP				
Lead	420		0.76	mg/kg dry
Field ID: S-026-6672-001				**Sample ID: 1301005-09**
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-026-6672-001				Sample ID: 1301005-09
Metals ICP				
Lead	95		0.73	mg/kg dry
Field ID: S-027-8490-001				Sample ID: 1301009-01
Metals ICP				
Lead	300		0.76	mg/kg dry
Field ID: S-027-8490-002				Sample ID: 1301009-02
Metals ICP				
Lead	290		0.71	mg/kg dry
Field ID: S-028-4248-001				Sample ID: 1301009-03
Metals ICP				
Lead	140		0.69	mg/kg dry
Field ID: S-029-1824-001				Sample ID: 1301009-04
Metals ICP				
Lead	9.8		0.65	mg/kg dry
Field ID: S-030-6066-001				Sample ID: 1301009-05
Metals ICP				
Lead	8.0		0.66	mg/kg dry
Field ID: S-031-3642-001				Sample ID: 1301009-06
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-031-3642-001				**Sample ID: 1301009-06**
Metals ICP				
Lead	460		0.66	mg/kg dry
Field ID: S-032-4854-001				**Sample ID: 1301011-01**
Metals ICP				
Lead	4.5		0.77	mg/kg dry
Field ID: S-032-4854-002				**Sample ID: 1301011-02**
Metals ICP				
Lead	4.4		0.78	mg/kg dry
Field ID: S-033-1824-001				**Sample ID: 1301011-03**
Metals ICP				
Lead	32000		3.8	mg/kg dry
Field ID: S-034-0612-001				**Sample ID: 1301011-04**
Metals ICP				
Lead	1900		0.78	mg/kg dry
Field ID: S-035-8490-001				**Sample ID: 1301016-01**
Metals ICP				
Lead	7.2		0.79	mg/kg dry
Field ID: S-035-8490-002				**Sample ID: 1301016-02**
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-035-8490-002				Sample ID: 1301016-02
Metals ICP				
Lead	7.2		0.76	mg/kg dry
Field ID: S-036-8490-001				Sample ID: 1301016-03
Metals ICP				
Lead	18		0.76	mg/kg dry
Field ID: S-037-2430-001				Sample ID: 1301016-04
Metals ICP				
Lead	95000		25	mg/kg dry
Field ID: S-038-0612-001				Sample ID: 1301016-05
Metals ICP				
Lead	64		0.79	mg/kg dry
Field ID: S-039-7884-001				Sample ID: 1301023-01
Metals ICP				
Lead	7.1		0.72	mg/kg dry
Field ID: S-039-7884-002				Sample ID: 1301023-02
Metals ICP				
Lead	6.8		0.73	mg/kg dry
Field ID: S-040-1824-001				Sample ID: 1301023-03
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-040-1824-001				Sample ID: 1301023-03
Metals ICP				
Lead	13000		8.3	mg/kg dry
Field ID: S-041-3642-001				Sample ID: 1301027-01
Metals ICP				
Lead	21		0.72	mg/kg dry
Field ID: S-041-3642-002				Sample ID: 1301027-02
Metals ICP				
Lead	20		0.74	mg/kg dry
Field ID: S-042-3642-001				Sample ID: 1301027-03
Metals ICP				
Lead	210		0.73	mg/kg dry
Field ID: S-043-1824-001				Sample ID: 1301027-04
Metals ICP				
Lead	820		0.73	mg/kg dry
Field ID: S-044-4854-001				Sample ID: 1301027-05
Metals ICP				
Lead	57		0.75	mg/kg dry
Field ID: S-045-4854-001				Sample ID: 1301027-06
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-045-4854-001				Sample ID: 1301027-06
Metals ICP				
Lead	6.9		0.76	mg/kg dry
Field ID: S-046-5460-001				Sample ID: 1301027-07
Metals ICP				
Lead	40		0.74	mg/kg dry
Field ID: S-047-6672-001				Sample ID: 1301027-08
Metals ICP				
Lead	8.0		0.74	mg/kg dry
Field ID: S-048-4854-001				Sample ID: 1301035-01
Metals ICP				
Lead	7.2		0.74	mg/kg dry
Field ID: S-048-4854-002				Sample ID: 1301035-02
Metals ICP				
Lead	8.0		0.76	mg/kg dry
Field ID: S-049-4248-001				Sample ID: 1301038-01
Metals ICP				
Lead	240		0.79	mg/kg dry
Field ID: S-049-4248-002				Sample ID: 1301038-02
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-049-4248-002				**Sample ID: 1301038-02**
Metals ICP				
Lead	250		0.79	mg/kg dry
Field ID: S-050-1218-001				**Sample ID: 1301038-03**
Metals ICP				
Lead	550		0.79	mg/kg dry
Field ID: S-051-0612-001				**Sample ID: 1301038-04**
Metals ICP				
Lead	320		0.75	mg/kg dry
Field ID: S-052-1218-001				**Sample ID: 1301038-05**
Metals ICP				
Lead	180		0.75	mg/kg dry
Field ID: S-053-0006-001				**Sample ID: 1301038-06**
Metals ICP				
Lead	210		0.74	mg/kg dry
Field ID: S-054-0006-001				**Sample ID: 1301038-07**
Metals ICP				
Lead	5600		0.77	mg/kg dry
Field ID: S-055-4248-001				**Sample ID: 1301045-01**
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-055-4248-001				Sample ID: 1301045-01
Metals ICP				
Lead	8.1		0.67	mg/kg dry
Field ID: S-055-4248-002				Sample ID: 1301045-02
Metals ICP				
Lead	8.0		0.67	mg/kg dry
Field ID: S-056-1218-001				Sample ID: 1301045-03
Metals ICP				
Lead	2400		0.60	mg/kg dry
Field ID: S-057-1824-001				Sample ID: 1301045-04
Metals ICP				
Lead	23		0.68	mg/kg dry
Field ID: S-058-1218-001				Sample ID: 1301045-05
Metals ICP				
Lead	1100		0.66	mg/kg dry
Field ID: S-059-0612-001				Sample ID: 1301045-06
Metals ICP				
Lead	5500		0.69	mg/kg dry
Field ID: S-060-4248-001				Sample ID: 1301048-01
Metals ICP				

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-060-4248-001				**Sample ID: 1301048-01**
Metals ICP				
Lead	9.8		0.68	mg/kg dry
Field ID: S-060-4248-002				**Sample ID: 1301048-02**
Metals ICP				
Lead	10		0.66	mg/kg dry
Field ID: S-061-0006-001				**Sample ID: 1301061-01**
Metals ICP				
Lead	3000		0.78	mg/kg dry
Field ID: S-061-0006-002				**Sample ID: 1301061-02**
Metals ICP				
Lead	2900		0.79	mg/kg dry

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

FILE

February 01, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

12/12/2012

Enclosed are the results of analyses for samples received by the laboratory between ~~01/08/2013~~ and ~~12/19/2012~~ 1/30/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

DRAFT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-001-4248-001	1212042-01	Solid	12/11/2012 15:19	12/12/2012 08:50
S-001-4248-002	1212042-02	Solid	12/11/2012 15:19	12/12/2012 08:50
S-002-1824-001	1212042-03	Solid	12/11/2012 15:22	12/12/2012 08:50
S-003-1218-001	1212042-04	Solid	12/11/2012 15:25	12/12/2012 08:50
S-004-7884-001	1212042-05	Solid	12/11/2012 15:30	12/12/2012 08:50
S-005-4854-001	1212042-06	Solid	12/11/2012 15:33	12/12/2012 08:50
S-006-1824-001	1212042-07	Solid	12/11/2012 15:38	12/12/2012 08:50
S-007-3642-001	1212042-08	Solid	12/11/2012 15:40	12/12/2012 08:50
S-008-1824-001	1212046-01	Solid	12/12/2012 15:47	12/13/2012 08:39
S-008-1824-002	1212046-02	Solid	12/12/2012 16:10	12/13/2012 08:39
S-009-1824-001	1212046-03	Solid	12/12/2012 15:50	12/13/2012 08:39
S-010-0612-001	1212046-04	Solid	12/12/2012 15:55	12/13/2012 08:39
S-011-0612-001	1212046-05	Solid	12/12/2012 15:58	12/13/2012 08:39
S-012-1824-001	1212046-06	Solid	12/12/2012 16:04	12/13/2012 08:39
S-013-3036-001	1212052-01	Solid	12/13/2012 15:02	12/13/2012 17:40
S-013-3036-002	1212052-02	Solid	12/13/2012 15:02	12/13/2012 17:40
S-014-3036-001	1212052-03	Solid	12/13/2012 15:17	12/13/2012 17:40
S-015-4854-001	1212062-01	Solid	12/18/2012 15:07	12/19/2012 07:40
S-015-4854-002	1212062-02	Solid	12/18/2012 15:07	12/19/2012 07:40
S-016-3036-001	1212062-03	Solid	12/18/2012 15:22	12/19/2012 07:40
S-017-0612-001	1212062-04	Solid	12/18/2012 15:31	12/19/2012 07:40
S-018-0612-001	1212062-05	Solid	12/18/2012 15:36	12/19/2012 07:40
S-019-6066-001	1301005-01	Solid	01/08/2013 12:06	01/08/2013 17:10
S-019-6066-002	1301005-02	Solid	01/08/2013 12:06	01/08/2013 17:10
S-020-6672-001	1301005-03	Solid	01/08/2013 12:11	01/08/2013 17:10
S-021-4854-001	1301005-04	Solid	01/08/2013 12:15	01/08/2013 17:10
S-022-2430-001	1301005-05	Solid	01/08/2013 12:19	01/08/2013 17:10
S-023-3642-001	1301005-06	Solid	01/08/2013 12:23	01/08/2013 17:10
S-024-1824-001	1301005-07	Solid	01/08/2013 12:26	01/08/2013 17:10

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-025-6672-001	1301005-08	Solid	01/08/2013 14:50	01/08/2013 17:10
S-026-6672-001	1301005-09	Solid	01/08/2013 15:00	01/08/2013 17:10
S-027-8490-001	1301009-01	Solid	01/10/2013 10:03	01/10/2013 15:40
S-027-8490-002	1301009-02	Solid	01/10/2013 10:03	01/10/2013 15:40
S-028-4248-001	1301009-03	Solid	01/10/2013 10:09	01/10/2013 15:40
S-029-1824-001	1301009-04	Solid	01/10/2013 10:13	01/10/2013 15:40
S-030-6066-001	1301009-05	Solid	01/10/2013 12:10	01/10/2013 15:40
S-031-3642-001	1301009-06	Solid	01/10/2013 12:16	01/10/2013 15:40
S-032-4854-001	1301011-01	Solid	01/11/2013 09:16	01/14/2013 08:20
S-032-4854-002	1301011-02	Solid	01/11/2013 09:16	01/14/2013 08:20
S-033-1824-001	1301011-03	Solid	01/11/2013 13:51	01/14/2013 08:20
S-034-0612-001	1301011-04	Solid	01/11/2013 14:42	01/14/2013 08:20
S-035-8490-001	1301016-01	Solid	01/15/2013 11:15	01/15/2013 13:50
S-035-8490-002	1301016-02	Solid	01/15/2013 11:15	01/15/2013 13:50
S-036-8490-001	1301016-03	Solid	01/15/2013 11:25	01/15/2013 13:50
S-037-2430-001	1301016-04	Solid	01/15/2013 11:30	01/15/2013 13:50
S-038-0612-001	1301016-05	Solid	01/15/2013 12:20	01/15/2013 13:50
S-039-7884-001	1301023-01	Solid	01/17/2013 08:27	01/17/2013 14:00
S-039-7884-002	1301023-02	Solid	01/17/2013 08:27	01/17/2013 14:00
S-040-1824-001	1301023-03	Solid	01/17/2013 08:25	01/17/2013 14:00
S-041-3642-001	1301027-01	Solid	01/18/2013 09:15	01/18/2013 16:27
S-041-3642-002	1301027-02	Solid	01/18/2013 09:15	01/18/2013 16:27
S-042-3642-001	1301027-03	Solid	01/18/2013 09:20	01/18/2013 16:27
S-043-1824-001	1301027-04	Solid	01/18/2013 09:25	01/18/2013 16:27
S-044-4854-001	1301027-05	Solid	01/18/2013 12:11	01/18/2013 16:27
S-045-4854-001	1301027-06	Solid	01/18/2013 12:15	01/18/2013 16:27
S-046-5460-001	1301027-07	Solid	01/18/2013 13:55	01/18/2013 16:27
S-047-6672-001	1301027-08	Solid	01/18/2013 14:00	01/18/2013 16:27
S-048-4854-001	1301035-01	Solid	01/23/2013 11:27	01/23/2013 17:46

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-048-4854-002	1301035-02	Solid	01/23/2013 11:27	01/23/2013 17:46
S-049-4248-001	1301038-01	Solid	01/24/2013 09:20	01/24/2013 12:30
S-049-4248-002	1301038-02	Solid	01/24/2013 09:20	01/24/2013 12:30
S-050-1218-001	1301038-03	Solid	01/24/2013 09:27	01/24/2013 12:30
S-051-0612-001	1301038-04	Solid	01/24/2013 09:40	01/24/2013 12:30
S-052-1218-001	1301038-05	Solid	01/24/2013 09:55	01/24/2013 12:30
S-053-0006-001	1301038-06	Solid	01/24/2013 10:08	01/24/2013 12:30
S-054-0006-001	1301038-07	Solid	01/24/2013 11:15	01/24/2013 12:30
S-055-4248-001	1301045-01	Solid	01/24/2013 14:15	01/25/2013 12:10
S-055-4248-002	1301045-02	Solid	01/24/2013 14:15	01/25/2013 12:10
S-056-1218-001	1301045-03	Solid	01/24/2013 15:00	01/25/2013 12:10
S-057-1824-001	1301045-04	Solid	01/24/2013 15:20	01/25/2013 12:10
S-058-1218-001	1301045-05	Solid	01/24/2013 15:25	01/25/2013 12:10
S-059-0612-001	1301045-06	Solid	01/24/2013 15:30	01/25/2013 12:10
S-060-4248-001	1301048-01	Solid	01/25/2013 13:37	01/25/2013 15:45
S-060-4248-002	1301048-02	Solid	01/25/2013 13:37	01/25/2013 15:45
S-061-0006-001	1301061-01	Solid	01/30/2013 10:50	01/30/2013 13:40
S-061-0006-002	1301061-02	Solid	01/30/2013 10:50	01/30/2013 13:40

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-001-4248-001				**Sample ID: 1212042-01**	
Metals ICP					
Lead	210		0.76	mg/kg dry	B212088
Field ID: DRAFT: S-001-4248-002				**Sample ID: 1212042-02**	
Metals ICP					
Lead	240		0.75	mg/kg dry	B212088
Field ID: DRAFT: S-002-1824-001				**Sample ID: 1212042-03**	
Metals ICP					
Lead	270		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-003-1218-001				**Sample ID: 1212042-04**	
Metals ICP					
Lead	630		0.85	mg/kg dry	B212088
Field ID: DRAFT: S-004-7884-001				**Sample ID: 1212042-05**	
Metals ICP					
Lead	1600		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-005-4854-001				**Sample ID: 1212042-06**	
Metals ICP					
Lead	480		0.79	mg/kg dry	B212088
Field ID: DRAFT: S-006-1824-001				**Sample ID: 1212042-07**	
Metals ICP					
Lead	790		0.77	mg/kg dry	B212088

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-007-3642-001			**Sample ID: 1212042-08**		
Metals ICP					
Lead	590		0.79	mg/kg dry	B212088
Field ID: DRAFT: S-008-1824-001			**Sample ID: 1212046-01**		
Metals ICP					
Lead	170		0.88	mg/kg dry	B212106
Field ID: DRAFT: S-008-1824-002			**Sample ID: 1212046-02**		
Metals ICP					
Lead	56		0.74	mg/kg dry	B212106
Field ID: DRAFT: S-009-1824-001			**Sample ID: 1212046-03**		
Metals ICP					
Lead	81		0.78	mg/kg dry	B212106
Field ID: DRAFT: S-010-0612-001			**Sample ID: 1212046-04**		
Metals ICP					
Lead	580		0.76	mg/kg dry	B212106
Field ID: DRAFT: S-011-0612-001			**Sample ID: 1212046-05**		
Metals ICP					
Lead	78		0.72	mg/kg dry	B212106
Field ID: DRAFT: S-012-1824-001			**Sample ID: 1212046-06**		
Metals ICP					
Lead	16		0.82	mg/kg dry	B212106

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-001-4248-001				**Sample ID: 1212042-01**	
Metals ICP					
Lead	210		0.76	mg/kg dry	B212088
Field ID: DRAFT: S-001-4248-002				**Sample ID: 1212042-02**	
Metals ICP					
Lead	240		0.75	mg/kg dry	B212088
Field ID: DRAFT: S-002-1824-001				**Sample ID: 1212042-03**	
Metals ICP					
Lead	270		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-003-1218-001				**Sample ID: 1212042-04**	
Metals ICP					
Lead	630		0.85	mg/kg dry	B212088
Field ID: DRAFT: S-004-7884-001				**Sample ID: 1212042-05**	
Metals ICP					
Lead	1600		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-005-4854-001				**Sample ID: 1212042-06**	
Metals ICP					
Lead	480		0.79	mg/kg dry	B212088
Field ID: DRAFT: S-006-1824-001				**Sample ID: 1212042-07**	
Metals ICP					
Lead	790		0.77	mg/kg dry	B212088

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-007-3642-001			**Sample ID: 1212042-08**		
Metals ICP					
Lead	590		0.79	mg/kg dry	B212088
Field ID: DRAFT: S-008-1824-001			**Sample ID: 1212046-01**		
Metals ICP					
Lead	170		0.88	mg/kg dry	B212106
Field ID: DRAFT: S-008-1824-002			**Sample ID: 1212046-02**		
Metals ICP					
Lead	56		0.74	mg/kg dry	B212106
Field ID: DRAFT: S-009-1824-001			**Sample ID: 1212046-03**		
Metals ICP					
Lead	81		0.78	mg/kg dry	B212106
Field ID: DRAFT: S-010-0612-001			**Sample ID: 1212046-04**		
Metals ICP					
Lead	580		0.76	mg/kg dry	B212106
Field ID: DRAFT: S-011-0612-001			**Sample ID: 1212046-05**		
Metals ICP					
Lead	78		0.72	mg/kg dry	B212106
Field ID: DRAFT: S-012-1824-001			**Sample ID: 1212046-06**		
Metals ICP					
Lead	16		0.82	mg/kg dry	B212106

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-013-3036-001				**Sample ID: 1212052-01**	
Metals ICP					
Lead	190		0.73	mg/kg dry	B212107
Field ID: DRAFT: S-013-3036-002				**Sample ID: 1212052-02**	
Metals ICP					
Lead	150		0.76	mg/kg dry	B212107
Field ID: DRAFT: S-014-3036-001				**Sample ID: 1212052-03**	
Metals ICP					
Lead	18		0.69	mg/kg dry	B212107
Field ID: DRAFT: S-015-4854-001				**Sample ID: 1212062-01**	
Metals ICP					
Lead	80		0.65	mg/kg dry	B212150
Field ID: DRAFT: S-015-4854-002				**Sample ID: 1212062-02**	
Metals ICP					
Lead	68		0.64	mg/kg dry	B212150
Field ID: DRAFT: S-016-3036-001				**Sample ID: 1212062-03**	
Metals ICP					
Lead	9.1		0.64	mg/kg dry	B212150
Field ID: DRAFT: S-017-0612-001				**Sample ID: 1212062-04**	
Metals ICP					
Lead	71		0.65	mg/kg dry	B212150

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-018-0612-001			**Sample ID: 1212062-05**		
Metals ICP					
Lead	1200		0.64	mg/kg dry	B212150
Field ID: DRAFT: S-019-6066-001			**Sample ID: 1301005-01**		
Metals ICP					
Lead	9.2		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-019-6066-002			**Sample ID: 1301005-02**		
Metals ICP					
Lead	6.0		0.70	mg/kg dry	B301033
Field ID: DRAFT: S-020-6672-001			**Sample ID: 1301005-03**		
Metals ICP					
Lead	5.9		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-021-4854-001			**Sample ID: 1301005-04**		
Metals ICP					
Lead	8.2		0.69	mg/kg dry	B301033
Field ID: DRAFT: S-022-2430-001			**Sample ID: 1301005-05**		
Metals ICP					
Lead	36		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-023-3642-001			**Sample ID: 1301005-06**		
Metals ICP					
Lead	290		0.66	mg/kg dry	B301033

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-024-1824-001			**Sample ID: 1301005-07**		
Metals ICP					
Lead	890		0.66	mg/kg dry	B301033
Field ID: DRAFT: S-025-6672-001			**Sample ID: 1301005-08**		
Metals ICP					
Lead	420		0.76	mg/kg dry	B301033
Field ID: DRAFT: S-026-6672-001			**Sample ID: 1301005-09**		
Metals ICP					
Lead	95		0.73	mg/kg dry	B301033
Field ID: DRAFT: S-027-8490-001			**Sample ID: 1301009-01**		
Metals ICP					
Lead	300		0.76	mg/kg dry	B301045
Field ID: DRAFT: S-027-8490-002			**Sample ID: 1301009-02**		
Metals ICP					
Lead	290		0.71	mg/kg dry	B301045
Field ID: DRAFT: S-028-4248-001			**Sample ID: 1301009-03**		
Metals ICP					
Lead	140		0.69	mg/kg dry	B301045
Field ID: DRAFT: S-029-1824-001			**Sample ID: 1301009-04**		
Metals ICP					
Lead	9.8		0.65	mg/kg dry	B301045

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-030-6066-001			**Sample ID: 1301009-05**		
Metals ICP					
Lead	8.0		0.66	mg/kg dry	B301045
Field ID: DRAFT: S-031-3642-001			**Sample ID: 1301009-06**		
Metals ICP					
Lead	460		0.66	mg/kg dry	B301045
Field ID: DRAFT: S-032-4854-001			**Sample ID: 1301011-01**		
Metals ICP					
Lead	4.5		0.77	mg/kg dry	B301053
Field ID: DRAFT: S-032-4854-002			**Sample ID: 1301011-02**		
Metals ICP					
Lead	4.4		0.78	mg/kg dry	B301053
Field ID: DRAFT: S-033-1824-001			**Sample ID: 1301011-03**		
Metals ICP					
Lead	32000		3.8	mg/kg dry	B301053
Field ID: DRAFT: S-034-0612-001			**Sample ID: 1301011-04**		
Metals ICP					
Lead	1900		0.78	mg/kg dry	B301053
Field ID: DRAFT: S-035-8490-001			**Sample ID: 1301016-01**		
Metals ICP					
Lead	7.2		0.79	mg/kg dry	B301061

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-035-8490-002			**Sample ID: 1301016-02**		
Metals ICP					
Lead	7.2		0.76	mg/kg dry	B301061
Field ID: DRAFT: S-036-8490-001			**Sample ID: 1301016-03**		
Metals ICP					
Lead	18		0.76	mg/kg dry	B301061
Field ID: DRAFT: S-037-2430-001			**Sample ID: 1301016-04**		
Metals ICP					
Lead	95000		25	mg/kg dry	B301061
Field ID: DRAFT: S-038-0612-001			**Sample ID: 1301016-05**		
Metals ICP					
Lead	64		0.79	mg/kg dry	B301061
Field ID: DRAFT: S-039-7884-001			**Sample ID: 1301023-01**		
Metals ICP					
Lead	7.1		0.72	mg/kg dry	B301068
Field ID: DRAFT: S-039-7884-002			**Sample ID: 1301023-02**		
Metals ICP					
Lead	6.8		0.73	mg/kg dry	B301068
Field ID: DRAFT: S-040-1824-001			**Sample ID: 1301023-03**		
Metals ICP					
Lead	13000		8.3	mg/kg dry	B301068

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-041-3642-001				**Sample ID: 1301027-01**	
Metals ICP					
Lead	21		0.72	mg/kg dry	B301080
Field ID: DRAFT: S-041-3642-002				**Sample ID: 1301027-02**	
Metals ICP					
Lead	20		0.74	mg/kg dry	B301080
Field ID: DRAFT: S-042-3642-001				**Sample ID: 1301027-03**	
Metals ICP					
Lead	210		0.73	mg/kg dry	B301080
Field ID: DRAFT: S-043-1824-001				**Sample ID: 1301027-04**	
Metals ICP					
Lead	820		0.73	mg/kg dry	B301080
Field ID: DRAFT: S-044-4854-001				**Sample ID: 1301027-05**	
Metals ICP					
Lead	57		0.75	mg/kg dry	B301080
Field ID: DRAFT: S-045-4854-001				**Sample ID: 1301027-06**	
Metals ICP					
Lead	6.9		0.76	mg/kg dry	B301080
Field ID: DRAFT: S-046-5460-001				**Sample ID: 1301027-07**	
Metals ICP					
Lead	40		0.74	mg/kg dry	B301080

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-047-6672-001			**Sample ID: 1301027-08**		
Metals ICP					
Lead	8.0		0.74	mg/kg dry	B301080
Field ID: DRAFT: S-048-4854-001			**Sample ID: 1301035-01**		
Metals ICP					
Lead	7.2		0.74	mg/kg dry	B301097
Field ID: DRAFT: S-048-4854-002			**Sample ID: 1301035-02**		
Metals ICP					
Lead	8.0		0.76	mg/kg dry	B301097
Field ID: DRAFT: S-049-4248-001			**Sample ID: 1301038-01**		
Metals ICP					
Lead	240		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-049-4248-002			**Sample ID: 1301038-02**		
Metals ICP					
Lead	250		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-050-1218-001			**Sample ID: 1301038-03**		
Metals ICP					
Lead	550		0.79	mg/kg dry	B301103
Field ID: DRAFT: S-051-0612-001			**Sample ID: 1301038-04**		
Metals ICP					
Lead	320		0.75	mg/kg dry	B301103

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-052-1218-001				**Sample ID: 1301038-05**	
Metals ICP					
Lead	180		0.75	mg/kg dry	B301103
Field ID: DRAFT: S-053-0006-001				**Sample ID: 1301038-06**	
Metals ICP					
Lead	210		0.74	mg/kg dry	B301103
Field ID: DRAFT: S-054-0006-001				**Sample ID: 1301038-07**	
Metals ICP					
Lead	5600		0.77	mg/kg dry	B301103
Field ID: DRAFT: S-055-4248-001				**Sample ID: 1301045-01**	
Metals ICP					
Lead	8.1		0.67	mg/kg dry	B301115
Field ID: DRAFT: S-055-4248-002				**Sample ID: 1301045-02**	
Metals ICP					
Lead	8.0		0.67	mg/kg dry	B301115
Field ID: DRAFT: S-056-1218-001				**Sample ID: 1301045-03**	
Metals ICP					
Lead	2400		0.60	mg/kg dry	B301115
Field ID: DRAFT: S-057-1824-001				**Sample ID: 1301045-04**	
Metals ICP					
Lead	23		0.68	mg/kg dry	B301115

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-058-1218-001			**Sample ID: 1301045-05**		
Metals ICP					
Lead	1100		0.66	mg/kg dry	B301115
Field ID: DRAFT: S-059-0612-001			**Sample ID: 1301045-06**		
Metals ICP					
Lead	5500		0.69	mg/kg dry	B301115
Field ID: DRAFT: S-060-4248-001			**Sample ID: 1301048-01**		
Metals ICP					
Lead	9.8		0.68	mg/kg dry	B301115
Field ID: DRAFT: S-060-4248-002			**Sample ID: 1301048-02**		
Metals ICP					
Lead	10		0.66	mg/kg dry	B301115
Field ID: DRAFT: S-061-0006-001			**Sample ID: 1301061-01**		
Metals ICP					
Lead	3000		0.78	mg/kg dry	B301149
Field ID: DRAFT: S-061-0006-002			**Sample ID: 1301061-02**		
Metals ICP					
Lead	2900		0.79	mg/kg dry	B301149

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212088									
Blank (B212088-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B212088-MS1)	**Source: 1212042-01**								
Lead	195	0.74	mg/kg dry	18.39	215	NR	75-125		
Matrix Spike Dup (B212088-MSD1)	**Source: 1212042-01**								
Lead	200	0.74	mg/kg dry	18.39	215	NR	75-125	2.70	10
Reference (B212088-SRM1)									
Lead	79.5	0.74	mg/kg wet	76.90		103	81.3-118.7		
Reference (B212088-SRM2)									
Lead	77.0	0.75	mg/kg wet	76.90		100	81.3-118.7		
Batch B212106									
Blank (B212106-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B212106-MS1)	**Source: 1212046-01**								
Lead	109	0.86	mg/kg dry	26.94	165	NR	75-125		
Matrix Spike Dup (B212106-MSD1)	**Source: 1212046-01**								
Lead	110	0.86	mg/kg dry	26.94	165	NR	75-125	1.38	10
Reference (B212106-SRM1)									
Lead	70.8	0.78	mg/kg wet	75.11		94.3	81.3-118.7		

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212106									
Reference (B212106-SRM2)									
Lead	70.0	0.76	mg/kg wet	72.71		96.2	81.3-118.7		
Batch B212107									
Blank (B212107-BLK1)									
Lead	— U	0.080	mg/kg wet						
Matrix Spike (B212107-MS1)	Source: 1212052-01								
Lead	154	0.72	mg/kg dry	17.89	194	NR	75-125		
Matrix Spike Dup (B212107-MSD1)	Source: 1212052-01								
Lead	162	0.72	mg/kg dry	17.89	194	NR	75-125	4.64	10
Reference (B212107-SRM1)									
Lead	66.4	0.73	mg/kg wet	76.90		86.4	81.3-118.7		
Reference (B212107-SRM2)									
Lead	67.0	0.73	mg/kg wet	76.90		87.1	81.3-118.7		
Batch B212150									
Blank (B212150-BLK1)									
Lead	— U	0.080	mg/kg wet						
Matrix Spike (B212150-MS1)	Source: 1212062-01								
Lead	116	0.65	mg/kg dry	16.36	80.3	216	75-125		

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212150									
Matrix Spike Dup (B212150-MSD1)	**Source: 1212062-01**								
Lead	118	3.3	mg/kg dry	16.36	80.3	228	75-125	1.61	10
Reference (B212150-SRM1)									
Lead	69.0	0.77	mg/kg wet	76.90		89.7	81.3-118.7		
Reference (B212150-SRM2)									
Lead	67.3	0.77	mg/kg wet	76.90		87.5	81.3-118.7		
Batch B301033									
Blank (B301033-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B301033-MS1)	**Source: 1301005-01**								
Lead	21.8	0.67	mg/kg dry	16.83	9.19	75.2	75-125		
Matrix Spike Dup (B301033-MSD1)	**Source: 1301005-01**								
Lead	23.2	0.67	mg/kg dry	16.83	9.19	83.0	75-125	5.87	10
Reference (B301033-SRM1)									
Lead	74.1	0.73	mg/kg wet	76.90		96.4	81.3-118.7		
Reference (B301033-SRM2)									
Lead	71.5	0.75	mg/kg wet	76.90		93.0	81.3-118.7		
Batch B301045									
Blank (B301045-BLK1)									
Lead	--- U	0.080	mg/kg wet						

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301045									
Matrix Spike (B301045-MS1)	**Source: 1301009-01**								
Lead	315	0.74	mg/kg dry	18.54	297	96.4	75-125		
Matrix Spike Dup (B301045-MSD1)	**Source: 1301009-01**								
Lead	330	3.7	mg/kg dry	18.54	297	177	75-125	4.64	10
Reference (B301045-SRM1)									
Lead	72.3	0.75	mg/kg wet	76.90		94.0	81.3-118.7		
Reference (B301045-SRM2)									
Lead	70.8	0.73	mg/kg wet	76.90		92.1	81.3-118.7		
Batch B301053									
Blank (B301053-BLK1)									
Lead	— U	0.79	mg/kg wet						
Matrix Spike (B301053-MS1)	**Source: 1301011-01**								
Lead	22.5	0.76	mg/kg dry	18.94	4.50	95.0	75-125		
Matrix Spike Dup (B301053-MSD1)	**Source: 1301011-01**								
Lead	22.7	3.8	mg/kg dry	18.94	4.50	95.9	75-125	0.797	10
Reference (B301053-SRM1)									
Lead	70.8	0.80	mg/kg wet	76.90		92.1	81.3-118.7		
Reference (B301053-SRM2)									
Lead	69.6	0.79	mg/kg wet	76.90		90.6	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301061									
Blank (B301061-BLK1)									
Lead	--- U	0.79	mg/kg wet						
Matrix Spike (B301061-MS1)	**Source: 1301016-01**								
Lead	25.7	0.79	mg/kg dry	19.63	7.24	94.0	75-125		
Matrix Spike Dup (B301061-MSD1)	**Source: 1301016-01**								
Lead	25.1	3.9	mg/kg dry	19.63	7.24	91.0	75-125	2.30	10
Reference (B301061-SRM1)									
Lead	70.6	0.80	mg/kg wet	76.90		91.8	81.3-118.7		
Reference (B301061-SRM2)									
Lead	69.8	0.80	mg/kg wet	76.90		90.7	81.3-118.7		
Batch B301068									
Blank (B301068-BLK1)									
Lead	--- U	0.78	mg/kg wet						
Matrix Spike (B301068-MS1)	**Source: 1301023-01**								
Lead	24.0	0.72	mg/kg dry	18.12	7.06	93.5	75-125		
Matrix Spike Dup (B301068-MSD1)	**Source: 1301023-01**								
Lead	25.1	3.6	mg/kg dry	18.12	7.06	99.4	75-125	4.34	10
Reference (B301068-SRM1)									
Lead	73.2	0.80	mg/kg wet	76.90		95.2	81.3-118.7		

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301068									
Reference (B301068-SRM2)									
Lead	73.3	0.80	mg/kg wet	76.90		95.3	81.3-118.7		
Batch B301080									
Blank (B301080-BLK1)									
Lead	— U	0.79	mg/kg wet						
Matrix Spike (B301080-MS1)	Source: 1301027-01								
Lead	41.2	0.72	mg/kg dry	18.12	21.5	109	75-125		
Matrix Spike Dup (B301080-MSD1)	Source: 1301027-01								
Lead	44.0	3.6	mg/kg dry	18.12	21.5	124	75-125	6.39	10
Reference (B301080-SRM1)									
Lead	75.0	0.80	mg/kg wet	76.90		97.6	81.3-118.7		
Reference (B301080-SRM2)									
Lead	72.3	0.80	mg/kg wet	76.90		94.0	81.3-118.7		
Batch B301097									
Blank (B301097-BLK1)									
Lead	— U	0.79	mg/kg wet						
Matrix Spike (B301097-MS1)	Source: 1301035-01								
Lead	29.2	0.72	mg/kg dry	18.09	7.22	122	75-125		

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301097									
Matrix Spike Dup (B301097-MSD1)		**Source: 1301035-01**							
Lead	29.5	3.6	mg/kg dry	18.09	7.22	123	75-125	0.971	10
Reference (B301097-SRM1)									
Lead	74.1	0.80	mg/kg wet	76.90		96.3	81.3-118.7		
Reference (B301097-SRM2)									
Lead	74.0	0.80	mg/kg wet	76.90		96.2	81.3-118.7		
Batch B301103									
Blank (B301103-BLK1)									
Lead	--- U	0.80	mg/kg wet						
Matrix Spike (B301103-MS1)		**Source: 1301038-01**							
Lead	496	0.79	mg/kg dry	19.85	241	NR	75-125		
Matrix Spike Dup (B301103-MSD1)		**Source: 1301038-01**							
Lead	487	4.0	mg/kg dry	19.85	241	NR	75-125	1.71	10
Reference (B301103-SRM1)									
Lead	75.1	0.80	mg/kg wet	76.81		97.8	81.3-118.7		
Reference (B301103-SRM2)									
Lead	73.5	0.80	mg/kg wet	76.67		95.9	81.3-118.7		
Batch B301115									
Blank (B301115-BLK1)									
Lead	--- U	0.080	mg/kg wet						

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301115									
Matrix Spike (B301115-MS1)		**Source: 1301045-01**							
Lead	23.8	0.68	mg/kg dry	16.90	8.10	93.0	75-125		
Matrix Spike Dup (B301115-MSD1)		**Source: 1301045-01**							
Lead	25.0	0.68	mg/kg dry	16.90	8.10	99.8	75-125	4.75	10
Reference (B301115-SRM1)									
Lead	75.0	0.76	mg/kg wet	76.90		97.5	81.3-118.7		
Reference (B301115-SRM2)									
Lead	67.8	0.75	mg/kg wet	76.90		88.2	81.3-118.7		
Batch B301149									
Blank (B301149-BLK1)									
Lead	—U	0.78	mg/kg wet						
Matrix Spike (B301149-MS1)		**Source: 1301061-01**							
Lead	3010	0.78	mg/kg dry	19.45	3050	NR	75-125		
Matrix Spike Dup (B301149-MSD1)		**Source: 1301061-01**							
Lead	3060	3.9	mg/kg dry	19.45	3050	45.9	75-125	1.47	10
Reference (B301149-SRM1)									
Lead	73.6	0.80	mg/kg wet	76.90		95.7	81.3-118.7		
Reference (B301149-SRM2)									
Lead	71.6	0.79	mg/kg wet	76.90		93.1	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: January 10, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

PARTIAL

Comments

* Partial Draft generated with WO# 130 1005 SD 1/10/13

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	ZUBAIR F. ALI	1/10/13
	Special Projects Coord.	John Birri	1/14/13
	Laboratory QAO	Sumy Cherukara	1/17/13
	Laboratory Branch Chief	John Bourbon	for JMB 1/10/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

	File Core Data	√
1	Project Report – 1 Copy	✓
2	Project Narrative – 1 Copy	✓
3	Analytical Request Form (ARF)	✓
4	External Chain of Custody Forms	✓
5	Shipping Forms/Air Bills	N/A
6	Sample Acceptance Checklist(s)	✓
7	Internal Chain of Custody Form(s)	N/A
8	OSCAR Sample Tracking Log	✓
9	Project Correspondence	✓
	Area Specific Raw Data	
11	Organics	
	VOAs	
	NVOAs	
	PCBs	
	Pesticides	
	Haloacetic Acids	
	MEE	
12	Metals	
a	*ICP-AES*	✓
	ICP-MS	
	CVAAS – Mercury	
	DMA - Mercury	

		√
13	Sanitary Chemistry	
14	Microbiology	
15	Biology	

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:	Date Cancelled:

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218	Start: ~~10/3/2012~~ 12/19/12
State:	NY	Action Code:	Removal - RV	Finish: ~~11/3/2012~~ 1/3/12	

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark	First Name:	Smita	Start: ~~10/3/2012~~ 12/20/12	
Last Name:	Gallo	Last Name:	Sumbaly	Finish: ~~11/3/2012~~ 1/3/12	
		Phone #:	7325854410		
		Organization:	RST 2	Saturday Delivery?	☐ Yes

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?:	☐ Yes
Date of QAPP Approval:	not approved	(e.g. PRP/Fed Facility)	Labs Used: (PRP/FF)

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
		Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Bin 11/27/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	E.P.A.
150		Air	Total Lead	14 days	SW 846 Method No. 7082	—

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit: 00	Site Spill ID: A218	Start: ~~10/3/2012~~ 10/15/12	
State:	NY	Action Code:	Removal - RV	Finish: ~~11/2/2012~~ 11/30/12	

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ● After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark (908-420-7655)	First Name:	Smita	Start: ~~10/3/2012~~ 10/15/12	
Last Name:	Gallo	Last Name:	Sumbaly	Finish: ~~11/2/2012~~ 11/30/12	
		Phone #:	7325854410	Saturday Delivery?	☐ Yes
		Organization:	RST 2		

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?: (e.g. PRP/Fed Facility)	☐ Yes
Date of QAPP Approval:	not approved	Labs Used: (PRP/FF)	

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
	GALLO.MARK@EPA.GOV	Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):
24-48 hours turnaround time require for the air samplespreliminary data and 24 hours TAT for the soil samples preliminary data (48)
14 days TAT for validated data package require.
approximately 10 soils samples will be submitted per day.
↳ MAXIMUM

J Pin 10/3/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EPA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

USEPA Contract No. EP-W-06-072
Hand delivered: 1/8/13

CHAIN OF CUSTODY RECORD
Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-010813-145143-0021
Lab: DESA
Lab Contact: John Birri

Lab #	Sample #	Location	CLP Sample #	Collected	Start_Time *	Stop_Time	Matrix	Volume	Numb Cont	Container	Analyses	Preservative
130005-01	S-019-6066-001	S-019		1/8/2013	12:06		Soil		1	4 oz glass jar	Lead	4 C
-02	S-019-6066-002	S-019		1/8/2013	12:06		Soil		1	4 oz glass jar	Lead	4 C
-03	S-020-6672-001	S-020		1/8/2013	12:11		Soil		1	4 oz glass jar	Lead	4 C
-04	S-021-4854-001	S-021		1/8/2013	12:15		Soil		1	4 oz glass jar	Lead	4 C
-05	S-022-2430-001	S-022		1/8/2013	12:19		Soil		1	4 oz glass jar	Lead	4 C
-06	S-023-3642-001	S-023		1/8/2013	12:23		Soil		1	4 oz glass jar	Lead	4 C
-07	S-024-1824-001	S-024		1/8/2013	12:26		Soil		1	4 oz glass jar	Lead	4 C
-08	S-025-6672-001	S-025		1/8/2013	14:50		Soil		1	4 oz glass jar	Lead	4 C
-09	S-026-6672-001	S-026		1/8/2013	15:00		Soil		1	4 oz glass jar	Lead	4 C

A. M. 1/8/13

* Collection time only indicated on sample label, Collection time taken from sample label. AM 1/8/13

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	1/8/13								1/8/13	17:10

Temp = 4.9°C on ice AM 1/8/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301005

Printed: 1/8/2013 5:37:49PM

Project: Jewett White Lead - 1212042 **Client:** Weston Solutions Inc.
Project Number: 1212042 **Project Due Date:** 01/10/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due: 01/10/2013 00:00 (2 day TAT) Tracking No:
Received By: Zubair Ali Date Received: 01/08/2013 17:10
Logged In By: Zubair Ali Date Logged In: 01/08/2013 17:18

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	~~Yes~~ No		

Red Cooler at Temp of 5 C

EMY 8/13

Analysis	Analysis Due Date	Hold Time
1301005-01 S-019-6066-001 [Solid] Sampled 01/08/2013 12:06 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-02 S-019-6066-002 [Solid] Sampled 01/08/2013 12:06 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-03 S-020-6672-001 [Solid] Sampled 01/08/2013 12:11 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-04 S-021-4854-001 [Solid] Sampled 01/08/2013 12:15 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-05 S-022-2430-001 [Solid] Sampled 01/08/2013 12:19 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301005

Printed: 1/8/2013 5:37:49PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/10/2013

Analysis	Analysis Due Date	Hold Time
1301005-06 S-023-3642-001 [Solid] Sampled 01/08/2013 12:23 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-07 S-024-1824-001 [Solid] Sampled 01/08/2013 12:26 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-08 S-025-6672-001 [Solid] Sampled 01/08/2013 14:50 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-09 S-026-6672-001 [Solid] Sampled 01/08/2013 15:00 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180

Reviewed By

1/8/13
Date

01/08/2013

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/08/2013 17:10	Project Name: Jewett White Lead - 1212042	Work Order #: 1301005 # of Samples: 9	
Report Date: 01/08/2013 17:22	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 9	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(9 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

Jewett White Lead - 1212042

Zubair Ali to: William Rickert, Renee Lettieri, Corrine Spinks 01/08/2013 05:54 PM
Cc: Erica McNally, Michelle Schwartz, Lisa Brassell

Zubair Ali	Jewett White Lead - 1212042

FYI

All

Jewett White Lead 48 hour TAT is logged-in on 01/08/2013 .

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/08/2013 17:10	Project Name: Jewett White Lead - 1212042	Work Order #: 1301005 # of Samples: 9	
Report Date: 01/08/2013 17:22	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 9	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(9 Solid)

Zubair Fakhir Ali
Alion Science and Technology
ESAT Contract No. EP-W-07-083
732-321-4479

Jewett White Lead - 1212042

Zubair Ali to: John Birri, Ness Tirol 01/08/2013 05:37 PM

Cc: Michelle Schwartz, Erica McNally, Lisa Brassell, Yelena Khusid, Roland Recto

Zubair Ali	Jewett White Lead - 1212042

John/Ness

Lab received samples from Jewett White Lead site , hand delivered this evening:

All sample collection times are only indicated on sample label, but not on COC,

All sample collection times are taken from sample label for log-in.

Please advise , if incorrect.

Thank You
Zubair Fakhir Ali
Alion Science and Technology
ESAT Contract No. EP-W-07-083
732-321-4479

Jewett White Lead

John Bourbon to: Ness Tirol, Renee Lettieri, William Rickert 01/07/2013 05:19 PM
Gregory Santacroce, Ness Tirol, John Birri, John Birri, Ness Tirol,
Cc: Yelena Khusid, John Johnson, Vyomesh Parekh, Erica McNally,
Zubair Ali, Sumy Cherukara, Michelle Schwartz, Lisa Brassell

John Bourbon	Jewett White Lead

Mark Gallo just called. Sampling will resume on Tuesday, 1/8/13. They are expecting to collect 4 to 8 samples for delivery on Tuesday evening, 5:30 pm, and then again on Wednesday for delivery on Wednesday evening, 5:30 pm. 48 hour TAT for each work order/delivery. There will likely be no sampling on Thursday and Friday but Mark will confirm on Thursday.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

January 10, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/08/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042
Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-019-6066-001	1301005-01	Solid	01/08/2013 12:06	01/08/2013 17:10
S-019-6066-002	1301005-02	Solid	01/08/2013 12:06	01/08/2013 17:10
S-020-6672-001	1301005-03	Solid	01/08/2013 12:11	01/08/2013 17:10
S-021-4854-001	1301005-04	Solid	01/08/2013 12:15	01/08/2013 17:10
S-022-2430-001	1301005-05	Solid	01/08/2013 12:19	01/08/2013 17:10
S-023-3642-001	1301005-06	Solid	01/08/2013 12:23	01/08/2013 17:10
S-024-1824-001	1301005-07	Solid	01/08/2013 12:26	01/08/2013 17:10
S-025-6672-001	1301005-08	Solid	01/08/2013 14:50	01/08/2013 17:10
S-026-6672-001	1301005-09	Solid	01/08/2013 15:00	01/08/2013 17:10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-019-6066-001			**Sample ID: 1301005-01**		
Metals ICP					
Lead	9.2		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-019-6066-002			**Sample ID: 1301005-02**		
Metals ICP					
Lead	6.0		0.70	mg/kg dry	B301033
Field ID: DRAFT: S-020-6672-001			**Sample ID: 1301005-03**		
Metals ICP					
Lead	5.9		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-021-4854-001			**Sample ID: 1301005-04**		
Metals ICP					
Lead	8.2		0.69	mg/kg dry	B301033
Field ID: DRAFT: S-022-2430-001			**Sample ID: 1301005-05**		
Metals ICP					
Lead	36		0.68	mg/kg dry	B301033
Field ID: DRAFT: S-023-3642-001			**Sample ID: 1301005-06**		
Metals ICP					
Lead	290		0.66	mg/kg dry	B301033
Field ID: DRAFT: S-024-1824-001			**Sample ID: 1301005-07**		
Metals ICP					
Lead	890		0.66	mg/kg dry	B301033

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042
Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-025-6672-001				**Sample ID: 1301005-08**	
Metals ICP					
Lead	420		0.76	mg/kg dry	B301033
Field ID: DRAFT: S-026-6672-001				**Sample ID: 1301005-09**	
Metals ICP					
Lead	95		0.73	mg/kg dry	B301033

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301033									
Blank (B301033-BLK1)									
Lead	— U	0.080	mg/kg wet						
Matrix Spike (B301033-MS1)	**Source: 1301005-01**								
Lead	21.8	0.67	mg/kg dry	16.83	9.19	75.2	75-125		
Matrix Spike Dup (B301033-MSD1)	**Source: 1301005-01**								
Lead	23.2	0.67	mg/kg dry	16.83	9.19	83.0	75-125	5.87	10
Reference (B301033-SRM1)									
Lead	74.1	0.73	mg/kg wet	76.90		96.4	81.3-118.7		
Reference (B301033-SRM2)									
Lead	71.5	0.75	mg/kg wet	76.90		93.0	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
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732-906-6886 Phone
732-906-6165 Fax

PARTIAL

January 10, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/08/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

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Condition Comments

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Comment(s):

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Data Qualifier(s):

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

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S-021-4854-001	1301005-04	Solid	01/08/2013 12:15	01/08/2013 17:10
S-022-2430-001	1301005-05	Solid	01/08/2013 12:19	01/08/2013 17:10
S-023-3642-001	1301005-06	Solid	01/08/2013 12:23	01/08/2013 17:10
S-024-1824-001	1301005-07	Solid	01/08/2013 12:26	01/08/2013 17:10
S-025-6672-001	1301005-08	Solid	01/08/2013 14:50	01/08/2013 17:10
S-026-6672-001	1301005-09	Solid	01/08/2013 15:00	01/08/2013 17:10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-019-6066-001			**Sample ID: 1301005-01**	
Metals ICP				
Lead	9.2		0.68	mg/kg dry
Field ID: S-019-6066-002			**Sample ID: 1301005-02**	
Metals ICP				
Lead	6.0		0.70	mg/kg dry
Field ID: S-020-6672-001			**Sample ID: 1301005-03**	
Metals ICP				
Lead	5.9		0.68	mg/kg dry
Field ID: S-021-4854-001			**Sample ID: 1301005-04**	
Metals ICP				
Lead	8.2		0.69	mg/kg dry
Field ID: S-022-2430-001			**Sample ID: 1301005-05**	
Metals ICP				
Lead	36		0.68	mg/kg dry
Field ID: S-023-3642-001			**Sample ID: 1301005-06**	
Metals ICP				
Lead	290		0.66	mg/kg dry
Field ID: S-024-1824-001			**Sample ID: 1301005-07**	

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-024-1824-001				**Sample ID: 1301005-07**
Metals ICP				
Lead	890		0.66	mg/kg dry
Field ID: S-025-6672-001				**Sample ID: 1301005-08**
Metals ICP				
Lead	420		0.76	mg/kg dry
Field ID: S-026-6672-001				**Sample ID: 1301005-09**
Metals ICP				
Lead	95		0.73	mg/kg dry

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: December 20, 2012

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

Comments

* Partial Draft generated with WO# 1212062 JB 12/20/12

PARTIAL

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	ZUBAIR F. ALI	12/20/12
	Special Projects Coord.	John Birri	12/22/12
	Laboratory QAO	Sunny Cherukara	11/11/13
	Laboratory Branch Chief	John Bourbon	12/20/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

	File Core Data	√			√
1	Project Report – 1 Copy	✓	13	Sanitary Chemistry	
2	Project Narrative – 1 Copy	✓			
3	Analytical Request Form (ARF)	✓			
4	External Chain of Custody Forms	✓			
5	Shipping Forms/Air Bills	N/A			
6	Sample Acceptance Checklist(s)	✓			
7	Internal Chain of Custody Form(s)	N/A			
8	OSCAR Sample Tracking Log	✓			
9	Project Correspondence	✓			
	Area Specific Raw Data				
11	**Organics**		14	**Microbiology**	
	VOAs				
	NVOAs				
	PCBs				
	Pesticides				
	Haloacetic Acids				
	MEE				
			15	**Biology**	
12	**Metals**				
	ICP-AES	✓			
	ICP-MS				
	CVAAS – Mercury				
	DMA - Mercury				

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218	Start:	~~10/3/2012~~ 12/19/12
State:	NY	Action Code:	Removal - RV	Finish:	~~11/3/2012~~ 1/3/12

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ● After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark	First Name:	Smita	Start:	~~10/3/2012~~ 12/19/12
Last Name:	Gallo	Last Name:	Sumbaly	Finish:	~~11/3/2012~~ 1/3/12
		Phone #:	7325854410		
		Organization:	RST 2	Saturday Delivery?	☐ Yes

EPA Approved QAPP?: ☐ Yes

Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used:
(PRP/FF)

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
		Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Brin 1/27/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	ERA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	—

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

REVISED

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218
State:	NY	Action Code:	Removal - RV	Start:	~~10/3/2012~~ 12/10/12
				Finish:	~~11/3/2012~~ 1/3/13

Arrival Time:
- ○ 0600-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark	First Name:	Smita	Start:	~~10/3/2012~~ 1/10/2
Last Name:	Gallo	Last Name:	Sumbaly	Finish:	~~11/3/2012~~ 1/31/2
		Phone #:	7325854410		
		Organization:	RST 2	Saturday Delivery?	☐ Yes

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?: (e.g. PRP/Fed Facility)	☐ Yes
Date of QAPP Approval:	not approved	Labs Used: (PRP/FF)	

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
		Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

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Special Requests & Reporting Requirements (attach if more space required):
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14 days TAT for validated data package require.
approximately 10 soils samples will be submitted per day.

J. Pin 11/27/12

FILE

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U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EPA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	—

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545		
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218
State:	NY	Action Code:	Removal - RV		

Sampling Dates:
Start: ~~10/3/2012~~ 10/15/12
Finish: ~~11/30/2012~~ 11/30/12

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:

First Name:	Mark (908-420-7655)
Last Name:	Gallo

Analytical Services Requestor:

First Name:	Smita
Last Name:	Sumbaly
Phone #:	7325854410
Organization:	RST 2

Proposed Shipping Dates:
Start: ~~10/3/2012~~ 10/15/12
Finish: ~~11/30/2012~~ 11/30/12

Saturday Delivery? ☐ Yes

EPA Approved QAPP?: ☐ Yes
Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used:
(PRP/FF)

E-mail for Lab Assignments:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

E-mail for Data:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com
GALLO.MARK@EPA.GOV

Address for Hard Copy:
Weston Solutions, Inc.
1090 King Georges Post Road
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Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

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24-48 hours turnaround time require for the air samplespreliminary data ~~24~~ 48 hours TAT for the soil samples preliminary data
14 days TAT for validated data package require.
approximately (10 soils samples will be submitted per day.
↳ MAXIMUM

JP 10/3/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EPA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

12/19/2012

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 12/19/2012 07:40	Project Name: Jewett White Lead - 1212042	Work Order #: 1212062 # of Samples: 5	
Report Date: 12/19/2012 07:41	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 5	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(5 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212062

Printed: 12/19/2012 9:17:17AM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 12/21/2012

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due: 12/21/2012 00:00 (2 day TAT)
Received By: Erica McNally
Logged In By: Erica McNally

Tracking No:
Date Received: 12/19/2012 07:40
Date Logged In: 12/19/2012 07:40

Sample Conditions:					
Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 5 C

Analysis	Analysis Due Date	Hold Time
1212062-01 S-015-4854-001 [Solid] Sampled 12/18/2012 15:07 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-02 S-015-4854-002 [Solid] Sampled 12/18/2012 15:07 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-03 S-016-3036-001 [Solid] Sampled 12/18/2012 15:22 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-04 S-017-0612-001 [Solid] Sampled 12/18/2012 15:31 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-05 S-018-0612-001 [Solid] Sampled 12/18/2012 15:36 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180

Reviewed By

12/19/12
Date

PRELIMINARY RESULTS

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MBAJ40

Lab Name: A4 SCIENTIFIC, INC. Contract: EPW09035

Lab Code: A4 Case No.: 43122 Mod. Ref. No.: SDG No.: MBAJ40

Matrix: Filter Lab Sample ID: 0016991-01

% Solids: Date Received: 12/14/2012

Concentration Units (**ug/L**, **ug**, or **mg/kg** dry weight): ug

CAS NO.	Analyte	Concentration	C	Q	M
7439-92-1	Lead	0.053	J		P

Color Before: WHITE Clarity Before: OPAQUE Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

USEPA Contract No. EP-W-06-072
Hand delivered: 12/18/12
CarrierName:

CHAIN OF CUSTODY RECORD
Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121812-160345-0017
Lab: DESA
Lab Contact: John Birri
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1212062-01	S-015-4854-001	S-015	12/18/2012	Soil	15:07	1	4 oz glass jar	Lead	4 C	Y
-02	S-015-4854-002	S-015	12/18/2012	Soil	15:07	1	4 oz glass jar	Lead	4 C	N
-03	S-016-3036-001	S-016	12/18/2012	Soil	15:22	1	4 oz glass jar	Lead	4 C	N
-04	S-017-0612-001	S-017	12/18/2012	Soil	15:31	1	4 oz glass jar	Lead	4 C	N
-05	S-018-0612-001	S-018	12/18/2012	Soil	15:36	1	4 oz glass jar	Lead	4 C	N
DM 12/19/12										

A. M. 12/18/12

Special Instructions:

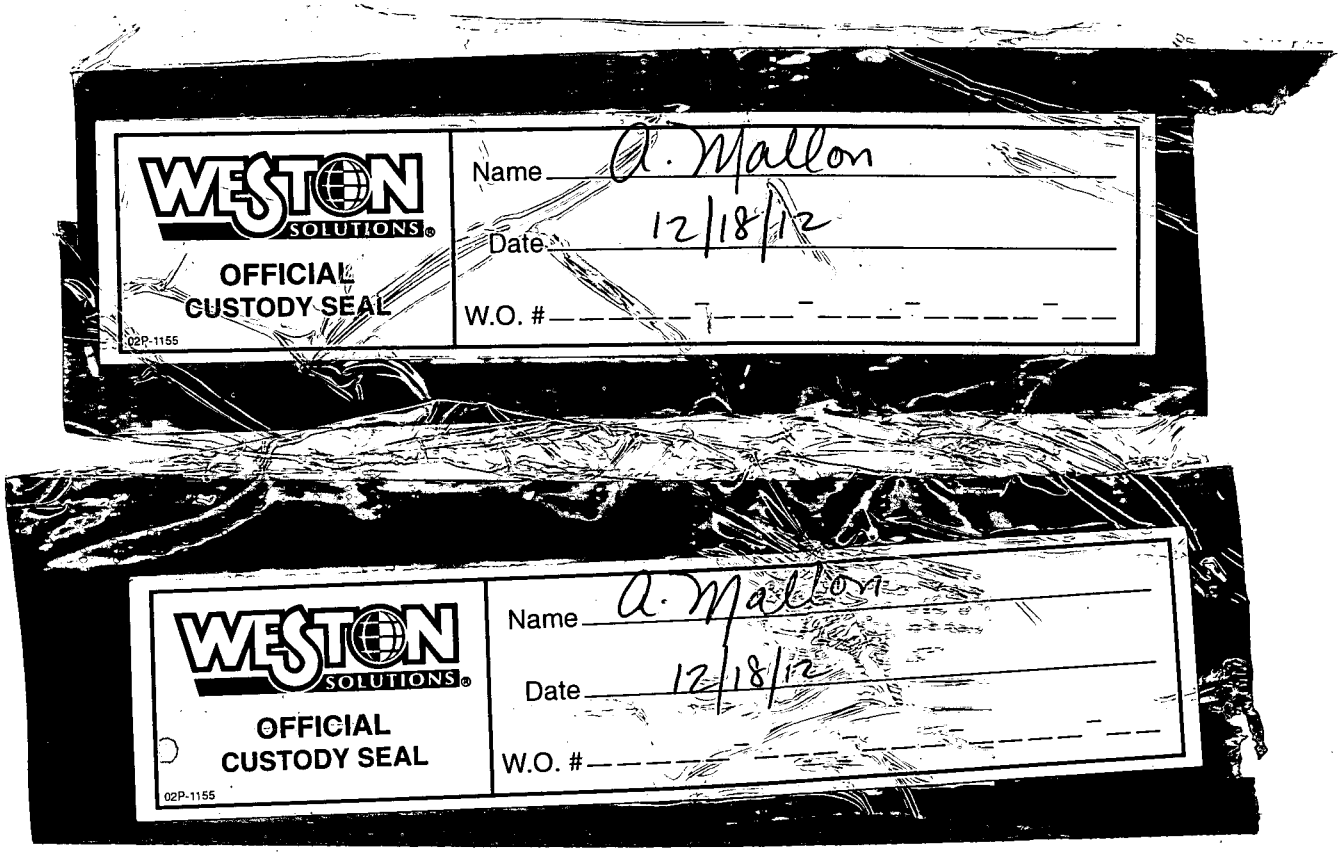
SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	12/18/12	Enid Mikelly	12/19/12	0740						

Hand delivered on ice
5.1°C CEB 12/19/12

Jewett White Lead

P-1212042



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

PARTIAL

December 20, 2012

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 12/19/2012. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-015-4854-001	1212062-01	Solid	12/18/2012 15:07	12/19/2012 07:40
S-015-4854-002	1212062-02	Solid	12/18/2012 15:07	12/19/2012 07:40
S-016-3036-001	1212062-03	Solid	12/18/2012 15:22	12/19/2012 07:40
S-017-0612-001	1212062-04	Solid	12/18/2012 15:31	12/19/2012 07:40
S-018-0612-001	1212062-05	Solid	12/18/2012 15:36	12/19/2012 07:40

12/20/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-015-4854-001				**Sample ID: 1212062-01**	
Metals ICP					
Lead	80		0.65	mg/kg dry	B212150
Field ID: DRAFT: S-015-4854-002				**Sample ID: 1212062-02**	
Metals ICP					
Lead	68		0.64	mg/kg dry	B212150
Field ID: DRAFT: S-016-3036-001				**Sample ID: 1212062-03**	
Metals ICP					
Lead	9.1		0.64	mg/kg dry	B212150
Field ID: DRAFT: S-017-0612-001				**Sample ID: 1212062-04**	
Metals ICP					
Lead	71		0.65	mg/kg dry	B212150
Field ID: DRAFT: S-018-0612-001				**Sample ID: 1212062-05**	
Metals ICP					
Lead	1200		0.64	mg/kg dry	B212150

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212150									
Blank (B212150-BLK1)									
Lead	— U	0.080	mg/kg wet						
Matrix Spike (B212150-MS1)	**Source: 1212062-01**								
Lead	116	0.65	mg/kg dry	16.36	80.3	216	75-125		
Matrix Spike Dup (B212150-MSD1)	**Source: 1212062-01**								
Lead	118	3.3	mg/kg dry	16.36	80.3	228	75-125	1.61	10
Reference (B212150-SRM1)									
Lead	69.0	0.77	mg/kg wet	76.90		89.7	81.3-118.7		
Reference (B212150-SRM2)									
Lead	67.3	0.77	mg/kg wet	76.90		87.5	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Report Date: December 14, 2012

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

Comments

* Partial Draft Report for Work orders 1212046 & 1212052
* Paperwork included for Work orders 1212042, 1212046 & 1212052

- Partial report sent 1212046 + 5 on 12/14/12

PARTIAL

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	Erica McNally	Erica L. McNally 12/14/12
	Special Projects Coord.	John Birri	J. Birri 12/20/12
	Laboratory QAO	Sumy Cherukara	1/11/13
	Laboratory Branch Chief	John Bourbon	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

	File Core Data	√
1	Project Report – 1 Copy	✓
2	Project Narrative – 1 Copy	
3	Analytical Request Form (ARF)	✓
4	External Chain of Custody Forms	✓
5	Shipping Forms/Air Bills	NA
6	Sample Acceptance Checklist(s)	✓
7	Internal Chain of Custody Form(s)	NA
8	OSCAR Sample Tracking Log	✓
9	Project Correspondence	✓
	Area Specific Raw Data	
11	**Organics**	
	VOAs	
	NVOAs	
	PCBs	
	Pesticides	
	Haloacetic Acids	
	MEE	
12	**Metals**	
	ICP-AES	✓
	ICP-MS	
	CVAAS – Mercury	
	DMA - Mercury	

		√
13	**Sanitary Chemistry**	
	Microbiology	
15	**Biology**	

FINAL

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218	Start:	~~10/2/2012~~ 12/10/12
State:	NY	Action Code:	Removal - RV	Finish:	~~11/3/2012~~ 1/3/13

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ● After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark	First Name:	Smita	Start:	~~10/2/2012~~ 12/10/12
Last Name:	Gallo	Last Name:	Sumbaly	Finish:	~~11/3/2012~~ 1/3/13
		Phone #:	7325854410		
		Organization:	RST 2	Saturday Delivery?	☐ Yes

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?: (e.g. PRP/Fed Facility)	☐ Yes
Date of QAPP Approval:	not approved	Labs Used: (PRP/FF)	

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
		Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Pin 11/27/12

FILE

*** Shaded area for RSCC use only. ***

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	ERA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	

Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit: 00	Site Spill ID: A218	Start: ~~10/3/2012~~ 10/15/12	
State:	NY	Action Code:	Removal - RV	Finish: ~~11/2/2012~~ 11/30/12	

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark (908-420-7655)	First Name:	Smita	Start: ~~10/3/2012~~ 10/15/12	
Last Name:	Gallo	Last Name:	Sumbaly	Finish: ~~11/2/2012~~ 10/30/12	
		Phone #:	7325854410	Saturday Delivery?	☐ Yes
		Organization:	RST 2		

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?:	☐ Yes	Labs Used:	
Date of QAPP Approval:	not approved	(e.g. PRP/Fed Facility)		(PRP/FF)	

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
	GALLO.MARK@EPA.GOV	Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samples preliminary data and 24 hours (48) TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately (10) soils samples will be submitted per day.

↳ MAXIMUM

J Pin 10/3/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EPA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	—

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

USEPA Contract No. EP-W-06-072
DateShipped: 12/11/2012
CarrierName: Hand Delivered

CHAIN OF CUSTODY RECORD
Jewett White Lead Site
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121112-111616-0008
Lab: EPA DESA Laboratories
Lab Contact: John Birri
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
121042-01	S-001-4248-001	S-001	12/11/2012	Soil	15:19	(*) 1	4 oz glass jar	Lead	4 C	Y
-02	S-001-4248-002	S-001	12/11/2012	Soil	15:19	1	4 oz glass jar	Lead	4 C	N
-03	S-002-1824-001	S-002	12/11/2012	Soil	15:22	1	4 oz glass jar	Lead	4 C	N
-04	S-003-1218-001	S-003	12/11/2012	Soil	15:25	1	4 oz glass jar	Lead	4 C	N
-05	S-004-7884-001	S-004	12/11/2012	Soil	15:30	1	4 oz glass jar	Lead	4 C	N
-06	S-005-4854-001	S-005	12/11/2012	Soil	15:33	1	4 oz glass jar	Lead	4 C	N
-07	S-006-1824-001	S-006	12/11/2012	Soil	15:38	1	4 oz glass jar	Lead	4 C	N
-08	S-007-3642-001	S-007	12/11/2012	Soil	15:40	1	4 oz glass jar	Lead	4 C	N

EMM 12/12/12

(*) 1 container indicated on coc. 2 containers received by lab. EMM 12/12/12

A. Mallon 12/11/12

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	12/11/12	Eric Mahaffy	12/12/12	0850						

Received, on ice, hand-delivered

Cooler = 2.1°C EMM 12/12/12

USEPA Contract No. EP-W-06-072
DateShipped: 12/12/2012
CarrierName: Hand Delivered

CHAIN OF CUSTODY RECORD
Jewett White Lead Site
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121212-164027-0010
Lab: EPA DESA Laboratories
Lab Contact: John Birri
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1212046-01	S-008-1824-001	S-008	12/12/2012	Soil	15:47	1	4 oz glass jar	Lead	4 C	Y
-02	S-008-1824-002	S-008	12/12/2012	Soil	16:10	1	4 oz glass jar	Lead	4 C	N
-03	S-009-1824-001	S-009	12/12/2012	Soil	15:50	1	4 oz glass jar	Lead	4 C	N
-04	S-010-0612-001	S-010	12/12/2012	Soil	15:55	1	4 oz glass jar	Lead	4 C	N
-05	S-011-0612-001	S-011	12/12/2012	Soil	15:58	1	4 oz glass jar	Lead	4 C	N
-06	S-012-1824-001	S-012	12/12/2012	Soil	16:04	1	4 oz glass jar	Lead	4 C	N

EMM 12/13/12

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Brittney Kelly

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All SAMPLES FOR Analysis		12/12/12	Erin L. McKelly	12/13/12	0839						

Hand-delivered, on ice, 11.8°C EMM 12/13/12

USEPA Contract No. EP-W-06-072
DateShipped: 12/13/2012
CarrierName: Hand Delivered

CHAIN OF CUSTODY RECORD

Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121312-155932-0013
Lab: EPA DESA Laboratories
Lab Contact: John Birri
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
121205-01	S-013-3036-001	S-013	12/13/2012	Soil	15:02	2	4 oz glass jar	Lead	4 C	Y
-02	S-013-3036-002	S-013	12/13/2012	Soil	15:02	1	4 oz glass jar	Lead	4 C	N
-03	S-014-3036-001	S-014	12/13/2012	Soil	15:17	1	4 oz glass jar	Lead	4 C	N

SD 12/13/12

12/13/12

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Samples	A. Mallon	12/13/12								12/13/12	17:40

Temp = 4.4°C on ice SD 12/13/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212042

Printed: 12/12/2012 9:40:43AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/14/2012

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DDZ-A218-LA 00

CG 12/12/12

WO Date Due:	12/14/2012 00:00 (2 day TAT)	Tracking No:	
Received By:	Erica McNally	Date Received:	12/12/2012 08:50
Logged In By:	Erica McNally	Date Logged In:	12/12/2012 09:08

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 2 C

Analysis	Analysis Due Date	Hold Time
1212042-01 S-001-4248-001 [Solid] Sampled 12/11/2012 15:19 Eastern [2 Containers]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-02 S-001-4248-002 [Solid] Sampled 12/11/2012 15:19 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-03 S-002-1824-001 [Solid] Sampled 12/11/2012 15:22 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-04 S-003-1218-001 [Solid] Sampled 12/11/2012 15:25 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-05 S-004-7884-001 [Solid] Sampled 12/11/2012 15:30 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212042

Printed: 12/12/2012 9:40:43AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/14/2012

Analysis	Analysis Due Date	Hold Time
1212042-06 S-005-4854-001 [Solid] Sampled 12/11/2012 15:33 Eastern [1 Container] ✓		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-07 S-006-1824-001 [Solid] Sampled 12/11/2012 15:38 Eastern [1 Container] ✓		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-08 S-007-3642-001 [Solid] Sampled 12/11/2012 15:40 Eastern [1 Container] ✓		
Lead ICP	6/9/2013 12:00:00AM	180

Reviewed By

12/12/12
Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212046

Printed: 12/13/2012 10:34:02AM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 12/15/2012

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due:	12/15/2012 00:00 (2 day TAT)	Tracking No:	
Received By:	Erica McNally	Date Received:	12/13/2012 08:39
Logged In By:	Erica McNally	Date Logged In:	12/13/2012 09:51

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 12 C

Analysis	Analysis Due Date	Hold Time
1212046-01 S-008-1824-001 [Solid] Sampled 12/12/2012 15:47 Eastern [1 Container]		
Lead ICP	6/10/2013 12:00:00AM	180
1212046-02 S-008-1824-002 [Solid] Sampled 12/12/2012 16:10 Eastern [1 Container]		
Lead ICP	6/10/2013 12:00:00AM	180
1212046-03 S-009-1824-001 [Solid] Sampled 12/12/2012 15:50 Eastern [1 Container]		
Lead ICP	6/10/2013 12:00:00AM	180
1212046-04 S-010-0612-001 [Solid] Sampled 12/12/2012 15:55 Eastern [1 Container]		
Lead ICP	6/10/2013 12:00:00AM	180
1212046-05 S-011-0612-001 [Solid] Sampled 12/12/2012 15:58 Eastern [1 Container]		
Lead ICP	6/10/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212046

Printed: 12/13/2012 10:34:02AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/15/2012

Analysis	Analysis Due Date	Hold Time	
1212046-06 S-012-1824-001 [Solid] Sampled 12/12/2012 16:04 Eastern [1 Container]			✓
Lead ICP	6/10/2013 12:00:00AM	180	

Reviewed By

12/13/12
Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212052

Printed: 12/13/2012 6:30:06PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/15/2012 ✓

Report To:

Weston Solutions Inc. ✓
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due: 12/15/2012 00:00 (2 day TAT)
Tracking No:
Received By: Zubair Ali
Date Received: 12/13/2012 17:40 ✓
Logged In By: Zubair Ali
Date Logged In: 12/13/2012 17:49

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes ✓
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 4 C

Analysis	Analysis Due Date	Hold Time
1212052-01 S-013-3036-001 [Solid] Sampled 12/13/2012 15:02 Eastern [2 Containers] ✓		
Lead ICP	6/11/2013 12:00:00AM	180
1212052-02 S-013-3036-002 [Solid] Sampled 12/13/2012 15:02 Eastern [1 Container] ✓		
Lead ICP	6/11/2013 12:00:00AM	180
1212052-03 S-014-3036-001 [Solid] Sampled 12/13/2012 15:17 Eastern [1 Container] ✓		
Lead ICP	6/11/2013 12:00:00AM	180

L. Del
Reviewed By

12/14/12
Date

12/12/2012

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 12/12/2012 08:50	Project Name: Jewett White Lead - 1212042	Work Order #: 1212042 # of Samples: 8	
Report Date: 12/12/2012 10:38	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 8	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(8 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

12/13/2012

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 12/13/2012 08:39	Project Name: Jewett White Lead - 1212042	Work Order #: 1212046 # of Samples: 6	
Report Date: 12/13/2012 09:58	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 6	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(6 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

12/13/2012

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 12/13/2012 17:40	Project Name: Jewett White Lead - 1212042	Work Order #: 1212052 # of Samples: 3	
Report Date: 12/13/2012 18:27	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 3	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(3 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

Jewett White Lead P-1212042
Erica McNally to: Ness Tirol, John Birri 12/12/2012 09:34 AM
Cc: Lisa Brassell, Zubair Ali, Michelle Schwartz

Ness/John,

The laboratory received 8 samples for Jewett White Lead today (12/12/12) with the following discrepancy:

The COC indicates 1 sample container for sample S-001-4248-001. The laboratory received 2 containers for the sample.

Additionally, the project is logged in for EPA ICP Lead and 48 hours TAT (preliminary data) as per your verbal instruction.

Please let OSCAR know if any corrections are required.

Thank you,

Erica McNally
Alion Science and Technology
ESAT Contract No. EP-W-07-083
732-906-6178

Partial Report - Jewett White Lead

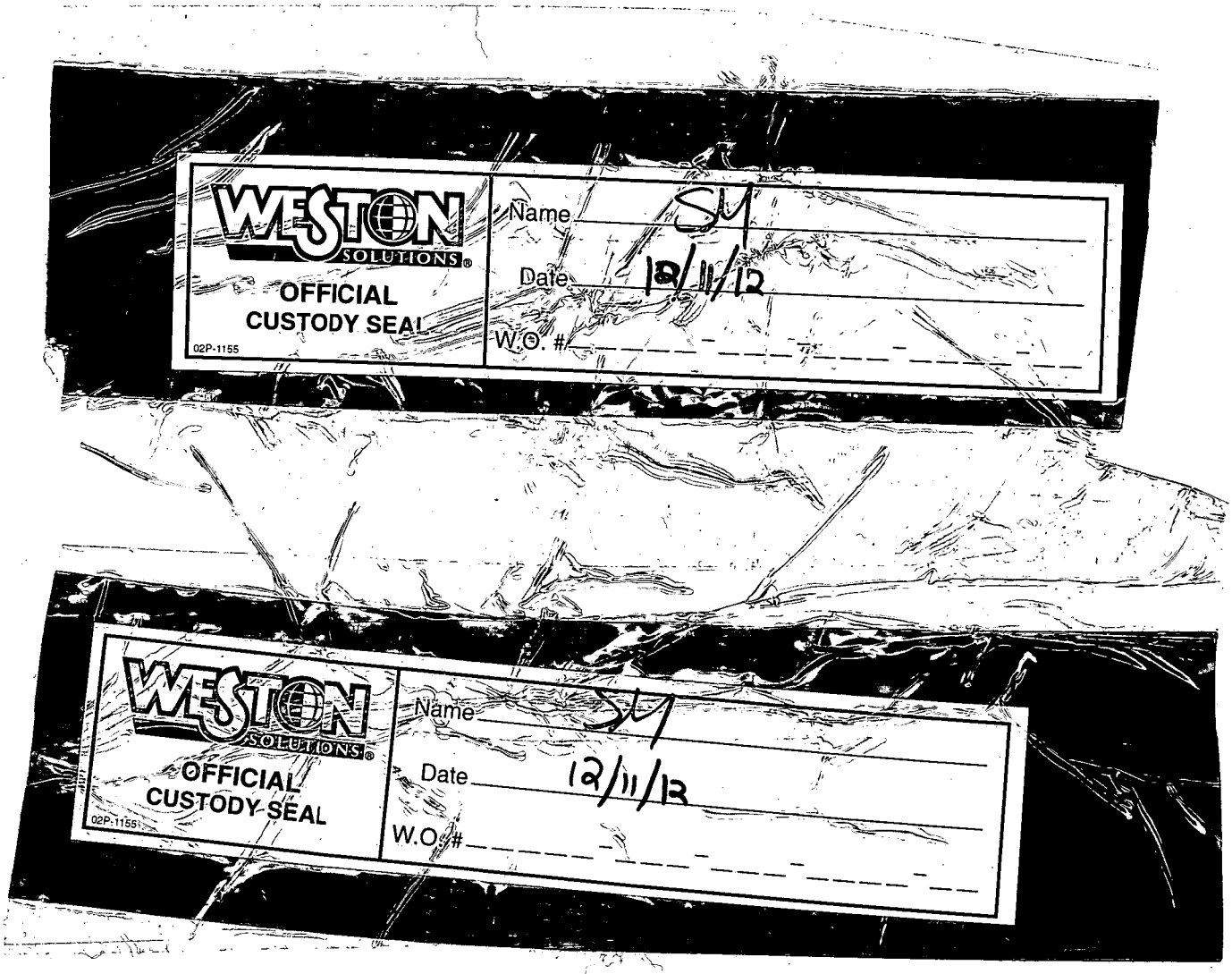
John Bourbon to: John Birri, Ness Tirol, Yelena Khusid, John Johnson, Vyomesh Parekh, Erica McNally, Zubair Ali, Sumy Cherukara, Michelle

12/14/2012 01:50 PM

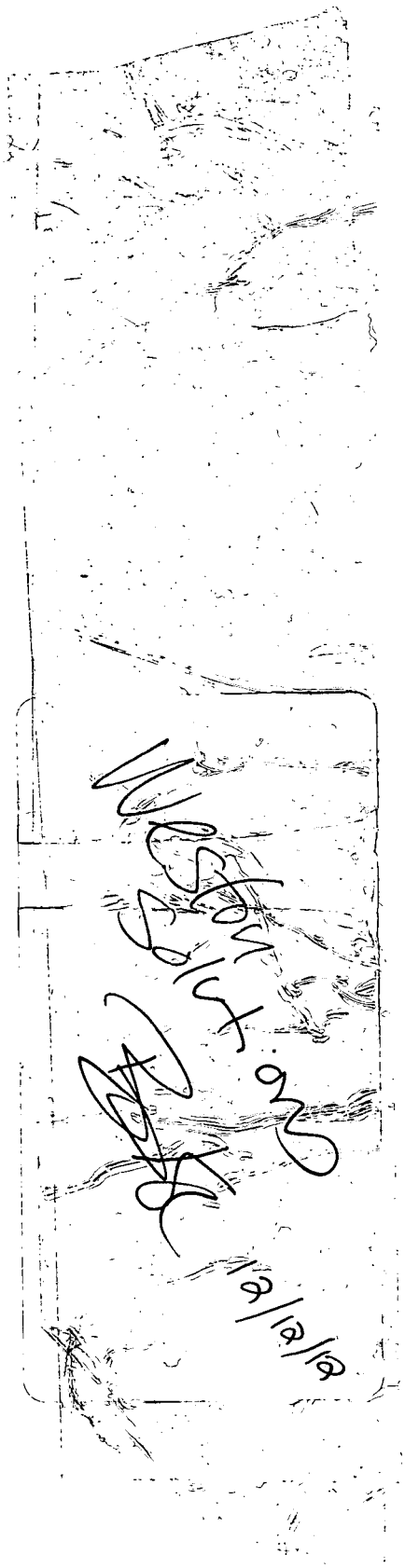
Cc: Renee Lettieri, William Rickert, Jim Ferretti

This afternoon, Renee Lettieri will complete the review of Work Orders 1212046 and 1212052 for the Project# 1212042 Jewett White Lead. When she alerts you to the completion, please generate a partial report for the two referenced work orders and provide the report to Jim Ferretti for approval.

Jewett White Lead



Cooler = 2.1°C EM 12/12/12



Jewett White Lead

12/13/12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

December 14, 2012

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 12/13/2012. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-008-1824-001	1212046-01	Solid	12/12/2012 15:47	12/13/2012 08:39
S-008-1824-002	1212046-02	Solid	12/12/2012 16:10	12/13/2012 08:39
S-009-1824-001	1212046-03	Solid	12/12/2012 15:50	12/13/2012 08:39
S-010-0612-001	1212046-04	Solid	12/12/2012 15:55	12/13/2012 08:39
S-011-0612-001	1212046-05	Solid	12/12/2012 15:58	12/13/2012 08:39
S-012-1824-001	1212046-06	Solid	12/12/2012 16:04	12/13/2012 08:39
S-013-3036-001	1212052-01	Solid	12/13/2012 15:02	12/13/2012 17:40
S-013-3036-002	1212052-02	Solid	12/13/2012 15:02	12/13/2012 17:40
S-014-3036-001	1212052-03	Solid	12/13/2012 15:17	12/13/2012 17:40

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-008-1824-001				**Sample ID: 1212046-01**
Metals ICP				
Lead	170		0.88	mg/kg dry
Field ID: S-008-1824-002				**Sample ID: 1212046-02**
Metals ICP				
Lead	56		0.74	mg/kg dry
Field ID: S-009-1824-001				**Sample ID: 1212046-03**
Metals ICP				
Lead	81		0.78	mg/kg dry
Field ID: S-010-0612-001				**Sample ID: 1212046-04**
Metals ICP				
Lead	580		0.76	mg/kg dry
Field ID: S-011-0612-001				**Sample ID: 1212046-05**
Metals ICP				
Lead	78		0.72	mg/kg dry
Field ID: S-012-1824-001				**Sample ID: 1212046-06**
Metals ICP				
Lead	16		0.82	mg/kg dry
Field ID: S-013-3036-001				**Sample ID: 1212052-01**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-013-3036-001				**Sample ID: 1212052-01**
Metals ICP				
Lead	190		0.73	mg/kg dry
Field ID: S-013-3036-002				**Sample ID: 1212052-02**
Metals ICP				
Lead	150		0.76	mg/kg dry
Field ID: S-014-3036-001				**Sample ID: 1212052-03**
Metals ICP				
Lead	18		0.69	mg/kg dry

PARTIAL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone

December 14, 2012

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 12/13/2012. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

FILE

DRAFT

PARTIAL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-008-1824-001	1212046-01	Solid	12/12/2012 15:47	12/13/2012 08:39
S-008-1824-002	1212046-02	Solid	12/12/2012 16:10	12/13/2012 08:39
S-009-1824-001	1212046-03	Solid	12/12/2012 15:50	12/13/2012 08:39
S-010-0612-001	1212046-04	Solid	12/12/2012 15:55	12/13/2012 08:39
S-011-0612-001	1212046-05	Solid	12/12/2012 15:58	12/13/2012 08:39
S-012-1824-001	1212046-06	Solid	12/12/2012 16:04	12/13/2012 08:39
S-013-3036-001	1212052-01	Solid	12/13/2012 15:02	12/13/2012 17:40
S-013-3036-002	1212052-02	Solid	12/13/2012 15:02	12/13/2012 17:40
S-014-3036-001	1212052-03	Solid	12/13/2012 15:17	12/13/2012 17:40

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-008-1824-001				**Sample ID: 1212046-01**	
Metals ICP					
Lead	170		0.88	mg/kg dry	B212106
Field ID: DRAFT: S-008-1824-002				**Sample ID: 1212046-02**	
Metals ICP					
Lead	56		0.74	mg/kg dry	B212106
Field ID: DRAFT: S-009-1824-001				**Sample ID: 1212046-03**	
Metals ICP					
Lead	81		0.78	mg/kg dry	B212106
Field ID: DRAFT: S-010-0612-001				**Sample ID: 1212046-04**	
Metals ICP					
Lead	580		0.76	mg/kg dry	B212106
Field ID: DRAFT: S-011-0612-001				**Sample ID: 1212046-05**	
Metals ICP					
Lead	78		0.72	mg/kg dry	B212106
Field ID: DRAFT: S-012-1824-001				**Sample ID: 1212046-06**	
Metals ICP					
Lead	16		0.82	mg/kg dry	B212106
Field ID: DRAFT: S-013-3036-001				**Sample ID: 1212052-01**	
Metals ICP					

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-013-3036-001				**Sample ID: 1212052-01**	
Metals ICP					
Lead	190		0.73	mg/kg dry	B212107
Field ID: DRAFT: S-013-3036-002				**Sample ID: 1212052-02**	
Metals ICP					
Lead	150		0.76	mg/kg dry	B212107
Field ID: DRAFT: S-014-3036-001				**Sample ID: 1212052-03**	
Metals ICP					
Lead	18		0.69	mg/kg dry	B212107

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212106									
Blank (B212106-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B212106-MS1)	**Source: 1212046-01**								
Lead	109	0.86	mg/kg dry	26.94	165	NR	75-125		
Matrix Spike Dup (B212106-MSD1)	**Source: 1212046-01**								
Lead	110	0.86	mg/kg dry	26.94	165	NR	75-125	1.38	10
Reference (B212106-SRM1)									
Lead	70.8	0.78	mg/kg wet	75.11		94.3	81.3-118.7		
Reference (B212106-SRM2)									
Lead	70.0	0.76	mg/kg wet	72.71		96.2	81.3-118.7		
Batch B212107									
Blank (B212107-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B212107-MS1)	**Source: 1212052-01**								
Lead	154	0.72	mg/kg dry	17.89	194	NR	75-125		
Matrix Spike Dup (B212107-MSD1)	**Source: 1212052-01**								
Lead	162	0.72	mg/kg dry	17.89	194	NR	75-125	4.64	10
Reference (B212107-SRM1)									
Lead	66.4	0.73	mg/kg wet	76.90		86.4	81.3-118.7		

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212107									
Reference (B212107-SRM2)									
Lead	67.0	0.73	mg/kg wet	76.90		87.1	81.3-118.7		

REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

P/N 1212042

PROJECT NO. W/O 1301005 SITE NAME Jewett White SAMPLE RECEIPT DATE _____

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
ICP	EPA IRIS-5	58		
	B301033 / S301015			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301015

Jewett White Lead - 1212042
1301005

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	WR	01/10/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	WR	01/10/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	WR	01/10/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	WR	01/10/2013
ICB < Reporting Limit?	YES	WR	01/10/2013
RL Low Level recovery ±30%?	YES	WR	01/10/2013
2RL Low Level Recovery ±30%?	YES	WR	01/10/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	WR	01/10/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	WR	01/10/2013
CCBs < Reporting Limit?	YES	WR	01/10/2013
Sample result data		Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301015

Jewett White Lead - 1212042
1301005

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

IOS < Reporting Limit for all elements?	YES		WR	01/10/2013
Performance check			Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES		WR	01/10/2013
Blank data			Analyst Initials	Date
Prep Blank < Reporting Limit?	YES	*	WR	01/10/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		WR	01/10/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	WR	01/10/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	WR	01/10/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	WR	01/10/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		WR	01/10/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	WR	01/10/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		WR	01/10/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301015

Jewett White Lead - 1212042
1301005

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	WR	01/10/2013

Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	NO		WR	01/10/2013

Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		WR	01/10/2013
Instrument Analysis Log Book entries completed?	YES		WR	01/10/2013
Percent Solids Log Book info entries completed?	YES		WR	01/10/2013
pH Log Book Log Book info entries completed?	NA		WR	01/10/2013

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	WR	01/10/2013
Peer reviewed? Date and person responsible.	YES	*	NT	01/10/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301005

Printed: 1/8/2013 5:56:34PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/10/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due:	01/10/2013 00:00 (2 day TAT)	Tracking No:	
Received By:	Zubair Ali	Date Received:	01/08/2013 17:10
Logged In By:	Zubair Ali	Date Logged In:	01/08/2013 17:18

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	No		

Red Cooler at Temp of 5 C

Analysis	Analysis Due Date	Hold Time
1301005-01 S-019-6066-001 [Solid] Sampled 01/08/2013 12:06 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-02 S-019-6066-002 [Solid] Sampled 01/08/2013 12:06 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-03 S-020-6672-001 [Solid] Sampled 01/08/2013 12:11 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-04 S-021-4854-001 [Solid] Sampled 01/08/2013 12:15 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-05 S-022-2430-001 [Solid] Sampled 01/08/2013 12:19 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301005

Printed: 1/8/2013 5:56:34PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/10/2013

Analysis	Analysis Due Date	Hold Time
1301005-06 S-023-3642-001 [Solid] Sampled 01/08/2013 12:23 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-07 S-024-1824-001 [Solid] Sampled 01/08/2013 12:26 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-08 S-025-6672-001 [Solid] Sampled 01/08/2013 14:50 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180
1301005-09 S-026-6672-001 [Solid] Sampled 01/08/2013 15:00 Eastern [1 Container]		
Lead ICP	7/7/2013 12:00:00AM	180

Reviewed By

Date

Page 1 of 1

USEPA Contract No. EP-W-08-072

Hand delivered: 1/8/13

CHAIN OF CUSTODY RECORD

Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4997

No: 2-010813-145143-0021

Lab: DESA

Lab Contact: John Birri

Lab #	Sample #	Location	CLP Sample #	Collected	Start_Time *	Stop_Time	Matrix	Volume	Numb Cont	Container	Analyses	Preservative
130105-01	S-019-6066-001	S-019		1/8/2013	12:06		Soil		1	4 oz glass jar	Lead	4 C
-02	S-019-6066-002	S-019		1/8/2013	12:06		Soil		1	4 oz glass jar	Lead	4 C
-03	S-020-6672-001	S-020		1/8/2013	12:11		Soil		1	4 oz glass jar	Lead	4 C
-04	S-021-4854-001	S-021		1/8/2013	12:15		Soil		1	4 oz glass jar	Lead	4 C
-05	S-022-2430-001	S-022		1/8/2013	12:19		Soil		1	4 oz glass jar	Lead	4 C
-06	S-023-3642-001	S-023		1/8/2013	12:23		Soil		1	4 oz glass jar	Lead	4 C
-07	S-024-1824-001	S-024		1/8/2013	12:26		Soil		1	4 oz glass jar	Lead	4 C
-08	S-025-6672-001	S-025		1/8/2013	14:50		Soil		1	4 oz glass jar	Lead	4 C
-09	S-026-6672-001	S-026		1/8/2013	15:10		Soil		1	4 oz glass jar	Lead	4 C

1/8/13 A. M. 1/8/13

* Collection time only indicated on sample label, Collection time taken from sample label AM 1/8/13

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	1/8/13									

Temp = 4.9°C on ice AM 1/8/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301015

Instrument: Thermo Iris Intrepid

Printed: 1/9/2013 11:22:55AM

Project Name	Lab Number	Analysis	STD ID
	S301015-CAL1	QC	D2I2024
	S301015-CAL2	QC	D2I2023
	S301015-CAL3	QC	D2J0304
	S301015-ICV1	QC	D2L1716
	S301015-ICB1	QC	D2I2024
	S301015-LCV1	QC	D2J0906
	S301015-LCV2	QC	D2J0907
	S301015-IFA1	QC	D3A0901
	B301033-BLK1	QC	
	B301033-SRM1	QC	
	B301033-SRM2	QC	
Jewett White Lead - 1212042	1301005-01	Lead ICP	
	B301033-MS1	QC	
	B301033-MSD1	QC	
Jewett White Lead - 1212042	1301005-02	Lead ICP	
Jewett White Lead - 1212042	1301005-03	Lead ICP	
Jewett White Lead - 1212042	1301005-04	Lead ICP	
	S301015-CCV1	QC	D2L1716
	S301015-CCB1	QC	D2I2024
Jewett White Lead - 1212042	1301005-05	Lead ICP	
Jewett White Lead - 1212042	1301005-06	Lead ICP	
Jewett White Lead - 1212042	1301005-07	Lead ICP	
Jewett White Lead - 1212042	1301005-08	Lead ICP	
Jewett White Lead - 1212042	1301005-09	Lead ICP	
	S301015-CCV2	QC	D2L1716
	S301015-CCB2	QC	D2I2024
	S301015-LCV3	QC	D2J0906
	S301015-LCV4	QC	D2J0907
	S301015-IFA2	QC	D3A0901

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # /C-109 ____DW-5 **File:** 01/09/13

Project Name	Project Number	Sample Numbers	Scan Type
Jewett white	1301005	1301005	Pb only

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Tl, V, Zn
SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn
TCLP : Ag, As, Ba, Cd, Cr, Pb, Se **METALS FINISHING:** Ag, Cd, Cr, Cu, Ni, Pb, Zn

Promium Batch #	Promium Sequence #	Method
B301033	S301015	EPA-ICP-P / ____
		EPA-ICP-P / ____

Torch Cleaned Y / (N)	
Pump Tubing Changed Y / (N)	

Comments:

Date of Analysis: 01/09/13 Signature of Analyst(s): Kristin Richard

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301033

Prepared by: WR
Prepared on: 01/09/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.1

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301005-01	NA	29	Yes	0.5948	50					
	1301005-02	NA	29	Yes	0.5843	50					
	1301005-03	NA	29	Yes	0.604	50					
	1301005-04	NA	29	Yes	0.6047	50					
	1301005-05	NA	29	Yes	0.5965	50					
	1301005-06	NA	29	Yes	0.612	50					
	1301005-07	NA	29	Yes	0.6149	50					
	1301005-08	NA	29	Yes	0.5994	50					
	1301005-09	NA	29	Yes	0.6167	50					
	B301033-BLK1	NA	29	Yes	5	50					
	B301033-MS1	NA	29	Yes	0.6017	50	D2K2820	40	D2K2822	1000	1301005-01
	B301033-MSD1	NA	29	Yes	0.6017	50	D2K2820	40	D2K2822	1000	1301005-01

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301033

Prepared by: WR
Prepared on: 01/09/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.1

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID		Balance		Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
	B301033-SRM1	NA	29	Yes	0.5462	50	D2F0423	546.2			
	B301033-SRM2	NA	29	Yes	0.5315	50	D2F0423	531.5			

Comments:

Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
Ag 328.068 {102}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	1.000000	OK.
Al 396.152 { 85}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999919	OK.
As 189.042 {177}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999990	OK.
B 208.959 {161}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999999	OK.
Ba 455.403 { 74}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999999	OK.
Be 313.107 {107}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999999	OK.
Ca 317.933 {105}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999880	OK.
Cd 214.438 {157}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999995	OK.
Co 228.616 {147}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	1.000000	OK.
Cr 205.552 {163}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999995	OK.
Cu 324.754 {103}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	1.000000	OK.
Fe 259.940 {129}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999944	OK.
Fe 259.940 {129}2	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999916	OK.
K 766.491 { 44}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999985	OK.
Mg 279.079 {120}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999994	OK.
Mg 285.213 {117}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999929	OK.
Mn 257.610 {130}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999985	OK.
Mo 202.030 {166}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999999	OK.
Na 589.592 { 57}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	1.000000	OK.
Ni 231.604 {145}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999998	OK.
Pb 220.353 {152}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999993	OK.
Sb 206.833 {162}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999983	OK.
Se 196.090 {171}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999990	OK.
Si 251.612 {133}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999986	OK.
Sn 189.989 {176}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999983	OK.
Sr 407.771 { 82}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999991	OK.
Ti 334.941 {100}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999994	OK.
Tl 190.864 {176}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999975	OK.
V 292.402 {115}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	0.999980	OK.
Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
Y 360.073 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
Y 361.105 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
Zn 206.200 {163}	01/09/2013 13:28:42	Linear	1/Conc	1.000000	1.000000	OK.

	Blank	Mid Std	High Std	S301015-ICV1	S301015-ICB1	S301015-LCV1	S301015-LCV2	S301015-IFA1	Rinse
	9 Jan 2013 13:10:33	9 Jan 2013 13:16:39	9 Jan 2013 13:22:43	9 Jan 2013 13:28:45	9 Jan 2013 13:34:51	9 Jan 2013 13:41:04	9 Jan 2013 13:47:15	9 Jan 2013 13:53:28	9 Jan 2013 13:59:45
Ag3280	-0.0001	0.0647	0.1294	203.1	0.1808	4.71	10	1.252	0.4606
Al3961	0.0001	0.2535	0.4934	4973	-25.23	99.28	223.3	291300	11.21
As1890	-0.0004	0.0271	0.0551	201.2	0.0329	9.349	16.52	-6.311	-0.1291
B2089	0.0003	0.106	0.2124	198.9	0.0859	11.77	23.33	-3.55	-0.1435
Ba4554	0.0045	1.426	2.856	196.7	0.3246	104.1	204.4	0.2262	0.2742
Be3131	0	0.8459	1.688	197.6	0.8701	3.594	6.843	0.3418	0.1941
Ca3179	0.0034	0.2038	0.3913	5012	27.59	515.2	1027	273600	53.79
Cd2144	0.0001	0.7091	1.427	200.8	0.0432	3.595	7.086	1.527	0.0128
Co2286	-0.0002	0.3791	0.76	200.1	-0.1244	23.08	45.92	-3.743	-0.1285
Cr2055	-0.0005	0.2957	0.596	202.6	-0.0409	5.606	11.21	1.586	-0.0352
Cu3247	0.0011	0.0995	0.1982	202.7	-0.103	10.19	19.81	-3.871	-0.2411
Fe2599A	-0.0001	0.3145	0.6153	5041	0.1493	53.69	105	205500	15.03
Fe2599R	0.0005	0.1305	0.2558	5013	9.185	47.03	110.4	273200	44.21
K7664	0.0185	0.1796	0.3461	4889	-6.31	515.8	1047	357.3	14.27
Mg2790	0	0.026	0.0516	4988	20.01	574.2	1273	294400	-132.2
Mg2852	0.0003	0.26	0.5067	4982	1.989	531.5	1033	247300	9.306
Mn2576	0.0001	0.1554	0.3073	203.6	0.0332	5.762	11.11	0.4296	0.1092
Mo2020	0.0005	0.2067	0.414	202.1	0.1133	10.18	20.47	-1.622	-0.0728
Na5895	0.0602	1.186	2.308	4901	-9.185	1011	2008	298000	165.5
Ni2316	-0.0002	0.2097	0.4212	201.6	0.2596	20.54	40.52	-6.034	0.3397
Pb2203	0	0.0425	0.0857	201	0.7642	8.509	16.87	0.8109	0.1847
Sb2068	0	0.0347	0.0703	198.5	-0.3372	21.12	40.6	4.421	0.3596
Se1960	0.0004	0.0317	0.0635	202.6	0.4017	19.94	39.45	-2.208	-0.6922
Si2516	-0.0001	0.0304	0.0602	4910	12.96	F 769.8	954.9	F 581.7	38.71
Sn1899	0.0001	0.0361	0.073	197.7	0.745	10.61	20.51	0.8898	0.1395
Sr4077	0.0003	3.801	7.534	201.1	-0.0975	11.22	22.11	8.409	-0.0112
Ti3349	0.0006	0.3355	0.6655	203.6	-0.0484	10.16	20.25	-4.153	-0.1902
Tl1908	-0.0004	0.0233	0.0478	198.8	-0.4334	19.04	39.91	-1.988	-0.5389
V2924	-0.0002	0.0331	0.0674	195.8	-0.0352	20.75	42.16	5.688	-0.4475
Zn2062	-0.0001	0.4665	0.9346	204	0.0591	22.22	43.09	3.129	3.353
Y2243A	374.85	382.25	378.69	382.5	375.98	376.66	378.14	354.16	375.88
Y3600R	35.743	35.989	36.722	36.134	35.741	35.798	36.08	36.207	35.172
Y3611A	942.79	957.23	952.75	957.19	934.57	943.42	948.99	913.41	933.98

	B301033-BLK1	B301033-SRM1	B301033-SRM2	1301005-01	B301033-MS1	B301033-MSD1	1301005-02	1301005-03	1301005-04	S301015-CCV1	S301015-CCB1
	9 Jan 2013 14:05:54	9 Jan 2013 14:12:04	9 Jan 2013 14:18:16	9 Jan 2013 14:24:29	9 Jan 2013 14:30:45	9 Jan 2013 14:37:00	9 Jan 2013 14:43:04	9 Jan 2013 14:49:21	9 Jan 2013 14:55:37	9 Jan 2013 15:01:54	9 Jan 2013 15:07:59
Ag3280	-0.457	40.65	40.92	-3.827	195.2	196.4	-2.863	-2.19	-5.04	205.1	0.2067
Al3961	-10.28	5537	5906	52920	75970	79820	48130	63450	53900	4954	-5.324
As1890	1.287	169.8	170.6	64.85	258.1	268.4	64.2	22.41	12.54	203.6	0.6516
B2089	-0.3175	82.24	83.58	17.43	220.3	224.2	14.94	19.47	11.57	202	0.0691
Ba4554	-0.5344	193.7	195.1	616.4	829.5	862.5	573.6	154.4	254.6	204.2	0.4129
Be3131	0.3522	106.9	107.3	2.492	193.1	197.6	2.273	1.895	3.068	198.8	-0.362
Ca3179	63.46	6414	6584	9554	13980	14680	8864	8326	7252	5029	3.316
Cd2144	-0.0138	96.91	97.59	0.5422	189.2	195.4	0.395	0.1011	0.2978	199.7	0.0074
Co2286	-0.083	126.2	128.2	39.87	236.1	242	36.81	41.13	62.06	201.8	-0.0926
Cr2055	-0.0227	111.6	113.4	87.43	291.5	300.5	82.3	109	72.91	202.3	-0.1954
Cu3247	0.4357	116.8	117.1	74.77	278.1	273.8	69.97	74.1	112.2	199.6	-0.0413
Fe2599A	6.117	8870	9178	117700	124800	151900	113100	94580	105100	5050	0.9669
Fe2599R	17.31	10030	10490	140800	148000	156900	132800	107600	122000	5140	4.371
K7664	91.15	2539	2613	4419	10940	11300	3795	5330	4373	4890	43.56
Mg2790	89.75	2235	2312	18830	25550	26730	16900	21730	19100	5053	-25.41
Mg2852	-5.033	2225	2292	18530	24980	26300	16510	21150	18700	5018	-8.19
Mn2576	0.4167	309.1	308.2	850	1064	1131	779.2	1270	2417	197.7	0.1955
Mo2020	-0.2377	64.61	65.42	1.963	193.2	195	1.63	0.8157	0.2127	199.6	0.0279
Na5895	110.4	326.5	328.4	366.7	5227	5192	298.8	404.2	281.7	5039	-15.14
Ni2316	0.1418	67.01	68.23	76.65	279.5	285.8	71.41	87.82	89.4	202	0.1086
Pb2203	0.4653	74.13	71.52	108	259.6	275.3	68.56	68.86	95.21	198.3	1.746
Sb2068	-0.4946	206.1	209.5	5.854	194.2	198.1	3.558	4.135	5.171	199	0.3351
Se1960	-0.4076	124	126.6	-1.142	183.9	184	-2.935	0.1589	-1.74	199.7	0.8984
Si2516	34.2	1513	1556	18310	28900	33420	15510	18830	12620	4866	56.43
Sn1899	0.8982	142.5	142.6	0.0214	190	200.2	-0.6256	-1.145	-0.0147	200.8	0.6579
Sr4077	0.0597	122.1	124	92.06	294.9	303.1	84.02	117.8	93.11	203.3	-0.151
Ti3349	0.0293	132.2	142.2	1681	1992	2175	1509	1672	1066	204.5	-0.0133
Tl1908	-1.202	197.3	198.6	-0.5205	194.4	198	-2.381	-1.973	-1.974	200.1	-1.931
V2924	0.2833	80.23	80.91	156.7	362.6	377.7	148.6	155.5	146.4	198.5	0.7512
Zn2062	1.67	257.7	262.1	265.8	468.1	492.1	247.3	275.5	258.1	203.4	0.0465
Y2243A	374.35	378.24	377.87	380.94	381.13	374.65	379.82	381.09	384.02	381.06	372.2
Y3600R	35.757	37.799	37.818	35.732	37.082	35.691	36.257	36.201	36.557	35.428	35.062
Y3611A	948.23	973.81	983.82	976.63	975.74	960.9	981.78	980.41	991.82	961.73	939.12

	1301005-05	1301005-06	1301005-07	1301005-08	1301005-09	S301015-CCV2	S301015-CCB2	S301015-LCV3	S301015-LCV4	S301015-IFA2
	9 Jan 2013 15:14:09	9 Jan 2013 15:20:25	9 Jan 2013 15:26:40	9 Jan 2013 15:32:56	9 Jan 2013 15:39:00	9 Jan 2013 15:45:17	9 Jan 2013 15:51:22	9 Jan 2013 15:57:35	9 Jan 2013 16:03:46	9 Jan 2013 16:09:58
Ag3280	-2.986	-6.092	-5.379	-3.508	-3.95	205.2	0.2277	5.305	10.48	1.522
Al3961	58350	67530	72750	58290	56360	4937	-5.655	90.2	178.1	306300
As1890	40.53	55.87	67.94	9.516	9.052	203.4	1.185	8.787	17.48	-4.094
B2089	12.33	16.76	13.28	19.39	14.84	200.9	-0.2595	12.06	24.21	-4.204
Ba4554	459.9	527.7	562.8	770.8	1190	203.1	-0.2669	107.7	215.7	-0.1162
Be3131	2.213	3.707	3.62	1.863	2.589	197.9	0.0758	3.133	6.758	0.4389
Ca3179	8968	13280	12870	9504	12260	5037	17.36	552.1	1068	288800
Cd2144	1.639	0.6949	8.62	0.7718	0.4913	200.4	0.0192	3.635	7.316	1.428
Co2286	43.6	60.18	66.96	32.35	55.52	202.1	-0.1388	23.87	47.75	-3.971
Cr2055	102.8	102.3	138.3	85.41	66	203.2	-0.0825	5.653	11.53	1.616
Cu3247	177.1	118.5	488.7	56.89	48.34	200.7	0.276	10.39	20.38	-3.518
Fe2599A	100300	128000	147200	72930	93440	5074	3.042	56.71	112.2	214900
Fe2599R	116800	154200	182100	79130	105100	5068	18.06	F 82.20	118.3	288700
K7664	4966	5380	5295	5654	4913	4958	-35.05	576.6	1042	434.5
Mg2790	22330	22050	20270	20280	21050	5118	118.1	407	1226	312700
Mg2852	21590	21560	20090	19690	20620	5005	-11.34	526.6	1079	260700
Mn2576	1143	3962	2999	908.6	1863	199.6	0.0629	5.736	11.3	0.1209
Mo2020	2.687	2.662	5.655	0.3109	-0.1677	200.7	-0.1126	10.43	20.88	-1.693
Na5895	346.7	298.2	421.5	427.3	218.1	5016	-24.38	1033	2074	318000
Nl2316	126.8	100.7	147.1	74.1	101.8	202.9	0.0343	21.17	42.19	-6.849
Pb2203	426.1	3470	10720	4375	1040	200.2	0.72	8.687	17.4	2.84
Sb2068	7.67	4.694	12.47	10.3	5.19	198.7	0.0313	21.36	42.83	3.305
Se1960	-2.995	-1.062	1.83	-1.282	-1.086	201.1	-0.3792	21.32	41.29	-1.365
Si2516	15690	12470	11050	17490	11280	5002	126.6	629.3	1140	116.4
Sn1899	11.42	224.6	22.72	-0.2218	0.8299	201.2	0.9273	11.43	21.53	1.088
Sr4077	75.08	132.9	112.6	69.09	104.8	203.6	-0.0133	11.53	23.12	8.723
Ti3349	1705	1117	1327	1228	822.5	204.9	-0.0524	10.41	20.69	-4.345
Tl1908	-2.261	-1.973	-1.481	-1.647	-1.007	200.2	-0.0994	19.31	40.28	-2.137
V2924	180.3	175.5	228.7	79.05	64.5	199.4	0.5766	21.64	42.46	6.542
Zn2062	656.2	427.1	2900	321.3	307.1	204	-0.0359	22.91	45.19	3.123
Y2243A	382.37	386.85	384.09	381.22	380.25	380.96	372.72	375.07	376.08	335.71
Y3600R	35.799	37.551	37.64	35.899	35.741	35.289	34.908	35.255	35.314	33.899
Y3611A	986.49	992.33	992.7	963.62	972.72	959.57	939.92	949.82	953.65	883.94

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD
		Lower	Upper	B301033-SRM1	B301033-SRM2			
				9 Jan 2013 14:12:04	9 Jan 2013 14:18:16			
Silver	42.3	28.1	56.6	40.7	40.9	40.8	96.4%	0.66%
Aluminum	9310	4470	14200	5537	5906	5722	61.5%	6.45%
Arsenic	168	140	197	169.8	170.6	170.2	101.3%	0.47%
Boron	85	66	104	82.2	83.6	82.9	97.4%	1.62%
Barium	213	177	249	193.7	195.1	194.4	91.3%	0.72%
Beryllium	110.0	92.6	128	106.9	107.3	107.1	97.4%	0.37%
Calcium	6870	5700	8040	6414.0	6584.0	6499.0	94.6%	2.62%
Cadmium	103	86	119	96.9	97.6	97.3	94.4%	0.70%
Cobalt	131.0	109.0	153	126.2	128.2	127.2	97.1%	1.57%
Chromium	119.0	97.1	140	111.6	113.4	112.5	94.5%	1.60%
Copper	118.0	96.3	139	116.8	117.1	117.0	99.1%	0.26%
Iron 2599 A	13000	6560	19400	8870.0	9178.0	9024.0	69.4%	3.41%
Iron 2599 R	13000	6560	19400	10030.0	10490.0	10260.0	78.9%	4.48%
Potassium	3130	2270	3980	2539.0	2613.0	2576.0	82.3%	2.87%
Magnesium 2790	2780	2110	3450	2235.0	2312.0	2273.5	81.8%	3.39%
Magnesium 2852	2780	2110	3450	2225.0	2292.0	2258.5	81.2%	2.97%
Manganese	338	279	397	309.1	308.2	308.7	91.3%	0.29%
Molybdenum	61.5	41.6	84.8	64.6	65.4	65.0	105.7%	1.25%
Sodium	350	258	441	326.5	328.4	327.5	93.6%	0.58%
Nickel	70.0	57.2	82.7	67.0	68.2	67.6	96.6%	1.80%
Lead	76.9	62.5	91.3	74.1	71.5	72.8	94.7%	3.58%
Antimony	120	20	263	206.1	209.5	207.8	173.2%	1.64%
Selenium	126	101	152	124.0	126.6	125.3	99.4%	2.08%
Silicon	not evaluated			1513.0	1556.0	1534.5	#VALUE!	2.80%
Tin	142	112	172	142.5	142.6	142.6	100.4%	0.07%
Strontium	133	108	158	122.1	124.0	123.1	92.5%	1.54%
Titanium	219	38	401	132.2	142.2	137.2	62.6%	7.29%
Thallium	208	169	247	197.3	198.6	198.0	95.2%	0.66%
Vanadium	87.1	67.6	107	80.2	80.9	80.6	92.5%	0.84%
Zinc	276	227	325	257.7	262.1	259.9	94.2%	1.69%

Manual Calculation

Sample # 1301005-01

Analyte Pb

$$\text{result Mg/Kg} = \frac{\text{instrument result X dilution factor X Volume in L}}{\text{weight of sample X (\% solids/100)}}$$

$$\text{result Mg/Kg} = \frac{108.0 \times 1 \times 0.05}{0.5948 \times (98.77 / 100)}$$

$$\text{result Mg/Kg} = \frac{5.4}{0.5875}$$

result Mg/Kg = 9.191

Book# EPA Solids-Metals-7
Lock # 0200793

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Page # _____

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1301005		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			1/9/2013	Time:	9:19 AM	
	Date removed from oven at 103-105degC:			1/10/2013	Time:	8:20 AM	

	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1301005-01	0.9211	8.6214	8.5265	98.77%	1.23%	
1D	1301005-01	0.9183	8.6918	8.5981	98.79%	1.21%	
2	1301005-02	0.9163	8.9099	8.7902	98.50%	1.50%	
3	1301005-03	0.9156	8.4892	8.2943	97.43%	2.57%	
4	1301005-04	0.9140	8.0279	7.7311	95.83%	4.17%	
5	1301005-05	0.9135	8.1780	8.0843	98.71%	1.29%	
6	1301005-06	0.9137	8.2530	8.1525	98.63%	1.37%	
7	1301005-07	0.9121	8.5982	8.4376	97.91%	2.09%	
8	1301005-08	0.9106	8.2556	7.3379	87.51%	12.49%	
9	1301005-09	0.9098	8.0270	7.2124	88.55%	11.45%	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	

Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
		RPD<20%	RPD<20%
98.78%	1.22%	0.03%	2.22%

*Duplicate Must Be From First Sample Entered on the List for Correct RPD

PERCENT = SOLIDS	(C - A) / (B - A)	(*100)	PERCENT = MOISTURE	(B - C) / (B - A)	(*100)

Analyst: [signature]

Date: 1/10/13

Checked by: [signature]

Date Checked: 1-10-13

Sample Name: Blank Acquired: 01/09/2013 13:10:33 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0001**	**-.0004**	**.0003**	**.0045**	**.0000**	**.0034**	**.0001**	**-.0002**
Stddev	.0000	.0007	.0001	.0000	.0007	.000	.0006	.0001	.0001
%RSD	55.91	824.7	21.10	4.611	15.38	700.4	17.18	50.74	30.19
#1	-.0001	.0008	-.0004	.0003	.0052	-.0001	.0028	.0001	-.0003
#2	.0000	-.0005	-.0005	.0003	.0046	-.0001	.0034	.0002	-.0002
#3	.0000	-.0001	-.0003	.0003	.0038	.0002	.0040	.0001	-.0001

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0005**	**.0011**	**-.0001**	**.0005**	**.0185**	**.0000**	**.0003**	**.0001**	**.0005**
Stddev	.0001	.0000	.0000	.0007	.0016	.0001	.0006	.0000	.0001
%RSD	14.76	1.589	3.705	141.8	8.761	223700.	180.2	80.54	11.75
#1	-.0006	.0011	-.0001	-.0003	.0201	-.0001	.0005	.0001	.0005
#2	-.0006	.0011	-.0001	.0008	.0169	.0001	-.0003	.0000	.0005
#3	-.0004	.0010	-.0001	.0009	.0184	.0000	.0008	.0000	.0004

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0602**	**-.0002**	**.0000**	**.0000**	**.0004**	**-.0001**	**.0001**	**.0003**	**.0006**
Stddev	.0046	.0001	.000	.0000	.0000	.0005	.0000	.0005	.0001
%RSD	7.667	64.19	145.8	54.56	1.292	350.0	11.85	166.5	14.15
#1	.0654	-.0002	-.0001	.0001	.0004	.0004	.0001	.0007	.0006
#2	.0564	-.0001	.0000	.0001	.0004	-.0003	.0001	-.0002	.0007
#3	.0588	-.0003	.0000	.0000	.0004	-.0005	.0001	.0004	.0005

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.0004**	**-.0002**	**-.0001**
Stddev	.0000	.0000	.0000
%RSD	5.269	6.208	10.74
#1	-.0004	-.0002	-.0001
#2	-.0005	-.0003	-.0001
#3	-.0004	-.0002	-.0001

Sample Name: Blank Acquired: 01/09/2013 13:10:33 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**374.85**	**35.743**	**942.79**
Stddev	1.57	.083	3.83
%RSD	.41892	.23344	.40597
#1	376.26	35.818	946.69
#2	375.15	35.758	939.04
#3	373.16	35.653	942.66

Sample Name: Mid Std Acquired: 01/09/2013 13:16:39 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0647**	**.2535**	**.0271**	**.1060**	**1.426**	**.8459**	**.2038**	**.7091**	**.3791**
Stddev	.0003	.0006	.0001	.0002	.005	.0014	.0009	.0011	.0008
%RSD	.5010	.2278	.2126	.2264	.3636	.1639	.4214	.1583	.2171
#1	.0650	.2529	.0271	.1062	1.431	.8447	.2028	.7103	.3799
#2	.0646	.2541	.0271	.1059	1.427	.8455	.2043	.7086	.3793
#3	.0644	.2535	.0272	.1057	1.421	.8474	.2042	.7082	.3782

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2957**	**.0995**	**.3145**	**.1305**	**.1796**	**.0260**	**.2600**	**.1554**	**.2067**
Stddev	.0005	.0005	.0013	.0011	.0035	.0008	.0006	.0002	.0001
%RSD	.1784	.4654	.4021	.8654	1.946	3.109	.2251	.1542	.0645
#1	.2963	.1000	.3160	.1296	.1826	.0251	.2595	.1557	.2067
#2	.2952	.0993	.3140	.1318	.1758	.0266	.2599	.1554	.2068
#3	.2955	.0992	.3136	.1302	.1803	.0262	.2606	.1552	.2066

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.186**	**.2097**	**.0425**	**.0347**	**.0317**	**.0304**	**.0361**	**3.801**	**.3355**
Stddev	.004	.0004	.0001	.0000	.0001	.0008	.0002	.007	.0014
%RSD	.3465	.1857	.3485	.1222	.1860	2.621	.5435	.1773	.4210
#1	1.182	.2101	.0426	.0347	.0317	.0313	.0363	3.802	.3370
#2	1.186	.2097	.0425	.0348	.0317	.0300	.0359	3.806	.3353
#3	1.190	.2093	.0423	.0347	.0316	.0299	.0361	3.793	.3342

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0233**	**.0331**	**.4665**
Stddev	.0000	.0002	.0008
%RSD	.0673	.5438	.1733
#1	.0233	.0333	.4674
#2	.0233	.0332	.4658
#3	.0233	.0329	.4663

Sample Name: Mid Std Acquired: 01/09/2013 13:16:39 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**382.25**	**35.989**	**957.23**
Stddev	.90	.093	3.51
%RSD	.23483	.25739	.36707
#1	381.45	36.009	961.17
#2	382.09	35.889	954.40
#3	383.22	36.071	956.13

Sample Name: High Std Acquired: 01/09/2013 13:22:43 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1294**	**.4934**	**.0551**	**.2124**	**2.856**	**1.688**	**.3913**	**1.427**	**.7600**
Stddev	.0002	.0007	.0002	.0004	.014	.005	.0015	.003	.0017
%RSD	.1919	.1443	.3011	.2047	.4807	.2820	.3873	.2200	.2241
#1	.1296	.4942	.0552	.2128	2.859	1.682	.3927	1.427	.7596
#2	.1294	.4927	.0550	.2119	2.867	1.691	.3915	1.424	.7586
#3	.1291	.4934	.0553	.2124	2.840	1.690	.3897	1.430	.7619

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.5960**	**.1982**	**.6153**	**.2558**	**.3461**	**.0516**	**.5067**	**.3073**	**.4140**
Stddev	.0014	.0005	.0016	.0005	.0024	.0001	.0017	.0010	.0019
%RSD	.2422	.2412	.2631	.1817	.6853	.1421	.3430	.3414	.4673
#1	.5952	.1980	.6171	.2562	.3458	.0515	.5053	.3062	.4131
#2	.5952	.1979	.6140	.2558	.3486	.0517	.5087	.3074	.4127
#3	.5977	.1988	.6146	.2553	.3439	.0516	.5063	.3083	.4162

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.308**	**.4212**	**.0857**	**.0703**	**.0635**	**.0602**	**.0730**	**7.534**	**.6655**
Stddev	.001	.0013	.0005	.0002	.0002	.0009	.0003	.017	.0009
%RSD	.0452	.3183	.5661	.2506	.3762	1.529	.3841	.2292	.1356
#1	2.307	.4215	.0858	.0703	.0636	.0602	.0729	7.532	.6665
#2	2.308	.4197	.0852	.0701	.0632	.0594	.0728	7.552	.6648
#3	2.309	.4224	.0862	.0704	.0636	.0612	.0733	7.517	.6653

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0478**	**.0674**	**.9346**
Stddev	.0001	.0002	.0020
%RSD	.2795	.3552	.2108
#1	.0477	.0676	.9339
#2	.0477	.0671	.9330
#3	.0479	.0675	.9368

Sample Name: High Std Acquired: 01/09/2013 13:22:43 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**378.69**	**36.722**	**952.75**
Stddev	1.17	.083	5.70
%RSD	.31004	.22580	.59781
#1	378.78	36.812	959.33
#2	379.81	36.707	949.56
#3	377.47	36.648	949.37

Sample Name: S301015-ICV1 Acquired: 01/09/2013 13:28:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**203.1**	**4973.**	**201.2**	**198.9**	**196.7**	**197.6**	**5012.**	**200.8**	**200.1**
Stddev	.6	19.	1.1	.9	2.1	1.2	20.	.8	.7
%RSD	.2850	.3740	.5648	.4568	1.067	.6226	.3895	.3890	.3365
#1	203.5	4987.	200.1	198.3	195.4	196.8	4990.	200.1	199.8
#2	202.4	4952.	202.4	199.9	195.7	197.1	5018.	201.7	200.9
#3	203.2	4979.	201.1	198.4	199.2	199.0	5028.	200.7	199.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.6**	**202.7**	**5041.**	**5013.**	**4889.**	**4988.**	**4982.**	**203.6**	**202.1**
Stddev	1.0	.5	9.	56.	113.	15.	48.	1.0	1.2
%RSD	.4986	.2526	.1871	1.127	2.304	.2929	.9722	.4999	.6064
#1	201.8	202.6	5049.	4990.	4794.	4998.	4952.	202.8	200.7
#2	203.8	202.3	5031.	4972.	4859.	4971.	4957.	203.2	203.1
#3	202.4	203.3	5044.	5077.	5013.	4995.	5038.	204.7	202.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-ICV1 Acquired: 01/09/2013 13:28:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4901.**	**201.6**	**201.0**	**198.5**	**202.6**	**4910.**	**197.7**	**201.1**	**203.6**
Stddev	45.	1.2	1.2	1.3	1.0	65.	1.0	1.9	.4
%RSD	.9102	.6038	.6144	.6428	.5118	1.328	.5252	.9681	.1791
#1	4872.	200.6	200.1	197.1	202.5	4975.	198.1	200.1	204.0
#2	4878.	203.0	200.4	199.4	201.7	4845.	198.5	199.9	203.5
#3	4952.	201.2	202.4	199.1	203.7	4910.	196.5	203.4	203.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**198.8**	**195.8**	**204.0**
Stddev	1.4	1.3	.6
%RSD	.6846	.6541	.2935
#1	198.7	197.2	203.5
#2	200.1	195.6	204.6
#3	197.4	194.7	203.9
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-ICV1 Acquired: 01/09/2013 13:28:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**382.50**	**36.134**	**957.19**
Stddev	2.40	.362	7.48
%RSD	.62629	1.0005	.78145
#1	385.22	36.488	965.52
#2	380.71	36.148	954.99
#3	381.55	35.766	951.05

Sample Name: S301015-ICB1 Acquired: 01/09/2013 13:34:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1808**	**-25.23**	**.0329**	**.0859**	**.3246**	**.8701**	**27.59**	**.0432**	**-.1244**
Stddev	.4875	28.96	1.326	.2933	.1886	.3108	14.50	.0836	.0403
%RSD	269.6	114.8	4034.	341.3	58.09	35.72	52.57	193.5	32.39
#1	.5288	-44.95	-1.489	.3936	.3356	.6764	43.54	-.0422	-.1530
#2	.3901	-38.75	.9373	.0547	.1308	.7052	15.18	.1247	-.1418
#3	-.3764	8.020	.6502	-.1905	.5075	1.229	24.06	.0470	-.0783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0409**	**-.1030**	**.1493**	**9.185**	**-6.310**	**20.01**	**1.989**	**.0332**	**.1133**
Stddev	.0347	.3883	.5048	43.11	90.00	37.71	13.67	.0437	.0493
%RSD	84.82	376.9	338.2	469.4	1426.	188.5	687.2	131.7	43.52
#1	-.0420	-.0285	.2933	25.69	79.02	-14.98	-12.17	.0132	.1173
#2	-.0056	-.5232	-.4119	41.61	2.398	15.05	3.033	.0834	.1604
#3	-.0749	.2427	.5664	-39.74	-100.3	59.95	15.11	.0031	.0621
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301015-ICB1 Acquired: 01/09/2013 13:34:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-9.185**	**.2596**	**.7642**	**-.3372**	**.4017**	**12.96**	**.7450**	**-.0975**	**-.0484**
Stddev	6.685	.0423	.3644	1.303	1.507	39.21	.6345	.0641	.0744
%RSD	72.78	16.28	47.69	386.4	375.2	302.5	85.17	65.75	153.6
#1	-2.189	.2946	.5653	-1.728	1.978	21.45	.8225	-.1677	.0362
#2	-15.51	.2716	1.185	-.1390	-1.025	47.23	1.337	-.0824	-.0780
#3	-9.858	.2127	.5424	.8553	.2517	-29.80	.0753	-.0422	-.1035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.4334**	**-.0352**	**.0591**
Stddev	.3422	1.095	.0722
%RSD	78.96	3114.	122.1
#1	-.6504	-.2989	.1133
#2	-.0389	-.9738	-.0228
#3	-.6108	1.167	.0869
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301015-ICB1 Acquired: 01/09/2013 13:34:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**375.98**	**35.741**	**934.57**
Stddev	.71	.133	7.92
%RSD	.19006	.37266	.84768
#1	375.52	35.858	926.82
#2	376.80	35.596	934.24
#3	375.61	35.770	942.65

Sample Name: S301015-LCV1 Acquired: 01/09/2013 13:41:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.710**	**99.28**	**9.349**	**11.77**	**104.1**	**3.594**	**515.2**	**3.595**	**23.08**
Stddev	.572	36.74	1.306	.18	.2	.204	16.2	.023	.09
%RSD	12.15	37.01	13.97	1.541	.1700	5.667	3.142	.6333	.3942
#1	4.149	60.54	10.33	11.88	104.1	3.360	529.6	3.574	23.00
#2	4.689	133.6	7.867	11.86	104.3	3.728	518.4	3.619	23.18
#3	5.293	103.7	9.848	11.56	103.9	3.695	497.7	3.593	23.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.606**	**10.19**	**53.69**	**47.03**	**515.8**	**574.2**	**531.5**	**5.762**	**10.18**
Stddev	.089	.17	.68	24.79	77.9	97.3	11.7	.066	.07
%RSD	1.597	1.689	1.269	52.70	15.10	16.94	2.194	1.140	.6481
#1	5.508	10.31	53.89	41.02	522.6	567.0	531.4	5.724	10.13
#2	5.627	10.27	54.26	25.80	590.0	674.9	543.2	5.838	10.26
#3	5.684	9.995	52.94	74.27	434.7	480.8	519.9	5.725	10.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-LCV1 Acquired: 01/09/2013 13:41:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1011.**	**20.54**	**8.509**	**21.12**	**19.94**	F **769.8**	**10.61**	**11.22**	**10.16**
Stddev	11.	.37	.727	1.11	1.41	49.5	.49	.02	.14
%RSD	1.110	1.823	8.543	5.272	7.090	6.428	4.595	.2010	1.397
#1	998.2	20.28	7.994	22.15	19.36	813.9	10.38	11.24	10.19
#2	1014.	20.97	9.341	19.94	21.55	779.4	11.16	11.20	10.29
#3	1020.	20.36	8.193	21.28	18.91	716.3	10.27	11.21	10.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value						500.0			
Range						30.00%			

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**19.04**	**20.75**	**22.22**
Stddev	1.65	1.08	.23
%RSD	8.665	5.186	1.030
#1	17.92	19.93	22.19
#2	20.94	21.97	22.46
#3	18.26	20.35	22.01
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-LCV1 Acquired: 01/09/2013 13:41:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**376.66**	**35.798**	**943.42**
Stddev	2.34	.129	8.12
%RSD	.62122	.35931	.86027
#1	378.05	35.941	950.29
#2	373.96	35.764	934.46
#3	377.97	35.691	945.49

Sample Name: S301015-LCV2 Acquired: 01/09/2013 13:47:15 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.00**	**223.3**	**16.52**	**23.33**	**204.4**	**6.843**	**1027.**	**7.086**	**45.92**
Stddev	.67	11.8	.73	.12	1.0	.434	29.	.044	.20
%RSD	6.712	5.304	4.442	.5191	.5065	6.341	2.800	.6240	.4254
#1	10.64	217.0	17.08	23.46	205.4	7.290	1042.	7.103	46.14
#2	9.299	216.0	16.79	23.31	204.4	6.816	1044.	7.119	45.77
#3	10.08	237.0	15.69	23.22	203.3	6.423	993.6	7.036	45.83
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.21**	**19.81**	**105.0**	**110.4**	**1047.**	**1273.**	**1033.**	**11.11**	**20.47**
Stddev	.10	.27	.7	41.4	17.	135.	35.	.12	.21
%RSD	.8575	1.384	.6965	37.50	1.659	10.62	3.369	1.084	1.012
#1	11.25	20.01	105.5	64.75	1066.	1338.	1056.	11.01	20.47
#2	11.11	19.93	104.2	145.5	1032.	1118.	1050.	11.08	20.68
#3	11.29	19.50	105.3	120.8	1042.	1364.	992.9	11.25	20.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-LCV2 Acquired: 01/09/2013 13:47:15 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2008.**	**40.52**	**16.87**	**40.60**	**39.45**	**954.9**	**20.51**	**22.11**	**20.25**
Stddev	8.	.19	.84	.79	1.21	57.9	1.13	.08	.18
%RSD	.3768	.4618	4.959	1.941	3.064	6.062	5.525	.3829	.9051
#1	2017.	40.57	17.83	41.00	39.91	976.5	21.81	22.10	20.05
#2	2002.	40.68	16.37	41.11	38.08	889.3	19.72	22.20	20.28
#3	2007.	40.32	16.39	39.69	40.37	998.9	20.00	22.04	20.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**39.91**	**42.16**	**43.09**
Stddev	.82	.40	.13
%RSD	2.065	.9567	.3013
#1	38.97	41.74	43.17
#2	40.49	42.55	43.16
#3	40.28	42.19	42.94
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-LCV2 Acquired: 01/09/2013 13:47:15 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**378.14**	**36.080**	**948.99**
Stddev	1.24	.097	5.66
%RSD	.32747	.26904	.59644
#1	377.09	36.085	955.44
#2	377.83	35.980	946.68
#3	379.51	36.174	944.85

Sample Name: S301015-IFA1 Acquired: 01/09/2013 13:53:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.252**	**291300.**	**-6.311**	**-3.550**	**.2262**	**.3418**	**273600.**	**1.527**
Stddev	.479	11060.	.031	.725	.2611	.2071	10130.	.328
%RSD	38.24	3.798	.4850	20.43	115.4	60.58	3.702	21.46
#1	1.357	292800.	-6.283	-4.249	.4155	.1183	275800.	1.769
#2	.7294	279500.	-6.307	-3.600	-.0716	.5272	262600.	1.659
#3	1.669	301500.	-6.343	-2.801	.3348	.3799	282500.	1.154
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.743**	**1.586**	**-3.871**	**205500.**	**273200.**	**357.3**	**294400.**	**247300.**
Stddev	.119	.086	.402	882.	10770.	40.2	11090.	8533.
%RSD	3.183	5.423	10.39	.4292	3.942	11.25	3.766	3.450
#1	-3.876	1.499	-4.034	206500.	275600.	311.2	297900.	248700.
#2	-3.705	1.590	-3.413	205100.	261400.	376.1	282000.	238200.
#3	-3.647	1.671	-4.166	204800.	282500.	384.7	303400.	255000.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S301015-IFA1 Acquired: 01/09/2013 13:53:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4296**	**-1.622**	**298000.**	**-6.034**	**.8109**	**4.421**	**-2.208**	F **581.7**
Stddev	.1491	.117	11930.	.185	.9848	1.342	2.356	45.1
%RSD	34.70	7.234	4.003	3.063	121.4	30.35	106.7	7.746
#1	.4600	-1.730	299600.	-6.205	-.2746	3.467	-4.750	535.1
#2	.5612	-1.497	285400.	-6.059	1.647	5.955	-.0988	625.0
#3	.2677	-1.638	309100.	-5.838	1.060	3.841	-1.775	585.0
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit								500.0
Low Limit								-500.0

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8898**	**8.409**	**-4.153**	**-1.988**	**5.688**	**3.129**
Stddev	.6089	.371	.175	1.999	.797	.118
%RSD	68.44	4.408	4.216	100.6	14.01	3.763
#1	1.589	8.402	-4.321	-.2126	4.914	3.205
#2	.4739	8.042	-3.972	-4.154	6.506	3.189
#3	.6067	8.783	-4.167	-1.598	5.644	2.993
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S301015-IFA1 Acquired: 01/09/2013 13:53:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**354.16**	**36.207**	**913.41**
Stddev	8.60	1.061	4.57
%RSD	2.4286	2.9303	.50047
#1	344.36	36.056	910.24
#2	357.66	37.335	918.65
#3	360.46	35.229	911.34

Sample Name: Rinse Acquired: 01/09/2013 13:59:45 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4606**	**11.21**	**-.1291**	**-.1435**	**.2742**	**.1941**	**53.79**	**.0128**	**-.1285**
Stddev	.3750	11.86	.9622	.4307	.2773	.1056	6.81	.0453	.1422
%RSD	81.43	105.8	745.0	300.1	101.1	54.41	12.65	352.8	110.6
#1	.0626	18.82	.5484	.2952	-.0368	.0722	45.96	.0640	-.1667
#2	.5116	17.26	-1.230	-.1600	.4958	.2584	58.27	-.0037	-.2477
#3	.8074	-2.459	.2946	-.5656	.3635	.2517	57.15	-.0219	.0289

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0352**	**-.2411**	**15.03**	**44.21**	**14.27**	**-132.2**	**9.306**	**.1092**	**-.0728**
Stddev	.0869	.2962	1.83	53.59	54.07	368.6	21.59	.0992	.1949
%RSD	246.8	122.9	12.19	121.2	379.0	278.9	232.0	90.84	267.8
#1	-.0921	-.4634	14.27	54.57	71.75	-548.6	33.98	.0033	-.0924
#2	.0648	.0952	13.71	-13.80	-35.57	152.1	.0337	.1999	.1312
#3	-.0782	-.3551	17.12	91.87	6.624	-.019	-6.100	.1244	-.2571

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**165.5**	**.3397**	**.1847**	**.3596**	**-.6922**	**38.71**	**.1395**	**-.0112**	**-.1902**
Stddev	11.7	.2741	.6822	1.096	1.725	154.7	.6508	.0920	.0127
%RSD	7.074	80.69	369.3	304.6	249.2	399.7	466.7	821.1	6.678
#1	178.7	.6129	-.3419	1.364	-1.110	217.2	.3632	.0907	-.2037
#2	156.2	.3414	.9554	-.8085	1.203	-43.66	.6489	-.0883	-.1884
#3	161.7	.0648	-.0593	.5234	-2.169	-57.40	-.5938	-.0360	-.1785

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.5389**	**-.4475**	**3.353**
Stddev	.1215	.8249	.017
%RSD	22.55	184.3	.5052
#1	-.6783	.3707	3.335
#2	-.4548	-1.279	3.368
#3	-.4837	-.4344	3.356

Sample Name: Rinse Acquired: 01/09/2013 13:59:45 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**375.88**	**35.172**	**933.98**
Stddev	4.30	.112	7.22
%RSD	1.1452	.31787	.77355
#1	372.06	35.200	939.67
#2	375.03	35.266	925.85
#3	380.54	35.048	936.42

Sample Name: B301033-BLK1 Acquired: 01/09/2013 14:05:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4570**	**-10.28**	**1.287**	**-.3175**	**-.5344**	**.3522**	**63.46**	**-.0138**	**-.0830**
Stddev	.1832	11.35	1.653	.1519	.6673	.3543	16.86	.0491	.1031
%RSD	40.09	110.4	128.4	47.83	124.9	100.6	26.56	354.6	124.3
#1	-.3143	.5760	-.5930	-.4703	.2044	.0639	59.57	.0078	.0353
#2	-.6636	-22.07	1.942	-.3157	-1.093	.7477	48.89	-.0700	-.1306
#3	-.3931	-9.354	2.512	-.1666	-.7142	.2449	81.92	.0207	-.1537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0227**	**.4357**	**6.117**	**17.31**	**91.15**	**89.75**	**-5.033**	**.4167**	**-.2377**
Stddev	.0831	.7596	1.763	24.12	114.5	38.76	13.97	.0339	.0360
%RSD	365.8	174.3	28.81	139.3	125.6	43.18	277.6	8.132	15.15
#1	.0166	-.4388	4.578	29.88	-21.85	60.75	3.107	.4556	-.2734
#2	.0334	.9306	5.733	32.54	88.19	74.74	2.962	.3936	-.2014
#3	-.1181	.8154	8.040	-10.50	207.1	133.8	-21.17	.4008	-.2382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B301033-BLK1 Acquired: 01/09/2013 14:05:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**110.4**	**.1418**	**.4653**	**-.4946**	**-.4076**	**34.20**	**.8982**	**.0597**	**.0293**
Stddev	14.7	.1635	.6150	.9807	1.307	77.91	.2616	.1063	.0416
%RSD	13.34	115.2	132.2	198.3	320.8	227.8	29.13	178.2	141.8
#1	93.44	-.0448	.3604	-1.490	-1.478	-4.596	1.197	.1822	.0475
#2	119.4	.2111	-.0905	.4705	-.7940	123.9	.7115	.0058	-.0183
#3	118.5	.2593	1.126	-.4640	1.049	-16.70	.7858	-.0089	.0588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.202**	**.2833**	**1.670**
Stddev	1.139	.6535	.037
%RSD	94.78	230.7	2.226
#1	-1.671	.0683	1.707
#2	.0969	1.017	1.632
#3	-2.032	-.2356	1.670
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301033-BLK1 Acquired: 01/09/2013 14:05:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**374.35**	**35.757**	**948.23**
Stddev	1.80	.406	5.76
%RSD	.48120	1.1350	.60725
#1	375.78	35.304	951.87
#2	372.33	35.879	951.23
#3	374.96	36.087	941.59

Sample Name: B301033-SRM1 Acquired: 01/09/2013 14:12:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091542
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**40.65**	**5537.**	**169.8**	**82.24**	**193.7**	**106.9**	**6414.**	**96.91**	**126.2**
Stddev	.56	5.	.9	.44	.2	.1	7.	.44	.6
%RSD	1.386	.0972	.5552	.5368	.1131	.1220	.1155	.4494	.4893
#1	40.23	5542.	170.9	82.75	193.8	106.7	6410.	97.36	126.9
#2	40.43	5536.	169.2	81.96	193.9	106.8	6423.	96.86	125.8
#3	41.29	5532.	169.3	82.01	193.5	107.0	6410.	96.49	125.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**111.6**	**116.8**	**8870.**	**10030.**	**2539.**	**2235.**	**2225.**	**309.1**	**64.61**
Stddev	.7	1.6	102.	23.	5.	14.	2.	4.7	.28
%RSD	.6712	1.363	1.154	.2304	.1886	.6100	.0694	1.516	.4362
#1	112.5	116.4	8811.	10020.	2534.	2236.	2224.	306.7	64.93
#2	111.3	115.5	8812.	10010.	2544.	2248.	2224.	306.1	64.49
#3	111.1	118.6	8988.	10050.	2538.	2221.	2227.	314.5	64.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B301033-SRM1 Acquired: 01/09/2013 14:12:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091542
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**326.5**	**67.01**	**74.13**	**206.1**	**124.0**	**1513.**	**142.5**	**122.1**	**132.2**
Stddev	1.6	.32	.55	1.4	.9	5.	.7	.2	2.0
%RSD	.4901	.4714	.7388	.6724	.7031	.3492	.4984	.1764	1.531
#1	326.8	67.35	74.72	207.7	125.0	1519.	143.3	122.0	132.0
#2	328.0	66.97	73.63	205.6	123.6	1513.	142.3	122.3	130.3
#3	324.8	66.72	74.05	205.1	123.4	1508.	142.0	121.9	134.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**197.3**	**80.23**	**257.7**
Stddev	1.1	1.12	.7
%RSD	.5788	1.397	.2602
#1	198.5	79.81	258.4
#2	197.2	79.39	257.2
#3	196.2	81.51	257.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301033-SRM1 Acquired: 01/09/2013 14:12:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091542
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**378.24**	**37.799**	**973.81**
Stddev	1.87	.155	10.12
%RSD	.49517	.41121	1.0395
#1	376.08	37.947	978.10
#2	379.14	37.637	981.09
#3	379.48	37.812	962.25

Sample Name: B301033-SRM2 Acquired: 01/09/2013 14:18:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094073
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**40.92**	**5906.**	**170.6**	**83.58**	**195.1**	**107.3**	**6584.**	**97.59**	**128.2**
Stddev	.18	37.	.7	.26	.8	.6	30.	.47	.5
%RSD	.4375	.6182	.4216	.3052	.3897	.5187	.4553	.4776	.4071
#1	41.11	5899.	171.4	83.87	195.1	107.1	6579.	98.12	128.8
#2	40.76	5874.	170.1	83.42	194.3	106.9	6556.	97.39	128.0
#3	40.88	5946.	170.3	83.44	195.8	108.0	6616.	97.25	127.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**113.4**	**117.1**	**9178.**	**10490.**	**2613.**	**2312.**	**2292.**	**308.2**	**65.42**
Stddev	.4	.3	34.	24.	14.	20.	16.	1.3	.14
%RSD	.3548	.2345	.3753	.2245	.5546	.8622	.6855	.4364	.2217
#1	113.9	117.4	9186.	10490.	2627.	2292.	2285.	308.7	65.58
#2	113.3	116.8	9140.	10470.	2598.	2311.	2281.	306.6	65.33
#3	113.1	117.2	9207.	10520.	2614.	2332.	2310.	309.2	65.33
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B301033-SRM2 Acquired: 01/09/2013 14:18:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094073
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**328.4**	**68.23**	**71.52**	**209.5**	**126.6**	**1556.**	**142.6**	**124.0**	**142.2**
Stddev	1.7	.25	.24	1.1	.1	7.	.6	.7	1.1
%RSD	.5135	.3635	.3336	.5176	.1064	.4734	.4420	.5466	.7907
#1	329.8	68.52	71.78	210.7	126.8	1549.	143.3	124.0	143.4
#2	326.5	68.06	71.30	208.9	126.5	1555.	142.3	123.3	141.2
#3	328.8	68.12	71.49	208.8	126.6	1564.	142.2	124.6	142.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**198.6**	**80.91**	**262.1**
Stddev	1.0	.45	1.1
%RSD	.4935	.5604	.4128
#1	199.8	81.43	263.4
#2	198.1	80.66	261.7
#3	198.1	80.63	261.3
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301033-SRM2 Acquired: 01/09/2013 14:18:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094073
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**377.87**	**37.818**	**983.82**
Stddev	.60	.230	2.73
%RSD	.15931	.60875	.27747
#1	377.61	37.881	982.51
#2	378.56	38.010	986.95
#3	377.45	37.563	981.98

Sample Name: 1301005-01 Acquired: 01/09/2013 14:24:29 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.827**	**52920.**	**64.85**	**17.43**	**616.4**	**2.492**	**9554.**	**.5422**
Stddev	.658	1591.	2.15	.16	17.9	.482	238.	.0756
%RSD	17.19	3.005	3.317	.9444	2.911	19.34	2.487	13.94
#1	-3.071	54740.	66.29	17.42	637.0	2.474	9829.	.4555
#2	-4.137	51810.	62.38	17.60	603.9	2.983	9413.	.5941
#3	-4.273	52210.	65.89	17.27	608.3	2.020	9421.	.5771

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.87**	**87.43**	**74.77**	**117700.**	**140800.**	**4419.**	**18830.**	**18530.**
Stddev	.14	.19	.69	431.	3618.	264.	454.	484.
%RSD	.3557	.2193	.9212	.3660	2.570	5.970	2.412	2.613
#1	40.02	87.65	75.38	117900.	144900.	4652.	19350.	19080.
#2	39.88	87.29	74.91	117200.	138200.	4473.	18550.	18180.
#3	39.73	87.37	74.03	118000.	139300.	4133.	18590.	18330.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**850.0**	**1.963**	**366.7**	**76.65**	**108.0**	**5.854**	**-1.142**	**18310.**
Stddev	1.6	.444	35.5	.12	.4	.671	1.936	1115.
%RSD	.1906	22.61	9.672	.1627	.4014	11.47	169.5	6.090
#1	851.9	2.291	407.6	76.63	108.1	5.565	-.9474	19600.
#2	848.9	1.458	344.4	76.53	107.5	6.622	-3.168	17710.
#3	849.3	2.140	348.1	76.78	108.4	5.377	.6895	17620.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0214**	**92.06**	**1681.**	**-.5205**	**156.7**	**265.8**
Stddev	.4651	2.38	12.	1.093	.9	1.1
%RSD	2173.	2.582	.7305	210.0	.5948	.4196
#1	-.3857	94.74	1694.	-.3263	157.5	267.1
#2	-.0784	90.23	1677.	-1.698	155.7	265.1
#3	.5283	91.21	1670.	.4624	156.8	265.2

Sample Name: 1301005-01 Acquired: 01/09/2013 14:24:29 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**380.94**	**35.732**	**976.63**
Stddev	.92	.730	4.36
%RSD	.24041	2.0428	.44654
#1	380.14	34.892	972.87
#2	381.94	36.214	981.41
#3	380.75	36.090	975.60

Sample Name: B301033-MS1 Acquired: 01/09/2013 14:30:45 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**195.2**	**75970.**	**258.1**	**220.3**	**829.5**	**193.1**	**13980.**	**189.2**
Stddev	.5	71.	2.2	.6	4.1	1.0	21.	.4
%RSD	.2765	.0940	.8678	.2812	.4888	.5256	.1514	.2201
#1	194.9	75960.	255.6	221.0	824.9	192.0	13950.	189.0
#2	195.9	75900.	260.0	220.1	831.8	193.4	13980.	189.6
#3	195.0	76050.	258.7	219.8	831.9	194.0	14000.	188.8

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**236.1**	**291.5**	**278.1**	**124800.**	**148000.**	**10940.**	**25550.**	**24980.**
Stddev	.1	.5	.3	158.	551.	60.	234.	35.
%RSD	.0542	.1559	.1019	.1269	.3722	.5513	.9165	.1398
#1	236.2	291.9	278.4	124800.	147400.	10910.	25300.	25000.
#2	236.0	291.5	277.9	124600.	148000.	10910.	25760.	24990.
#3	236.0	291.0	278.0	124900.	148500.	11010.	25590.	24940.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1064.**	**193.2**	**5227.**	**279.5**	**259.6**	**194.2**	**183.9**	**28900.**
Stddev	1.	.6	8.	.3	.6	1.9	.4	170.
%RSD	.1023	.3086	.1480	.0965	.2306	.9732	.2229	.5891
#1	1065.	193.6	5228.	279.8	260.3	196.4	184.4	29100.
#2	1063.	193.5	5219.	279.3	259.1	192.9	183.6	28810.
#3	1064.	192.5	5234.	279.5	259.4	193.4	183.8	28790.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**190.0**	**294.9**	**1992.**	**194.4**	**362.6**	**468.1**
Stddev	.6	.2	6.	1.5	.8	.6
%RSD	.3221	.0522	.2987	.7686	.2103	.1373
#1	189.9	295.0	1985.	195.5	363.4	468.8
#2	189.4	294.7	1994.	192.7	362.6	468.0
#3	190.7	295.0	1996.	195.1	361.8	467.6

Sample Name: B301033-MS1 Acquired: 01/09/2013 14:30:45 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**381.13**	**37.082**	**975.74**
Stddev	.45	.116	.54
%RSD	.11922	.31351	.05488
#1	381.54	37.215	976.36
#2	380.64	37.024	975.38
#3	381.19	37.005	975.48

Sample Name: B301033-MSD1 Acquired: 01/09/2013 14:37:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**196.4**	**79820.**	**268.4**	**224.2**	**862.5**	**197.6**	**14680.**	**195.4**
Stddev	2.4	156.	5.9	1.4	.4	2.2	121.	.3
%RSD	1.216	.1954	2.187	.6407	.0505	1.119	.8205	.1284
#1	196.5	79960.	274.5	222.6	862.7	195.8	14650.	195.6
#2	198.8	79860.	268.0	225.4	862.8	196.9	14580.	195.3
#3	194.0	79660.	262.7	224.6	862.0	200.0	14810.	195.1

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**242.0**	**300.5**	**273.8**	**151900.**	**156900.**	**11300.**	**26730.**	**26300.**
Stddev	.6	1.1	1.4	697.	270.	781.	535.	130.
%RSD	.2325	.3525	.5193	.4587	.1719	6.908	2.000	.4953
#1	242.0	301.6	275.0	152600.	157200.	12200.	27060.	26400.
#2	242.6	300.4	272.2	151700.	156800.	10830.	26110.	26330.
#3	241.5	299.5	274.1	151200.	156700.	10870.	27010.	26150.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1131.**	**195.0**	**5192.**	**285.8**	**275.3**	**198.1**	**184.0**	**33420.**
Stddev	3.	1.0	65.	1.4	3.7	3.2	3.1	838.
%RSD	.2516	.5303	1.242	.4991	1.358	1.640	1.689	2.508
#1	1134.	193.8	5124.	286.2	277.0	200.1	180.8	34290.
#2	1131.	195.6	5201.	287.0	271.1	199.8	184.2	33330.
#3	1129.	195.6	5252.	284.2	277.9	194.3	187.0	32620.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**200.2**	**303.1**	**2175.**	**198.0**	**377.7**	**492.1**
Stddev	5.3	.8	20.	8.6	3.3	1.1
%RSD	2.630	.2558	.9246	4.344	.8617	.2325
#1	199.4	303.0	2191.	199.6	379.0	493.1
#2	195.3	302.4	2182.	188.7	374.0	492.4
#3	205.8	303.9	2153.	205.7	380.0	490.8

Sample Name: B301033-MSD1 Acquired: 01/09/2013 14:37:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**374.65**	**35.691**	**960.90**
Stddev	.40	.087	3.83
%RSD	.10736	.24278	.39877
#1	374.68	35.791	965.27
#2	374.23	35.648	959.34
#3	375.04	35.635	958.10

Sample Name: 1301005-02 Acquired: 01/09/2013 14:43:04 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.863**	**48130.**	**64.20**	**14.94**	**573.6**	**2.273**	**8864.**	**.3950**
Stddev	.667	182.	.61	.46	1.9	.087	37.	.0772
%RSD	23.28	.3780	.9478	3.079	.3268	3.822	.4222	19.55
#1	-2.717	48260.	64.82	15.44	575.7	2.369	8866.	.3075
#2	-3.591	48210.	63.60	14.54	573.1	2.253	8900.	.4537
#3	-2.282	47920.	64.17	14.85	572.0	2.198	8825.	.4238

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**36.81**	**82.30**	**69.97**	**113100.**	**132800.**	**3795.**	**16900.**	**16510.**
Stddev	.30	.88	.24	118.	226.	70.	87.	22.
%RSD	.8071	1.069	.3396	.1041	.1704	1.849	.5135	.1350
#1	36.64	81.90	69.72	113300.	133100.	3797.	16960.	16520.
#2	37.15	83.30	70.20	113000.	132700.	3864.	16950.	16520.
#3	36.64	81.68	69.99	113100.	132700.	3723.	16800.	16490.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**779.2**	**1.630**	**298.8**	**71.41**	**68.56**	**3.558**	**-2.935**	**15510.**
Stddev	2.0	.034	9.9	.73	1.09	1.013	1.209	423.
%RSD	.2525	2.061	3.302	1.023	1.590	28.48	41.17	2.724
#1	778.3	1.668	306.7	71.18	67.48	2.965	-1.582	15900.
#2	781.4	1.603	302.0	72.23	69.66	4.727	-3.317	15570.
#3	777.8	1.619	287.8	70.82	68.53	2.980	-3.907	15070.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6256**	**84.02**	**1509.**	**-2.381**	**148.6**	**247.3**
Stddev	.5586	.53	3.	.689	1.0	2.6
%RSD	89.29	.6258	.2088	28.93	.6511	1.066
#1	-.2913	84.62	1512.	-2.824	148.5	246.1
#2	-1.271	83.73	1505.	-2.731	149.6	250.4
#3	-.3150	83.70	1509.	-1.587	147.7	245.5

Sample Name: 1301005-02 Acquired: 01/09/2013 14:43:04 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**379.82**	**36.257**	**981.78**
Stddev	3.02	.033	2.32
%RSD	.79543	.09215	.23603
#1	381.15	36.295	980.47
#2	376.36	36.233	980.41
#3	381.94	36.242	984.45

Sample Name: 1301005-03 Acquired: 01/09/2013 14:49:21 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.190**	**63450.**	**22.41**	**19.47**	**154.4**	**1.895**	**8326.**	**.1011**
Stddev	.537	129.	.54	.27	.6	.258	19.	.0248
%RSD	24.51	.2031	2.407	1.399	.4014	13.63	.2322	24.51
#1	-2.129	63600.	22.80	19.26	155.2	2.078	8346.	.0745
#2	-2.755	63380.	21.79	19.78	154.2	2.007	8308.	.1235
#3	-1.687	63370.	22.64	19.36	154.0	1.600	8323.	.1054

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**41.13**	**109.0**	**74.10**	**94580.**	**107600.**	**5330.**	**21730.**	**21150.**
Stddev	.30	.2	.21	366.	160.	82.	198.	5.
%RSD	.7273	.1903	.2782	.3869	.1490	1.542	.9097	.0251
#1	41.39	109.0	73.97	94730.	107500.	5244.	21510.	21150.
#2	40.81	109.3	73.98	94840.	107500.	5338.	21770.	21140.
#3	41.21	108.8	74.33	94160.	107800.	5408.	21900.	21140.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1270.**	**.8157**	**404.2**	**87.82**	**68.86**	**4.135**	**.1589**	**18830.**
Stddev	3.	.1846	11.2	.29	.99	.684	.4418	498.
%RSD	.2017	22.63	2.761	.3306	1.438	16.54	278.0	2.644
#1	1272.	.6133	410.9	88.10	68.14	3.813	-.1059	19210.
#2	1268.	.9747	391.3	87.84	69.99	3.671	.6689	19020.
#3	1268.	.8590	410.3	87.52	68.45	4.920	-.0862	18270.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.145**	**117.8**	**1672.**	**-1.973**	**155.5**	**275.5**
Stddev	.119	.2	4.	.910	.4	.4
%RSD	10.36	.2031	.2668	46.10	.2841	.1426
#1	-1.282	117.6	1674.	-1.237	155.8	275.4
#2	-1.082	117.6	1667.	-2.990	155.6	275.1
#3	-1.072	118.0	1674.	-1.692	155.0	275.9

Sample Name: 1301005-03 Acquired: 01/09/2013 14:49:21 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**381.09**	**36.201**	**980.41**
Stddev	.25	.208	2.78
%RSD	.06605	.57338	.28388
#1	381.31	36.130	977.20
#2	381.15	36.435	981.87
#3	380.82	36.039	982.15

Sample Name: 1301005-04 Acquired: 01/09/2013 14:55:37 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.040**	**53900.**	**12.54**	**11.57**	**254.6**	**3.068**	**7252.**	**.2978**
Stddev	.111	184.	.82	.26	1.1	.055	45.	.0736
%RSD	2.193	.3417	6.505	2.209	.4258	1.785	.6166	24.71
#1	-4.984	53720.	13.20	11.31	254.9	3.118	7204.	.2564
#2	-4.969	53910.	12.78	11.59	253.3	3.010	7292.	.2543
#3	-5.168	54090.	11.63	11.82	255.4	3.076	7260.	.3828

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**62.06**	**72.91**	**112.2**	**105100.**	**122000.**	**4373.**	**19100.**	**18700.**
Stddev	.24	.31	.6	612.	59.	121.	196.	92.
%RSD	.3875	.4244	.5753	.5824	.0484	2.766	1.027	.4947
#1	61.99	72.88	112.5	105400.	122100.	4370.	19240.	18640.
#2	61.85	72.61	111.4	105500.	122000.	4496.	19180.	18650.
#3	62.32	73.23	112.6	104400.	122000.	4254.	18880.	18800.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2417.**	**.2127**	**281.7**	**89.40**	**95.21**	**5.171**	**-1.740**	**12620.**
Stddev	3.	.1992	4.5	.65	1.38	.904	2.455	176.
%RSD	.1335	93.65	1.601	.7249	1.453	17.49	141.1	1.397
#1	2419.	.1725	283.8	89.09	93.65	5.281	-4.245	12670.
#2	2419.	.4290	284.7	88.96	95.71	4.217	.6616	12420.
#3	2414.	.0367	276.5	90.15	96.28	6.015	-1.638	12770.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0147**	**93.11**	**1066.**	**-1.974**	**146.4**	**258.1**
Stddev	.6799	.23	5.	.767	1.0	2.1
%RSD	4619.	.2418	.4380	38.89	.6948	.8036
#1	-.2227	92.95	1068.	-1.508	147.1	257.3
#2	.7449	93.02	1069.	-2.859	146.8	256.6
#3	-.5663	93.37	1061.	-1.553	145.2	260.4

Sample Name: 1301005-04 Acquired: 01/09/2013 14:55:37 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**384.02**	**36.557**	**991.82**
Stddev	3.08	.076	2.39
%RSD	.80191	.20906	.24079
#1	386.20	36.636	989.87
#2	385.36	36.552	991.11
#3	380.50	36.483	994.48

Sample Name: S301015-CCV1 Acquired: 01/09/2013 15:01:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**205.1**	**4954.**	**203.6**	**202.0**	**204.2**	**198.8**	**5029.**	**199.7**	**201.8**
Stddev	1.2	33.	.9	1.0	.5	.8	49.	.3	.6
%RSD	.5787	.6589	.4272	.4830	.2232	.3815	.9767	.1624	.2761
#1	206.3	4942.	204.0	201.7	204.7	199.7	4974.	200.0	202.2
#2	205.0	4929.	204.3	203.0	203.8	198.2	5047.	199.5	202.0
#3	203.9	4991.	202.6	201.2	204.1	198.6	5067.	199.4	201.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.3**	**199.6**	**5050.**	**5140.**	**4890.**	**5053.**	**5018.**	**197.7**	**199.6**
Stddev	.6	.2	3.	41.	126.	47.	10.	.3	.5
%RSD	.2811	.1012	.0633	.8061	2.584	.9286	.1994	.1395	.2531
#1	202.9	199.9	5054.	5100.	4969.	5039.	5010.	197.4	200.0
#2	202.2	199.5	5048.	5136.	4744.	5014.	5014.	197.9	199.0
#3	201.8	199.6	5049.	5183.	4957.	5105.	5029.	197.8	199.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-CCV1 Acquired: 01/09/2013 15:01:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5039.**	**202.0**	**198.3**	**199.0**	**199.7**	**4866.**	**200.8**	**203.3**	**204.5**
Stddev	47.	.5	1.4	.6	1.9	174.	1.2	1.2	.4
%RSD	.9249	.2287	.6887	.3184	.9643	3.573	.6100	.5824	.2124
#1	5010.	202.5	199.4	198.8	201.9	4783.	201.5	202.8	204.9
#2	5015.	202.1	196.8	199.7	198.3	4749.	201.5	202.4	204.7
#3	5093.	201.5	198.7	198.5	198.8	5066.	199.4	204.6	204.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**200.1**	**198.5**	**203.4**
Stddev	1.0	.7	.4
%RSD	.5104	.3742	.1884
#1	200.3	197.6	203.9
#2	201.0	199.0	203.3
#3	199.0	198.9	203.1
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-CCV1 Acquired: 01/09/2013 15:01:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**381.06**	**35.428**	**961.73**
Stddev	.83	.202	6.21
%RSD	.21888	.56989	.64603
#1	380.14	35.559	968.89
#2	381.28	35.530	957.81
#3	381.77	35.196	958.49

Sample Name: S301015-CCB1 Acquired: 01/09/2013 15:07:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2067**	**-5.324**	**.6516**	**.0691**	**.4129**	**-.3620**	**3.316**	**.0074**	**-.0926**
Stddev	.4276	9.387	1.101	.2597	.7198	.2711	17.27	.0063	.1226
%RSD	206.9	176.3	168.9	376.1	174.3	74.89	520.7	85.67	132.5
#1	-.1387	-16.15	-.1775	-.1008	.2803	-.5369	-4.668	.0019	-.0426
#2	.6850	.5994	1.900	-.0601	-.2314	-.4993	23.13	.0059	-.0028
#3	.0737	-.4254	.2319	.3681	1.190	-.0497	-8.514	.0143	-.2323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1954**	**-.0413**	**.9669**	**4.371**	**43.56**	**-25.41**	**-8.190**	**.1955**	**.0279**
Stddev	.0941	.0703	.5565	21.45	64.09	70.51	12.51	.0381	.0625
%RSD	48.16	170.1	57.56	490.7	147.1	277.5	152.8	19.49	224.2
#1	-.3023	-.0082	1.120	23.07	62.82	-106.8	-15.38	.2173	.0240
#2	-.1247	.0063	1.431	-19.05	95.80	15.33	-15.45	.2177	-.0326
#3	-.1593	-.1221	.3497	9.094	-27.96	15.27	6.257	.1515	.0922
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301015-CCB1 Acquired: 01/09/2013 15:07:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-15.14**	**.1086**	**1.746**	**.3351**	**.8984**	**56.43**	**.6579**	**-.1510**	**-.0133**
Stddev	17.23	.0416	.488	1.889	.9200	111.4	.9467	.2475	.1536
%RSD	113.8	38.33	27.94	563.7	102.4	197.4	143.9	163.8	1159.
#1	-31.28	.0689	1.638	-1.567	1.432	139.1	1.574	-.1954	-.0810
#2	-17.17	.1049	1.321	2.210	-.1639	100.4	-.3164	.1156	-.1214
#3	3.013	.1519	2.279	.3629	1.427	-70.22	.7157	-.3734	.1626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.931**	**.7512**	**.0465**
Stddev	1.042	.4018	.0582
%RSD	53.97	53.48	125.2
#1	-1.292	.2991	.1126
#2	-1.368	.8874	.0029
#3	-3.134	1.067	.0240
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301015-CCB1 Acquired: 01/09/2013 15:07:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**372.20**	**35.062**	**939.12**
Stddev	.30	.106	4.40
%RSD	.08065	.30155	.46800
#1	371.91	35.151	944.15
#2	372.51	34.946	936.01
#3	372.19	35.090	937.21

Sample Name: 1301005-05 Acquired: 01/09/2013 15:14:09 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.986**	**58350.**	**40.53**	**12.33**	**459.9**	**2.213**	**8968.**	**1.639**
Stddev	.309	1454.	.10	.57	12.9	.425	183.	.082
%RSD	10.33	2.492	.2454	4.624	2.798	19.18	2.041	4.990
#1	-2.794	60030.	40.60	12.96	474.7	2.147	9179.	1.548
#2	-2.823	57520.	40.57	11.85	452.9	2.667	8847.	1.706
#3	-3.342	57490.	40.42	12.17	452.1	1.826	8879.	1.664

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43.60**	**102.8**	**177.1**	**100300.**	**116800.**	**4966.**	**22330.**	**21590.**
Stddev	.07	.4	1.6	306.	2780.	160.	579.	501.
%RSD	.1677	.3494	.8991	.3053	2.380	3.220	2.592	2.322
#1	43.56	103.1	175.2	100000.	120000.	5151.	22980.	22170.
#2	43.69	102.9	178.0	100700.	115000.	4871.	21890.	21300.
#3	43.56	102.4	177.9	100300.	115300.	4877.	22110.	21310.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1143.**	**2.687**	**346.7**	**126.8**	**426.1**	**7.670**	**-2.995**	**15690.**
Stddev	2.	.092	27.7	.6	.7	.811	.728	503.
%RSD	.1891	3.415	7.991	.4350	.1677	10.57	24.31	3.208
#1	1141.	2.756	378.5	127.4	425.3	8.606	-3.706	16270.
#2	1142.	2.583	328.3	126.7	426.3	7.241	-2.251	15380.
#3	1145.	2.722	333.1	126.3	426.7	7.163	-3.027	15430.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.42**	**75.08**	**1705.**	**-2.261**	**180.3**	**656.2**
Stddev	.20	2.01	7.	.272	.3	.7
%RSD	1.783	2.680	.4223	12.03	.1910	.1102
#1	11.39	77.40	1697.	-2.438	180.4	657.1
#2	11.64	74.03	1711.	-2.396	179.9	655.8
#3	11.24	73.81	1706.	-1.948	180.6	655.8

Sample Name: 1301005-05 Acquired: 01/09/2013 15:14:09 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**382.37**	**35.799**	**986.49**
Stddev	.57	.720	2.76
%RSD	.14820	2.0110	.28027
#1	381.74	34.974	989.59
#2	382.54	36.295	985.60
#3	382.84	36.130	984.28

Sample Name: 1301005-06 Acquired: 01/09/2013 15:20:25 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-6.092**	**67530.**	**55.87**	**16.76**	**527.7**	**3.707**	**13280.**	**.6949**
Stddev	.736	82.	1.17	.41	2.3	.360	48.	.0249
%RSD	12.08	.1209	2.103	2.421	.4319	9.709	.3631	3.577
#1	-5.405	67600.	57.04	16.70	529.8	3.335	13280.	.6806
#2	-6.003	67440.	55.88	17.19	528.0	4.053	13230.	.6806
#3	-6.868	67560.	54.69	16.38	525.3	3.733	13330.	.7236

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**60.18**	**102.3**	**118.5**	**128000.**	**154200.**	**5380.**	**22050.**	**21560.**
Stddev	.39	.2	.4	322.	521.	43.	272.	14.
%RSD	.6517	.1886	.3625	.2512	.3379	.7934	1.233	.0670
#1	60.37	102.3	118.0	128300.	154700.	5429.	22190.	21540.
#2	60.44	102.5	118.7	127600.	154300.	5352.	22220.	21570.
#3	59.73	102.1	118.8	128100.	153600.	5360.	21740.	21560.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3962.**	**2.662**	**298.2**	**100.7**	**3470.**	**4.694**	**-1.062**	**12470.**
Stddev	10.	.069	16.3	.6	7.	1.012	.615	165.
%RSD	.2608	2.603	5.476	.6100	.1912	21.55	57.87	1.324
#1	3951.	2.706	279.5	100.8	3477.	4.074	-1.059	12330.
#2	3962.	2.582	309.4	101.3	3470.	5.861	-.4491	12650.
#3	3971.	2.698	305.8	100.1	3463.	4.147	-1.678	12430.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**224.6**	**132.9**	**1117.**	**-1.973**	**175.5**	**427.1**
Stddev	2.1	.5	7.	.653	.6	1.7
%RSD	.9340	.3565	.6544	33.12	.3158	.3884
#1	224.9	133.4	1110.	-1.233	175.3	428.6
#2	226.6	132.5	1124.	-2.215	176.2	427.2
#3	222.4	132.9	1118.	-2.471	175.1	425.3

Sample Name: 1301005-06 Acquired: 01/09/2013 15:20:25 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**386.85**	**37.551**	**992.33**
Stddev	.59	.078	1.58
%RSD	.15201	.20644	.15896
#1	386.26	37.575	991.41
#2	386.86	37.464	994.15
#3	387.44	37.613	991.42

Sample Name: 1301005-07 Acquired: 01/09/2013 15:26:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.379**	**72750.**	**67.94**	**13.28**	**562.8**	**3.620**	**12870.**	**8.620**
Stddev	.121	159.	2.32	.38	1.8	.344	42.	.105
%RSD	2.253	.2180	3.409	2.882	.3131	9.514	.3289	1.214
#1	-5.261	72590.	68.55	13.67	560.9	3.534	12830.	8.686
#2	-5.503	72760.	69.90	12.91	563.2	3.326	12860.	8.674
#3	-5.375	72900.	65.39	13.25	564.3	3.999	12920.	8.499

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**66.96**	**138.3**	**488.7**	**147200.**	**182100.**	**5295.**	**20270.**	**20090.**
Stddev	.17	.4	1.3	229.	574.	67.	129.	97.
%RSD	.2587	.3011	.2688	.1556	.3149	1.270	.6374	.4829
#1	66.90	138.4	489.7	147400.	181500.	5359.	20370.	19980.
#2	67.16	138.7	489.2	147200.	182500.	5300.	20120.	20130.
#3	66.83	137.9	487.2	146900.	182500.	5225.	20310.	20160.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2999.**	**5.655**	**421.5**	**147.1**	**10720.**	**12.47**	**1.830**	**11050.**
Stddev	8.	.169	10.8	.3	15.	.73	1.435	171.
%RSD	.2681	2.980	2.569	.1879	.1440	5.826	78.38	1.548
#1	3008.	5.850	417.6	147.3	10720.	13.25	1.349	11220.
#2	2994.	5.563	433.7	147.3	10730.	11.82	.6980	11040.
#3	2994.	5.553	413.1	146.8	10700.	12.32	3.443	10880.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.72**	**112.6**	**1327.**	**-1.481**	**228.7**	**2900.**
Stddev	.48	.2	1.	2.103	.8	7.
%RSD	2.129	.2062	.0453	142.0	.3643	.2538
#1	22.73	112.4	1327.	-2.440	229.6	2909.
#2	23.20	112.5	1328.	-2.935	228.5	2899.
#3	22.23	112.9	1327.	.9300	228.0	2894.

Sample Name: 1301005-07 Acquired: 01/09/2013 15:26:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**384.09**	**37.640**	**992.70**
Stddev	.52	.260	.81
%RSD	.13546	.69019	.08124
#1	383.55	37.879	992.38
#2	384.12	37.677	993.61
#3	384.59	37.363	992.09

Sample Name: 1301005-08 Acquired: 01/09/2013 15:32:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.508**	**58290.**	**9.516**	**19.39**	**770.8**	**1.863**	**9504.**	**.7718**	**32.35**
Stddev	.643	96.	.732	.56	2.2	.144	88.	.0381	.10
%RSD	18.33	.1642	7.693	2.895	.2815	7.714	.9220	4.935	.2940
#1	-2.830	58320.	9.830	19.11	768.4	1.773	9423.	.7699	32.45
#2	-3.586	58360.	10.04	20.04	772.5	2.029	9490.	.8109	32.33
#3	-4.108	58180.	8.679	19.03	771.6	1.788	9597.	.7348	32.26

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**85.41**	**56.89**	**72930.**	**79130.**	**5654.**	**20280.**	**19690.**	**908.6**	**.3109**
Stddev	.32	.54	436.	269.	193.	187.	3.	2.9	.1597
%RSD	.3710	.9408	.5976	.3394	3.416	.9204	.0135	.3227	51.38
#1	85.55	56.86	73090.	78820.	5852.	20090.	19690.	906.5	.2345
#2	85.62	57.44	73270.	79290.	5645.	20290.	19690.	912.0	.2037
#3	85.04	56.37	72440.	79270.	5466.	20460.	19700.	907.3	.4944

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**427.3**	**74.10**	**4375.**	**10.30**	**-1.282**	**17490.**	**-.2218**	**69.09**	**1228.**
Stddev	5.1	.16	9.	.52	2.336	441.	.8018	.23	14.
%RSD	1.202	.2204	.2049	5.028	182.2	2.520	361.5	.3328	1.148
#1	429.7	74.23	4381.	10.03	1.065	17750.	.4644	68.85	1240.
#2	430.8	74.17	4378.	10.90	-1.304	17720.	-1.103	69.31	1231.
#3	421.4	73.92	4364.	9.977	-3.607	16980.	-.0266	69.11	1212.

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.647**	**79.05**	**321.3**
Stddev	1.990	.61	.2
%RSD	120.8	.7699	.0564
#1	-3.944	79.64	321.1
#2	-.4196	79.07	321.3
#3	-.5785	78.43	321.5

Sample Name: 1301005-08 Acquired: 01/09/2013 15:32:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**381.22**	**35.899**	**963.62**
Stddev	.93	.166	7.44
%RSD	.24286	.46297	.77182
#1	380.16	36.076	971.03
#2	381.61	35.877	956.16
#3	381.88	35.745	963.66

Sample Name: 1301005-09 Acquired: 01/09/2013 15:39:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.950**	**56360.**	**9.052**	**14.84**	**1190.**	**2.589**	**12260.**	**.4913**
Stddev	.292	227.	1.189	.44	4.	.354	54.	.0901
%RSD	7.387	.4025	13.14	2.943	.2960	13.66	.4387	18.35
#1	-3.620	56100.	7.809	15.31	1189.	2.270	12200.	.5905
#2	-4.174	56530.	9.168	14.79	1194.	2.970	12280.	.4687
#3	-4.056	56450.	10.18	14.44	1187.	2.527	12310.	.4145

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**55.52**	**66.00**	**48.34**	**93440.**	**105100.**	**4913.**	**21050.**	**20620.**
Stddev	.28	.14	.51	129.	509.	80.	366.	62.
%RSD	.5096	.2132	1.059	.1379	.4844	1.628	1.740	.3024
#1	55.77	65.91	47.83	93330.	104500.	4858.	20850.	20550.
#2	55.58	66.16	48.35	93580.	105600.	5005.	21470.	20660.
#3	55.22	65.93	48.85	93420.	105100.	4876.	20830.	20650.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1863.**	**-.1677**	**218.1**	**101.8**	**1040.**	**5.190**	**-1.086**	**11280.**
Stddev	8.	.1785	14.1	.3	5.	.956	2.310	263.
%RSD	.4194	106.5	6.484	.2865	.4498	18.41	212.7	2.334
#1	1857.	-.0654	202.7	101.5	1044.	5.388	.4914	11060.
#2	1861.	-.3738	221.1	101.9	1042.	4.151	-3.738	11570.
#3	1872.	-.0638	230.5	102.1	1035.	6.031	-.0123	11210.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8299**	**104.8**	**822.5**	**-1.007**	**64.50**	**307.1**
Stddev	.9009	.1	6.4	1.541	.66	.5
%RSD	108.6	.1280	.7784	153.1	1.025	.1673
#1	1.349	104.9	817.3	-1.558	64.01	307.6
#2	1.351	104.8	820.6	.7342	64.23	307.3
#3	-.2103	104.6	829.6	-2.197	65.25	306.6

Sample Name: 1301005-09 Acquired: 01/09/2013 15:39:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: jewett white (1301005)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**380.25**	**35.741**	**972.72**
Stddev	.49	.196	3.39
%RSD	.12938	.54719	.34804
#1	379.68	35.959	975.11
#2	380.51	35.581	974.22
#3	380.56	35.683	968.85

Sample Name: S301015-CCV2 Acquired: 01/09/2013 15:45:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**205.2**	**4937.**	**203.4**	**200.9**	**203.1**	**197.9**	**5037.**	**200.4**	**202.1**
Stddev	1.5	45.	.4	.3	1.6	1.6	42.	.8	.4
%RSD	.7188	.9134	.1897	.1581	.7971	.8218	.8247	.3859	.2111
#1	205.5	4885.	203.8	201.1	201.6	196.3	4996.	201.3	202.6
#2	206.5	4953.	203.5	200.9	202.8	197.8	5079.	199.9	202.1
#3	203.6	4971.	203.0	200.5	204.8	199.5	5035.	200.1	201.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**203.2**	**200.7**	**5074.**	**5068.**	**4958.**	**5118.**	**5005.**	**199.6**	**200.7**
Stddev	.5	1.0	21.	24.	97.	144.	40.	.5	.2
%RSD	.2494	.4863	.4100	.4824	1.947	2.804	.7897	.2526	.1103
#1	203.5	201.7	5097.	5041.	4857.	5099.	4962.	200.1	200.8
#2	203.4	200.7	5067.	5089.	5049.	5270.	5012.	199.2	200.5
#3	202.6	199.8	5057.	5074.	4969.	4985.	5040.	199.4	201.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-CCV2 Acquired: 01/09/2013 15:45:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5016.**	**202.9**	**200.2**	**198.7**	**201.1**	**5002.**	**201.2**	**203.6**	**204.9**
Stddev	46.	.9	1.2	.4	.4	76.	.7	1.6	.9
%RSD	.9220	.4301	.6021	.2129	.1853	1.516	.3544	.7999	.4634
#1	4975.	203.8	201.5	199.1	200.9	4915.	202.0	201.8	205.8
#2	5007.	202.7	199.9	198.3	201.0	5036.	201.2	203.9	204.9
#3	5066.	202.1	199.1	198.5	201.6	5055.	200.5	205.0	203.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**200.2**	**199.4**	**204.0**
Stddev	1.2	1.7	.7
%RSD	.6102	.8336	.3315
#1	201.3	200.9	204.7
#2	200.4	199.6	203.5
#3	198.9	197.6	203.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-CCV2 Acquired: 01/09/2013 15:45:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**380.96**	**35.289**	**959.57**
Stddev	.21	.093	3.15
%RSD	.05429	.26246	.32802
#1	381.10	35.360	963.20
#2	381.07	35.323	957.56
#3	380.73	35.184	957.96

Sample Name: S301015-CCB2 Acquired: 01/09/2013 15:51:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2277**	**-5.655**	**1.185**	**-.2595**	**-.2669**	**.0758**	**17.36**	**.0192**	**-.1388**
Stddev	.4707	31.97	.201	.2423	.1365	.1643	6.34	.0309	.0675
%RSD	206.7	565.4	16.91	93.37	51.14	216.7	36.53	160.6	48.63
#1	.7301	-5.511	.9670	.0168	-.3376	-.0498	18.30	-.0124	-.1134
#2	.1561	26.25	1.361	-.4355	-.3536	.2618	23.18	.0209	-.2154
#3	-.2031	-37.70	1.227	-.3598	-.1096	.0154	10.60	.0493	-.0878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0825**	**.2760**	**3.042**	**18.06**	**-35.05**	**118.1**	**-11.34**	**.0629**	**-.1126**
Stddev	.2029	.1366	.082	18.43	14.50	128.5	17.94	.0349	.0646
%RSD	246.0	49.49	2.681	102.0	41.38	108.8	158.2	55.42	57.34
#1	-.0231	.2757	2.989	30.25	-51.72	15.29	9.372	.0422	-.0406
#2	-.3085	.4128	3.002	27.08	-28.10	262.2	-21.73	.0434	-.1653
#3	.0841	.1396	3.136	-3.140	-25.32	76.82	-21.67	.1032	-.1320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301015-CCB2 Acquired: 01/09/2013 15:51:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-24.38**	**.0343**	**.7200**	**.0313**	**-.3792**	**126.6**	**.9273**	**-.0133**	**-.0524**
Stddev	13.54	.2452	.5151	1.098	1.381	79.9	.7849	.1588	.1154
%RSD	55.52	714.4	71.54	3505.	364.1	63.09	84.64	1193.	220.3
#1	-37.54	-.1069	1.262	.6837	-.0177	178.8	1.726	-.1044	-.0107
#2	-25.10	.3175	.6619	.6461	.7848	34.66	.1565	-.1056	.0364
#3	-10.50	-.1076	.2364	-1.236	-1.905	166.3	.8998	.1701	-.1828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.0994**	**.5766**	**-.0359**
Stddev	2.012	.1884	.0181
%RSD	2023.	32.67	50.60
#1	-1.709	.4989	-.0408
#2	2.156	.7914	-.0510
#3	-.7452	.4395	-.0158
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301015-CCB2 Acquired: 01/09/2013 15:51:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**372.72**	**34.908**	**939.92**
Stddev	.37	.140	9.61
%RSD	.09813	.40076	1.0222
#1	373.12	35.051	951.02
#2	372.40	34.771	934.17
#3	372.63	34.902	934.58

Sample Name: S301015-LCV3 Acquired: 01/09/2013 15:57:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.305**	**90.20**	**8.787**	**12.06**	**107.7**	**3.133**	**552.1**	**3.635**	**23.87**
Stddev	.614	15.90	.955	.26	1.4	.600	16.0	.030	.10
%RSD	11.57	17.63	10.87	2.138	1.295	19.14	2.903	.8219	.4050
#1	4.678	95.38	9.376	11.93	106.3	2.532	535.1	3.612	23.90
#2	5.335	72.35	9.299	12.36	107.7	3.731	567.0	3.669	23.76
#3	5.904	102.9	7.685	11.90	109.1	3.136	554.3	3.626	23.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.653**	**10.39**	**56.71**	**F 82.20**	**576.6**	**407.0**	**526.6**	**5.736**	**10.43**
Stddev	.063	.12	.46	65.53	84.2	435.3	21.6	.081	.06
%RSD	1.119	1.142	.8170	79.71	14.59	107.0	4.093	1.413	.5965
#1	5.580	10.52	56.17	65.81	484.6	481.8	539.3	5.825	10.48
#2	5.679	10.35	57.01	26.43	649.7	-60.85	501.7	5.666	10.36
#3	5.699	10.30	56.93	154.4	595.5	800.0	538.8	5.717	10.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				50.00					
Range				30.00%					

Sample Name: S301015-LCV3 Acquired: 01/09/2013 15:57:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1033.**	**21.17**	**8.687**	**21.36**	**21.32**	**629.3**	**11.43**	**11.53**	**10.41**
Stddev	17.	.12	1.214	1.33	.58	164.0	.18	.16	.08
%RSD	1.631	.5811	13.98	6.232	2.735	26.07	1.566	1.381	.7572
#1	1019.	21.03	7.364	22.70	21.58	563.0	11.61	11.39	10.47
#2	1027.	21.18	8.946	21.35	21.72	816.1	11.44	11.50	10.44
#3	1052.	21.28	9.750	20.04	20.65	508.7	11.25	11.71	10.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**19.31**	**21.64**	**22.91**
Stddev	1.26	.75	.12
%RSD	6.509	3.466	.5312
#1	20.64	21.07	22.99
#2	19.16	22.49	22.98
#3	18.14	21.35	22.77
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-LCV3 Acquired: 01/09/2013 15:57:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**375.07**	**35.255**	**949.82**
Stddev	1.04	.384	8.06
%RSD	.27855	1.0879	.84879
#1	375.73	35.636	958.82
#2	373.86	35.260	947.38
#3	375.62	34.869	943.25

Sample Name: S301015-LCV4 Acquired: 01/09/2013 16:03:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.48**	**178.1**	**17.48**	**24.21**	**215.7**	**6.758**	**1068.**	**7.316**	**47.75**
Stddev	.14	12.5	1.35	.39	1.7	.248	32.	.034	.05
%RSD	1.296	7.025	7.697	1.604	.7885	3.672	2.970	.4668	.0960
#1	10.63	176.4	19.01	24.66	217.5	6.571	1104.	7.346	47.75
#2	10.38	191.4	16.49	23.95	214.1	7.040	1043.	7.323	47.80
#3	10.42	166.6	16.95	24.02	215.5	6.664	1058.	7.279	47.71
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.53**	**20.38**	**112.2**	**118.3**	**1042.**	**1226.**	**1079.**	**11.30**	**20.88**
Stddev	.05	.36	1.1	23.4	57.	277.	27.	.01	.09
%RSD	.4676	1.750	.9390	19.74	5.455	22.57	2.519	.0756	.4155
#1	11.55	20.23	113.2	99.72	1043.	1412.	1054.	11.29	20.84
#2	11.57	20.79	112.4	144.6	984.6	907.9	1075.	11.30	20.82
#3	11.47	20.13	111.1	110.7	1098.	1357.	1108.	11.30	20.98
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301015-LCV4 Acquired: 01/09/2013 16:03:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2074.**	**42.19**	**17.40**	**42.83**	**41.29**	**1140.**	**21.53**	**23.12**	**20.69**
Stddev	31.	.10	.66	.76	.53	155.	.22	.23	.23
%RSD	1.516	.2478	3.807	1.780	1.291	13.61	1.035	1.013	1.117
#1	2103.	42.30	18.16	42.86	40.93	970.7	21.35	23.35	20.64
#2	2041.	42.09	16.95	43.58	41.90	1175.	21.78	23.12	20.94
#3	2078.	42.17	17.10	42.06	41.04	1275.	21.47	22.89	20.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**40.28**	**42.46**	**45.19**
Stddev	.45	.65	.14
%RSD	1.106	1.542	.3181
#1	40.77	42.97	45.35
#2	39.92	41.72	45.15
#3	40.13	42.70	45.07
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301015-LCV4 Acquired: 01/09/2013 16:03:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**376.08**	**35.314**	**953.65**
Stddev	.51	.132	5.32
%RSD	.13559	.37422	.55806
#1	376.48	35.330	957.60
#2	376.25	35.437	947.60
#3	375.50	35.174	955.77

Sample Name: S301015-IFA2 Acquired: 01/09/2013 16:09:58 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.522**	**306300.**	**-4.094**	**-4.204**	**-.1162**	**.4389**	**288800.**	**1.428**
Stddev	.406	2079.	1.696	.190	.3003	.4637	1738.	.069
%RSD	26.69	.6785	41.44	4.509	258.6	105.7	.6020	4.856
#1	1.881	304500.	-2.196	-4.260	-.0838	.9725	286900.	1.474
#2	1.604	306000.	-5.462	-4.359	-.4314	.2100	289000.	1.463
#3	1.081	308600.	-4.625	-3.993	.1667	.1341	290400.	1.349
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.971**	**1.616**	**-3.518**	**214900.**	**288700.**	**434.5**	**312700.**	**260700.**
Stddev	.279	.200	.451	95.	1613.	77.6	983.	786.
%RSD	7.033	12.38	12.82	.0441	.5587	17.86	.3143	.3015
#1	-3.957	1.385	-4.026	214800.	287000.	351.3	311600.	260000.
#2	-3.699	1.735	-3.167	214900.	288800.	447.3	313200.	260500.
#3	-4.257	1.727	-3.359	215000.	290200.	504.8	313400.	261500.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S301015-IFA2 Acquired: 01/09/2013 16:09:58 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1209**	**-1.693**	**318000.**	**-6.849**	**2.840**	**3.305**	**-1.365**	**116.4**
Stddev	.1080	.167	1992.	.590	.748	.839	2.162	122.1
%RSD	89.38	9.886	.6266	8.618	26.34	25.38	158.4	104.9
#1	.1329	-1.613	315800.	-7.443	1.989	3.898	-.2601	116.0
#2	.2224	-1.886	318300.	-6.262	3.141	2.345	.0221	-5.481
#3	.0073	-1.581	319800.	-6.843	3.391	3.672	-3.856	238.8
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.088**	**8.723**	**-4.345**	**-2.137**	**6.542**	**3.123**
Stddev	1.150	.199	.144	2.133	.311	.024
%RSD	105.6	2.286	3.311	99.80	4.760	.7662
#1	-.0336	8.522	-4.415	.0262	6.721	3.116
#2	2.264	8.921	-4.441	-4.238	6.723	3.103
#3	1.034	8.726	-4.180	-2.200	6.183	3.149
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S301015-IFA2 Acquired: 01/09/2013 16:09:58 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.71**	**33.899**	**883.94**
Stddev	.26	.320	4.33
%RSD	.07770	.94492	.48990
#1	335.42	34.268	886.60
#2	335.92	33.729	886.27
#3	335.79	33.699	878.94

REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

PROJECT NO. 1301009 SITE NAME Jewett white SAMPLE RECEIPT DATE _____

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
ICP	EPA IRIS-5	60		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301021

Jewett White Lead - 1212042
1301009

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	WR	01/11/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	WR	01/11/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	WR	01/11/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	WR	01/11/2013
ICB < Reporting Limit?	YES	WR	01/11/2013
RL Low Level recovery ±30%?	YES	WR	01/11/2013
2RL Low Level Recovery ±30%?	YES	WR	01/11/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	WR	01/11/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	WR	01/11/2013
CCBs < Reporting Limit?	YES	WR	01/11/2013
Sample result data		Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301021

Jewett White Lead - 1212042
1301009

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

			Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES		WR	01/11/2013
Performance check			Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES		WR	01/11/2013
Blank data			Analyst Initials	Date
Prep Blank < Reporting Limit?	YES	*	WR	01/11/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		WR	01/11/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	WR	01/11/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	WR	01/11/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	WR	01/11/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		WR	01/11/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	WR	01/11/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		WR	01/11/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S301021

Jewett White Lead - 1212042
1301009

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

Holding time check		Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES *	WR	01/11/2013

Sample result data		Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	NO	WR	01/11/2013

Documentation		Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA	WR	01/11/2013
Instrument Analysis Log Book entries completed?	YES	WR	01/11/2013
Percent Solids Log Book info entries completed?	YES	WR	01/11/2013
pH Log Book Log Book info entries completed?	NA	WR	01/11/2013

Final Review		Analyst Initials	Date
Example calculation present and correct?	YES *	WR	01/11/2013
Peer reviewed? Date and person responsible.	YES *	NT	01/11/2013

* = Automated Response from Promium

Project:Jewett White Lead - 1212042
Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-027-8490-001			**Sample ID: 1301009-01**		
Metals ICP					
Lead	300		0.76	mg/kg dry	B301045
Field ID: DRAFT: S-027-8490-002			**Sample ID: 1301009-02**		
Metals ICP					
Lead	290		0.71	mg/kg dry	B301045
Field ID: DRAFT: S-028-4248-001			**Sample ID: 1301009-03**		
Metals ICP					
Lead	140		0.69	mg/kg dry	B301045
Field ID: DRAFT: S-029-1824-001			**Sample ID: 1301009-04**		
Metals ICP					
Lead	9.8		0.65	mg/kg dry	B301045
Field ID: DRAFT: S-030-6066-001			**Sample ID: 1301009-05**		
Metals ICP					
Lead	8.0		0.66	mg/kg dry	B301045
Field ID: DRAFT: S-031-3642-001			**Sample ID: 1301009-06**		
Metals ICP					
Lead	460		0.66	mg/kg dry	B301045

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B301045									
Blank (B301045-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B301045-MS1)	**Source: 1301009-01**								
Lead	315	0.74	mg/kg dry	18.54	297	96.4	75-125		
Matrix Spike Dup (B301045-MSD1)	**Source: 1301009-01**								
Lead	330	3.7	mg/kg dry	18.54	297	177	75-125	4.64	10
Reference (B301045-SRM1)									
Lead	72.3	0.75	mg/kg wet	76.90		94.0	81.3-118.7		
Reference (B301045-SRM2)									
Lead	70.8	0.73	mg/kg wet	76.90		92.1	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301021

Instrument: Thermo Iris Intrepid

Printed: 1/11/2013 9:04:11AM

Project Name	Lab Number	Analysis	STD ID
	S301021-CAL1	QC	D2I2024
	S301021-CAL2	QC	D2I2023
	S301021-CAL3	QC	D2J0304
	S301021-ICV1	QC	D2L1716
	S301021-ICB1	QC	D2I2024
	S301021-LCV1	QC	D2J0906
	S301021-LCV2	QC	D2J0907
	S301021-IFA1	QC	D3A0901
	B301045-BLK1	QC	
	B301045-SRM1	QC	
	B301045-SRM2	QC	
Jewett White Lead - 1212042	1301009-01	Lead ICP	
	B301045-MS1	QC	
	B301045-MSD1	QC	
Jewett White Lead - 1212042	1301009-02	Lead ICP	
Jewett White Lead - 1212042	1301009-03	Lead ICP	
Jewett White Lead - 1212042	1301009-04	Lead ICP	
	S301021-CCV1	QC	D2L1716
	S301021-CCB1	QC	D2I2024
Jewett White Lead - 1212042	1301009-05	Lead ICP	
Jewett White Lead - 1212042	1301009-06	Lead ICP	
	S301021-CCV2	QC	D2L1716
	S301021-CCB2	QC	D2I2024
	S301021-LCV3	QC	D2J0906
	S301021-LCV4	QC	D2J0907
	S301021-IFA2	QC	D3A0901

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # ✓ **C-109** ____ **DW-5** **File:** 011113

Project Name	Project Number	Sample Numbers	Scan Type
Jewett white	~~12100~~ 1301009	1301009-01 TO 1301009-6	Pb only

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Tl, V, Zn
SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn
TCLP : Ag, As, Ba, Cd, Cr, Pb, Se **METALS FINISHING:** Ag, Cd, Cr, Cu, Ni, Pb, Zn

Promium Batch #	Promium Sequence #	Method
B301045	S301021	EPA-ICP-P _____
		EPA-ICP-P / _____

Torch Cleaned Y / (N)	
Pump Tubing Changed Y / (N)	

Comments:

Date of Analysis: 01/11/13 Signature of Analyst(s): Willie Rich

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301045

Prepared by: WR
Prepared on: 01/10/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301009-01	NA	29	Yes	0.5617	50					
	1301009-02	NA	29	Yes	0.6035	50					
	1301009-03	NA	29	Yes	0.5903	50					
	1301009-04	NA	29	Yes	0.6195	50					
	1301009-05	NA	29	Yes	0.6097	50					
	1301009-06	NA	29	Yes	0.6081	50					
	B301045-BLK1	NA	29	Yes	5	50					
	B301045-MS1	NA	29	Yes	0.5728	50	D2K2820	40	D2K2822	1000	1301009-01
	B301045-MSD1	NA	29	Yes	0.5728	50	D2K2820	40	D2K2822	1000	1301009-01
	B301045-SRM1	NA	29	Yes	0.531	50	D2F0423	531			
	B301045-SRM2	NA	29	Yes	0.547	50	D2F0423	547			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301045

Prepared by: WR
Prepared on: 01/10/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID

Comments:

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
	Ag 328.068 {102}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999999	OK.
	Al 396.152 { 85}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999995	OK.
	As 189.042 {177}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999998	OK.
	B 208.959 {161}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999998	OK.
	Ba 455.403 { 74}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999970	OK.
	Be 313.107 {107}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999985	OK.
	Ca 317.933 {105}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999983	OK.
	Cd 214.438 {157}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	1.000000	OK.
	Co 228.616 {147}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999999	OK.
	Cr 205.552 {163}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999998	OK.
	Cu 324.754 {103}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999999	OK.
	Fe 259.940 {129}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999955	OK.
	Fe 259.940 {129}2	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999988	OK.
	K 766.491 { 44}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999997	OK.
	Mg 279.079 {120}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999959	OK.
	Mg 285.213 {117}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999979	OK.
	Mn 257.610 {130}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999988	OK.
	Mo 202.030 {166}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999999	OK.
	Na 589.592 { 57}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999996	OK.
	Ni 231.604 {145}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999998	OK.
	Pb 220.353 {152}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	1.000000	OK.
	Sb 206.833 {162}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999995	OK.
	Se 196.090 {171}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999996	OK.
	Si 251.612 {133}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999947	OK.
	Sn 189.989 {176}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999994	OK.
	Sr 407.771 { 82}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999996	OK.
	Ti 334.941 {100}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999995	OK.
	Tl 190.864 {176}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999997	OK.
	V 292.402 {115}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999984	OK.
	Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 360.073 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 361.105 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Zn 206.200 {163}	01/11/2013 10:20:44	Linear	1/Conc	1.000000	0.999998	OK.

	Blank	Mid Std	High Std	S301021-ICV1	S301021-ICB1	S301021-LCV1	S301021-LCV2	S301021-IFA1	Rinse
	11 Jan 2013 10:02:31	11 Jan 2013 10:08:42	11 Jan 2013 10:14:45	11 Jan 2013 10:20:48	11 Jan 2013 10:26:54	11 Jan 2013 10:33:05	11 Jan 2013 10:39:16	11 Jan 2013 10:45:28	11 Jan 2013 10:51:46
Ag3280	-0.0003	0.0687	0.1372	202.4	0.0125	5.034	10.14	0.3464	-0.1998
Al3961	0.0002	0.27	0.5361	4999	-13.46	105.8	227.9	313200	11.44
As1890	-0.0004	0.0302	0.0611	202.5	0.1965	9.03	18.61	0.0856	1.362
B2089	0.0006	0.1091	0.2184	200.5	0.3693	12.54	24.24	-3.689	0.1192
Ba4554	0.0031	1.443	2.931	200.9	-0.3964	104.2	207.3	0.5745	0.4186
Be3131	-0.0006	0.9179	1.858	199.2	0.0746	2.778	5.706	0.0284	-0.0891
Ca3179	0.0037	0.1964	0.3843	4994	20.62	524.9	1023	292100	28.06
Cd2144	0.0006	0.6968	1.395	202.2	-0.1908	3.362	6.968	-0.0325	-0.187
Co2286	-0.0005	0.4298	0.857	200.9	-0.1256	23.07	46	-2.968	-0.1526
Cr2055	-0.0007	0.3237	0.6509	203.1	-0.0826	5.567	11.09	1.582	-0.2111
Cu3247	0.0019	0.1109	0.2204	202.4	-0.486	9.758	19.45	-3.961	-0.5557
Fe2599A	0	0.3334	0.6535	5062	-1.898	51.85	103	199800	19.74
Fe2599R	0.0002	0.1317	0.2605	5069	7.172	61.62	111.8	289100	28.54
K7664	0.0167	0.1731	0.3313	4993	-110.5	472.7	987	197.5	3.132
Mg2790	0.0002	0.0312	0.061	5008	-7.414	491.1	1138	318100	-131.5
Mg2852	-0.0005	0.267	0.5272	5001	14.34	520.1	1063	272800	37.05
Mn2576	0.0002	0.1695	0.3352	203.6	-0.1088	5.53	10.84	-0.0872	-0.1642
Mo2020	0.0009	0.2399	0.4774	202.5	0.1047	10.31	20.7	-1.958	-0.1488
Na5895	0.0429	1.197	2.363	4961	7.342	1013	2024	317900	136
Ni2316	-0.0003	0.2253	0.4526	201.2	-0.4408	20.02	40.67	-7.895	-0.6906
Pb2203	0	0.0446	0.0893	203.2	0.2682	9.049	17.21	-0.8766	0.077
Sb2068	0.0001	0.0389	0.0782	198.3	-0.6596	21.07	41.39	5.744	0.2515
Se1960	0.0007	0.0324	0.0644	202	0.6188	20.67	42.2	1.937	0.7979
Si2516	0.0005	0.0316	0.0642	5038	-91.91	507.3	951	73.02	6.998
Sn1899	0.0003	0.0427	0.0858	198.8	-0.194	10.44	20.7	1.065	0.1965
Sr4077	0.0015	4.015	8.076	203.1	-0.0966	11.1	22.11	5.045	-0.2613
Ti3349	0.0005	0.3133	0.622	202.2	-0.1532	9.7	19.48	-3.421	-0.2609
Tl1908	-0.0009	0.0271	0.0554	199.7	0.0971	18.59	38.08	-11.86	-1.277
V2924	-0.0002	0.0339	0.0688	198.4	-0.4604	20.81	42.15	5.7	0.4989
Zn2062	0.0001	0.4336	0.8631	205	-0.2152	21.76	43.36	3.705	0.3558
Y2243A	321.65	339.57	338.43	340.87	331.77	333.09	333.14	297.09	331.7
Y3600R	41.267	41.915	42.432	41.702	41.489	41.512	41.79	39.932	41.372
Y3611A	830.9	863.8	863.03	867.01	849.88	855.89	862.01	802.56	853.84

	B301045-BLK1	B301045-SRM1	B301045-SRM2	1301009-01	B301045-MS1	B301045-MSD1	1301009-02	1301009-03	1301009-04	S301021-CCV1	S301021-CCB1
	11 Jan 2013 10:57:54	11 Jan 2013 11:04:01	11 Jan 2013 11:10:02	11 Jan 2013 11:16:14	11 Jan 2013 11:22:18	11 Jan 2013 11:28:19	11 Jan 2013 11:34:23	11 Jan 2013 11:40:26	11 Jan 2013 11:46:43	11 Jan 2013 11:53:01	11 Jan 2013 11:59:06
Ag3280	-0.6566	44.86	44.52	54.35	256.4	258.4	57.3	49.04	37.27	195.9	-0.4382
Al3961	2.331	5669	5789	56870	78550	80520	59880	76690	60890	5021	-8.933
As1890	0.423	170.6	166.7	9.869	200.9	209.3	9.7	66.06	79.34	199.7	2.321
B2089	0.3987	84.76	82.55	14.34	216.5	219.1	14	12.48	14.08	203.5	0.1716
Ba4554	-0.2578	197.9	193.4	745.1	959.7	974.6	761.2	409.6	166	205.2	0.0349
Be3131	0.0453	106.1	105	2.157	191.1	198.8	2.046	4.072	4.325	192.9	0.7454
Ca3179	47.61	6507	6532	11840	17130	17860	12410	12000	8188	4979	9.592
Cd2144	-0.1383	96.89	95.7	-0.0878	188.4	196.4	-0.0843	-0.3406	-0.4861	199.5	-0.2149
Co2286	-0.2373	127	124.2	30.72	224.5	233.2	32.24	69.79	85.02	197.7	-0.2238
Cr2055	-0.1855	113.2	111.7	80.35	289.3	301	84.7	125.9	101.6	201.9	-0.2192
Cu3247	0.0652	117.1	116.9	42.03	254.3	247.4	44.65	133.4	89.16	199.1	-0.6626
Fe2599A	6.759	^F *****	9060	64540	s 75800.	86970	66630	148900	174200	5018	1.273
Fe2599R	17.86	10480	10710	71710	85680	89230	74150	195000	242100	5125	7.474
K7664	-42.47	2562	2560	4532	11230	10620	4571	5957	4414	4887	-20.23
Mg2790	-98.92	2268	2296	19990	27400	27820	20700	17920	16210	4833	-88.59
Mg2852	8.341	2294	2321	19830	27440	28510	20650	18030	16520	5018	11.81
Mn2576	-0.0925	312.5	309.8	950.9	1231	1291	1013	1586	2544	195.1	-0.1608
Mo2020	-0.0469	64.56	64.17	0.8388	191.7	195.6	0.6012	7.556	5.003	200.5	0.0768
Na5895	124.7	326.4	320.6	312.3	5165	5159	331.2	366.5	288.6	4969	5.219
Ni2316	-0.4735	68.51	67.61	73.37	280.2	286.5	76.73	95.83	81.89	201	-0.6721
Pb2203	0.5306	72.3	70.81	3146	3401	3563	3238	1674	120.9	199.3	-0.4607
Sb2068	-1.322	197.7	199.6	11.66	198.8	205.6	11.49	6.235	5.79	199.5	-0.1157
Se1960	1.205	126.6	125	-1.075	185.5	197.5	-0.8549	-0.7487	-1.007	201.3	2.627
Si2516	-31.57	1044	851.8	5493	16530	16710	6012	4877	5808	4765	15.53
Sn1899	0.4119	140.6	138.1	-3.058	185.7	195.1	-3.372	4.272	-0.4004	195.6	0.0954
Sr4077	-0.073	127.1	122.3	93.97	302.1	308.4	97.19	114.6	76.03	204.6	-0.1301
Ti3349	-0.1	124	123.9	1060	1400	1471	1096	957.5	746.1	192.5	-0.2518
Tl1908	-0.6945	196.5	192.6	-2.652	186.5	193.4	-3.641	-8.38	-9.962	193.7	-0.5387
V2924	1.121	80.9	80.73	73.69	285	295.9	75.54	230.7	207	196.9	0.7408
Zn2062	1.117	260.5	256.7	326.9	546.4	578.7	339.4	490.9	316.6	203.9	-0.3393
Y2243A	331.7	333.27	335.07	342.23	342.1	339.15	341.47	340.57	338.1	335.82	328.32
Y3600R	41.222	43.778	43.653	42.281	43.343	41.859	42.14	43.52	42.896	40.912	40.737
Y3611A	860.5	880.12	888.76	883.52	880.98	876.33	883.18	896.15	888.69	869.41	849.01

	1301009-05	1301009-06	S301021-CCV2	S301021-CCB2	S301021-LCV3	S301021-LCV4	S301021-IFA2
	11 Jan 2013 12:05:16	11 Jan 2013 12:11:19	11 Jan 2013 12:17:36	11 Jan 2013 12:23:42	11 Jan 2013 12:29:53	11 Jan 2013 12:36:05	11 Jan 2013 12:42:17
Ag3280	39.56	50.14	195.1	-0.4875	4.953	10.02	-0.0006
Al3961	54680	67330	5039	8.152	99.42	231.2	317400
As1890	12.47	71.41	198.7	0.5435	9.428	19.96	1.605
B2089	11.3	18.87	204	0.1833	F 13.03	25.38	-3.991
Ba4554	526.3	476.4	206.7	0.3586	110.4	221.2	-0.003
Be3131	1.791	3.413	192.8	-0.2038	3.464	5.772	0.1084
Ca3179	13620	17910	4992	19.94	543.9	1090	295500
Cd2144	-0.5677	0.9521	199.7	-0.1974	3.454	7.124	-0.5647
Co2286	46.27	61.26	197.4	-0.2241	23.14	46.87	-2.921
Cr2055	82.05	121.5	202.2	-0.1969	5.587	11.57	1.41
Cu3247	68.99	217.3	199.4	-0.2433	10.02	19.99	-4.432
Fe2599A	91310	151400	5022	1.335	54.64	111.7	200400
Fe2599R	107600	198900	5149	0.5749	59.45	122.5	293200
K7664	4379	5616	4976	-40.14	535	1032	272.6
Mg2790	21450	20480	4899	-6.709	566.9	1087	314400
Mg2852	21630	20720	5020	18.74	549.1	1104	274500
Mn2576	1336	2580	194.9	-0.0937	5.368	10.95	0.0011
Mo2020	0.0439	3.847	200.3	0.0862	10.51	21.16	-1.763
Na5895	265.9	728.9	4977	0.1716	1047	2123	319000
Ni2316	97.59	113.6	201.7	-0.7467	20.09	41.55	-8.39
Pb2203	96.7	5559	200.1	-0.3786	8.476	17.37	0.9781
Sb2068	3.068	8.188	197.8	0.6803	21.94	42.46	4.591
Se1960	-0.9249	-0.0607	201.7	1.478	22.93	43.97	0.1019
Si2516	4787	7018	4837	-27.41	499.4	1078	-72.78
Sn1899	-1.213	26.72	194.4	0.1561	10.14	20.74	1.233
Sr4077	91	226.9	206.4	-0.188	11.45	23.29	5.261
Ti3349	770.3	966.7	191.6	-0.2324	9.57	19.5	-3.323
Tl1908	-4.664	-9.019	191.5	-1.398	18.46	38.17	-13.69
V2924	92.74	238.8	197.9	0.4938	22.2	43.81	5.88
Zn2062	280	803.6	204.1	-0.2848	22.51	45.14	2.758
Y2243A	338.92	337.95	335.45	327.43	329.12	329.47	293.92
Y3600R	42.754	43.089	40.638	40.338	40.579	40.599	38.787
Y3611A	879	892.29	869.63	850.35	857.29	861.97	796.5

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD
		Lower	Upper	B301045-SRM1	B301045-SRM2			
				11 Jan 2013 11:04:01	11 Jan 2013 11:10:02			
Silver	42.3	28.1	56.6	44.9	44.5	44.7	105.7%	0.76%
Aluminum	9310	4470	14200	5669	5789	5729	61.5%	2.09%
Arsenic	168	140	197	170.6	166.7	168.7	100.4%	2.31%
Boron	85	66	104	84.8	82.6	83.7	98.3%	2.64%
Barium	213	177	249	197.9	193.4	195.7	91.9%	2.30%
Beryllium	110.0	92.6	128	106.1	105.0	105.6	96.0%	1.04%
Calcium	6870	5700	8040	6507.0	6532.0	6519.5	94.9%	0.38%
Cadmium	103	86	119	96.9	95.7	96.3	93.5%	1.24%
Cobalt	131.0	109.0	153	127.0	124.2	125.6	95.9%	2.23%
Chromium	119.0	97.1	140	113.2	111.7	112.5	94.5%	1.33%
Copper	118.0	96.3	139	117.1	116.9	117.0	99.2%	0.17%
Iron 2599 A	13000	6560	19400	^F *****	9060.0	9060.0	69.7%	#VALUE!
Iron 2599 R	13000	6560	19400	10480.0	10710.0	10595.0	81.5%	2.17%
Potassium	3130	2270	3980	2562.0	2560.0	2561.0	81.8%	0.08%
Magnesium 2790	2780	2110	3450	2268.0	2296.0	2282.0	82.1%	1.23%
Magnesium 2852	2780	2110	3450	2294.0	2321.0	2307.5	83.0%	1.17%
Manganese	338	279	397	312.5	309.8	311.2	92.1%	0.87%
Molybdenum	61.5	41.6	84.8	64.6	64.2	64.4	104.7%	0.61%
Sodium	350	258	441	326.4	320.6	323.5	92.4%	1.79%
Nickel	70.0	57.2	82.7	68.5	67.6	68.1	97.2%	1.32%
Lead	76.9	62.5	91.3	72.3	70.8	71.6	93.0%	2.08%
Antimony	120	20	263	197.7	199.6	198.7	165.5%	0.96%
Selenium	126	101	152	126.6	125.0	125.8	99.8%	1.27%
Silicon	not evaluated			1044.0	851.8	947.9	#VALUE!	20.28%
Tin	142	112	172	140.6	138.1	139.4	98.1%	1.79%
Strontium	133	108	158	127.1	122.3	124.7	93.8%	3.85%
Titanium	219	38	401	124.0	123.9	124.0	56.6%	0.08%
Thallium	208	169	247	196.5	192.6	194.6	93.5%	2.00%
Vanadium	87.1	67.6	107	80.9	80.7	80.8	92.8%	0.21%
Zinc	276	227	325	260.5	256.7	258.6	93.7%	1.47%

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1301009		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			1/10/2013	Time:	4:51 PM	
	Date removed from oven at 103-105degC:			1/11/2013	Time:	10:11 AM	
	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1301009-01	0.9076	8.3165	7.8825	94.14%	5.86%	
1D	1301009-01	0.9103	8.2091	7.7940	94.31%	5.69%	
2	1301009-02	0.9240	8.6628	8.1714	93.65%	6.35%	
3	1301009-03	0.9238	8.4944	8.3410	97.97%	2.03%	
4	1301009-04	0.9280	8.2572	8.2406	99.77%	0.23%	
5	1301009-05	0.9261	8.7478	8.7216	99.67%	0.33%	
6	1301009-06	0.9255	9.5860	9.5739	99.86%	0.14%	
7					#DIV/0!	#DIV/0!	
8					#DIV/0!	#DIV/0!	
9					#DIV/0!	#DIV/0!	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
						RPD<20%	RPD<20%
				94.23%	5.77%	0.18%	2.96%
	*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
	PERCENT = SOLIDS	(C - A) / (B - A)	(*100)	PERCENT = MOISTURE	(B - C) / (B - A)	(*100)	

Analyst: [signature]

Date: 1/11/13

Checked by: [signature]

Date Checked: 1-11-13

Manual Calculation

Sample # 1301009-01

Analyte Pb

result Mg/Kg = $\frac{\text{instrument result X dilution factor X Volume in L}}{\text{weight of sample X (\% solids/100)}}$

result Mg/Kg = $\frac{3146 \times 1 \times 0.05}{0.5617 \times (94.14 / 100)}$

result Mg/Kg = $\frac{157.3}{0.5288}$

result Mg/Kg = 297.47

Sample Name: Blank Acquired: 01/11/2013 10:02:31 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0003**	**.0002**	**-.0004**	**.0006**	**.0031**	**-.0006**	**.0037**	**.0006**	**-.0005**
Stddev	.0000	.0002	.0000	.0000	.0025	.0009	.0010	.0001	.0001
%RSD	3.160	86.81	5.336	3.144	81.95	149.6	27.61	19.33	17.29
#1	-.0003	.0002	-.0004	.0006	.0045	-.0002	.0026	.0006	-.0005
#2	-.0003	.0005	-.0004	.0006	.0046	.0000	.0038	.0006	-.0006
#3	-.0003	.0001	-.0004	.0006	.0002	-.0016	.0046	.0004	-.0004

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0007**	**.0019**	**.0000**	**.0002**	**.0167**	**.0002**	**-.0005**	**.0002**	**.0009**
Stddev	.0000	.0001	.000	.0005	.0022	.0001	.0002	.0000	.0001
%RSD	5.064	3.399	626.7	319.3	12.92	62.33	43.16	12.66	7.121
#1	-.0007	.0019	.0000	.0000	.0152	.0003	-.0007	.0002	.0009
#2	-.0007	.0019	.0000	-.0003	.0158	.0001	-.0003	.0002	.0008
#3	-.0007	.0018	.0000	.0008	.0192	.0003	-.0007	.0002	.0008

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0429**	**-.0003**	**.0000**	**.0001**	**.0007**	**.0005**	**.0003**	**.0015**	**.0005**
Stddev	.0034	.0001	.000	.0001	.0000	.0002	.0000	.0008	.0001
%RSD	8.021	38.72	367.3	64.17	.2580	37.62	16.09	50.24	20.93
#1	.0435	-.0003	.0001	.0002	.0007	.0005	.0003	.0021	.0006
#2	.0459	-.0004	-.0001	.0000	.0007	.0003	.0002	.0007	.0004
#3	.0392	-.0002	.0000	.0002	.0007	.0006	.0003	.0017	.0005

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.0009**	**-.0002**	**.0001**
Stddev	.0001	.0000	.0000
%RSD	6.642	18.72	70.47
#1	-.0009	-.0002	.0001
#2	-.0010	-.0003	.0000
#3	-.0010	-.0002	.0000

Sample Name: Blank Acquired: 01/11/2013 10:02:31 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**321.65**	**41.267**	**830.90**
Stddev	.92	.107	5.66
%RSD	.28551	.25848	.68131
#1	322.38	41.305	836.93
#2	321.95	41.146	830.06
#3	320.62	41.349	825.70

Sample Name: Mid Std Acquired: 01/11/2013 10:08:42 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0687**	**.2700**	**.0302**	**.1091**	**1.443**	**.9179**	**.1964**	**.6968**	**.4298**
Stddev	.0002	.0007	.0002	.0002	.004	.0021	.0004	.0016	.0011
%RSD	.3220	.2742	.7228	.2081	.2920	.2327	.1790	.2251	.2578
#1	.0690	.2704	.0304	.1091	1.447	.9171	.1968	.6985	.4309
#2	.0686	.2691	.0300	.1088	1.439	.9203	.1961	.6955	.4287
#3	.0686	.2704	.0303	.1093	1.443	.9163	.1962	.6963	.4299

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3237**	**.1109**	**.3334**	**.1317**	**.1731**	**.0312**	**.2670**	**.1695**	**.2399**
Stddev	.0010	.0002	.0006	.0005	.0010	.0005	.0010	.0005	.0008
%RSD	.3100	.2144	.1928	.3807	.5957	1.544	.3784	.2849	.3341
#1	.3247	.1111	.3340	.1314	.1720	.0314	.2660	.1700	.2402
#2	.3227	.1107	.3334	.1314	.1741	.0316	.2680	.1690	.2390
#3	.3238	.1107	.3327	.1323	.1732	.0307	.2671	.1694	.2404

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.197**	**.2253**	**.0446**	**.0389**	**.0324**	**.0316**	**.0427**	**4.015**	**.3133**
Stddev	.004	.0003	.0002	.0001	.0001	.0002	.0002	.002	.0008
%RSD	.2947	.1318	.3942	.2423	.2886	.5414	.5704	.0379	.2553
#1	1.193	.2256	.0448	.0390	.0324	.0315	.0428	4.013	.3142
#2	1.200	.2251	.0445	.0388	.0323	.0318	.0424	4.015	.3131
#3	1.196	.2251	.0445	.0390	.0324	.0317	.0429	4.016	.3126

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0271**	**.0339**	**.4336**
Stddev	.0001	.0001	.0007
%RSD	.3653	.1803	.1534
#1	.0271	.0340	.4339
#2	.0270	.0339	.4329
#3	.0272	.0338	.4341

Sample Name: Mid Std Acquired: 01/11/2013 10:08:42 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**339.57**	**41.915**	**863.80**
Stddev	.84	.106	3.44
%RSD	.24743	.25265	.39831
#1	338.89	41.913	867.74
#2	340.51	42.023	862.29
#3	339.31	41.811	861.38

Sample Name: High Std Acquired: 01/11/2013 10:14:45 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1372**	**.5361**	**.0611**	**.2184**	**2.931**	**1.858**	**.3843**	**1.395**	**.8570**
Stddev	.0004	.0034	.0003	.0012	.009	.009	.0014	.006	.0047
%RSD	.2863	.6316	.4603	.5278	.3226	.4808	.3687	.4394	.5486
#1	.1368	.5322	.0609	.2171	2.922	1.848	.3828	1.390	.8521
#2	.1376	.5382	.0610	.2190	2.941	1.862	.3846	1.394	.8575
#3	.1373	.5380	.0614	.2192	2.929	1.864	.3856	1.402	.8615

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6509**	**.2204**	**.6535**	**.2605**	**.3313**	**.0610**	**.5272**	**.3352**	**.4774**
Stddev	.0037	.0007	.0020	.0025	.0022	.0008	.0039	.0011	.0024
%RSD	.5703	.3014	.2998	.9634	.6611	1.380	.7332	.3359	.5097
#1	.6467	.2196	.6515	.2578	.3287	.0608	.5228	.3340	.4748
#2	.6522	.2208	.6554	.2627	.3325	.0620	.5300	.3356	.4777
#3	.6538	.2208	.6537	.2609	.3325	.0604	.5287	.3361	.4797

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.363**	**.4526**	**.0893**	**.0782**	**.0644**	**.0642**	**.0858**	**8.076**	**.6220**
Stddev	.014	.0018	.0005	.0004	.0002	.0001	.0005	.032	.0024
%RSD	.5994	.3992	.5757	.4570	.3646	.1958	.5570	.3979	.3832
#1	2.349	.4507	.0888	.0778	.0642	.0641	.0854	8.046	.6194
#2	2.363	.4530	.0894	.0784	.0646	.0643	.0857	8.072	.6222
#3	2.378	.4542	.0898	.0784	.0645	.0642	.0863	8.110	.6242

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0554**	**.0688**	**.8631**
Stddev	.0003	.0002	.0034
%RSD	.5542	.3359	.3991
#1	.0551	.0686	.8598
#2	.0554	.0691	.8629
#3	.0557	.0688	.8667

Sample Name: High Std Acquired: 01/11/2013 10:14:45 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.43**	**42.432**	**863.03**
Stddev	1.68	.413	8.25
%RSD	.49595	.97310	.95578
#1	340.30	42.886	872.48
#2	337.93	42.079	857.28
#3	337.06	42.331	859.34

Sample Name: S301021-ICV1 Acquired: 01/11/2013 10:20:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.4**	**4999.**	**202.5**	**200.5**	**200.9**	**199.2**	**4994.**	**202.2**	**200.9**
Stddev	.5	22.	1.4	.5	.9	1.3	14.	.8	.4
%RSD	.2701	.4440	.6840	.2593	.4451	.6434	.2897	.3866	.2127
#1	202.9	4980.	201.2	199.9	201.9	198.8	5010.	201.3	200.4
#2	202.6	5023.	202.3	200.9	200.6	198.2	4986.	202.7	201.1
#3	201.8	4993.	204.0	200.6	200.2	200.6	4984.	202.6	201.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**203.1**	**202.4**	**5062.**	**5069.**	**4993.**	**5008.**	**5001.**	**203.6**	**202.5**
Stddev	.0	.4	16.	21.	35.	67.	11.	.3	.2
%RSD	.0194	.2134	.3250	.4111	.7025	1.334	.2236	.1505	.0931
#1	203.1	202.9	5047.	5049.	5011.	5085.	5011.	203.4	202.3
#2	203.1	202.2	5079.	5091.	4953.	4968.	5003.	203.9	202.7
#3	203.2	202.1	5059.	5067.	5016.	4972.	4989.	203.5	202.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-ICV1 Acquired: 01/11/2013 10:20:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4961.**	**201.2**	**203.2**	**198.3**	**202.0**	**5038.**	**198.8**	**203.1**	**202.2**
Stddev	32.	.4	.5	.2	.5	86.	.4	.1	.3
%RSD	.6434	.1941	.2296	.1059	.2415	1.709	.2124	.0429	.1436
#1	4933.	201.4	202.7	198.5	202.6	5070.	198.5	203.1	202.1
#2	4955.	201.5	203.6	198.4	201.9	5103.	198.6	203.1	202.5
#3	4996.	200.8	203.2	198.1	201.7	4940.	199.3	203.0	202.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**199.7**	**198.4**	**205.0**
Stddev	.5	.3	.7
%RSD	.2264	.1366	.3297
#1	199.5	198.1	204.2
#2	200.2	198.5	205.1
#3	199.3	198.7	205.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-ICV1 Acquired: 01/11/2013 10:20:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**340.87**	**41.702**	**867.01**
Stddev	.46	.150	7.36
%RSD	.13408	.35893	.84924
#1	341.35	41.835	875.49
#2	340.81	41.732	862.30
#3	340.44	41.540	863.24

Sample Name: S301021-ICB1 Acquired: 01/11/2013 10:26:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0125**	**-13.46**	**.1965**	**.3693**	**-.3964**	**.0746**	**20.62**	**-.1908**	**-.1256**
Stddev	.2226	11.47	.8523	.3436	.3445	.6291	9.29	.0334	.0457
%RSD	1780.	85.24	433.7	93.04	86.91	843.7	45.06	17.49	36.41
#1	.1479	-4.952	-.7550	.6441	-.5542	-.4814	20.76	-.1804	-.1405
#2	.1340	-8.920	.8899	-.0160	-.6338	-.0524	29.85	-.1638	-.0743
#3	-.2444	-26.51	.4547	.4799	-.0012	.7575	11.26	-.2280	-.1620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0826**	**-.4860**	**-1.898**	**7.172**	**-110.5**	**-7.414**	**14.34**	**-.1088**	**.1047**
Stddev	.1916	.3612	.266	22.39	41.3	97.99	16.76	.0629	.0447
%RSD	232.0	74.33	13.99	312.2	37.40	1322.	116.9	57.84	42.69
#1	.1379	-.5960	-2.179	-6.163	-63.15	105.6	25.25	-.1488	.0730
#2	-.1769	-.0826	-1.863	33.02	-128.8	-58.36	-4.964	-.0363	.1559
#3	-.2086	-.7795	-1.652	-5.341	-139.4	-69.43	22.74	-.1413	.0853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301021-ICB1 Acquired: 01/11/2013 10:26:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.342**	**-.4408**	**.2682**	**-.6596**	**.6188**	**-91.91**	**-.1940**	**-.0966**	**-.1532**
Stddev	6.580	.2449	.2147	.5566	.7655	47.63	.2691	.0931	.0762
%RSD	89.62	55.55	80.07	84.38	123.7	51.82	138.7	96.38	49.74
#1	13.12	-.2593	.3272	-1.170	.5582	-42.57	-.4871	-.1963	-.2322
#2	.1784	-.3438	.0301	-.7423	1.413	-137.6	.0419	-.0815	-.0802
#3	8.732	-.7193	.4473	-.0663	-.1147	-95.54	-.1369	-.0119	-.1470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.0971**	**-.4604**	**-.2152**
Stddev	1.118	.5134	.0039
%RSD	1152.	111.5	1.830
#1	1.310	.1324	-.2168
#2	-.8937	-.7508	-.2181
#3	-.1249	-.7628	-.2107
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301021-ICB1 Acquired: 01/11/2013 10:26:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**331.77**	**41.489**	**849.88**
Stddev	.81	.118	5.23
%RSD	.24541	.28366	.61587
#1	331.86	41.440	855.69
#2	332.54	41.623	848.41
#3	330.92	41.403	845.53

Sample Name: S301021-LCV1 Acquired: 01/11/2013 10:33:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.034**	**105.8**	**9.030**	**12.54**	**104.2**	**2.778**	**524.9**	**3.362**	**23.07**
Stddev	.683	16.7	.393	.21	.8	.333	2.5	.050	.09
%RSD	13.56	15.80	4.347	1.665	.7333	12.00	.4783	1.495	.4075
#1	5.725	103.1	8.950	12.45	104.3	2.782	522.1	3.320	22.98
#2	5.016	90.51	8.684	12.78	103.4	2.443	527.0	3.418	23.07
#3	4.360	123.6	9.457	12.39	104.9	3.109	525.7	3.349	23.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.567**	**9.758**	**51.85**	**61.62**	**472.7**	**491.1**	**520.1**	**5.530**	**10.31**
Stddev	.147	.425	.30	41.64	9.9	65.3	12.6	.036	.16
%RSD	2.634	4.356	.5720	67.57	2.097	13.29	2.423	.6496	1.511
#1	5.412	9.279	51.51	24.59	482.8	422.8	517.5	5.568	10.46
#2	5.703	9.907	52.05	106.7	463.0	497.8	533.8	5.527	10.15
#3	5.588	10.09	51.99	53.58	472.3	552.8	508.9	5.496	10.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-LCV1 Acquired: 01/11/2013 10:33:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1013.**	**20.02**	**9.049**	**21.07**	**20.67**	**507.3**	**10.44**	**11.10**	**9.700**
Stddev	10.	.29	.886	.91	.99	143.2	.49	.16	.109
%RSD	.9595	1.452	9.795	4.319	4.804	28.23	4.704	1.462	1.122
#1	1024.	19.81	8.286	22.09	19.68	518.8	10.93	11.25	9.604
#2	1005.	20.35	10.02	20.34	21.67	358.7	9.951	10.93	9.818
#3	1010.	19.91	8.838	20.79	20.65	644.4	10.45	11.12	9.677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.59**	**20.81**	**21.76**
Stddev	1.75	.27	.09
%RSD	9.434	1.301	.3993
#1	18.79	20.60	21.66
#2	16.74	20.73	21.79
#3	20.23	21.12	21.83
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-LCV1 Acquired: 01/11/2013 10:33:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**333.09**	**41.512**	**855.89**
Stddev	.57	.092	8.14
%RSD	.17079	.22256	.95108
#1	333.71	41.416	865.01
#2	332.96	41.600	849.34
#3	332.60	41.519	853.33

Sample Name: S301021-LCV2 Acquired: 01/11/2013 10:39:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.14**	**227.9**	**18.61**	**24.24**	**207.3**	**5.706**	**1023.**	**6.968**	**46.00**
Stddev	.22	11.8	.92	.51	1.4	.541	18.	.154	.48
%RSD	2.173	5.168	4.946	2.115	.6919	9.491	1.728	2.215	1.044
#1	10.14	233.8	18.03	24.22	205.7	6.229	1010.	6.924	45.74
#2	9.923	214.3	18.13	23.73	207.8	5.148	1016.	6.840	45.71
#3	10.36	235.5	19.67	24.76	208.4	5.740	1043.	7.139	46.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.09**	**19.45**	**103.0**	**111.8**	**987.0**	**1138.**	**1063.**	**10.84**	**20.70**
Stddev	.04	.27	.5	6.5	80.5	171.	14.	.19	.26
%RSD	.3715	1.378	.4371	5.769	8.159	15.04	1.318	1.785	1.234
#1	11.05	19.51	102.5	115.3	899.9	946.4	1052.	10.65	20.48
#2	11.10	19.68	103.3	104.4	1002.	1275.	1079.	10.83	20.98
#3	11.13	19.15	103.1	115.8	1059.	1193.	1057.	11.03	20.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-LCV2 Acquired: 01/11/2013 10:39:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2024.**	**40.67**	**17.21**	**41.39**	**42.20**	**951.0**	**20.70**	**22.11**	**19.48**
Stddev	18.	.26	1.55	.35	1.02	41.3	.69	.20	.20
%RSD	.8764	.6317	8.988	.8541	2.416	4.344	3.334	.9209	1.032
#1	2012.	40.54	17.49	41.01	41.99	940.3	20.58	22.02	19.25
#2	2016.	40.51	18.60	41.71	41.31	996.6	20.08	21.96	19.57
#3	2044.	40.97	15.54	41.44	43.31	916.1	21.45	22.34	19.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**38.08**	**42.15**	**43.36**
Stddev	.80	.10	.50
%RSD	2.110	.2446	1.159
#1	38.66	42.04	43.09
#2	38.42	42.21	43.05
#3	37.17	42.22	43.94
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-LCV2 Acquired: 01/11/2013 10:39:16 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**333.14**	**41.790**	**862.01**
Stddev	2.84	.147	11.86
%RSD	.85315	.35096	1.3761
#1	334.84	41.935	875.70
#2	334.72	41.794	855.38
#3	329.86	41.642	854.94

Sample Name: S301021-IFA1 Acquired: 01/11/2013 10:45:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3464**	**313200.**	**.0856**	**-3.689**	**.5745**	**.0284**	**292100.**	**-.0325**
Stddev	.2291	1179.	1.611	.318	.0910	.5088	1056.	.1560
%RSD	66.15	.3764	1882.	8.623	15.84	1789.	.3616	480.3
#1	.1444	314400.	-1.518	-3.552	.5793	.1278	292900.	-.1827
#2	.5954	312100.	1.704	-4.052	.4812	-.5227	290900.	-.0434
#3	.2995	313200.	.0713	-3.462	.6630	.4802	292500.	.1287
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.968**	**1.582**	**-3.961**	**199800.**	**289100.**	**197.5**	**318100.**	**272800.**
Stddev	.126	.109	.166	1563.	1161.	123.1	1940.	1031.
%RSD	4.251	6.857	4.194	.7826	.4014	62.33	.6099	.3778
#1	-3.104	1.613	-4.138	200600.	290400.	56.02	320100.	273500.
#2	-2.856	1.672	-3.809	198000.	288200.	280.1	316200.	271600.
#3	-2.944	1.461	-3.936	200700.	288800.	256.4	318100.	273300.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S301021-IFA1 Acquired: 01/11/2013 10:45:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0872**	**-1.958**	**317900.**	**-7.895**	**-.8766**	**5.744**	**1.937**	**73.02**
Stddev	.1506	.035	2094.	.306	1.886	.636	1.915	87.13
%RSD	172.7	1.769	.6586	3.875	215.2	11.08	98.88	119.3
#1	-.2167	-1.944	318000.	-7.698	1.299	6.067	4.118	163.4
#2	.0780	-1.998	315800.	-7.740	-2.063	5.011	1.159	-10.41
#3	-.1228	-1.933	320000.	-8.248	-1.866	6.154	.5326	66.05
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.065**	**5.045**	**-3.421**	**-11.86**	**5.700**	**3.705**
Stddev	.423	.135	.051	1.00	1.890	.101
%RSD	39.76	2.684	1.481	8.428	33.16	2.716
#1	1.464	5.093	-3.428	-10.74	7.853	3.723
#2	1.111	5.150	-3.367	-12.67	4.315	3.597
#3	.6206	4.892	-3.468	-12.16	4.931	3.795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S301021-IFA1 Acquired: 01/11/2013 10:45:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**297.09**	**39.932**	**802.56**
Stddev	.69	.070	5.75
%RSD	.23083	.17649	.71661
#1	297.83	39.932	800.70
#2	296.97	40.002	809.01
#3	296.47	39.862	797.97

Sample Name: Rinse Acquired: 01/11/2013 10:51:46 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1998**	**11.44**	**1.362**	**.1192**	**.4186**	**-.0891**	**28.06**	**-.1870**	**-.1526**
Stddev	.5244	49.84	.416	.1842	.5030	.4588	25.82	.0145	.0667
%RSD	262.5	435.5	30.55	154.5	120.2	514.6	91.99	7.749	43.71
#1	-.6015	62.25	1.831	.1212	.7210	-.5795	40.95	-.1702	-.1246
#2	-.3914	9.451	1.215	.3024	-.1621	-.0174	44.90	-.1957	-.2287
#3	.3935	-37.37	1.039	-.0659	.6969	.3295	-1.660	-.1950	-.1044

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2111**	**-.5557**	**19.74**	**28.54**	**3.132**	**-131.5**	**37.05**	**-.1642**	**-.1488**
Stddev	.1398	.0561	3.82	31.70	118.3	60.4	16.79	.0163	.1619
%RSD	66.25	10.10	19.36	111.1	3777.	45.95	45.30	9.953	108.8
#1	-.1457	-.6182	19.76	56.79	-60.19	-134.7	47.87	-.1830	-.2361
#2	-.3716	-.5393	23.56	-5.750	139.6	-69.51	45.57	-.1536	-.2482
#3	-.1159	-.5096	15.92	34.57	-70.01	-190.2	17.71	-.1559	.0380

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**136.0**	**-.6906**	**.0770**	**.2515**	**.7979**	**6.998**	**.1965**	**-.2613**	**-.2609**
Stddev	33.3	.3710	.2963	.2984	.5977	40.36	.6354	.0724	.0627
%RSD	24.47	53.71	384.9	118.7	74.90	576.7	323.3	27.72	24.03
#1	167.0	-.7656	-.2351	-.0239	.3876	-21.58	.0735	-.1823	-.1885
#2	140.3	-1.018	.3546	.2097	.5225	-10.59	.8844	-.3246	-.2967
#3	100.8	-.2879	.1114	.5686	1.484	53.16	-.3683	-.2769	-.2975

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.277**	**.4989**	**.3558**
Stddev	1.479	.9751	.0341
%RSD	115.9	195.5	9.588
#1	-2.956	1.474	.3197
#2	-.7071	.4997	.3601
#3	-.1672	-.4767	.3876

Sample Name: Rinse Acquired: 01/11/2013 10:51:46 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**331.70**	**41.372**	**853.84**
Stddev	1.19	.148	9.02
%RSD	.35921	.35778	1.0568
#1	331.66	41.543	863.53
#2	332.91	41.284	852.29
#3	330.53	41.289	845.69

Sample Name: B301045-BLK1 Acquired: 01/11/2013 10:57:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6566**	**2.331**	**.4230**	**.3987**	**-.2578**	**.0453**	**47.61**	**-.1383**	**-.2373**
Stddev	.6763	13.61	.4243	.5336	.4922	.2532	6.20	.0772	.0836
%RSD	103.0	583.8	100.3	133.8	190.9	559.3	13.03	55.81	35.24
#1	-.1726	2.792	.6510	.9965	-.7885	-.1724	43.76	-.2151	-.3291
#2	-1.429	15.71	-.0666	-.0297	-.1686	-.0150	44.30	-.1392	-.1656
#3	-.3679	-11.50	.6847	.2294	.1837	.3232	54.76	-.0607	-.2171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1855**	**.0652**	**6.759**	**17.86**	**-42.47**	**-98.92**	**8.341**	**-.0925**	**-.0469**
Stddev	.1329	.5234	2.144	14.78	97.86	6.88	7.421	.0403	.2029
%RSD	71.64	802.6	31.72	82.74	230.4	6.955	88.97	43.50	432.3
#1	-.2911	-.0615	4.288	16.10	70.42	-103.8	-.2284	-.0465	-.2579
#2	-.2292	.6403	8.131	4.045	-94.66	-101.9	12.62	-.1209	-.0296
#3	-.0363	-.3831	7.857	33.45	-103.2	-91.05	12.63	-.1102	.1468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B301045-BLK1 Acquired: 01/11/2013 10:57:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**124.7**	**-.4735**	**.5306**	**-1.322**	**1.205**	**-31.57**	**.4119**	**-.0730**	**-.1000**
Stddev	4.4	.2074	.3290	.786	1.942	28.59	.3552	.1535	.1540
%RSD	3.545	43.80	62.01	59.46	161.2	90.56	86.25	210.4	154.0
#1	119.7	-.2966	.4529	-.8377	2.666	-9.283	.1945	.0816	-.2704
#2	128.1	-.7017	.8915	-2.229	1.947	-63.80	.8218	-.0750	-.0589
#3	126.3	-.4221	.2473	-.8992	-.9985	-21.62	.2193	-.2255	.0293
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.6945**	**1.121**	**1.117**
Stddev	.0333	.390	.059
%RSD	4.792	34.80	5.325
#1	-.6789	1.474	1.052
#2	-.6719	.7024	1.129
#3	-.7327	1.185	1.169
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301045-BLK1 Acquired: 01/11/2013 10:57:54 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**331.70**	**41.222**	**860.50**
Stddev	.57	.660	4.01
%RSD	.17263	1.6004	.46628
#1	331.72	40.460	864.15
#2	332.27	41.613	856.21
#3	331.12	41.592	861.15

Sample Name: B301045-SRM1 Acquired: 01/11/2013 11:04:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094162
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44.86**	**5669.**	**170.6**	**84.76**	**197.9**	**106.1**	**6507.**	**96.89**	**127.0**
Stddev	.19	25.	1.8	.79	.5	.6	22.	.89	1.2
%RSD	.4124	.4350	1.071	.9335	.2294	.5809	.3340	.9137	.9672
#1	44.88	5644.	169.5	84.47	197.8	105.4	6494.	96.36	126.4
#2	44.67	5670.	172.7	85.66	197.6	106.4	6494.	97.91	128.5
#3	45.04	5694.	169.6	84.15	198.5	106.6	6532.	96.38	126.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**113.2**	**117.1**	^F *****	**10480.**	**2562.**	**2268.**	**2294.**	**312.5**	**64.56**
Stddev	1.0	.1	-----	22.	16.	10.	10.	1.1	.60
%RSD	.9008	.0471	-----	.2058	.6427	.4361	.4317	.3627	.9306
#1	112.8	117.1	s 9012.	10480.	2544.	2260.	2289.	313.7	64.29
#2	114.3	117.0	^ -----	10460.	2577.	2265.	2287.	311.4	65.25
#3	112.4	117.1	^ -----	10500.	2565.	2279.	2305.	312.4	64.14
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			19400.						
Low Limit			6560.						

Sample Name: B301045-SRM1 Acquired: 01/11/2013 11:04:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094162
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**326.4**	**68.51**	**72.30**	**197.7**	**126.6**	**1044.**	**140.6**	**127.1**	**124.0**
Stddev	.9	.64	.83	1.8	1.5	13.	1.4	.3	.3
%RSD	.2810	.9268	1.150	.9257	1.162	1.233	1.011	.2166	.2154
#1	327.0	68.23	71.78	197.2	126.0	1040.	139.6	127.0	124.2
#2	325.4	69.24	73.26	199.7	128.3	1033.	142.2	126.9	123.7
#3	326.9	68.06	71.86	196.2	125.6	1058.	140.0	127.4	124.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**196.5**	**80.90**	**260.5**
Stddev	1.7	.18	2.7
%RSD	.8602	.2208	1.049
#1	195.3	81.07	258.6
#2	198.4	80.93	263.7
#3	195.8	80.72	259.3
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301045-SRM1 Acquired: 01/11/2013 11:04:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094162
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**333.27**	**43.778**	**880.12**
Stddev	2.27	.299	3.21
%RSD	.68195	.68311	.36508
#1	334.70	44.094	883.82
#2	330.65	43.740	878.54
#3	334.45	43.500	878.00

Sample Name: B301045-SRM2 Acquired: 01/11/2013 11:10:02 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091408
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44.52**	**5789.**	**166.7**	**82.55**	**193.4**	**105.0**	**6532.**	**95.70**	**124.2**
Stddev	.05	6.	.2	.00	.4	.1	12.	.02	.1
%RSD	.1031	.1045	.1439	.0059	.2113	.0965	.1822	.0168	.0780
#1	44.48	5787.	167.0	82.54	193.0	105.1	6528.	95.69	124.1
#2	44.57	5784.	166.6	82.55	193.8	105.1	6523.	95.69	124.2
#3	44.52	5796.	166.6	82.55	193.3	104.9	6545.	95.72	124.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**111.7**	**116.9**	**9060.**	**10710.**	**2560.**	**2296.**	**2321.**	**309.8**	**64.17**
Stddev	.1	.1	7.	7.	18.	8.	4.	.3	.07
%RSD	.0973	.1245	.0737	.0612	.6918	.3568	.1875	.1084	.1092
#1	111.6	116.8	9066.	10710.	2577.	2304.	2320.	309.6	64.09
#2	111.8	116.7	9053.	10700.	2562.	2294.	2325.	310.2	64.19
#3	111.6	117.0	9061.	10710.	2542.	2288.	2317.	309.7	64.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B301045-SRM2 Acquired: 01/11/2013 11:10:02 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091408
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**320.6**	**67.61**	**70.81**	**199.6**	**125.0**	**851.8**	**138.1**	**122.3**	**123.9**
Stddev	2.3	.15	.11	.4	.3	2.4	.2	.1	.2
%RSD	.7091	.2229	.1610	.1888	.2786	.2764	.1434	.0585	.1745
#1	318.1	67.77	70.78	199.8	124.9	849.9	138.1	122.3	124.0
#2	321.1	67.56	70.71	199.7	124.8	851.1	138.0	122.2	123.7
#3	322.5	67.48	70.93	199.1	125.4	854.4	138.4	122.3	124.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**192.6**	**80.73**	**256.7**
Stddev	.2	.06	.4
%RSD	.1061	.0712	.1751
#1	192.8	80.73	257.1
#2	192.4	80.79	256.2
#3	192.7	80.68	256.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B301045-SRM2 Acquired: 01/11/2013 11:10:02 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091408
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.07**	**43.653**	**888.76**
Stddev	.53	.044	.82
%RSD	.15693	.10164	.09239
#1	335.65	43.627	889.49
#2	334.96	43.704	888.90
#3	334.61	43.628	887.87

Sample Name: 1301009-01 Acquired: 01/11/2013 11:16:14 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**54.35**	**56870.**	**9.869**	**14.34**	**745.1**	**2.157**	**11840.**	**-.0878**	**30.72**
Stddev	1.07	174.	.377	.39	2.9	.122	10.	.0523	.15
%RSD	1.972	.3057	3.822	2.744	.3923	5.661	.0872	59.61	.4819
#1	53.21	56920.	10.30	14.72	746.8	2.170	11850.	-.1120	30.87
#2	55.34	57010.	9.719	13.93	746.8	2.029	11830.	-.0277	30.58
#3	54.50	56680.	9.589	14.36	741.7	2.272	11840.	-.1237	30.72

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**80.35**	**42.03**	**64540.**	**71710.**	**4532.**	**19990.**	**19830.**	**950.9**	**.8388**
Stddev	.28	.17	144.	221.	98.	220.	66.	.3	.3085
%RSD	.3437	.4082	.2228	.3083	2.152	1.099	.3326	.0274	36.78
#1	80.66	42.21	64700.	71840.	4616.	20170.	19860.	951.1	1.137
#2	80.20	41.87	64510.	71830.	4425.	19750.	19870.	950.6	.8590
#3	80.17	42.00	64420.	71450.	4554.	20050.	19750.	950.9	.5206

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**312.3**	**73.37**	**3146.**	**11.66**	**-1.075**	**5493.**	**-3.058**	**93.97**	**1060.**
Stddev	7.8	.09	5.	.16	1.842	17.	.437	.40	1.
%RSD	2.497	.1264	.1662	1.402	171.3	.3029	14.27	.4281	.0731
#1	311.3	73.42	3152.	11.78	.9709	5489.	-3.300	94.05	1059.
#2	305.1	73.27	3143.	11.48	-1.596	5511.	-2.554	94.32	1060.
#3	320.6	73.43	3143.	11.74	-2.600	5478.	-3.320	93.53	1061.

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-2.652**	**73.69**	**326.9**
Stddev	.688	.36	.6
%RSD	25.96	.4832	.1741
#1	-1.912	73.89	327.6
#2	-2.772	73.89	326.5
#3	-3.273	73.27	326.8

Sample Name: 1301009-01 Acquired: 01/11/2013 11:16:14 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**342.23**	**42.281**	**883.52**
Stddev	.29	.037	5.07
%RSD	.08346	.08716	.57385
#1	341.92	42.289	889.35
#2	342.49	42.313	880.18
#3	342.28	42.241	881.02

Sample Name: B301045-MS1 Acquired: 01/11/2013 11:22:18 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**256.4**	**78550.**	**200.9**	**216.5**	**959.7**	**191.1**	**17130.**	**188.4**
Stddev	.6	137.	.7	.2	3.6	.1	32.	.3
%RSD	.2191	.1739	.3478	.0895	.3741	.0513	.1852	.1527
#1	257.0	78570.	200.8	216.3	962.5	191.2	17090.	188.8
#2	255.8	78670.	201.7	216.5	961.1	191.1	17160.	188.3
#3	256.5	78400.	200.3	216.7	955.7	191.0	17130.	188.3

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**224.5**	**289.3**	**254.3**	**s 75800.**	**85680.**	**11230.**	**27400.**	**27440.**
Stddev	.4	.3	.6	361.	80.	111.	97.	70.
%RSD	.1946	.1163	.2414	.4757	.0936	.9922	.3546	.2557
#1	224.5	289.6	253.6	76200.	85660.	11350.	27400.	27350.
#2	224.0	289.3	254.5	s 75680.	85770.	11140.	27500.	27480.
#3	224.9	288.9	254.9	s 75510.	85620.	11190.	27310.	27480.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1231.**	**191.7**	**5165.**	**280.2**	**3401.**	**198.8**	**185.5**	**16530.**
Stddev	3.	.3	7.	.7	6.	2.1	1.2	82.
%RSD	.2340	.1725	.1422	.2559	.1641	1.076	.6421	.4948
#1	1231.	191.4	5156.	280.9	3403.	200.1	185.4	16480.
#2	1228.	191.5	5168.	279.5	3395.	196.4	186.7	16500.
#3	1234.	192.0	5170.	280.2	3405.	200.1	184.4	16630.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.7**	**302.1**	**1400.**	**186.5**	**285.0**	**546.4**
Stddev	1.0	.3	2.	1.3	.7	.9
%RSD	.5592	.0891	.1759	.6755	.2466	.1584
#1	186.5	302.1	1402.	187.6	285.7	546.7
#2	186.0	302.3	1398.	185.1	285.0	545.4
#3	184.5	301.8	1402.	186.9	284.3	547.0

Sample Name: B301045-MS1 Acquired: 01/11/2013 11:22:18 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**342.10**	**43.343**	**880.98**
Stddev	.81	.132	6.87
%RSD	.23669	.30473	.78037
#1	342.51	43.449	888.65
#2	342.63	43.386	878.93
#3	341.17	43.195	875.36

Sample Name: B301045-MSD1 Acquired: 01/11/2013 11:28:19 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**258.4**	**80520.**	**209.3**	**219.1**	**974.6**	**198.8**	**17860.**	**196.4**	**233.2**
Stddev	1.9	336.	4.4	.9	3.0	3.2	158.	2.3	3.2
%RSD	.7307	.4168	2.121	.4163	.3070	1.628	.8850	1.167	1.372
#1	259.6	80220.	204.7	220.1	978.1	198.7	17850.	195.2	231.3
#2	256.2	80880.	209.6	218.3	973.4	202.0	18020.	194.9	231.5
#3	259.3	80450.	213.5	218.8	972.4	195.6	17700.	199.0	236.9

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**301.0**	**247.4**	**86970.**	**89230.**	**10620.**	**27820.**	**28510.**	**1291.**	**195.6**
Stddev	4.0	.7	83.	249.	243.	160.	153.	3.	1.6
%RSD	1.328	.3018	.0953	.2794	2.287	.5734	.5373	.2530	.8253
#1	298.3	246.8	87060.	88950.	10890.	27670.	28340.	1294.	194.7
#2	299.1	248.2	86930.	89330.	10550.	27990.	28640.	1288.	194.7
#3	305.6	247.1	86910.	89420.	10420.	27790.	28530.	1292.	197.5

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5159.**	**286.5**	**3563.**	**205.6**	**197.5**	**16710.**	**195.1**	**308.4**	**1471.**
Stddev	41.	4.5	54.	4.1	6.6	302.	2.6	.3	2.
%RSD	.7997	1.568	1.503	2.002	3.343	1.804	1.313	.1013	.1679
#1	5117.	285.1	3519.	200.9	196.6	16450.	195.8	308.4	1469.
#2	5200.	282.9	3546.	207.7	191.4	16660.	192.2	308.7	1474.
#3	5159.	291.5	3622.	208.3	204.5	17040.	197.2	308.0	1470.

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**193.4**	**295.9**	**578.7**
Stddev	8.7	2.7	7.2
%RSD	4.516	.9284	1.244
#1	183.5	293.2	574.0
#2	196.8	295.9	575.1
#3	200.0	298.7	587.0

Sample Name: B301045-MSD1 Acquired: 01/11/2013 11:28:19 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**339.15**	**41.859**	**876.33**
Stddev	3.43	.191	4.79
%RSD	1.0116	.45605	.54631
#1	341.02	42.046	881.84
#2	341.23	41.664	873.94
#3	335.19	41.866	873.20

Sample Name: 1301009-02 Acquired: 01/11/2013 11:34:23 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**57.30**	**59880.**	**9.700**	**14.00**	**761.2**	**2.046**	**12410.**	**-.0843**	**32.24**
Stddev	.49	102.	1.278	.13	2.4	.660	39.	.0211	.08
%RSD	.8493	.1701	13.18	.8986	.3212	32.25	.3113	25.02	.2503
#1	56.74	59760.	10.52	13.88	760.3	1.986	12370.	-.0958	32.17
#2	57.62	59950.	8.228	14.13	763.9	2.733	12450.	-.0600	32.23
#3	57.54	59920.	10.35	13.99	759.3	1.418	12420.	-.0972	32.33

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**84.70**	**44.65**	**66630.**	**74150.**	**4571.**	**20700.**	**20650.**	**1013.**	**.6012**
Stddev	.16	.59	173.	408.	89.	149.	67.	2.	.0812
%RSD	.1864	1.332	.2600	.5498	1.940	.7207	.3220	.2249	13.51
#1	84.52	44.62	66790.	73810.	4469.	20870.	20580.	1013.	.6400
#2	84.78	44.08	66660.	74600.	4611.	20610.	20650.	1010.	.5079
#3	84.80	45.26	66440.	74030.	4632.	20610.	20720.	1015.	.6559

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**331.2**	**76.73**	**3238.**	**11.49**	**-.8549**	**6012.**	**-3.372**	**97.19**	**1096.**
Stddev	11.1	.36	6.	1.54	1.189	29.	.021	.17	3.
%RSD	3.336	.4664	.1774	13.41	139.1	.4867	.6191	.1721	.2334
#1	337.6	76.39	3232.	11.09	-.6323	5989.	-3.349	97.01	1098.
#2	318.4	77.10	3241.	13.19	.2072	6003.	-3.389	97.34	1093.
#3	337.5	76.69	3242.	10.18	-2.139	6045.	-3.378	97.23	1097.

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-3.641**	**75.54**	**339.4**
Stddev	1.185	.46	.5
%RSD	32.55	.6146	.1496
#1	-3.043	75.74	338.8
#2	-5.006	75.01	339.9
#3	-2.874	75.88	339.4

Sample Name: 1301009-02 Acquired: 01/11/2013 11:34:23 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**341.47**	**42.140**	**883.18**
Stddev	.40	.120	5.08
%RSD	.11632	.28418	.57474
#1	341.72	42.277	889.02
#2	341.69	42.052	879.90
#3	341.01	42.092	880.61

Sample Name: 1301009-03 Acquired: 01/11/2013 11:40:26 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.04**	**76690.**	**66.06**	**12.48**	**409.6**	**4.072**	**12000.**	**-.3406**
Stddev	.50	211.	.85	.10	.5	.325	34.	.0563
%RSD	1.016	.2757	1.286	.8238	.1193	7.978	.2824	16.54
#1	49.06	76640.	65.36	12.56	409.8	4.130	11980.	-.2881
#2	48.54	76500.	67.01	12.36	409.1	3.722	11990.	-.4001
#3	49.54	76920.	65.82	12.50	410.0	4.364	12040.	-.3335

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**69.79**	**125.9**	**133.4**	**148900.**	**195000.**	**5957.**	**17920.**	**18030.**
Stddev	.27	.5	.4	450.	667.	88.	46.	14.
%RSD	.3823	.3748	.2970	.3020	.3419	1.477	.2590	.0768
#1	69.68	125.8	133.1	148500.	195600.	5925.	17960.	18010.
#2	69.60	125.5	133.3	148900.	194300.	6056.	17870.	18030.
#3	70.09	126.4	133.9	149400.	195000.	5889.	17930.	18040.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1586.**	**7.556**	**366.5**	**95.83**	**1674.**	**6.235**	**-.7487**	**4877.**
Stddev	4.	.342	3.3	.37	9.	1.440	1.874	18.
%RSD	.2383	4.531	.9057	.3858	.5555	23.10	250.4	.3775
#1	1582.	7.672	369.3	95.56	1669.	7.535	1.201	4858.
#2	1586.	7.171	367.4	95.68	1669.	4.687	-2.538	4877.
#3	1590.	7.826	362.8	96.26	1685.	6.484	-.9090	4895.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.272**	**114.6**	**957.5**	**-8.380**	**230.7**	**490.9**
Stddev	.336	.3	2.3	.647	.7	2.3
%RSD	7.856	.2408	.2379	7.725	.3040	.4621
#1	4.572	114.6	954.9	-8.623	230.6	490.1
#2	3.910	114.3	958.8	-7.647	231.5	489.2
#3	4.335	114.9	958.9	-8.871	230.1	493.5

Sample Name: 1301009-03 Acquired: 01/11/2013 11:40:26 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**340.57**	**43.520**	**896.15**
Stddev	1.43	.086	.63
%RSD	.42123	.19777	.07030
#1	341.30	43.562	896.30
#2	341.48	43.578	895.46
#3	338.91	43.421	896.70

Sample Name: 1301009-04 Acquired: 01/11/2013 11:46:43 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.27**	**60890.**	**79.34**	**14.08**	**166.0**	**4.325**	**8188.**	**-.4861**
Stddev	.37	145.	1.07	.17	1.0	.199	25.	.0472
%RSD	.9871	.2378	1.353	1.202	.5941	4.599	.3055	9.703
#1	37.34	60820.	80.41	14.25	166.7	4.309	8174.	-.4426
#2	36.87	60790.	79.34	13.91	164.9	4.134	8173.	-.4794
#3	37.60	61050.	78.26	14.09	166.3	4.531	8217.	-.5362

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**85.02**	**101.6**	**89.16**	**174200.**	**242100.**	**4414.**	**16210.**	**16520.**
Stddev	.46	.4	.20	207.	306.	58.	219.	84.
%RSD	.5419	.3818	.2211	.1186	.1263	1.320	1.354	.5092
#1	85.52	102.1	89.22	174400.	242400.	4354.	16330.	16520.
#2	84.61	101.5	88.94	174100.	241800.	4419.	16330.	16430.
#3	84.94	101.4	89.32	174000.	242000.	4470.	15950.	16600.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2544.**	**5.003**	**288.6**	**81.89**	**120.9**	**5.790**	**-1.007**	**5808.**
Stddev	2.	.276	4.8	.80	2.0	1.030	2.202	41.
%RSD	.0936	5.522	1.672	.9826	1.630	17.79	218.7	.6989
#1	2545.	5.210	290.3	82.78	122.8	5.997	.5502	5851.
#2	2546.	4.689	283.1	81.68	121.1	4.672	-3.525	5801.
#3	2542.	5.111	292.3	81.21	118.9	6.701	-.0443	5771.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4004**	**76.03**	**746.1**	**-9.962**	**207.0**	**316.6**
Stddev	.9411	.24	2.8	1.074	1.0	1.3
%RSD	235.0	.3100	.3694	10.78	.4828	.4036
#1	-1.369	76.29	748.9	-11.12	208.0	318.0
#2	-.3428	75.98	743.4	-9.000	206.9	315.7
#3	.5105	75.83	745.9	-9.765	206.0	316.0

Sample Name: 1301009-04 Acquired: 01/11/2013 11:46:43 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.10**	**42.896**	**888.69**
Stddev	1.35	.132	1.06
%RSD	.39924	.30818	.11897
#1	336.64	43.043	889.79
#2	339.30	42.855	887.69
#3	338.35	42.789	888.58

Sample Name: S301021-CCV1 Acquired: 01/11/2013 11:53:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**195.9**	**5021.**	**199.7**	**203.5**	**205.2**	**192.9**	**4979.**	**199.5**	**197.7**
Stddev	1.2	18.	1.2	1.7	.1	.7	35.	1.4	1.0
%RSD	.5987	.3553	.5996	.8294	.0618	.3444	.7043	.7013	.5306
#1	196.7	5033.	200.5	203.7	205.1	192.1	4940.	199.4	197.4
#2	194.6	5001.	200.4	205.1	205.2	193.2	4988.	201.0	198.9
#3	196.5	5030.	198.3	201.7	205.4	193.3	5008.	198.2	196.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**201.9**	**199.1**	**5018.**	**5125.**	**4887.**	**4833.**	**5018.**	**195.1**	**200.5**
Stddev	1.4	.2	3.	27.	68.	78.	26.	.4	1.4
%RSD	.6764	.1119	.0679	.5211	1.384	1.622	.5230	.2017	.6897
#1	201.8	199.3	5019.	5152.	4964.	4761.	5028.	194.7	199.9
#2	203.3	199.1	5014.	5099.	4858.	4820.	4988.	195.0	202.1
#3	200.6	198.8	5020.	5124.	4838.	4917.	5038.	195.5	199.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-CCV1 Acquired: 01/11/2013 11:53:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4969.**	**201.0**	**199.3**	**199.5**	**201.3**	**4765.**	**195.6**	**204.6**	**192.5**
Stddev	5.	1.5	1.0	1.1	2.1	98.	1.7	.7	.6
%RSD	.0952	.7555	.4889	.5261	1.056	2.049	.8883	.3454	.3200
#1	4970.	200.2	198.5	199.1	200.9	4845.	194.6	203.9	192.2
#2	4974.	202.7	200.4	200.7	203.6	4656.	197.6	204.5	192.1
#3	4964.	200.0	199.0	198.8	199.4	4793.	194.6	205.3	193.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**193.7**	**196.9**	**203.9**
Stddev	2.9	1.3	1.6
%RSD	1.483	.6423	.7623
#1	191.2	197.2	203.4
#2	196.8	195.5	205.7
#3	193.1	198.0	202.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-CCV1 Acquired: 01/11/2013 11:53:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.82**	**40.912**	**869.41**
Stddev	1.90	.153	6.35
%RSD	.56581	.37341	.73038
#1	337.13	41.079	876.74
#2	333.64	40.779	865.64
#3	336.69	40.878	865.85

Sample Name: S301021-CCB1 Acquired: 01/11/2013 11:59:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4382**	**-8.933**	**2.321**	**.1716**	**.0349**	**.7454**	**9.592**	**-.2149**	**-.2238**
Stddev	.1274	16.04	.715	.2588	.2191	.2271	8.012	.0099	.0629
%RSD	29.07	179.6	30.80	150.8	627.0	30.46	83.53	4.616	28.10
#1	-.5810	7.634	1.514	.0729	-.1338	.8807	4.710	-.2108	-.2820
#2	-.3359	-10.04	2.571	.4652	.2825	.4833	18.84	-.2078	-.2323
#3	-.3979	-24.40	2.876	-.0233	-.0439	.8723	5.227	-.2263	-.1571
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2192**	**-.6626**	**1.273**	**7.474**	**-20.23**	**-88.59**	**11.81**	**-.1608**	**.0768**
Stddev	.0820	.4345	.460	23.98	70.11	89.91	5.94	.0713	.0934
%RSD	37.39	65.57	36.17	320.8	346.5	101.5	50.24	44.35	121.6
#1	-.1572	-.1784	1.631	-6.991	45.77	-103.4	4.960	-.1121	-.0259
#2	-.3121	-.7911	1.434	35.15	-93.82	-170.1	15.25	-.1276	.1567
#3	-.1883	-1.018	.7538	-5.740	-12.64	7.821	15.23	-.2426	.0996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301021-CCB1 Acquired: 01/11/2013 11:59:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.219**	**-.6721**	**-.4607**	**-.1157**	**2.627**	**15.53**	**.0954**	**-.1301**	**-.2518**
Stddev	7.281	.0276	.6039	.2038	.962	71.86	.4373	.1365	.0700
%RSD	139.5	4.114	131.1	176.0	36.63	462.7	458.4	104.9	27.79
#1	5.136	-.7038	-1.157	.0024	2.966	76.75	-.0590	.0090	-.1974
#2	12.54	-.6532	-.0757	.0014	1.541	33.42	-.2438	-.2639	-.3308
#3	-2.020	-.6592	-.1497	-.3510	3.374	-63.59	.5890	-.1354	-.2273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.5387**	**.7408**	**-.3393**
Stddev	.7713	.3068	.0766
%RSD	143.2	41.42	22.58
#1	.1416	1.084	-.4170
#2	-1.377	.4932	-.3370
#3	-.3809	.6452	-.2638
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301021-CCB1 Acquired: 01/11/2013 11:59:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**328.32**	**40.737**	**849.01**
Stddev	.82	.071	10.04
%RSD	.25087	.17395	1.1827
#1	328.72	40.671	858.47
#2	328.87	40.729	850.08
#3	327.37	40.812	838.47

Sample Name: 1301009-05 Acquired: 01/11/2013 12:05:16 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.56**	**54680.**	**12.47**	**11.30**	**526.3**	**1.791**	**13620.**	**-.5677**
Stddev	.51	58.	1.46	.21	1.8	.274	30.	.0602
%RSD	1.294	.1058	11.73	1.850	.3337	15.32	.2188	10.60
#1	39.13	54750.	12.10	11.29	526.4	1.589	13590.	-.6232
#2	40.12	54630.	11.22	11.09	528.0	1.680	13610.	-.5762
#3	39.42	54670.	14.08	11.51	524.5	2.104	13650.	-.5037

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**46.27**	**82.05**	**68.99**	**91310.**	**107600.**	**4379.**	**21450.**	**21630.**
Stddev	.10	.41	.09	717.	189.	34.	80.	72.
%RSD	.2082	.5040	.1298	.7857	.1757	.7784	.3712	.3326
#1	46.33	81.59	69.09	92130.	107500.	4417.	21480.	21660.
#2	46.16	82.14	68.99	91010.	107800.	4368.	21510.	21540.
#3	46.33	82.40	68.91	90790.	107500.	4351.	21360.	21670.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1336.**	**.0439**	**265.9**	**97.59**	**96.70**	**3.068**	**-.9249**	**4787.**
Stddev	2.	.0345	13.8	.11	.60	1.524	1.768	122.
%RSD	.1497	78.55	5.171	.1093	.6228	49.67	191.2	2.543
#1	1336.	.0575	279.4	97.70	96.58	3.598	-.5061	4782.
#2	1334.	.0047	251.9	97.48	96.17	1.350	-2.865	4912.
#3	1338.	.0695	266.3	97.59	97.36	4.256	.5965	4668.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.213**	**91.00**	**770.3**	**-4.664**	**92.74**	**280.0**
Stddev	.447	.23	1.7	.762	.34	.7
%RSD	36.85	.2491	.2150	16.34	.3637	.2352
#1	-1.175	90.75	772.2	-5.424	92.44	279.3
#2	-.7867	91.19	769.6	-3.901	92.68	280.4
#3	-1.678	91.07	769.1	-4.666	93.11	280.4

Sample Name: 1301009-05 Acquired: 01/11/2013 12:05:16 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.92**	**42.754**	**879.00**
Stddev	.57	.121	3.68
%RSD	.16867	.28339	.41905
#1	339.54	42.615	883.23
#2	338.81	42.807	877.27
#3	338.41	42.839	876.50

Sample Name: 1301009-06 Acquired: 01/11/2013 12:11:19 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.14**	**67330.**	**71.41**	**18.87**	**476.4**	**3.413**	**17910.**	**.9521**
Stddev	.29	64.	.41	.62	1.6	.379	94.	.0408
%RSD	.5713	.0954	.5733	3.288	.3321	11.11	.5267	4.290
#1	49.88	67390.	71.73	18.28	477.2	3.749	17990.	.9537
#2	50.10	67330.	71.56	18.81	477.5	3.487	17920.	.9105
#3	50.44	67260.	70.95	19.52	474.6	3.002	17810.	.9921

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**61.26**	**121.5**	**217.3**	**151400.**	**198900.**	**5616.**	**20480.**	**20720.**
Stddev	.70	.7	.7	243.	642.	27.	189.	52.
%RSD	1.149	.5776	.3193	.1603	.3227	.4746	.9225	.2532
#1	60.54	120.9	217.4	151100.	199100.	5633.	20690.	20770.
#2	61.28	121.2	218.0	151600.	199400.	5629.	20450.	20730.
#3	61.95	122.3	216.7	151400.	198200.	5585.	20310.	20670.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2580.**	**3.847**	**728.9**	**113.6**	**5559.**	**8.188**	**-.0607**	**7018.**
Stddev	6.	.200	11.5	.7	47.	.473	.6127	74.
%RSD	.2181	5.203	1.583	.6251	.8372	5.778	1009.	1.053
#1	2575.	3.895	728.8	113.0	5513.	8.643	-.7593	6955.
#2	2579.	3.627	740.4	113.5	5557.	7.699	.3851	6999.
#3	2586.	4.019	717.3	114.4	5606.	8.224	.1921	7099.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26.72**	**226.9**	**966.7**	**-9.019**	**238.8**	**803.6**
Stddev	.57	.7	.5	.383	.1	6.8
%RSD	2.143	.3015	.0483	4.249	.0373	.8500
#1	27.05	226.5	966.6	-9.081	238.9	797.0
#2	27.06	227.6	966.2	-9.367	238.7	803.2
#3	26.06	226.4	967.2	-8.608	238.9	810.6

Sample Name: 1301009-06 Acquired: 01/11/2013 12:11:19 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1301009)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**337.95**	**43.089**	**892.29**
Stddev	2.51	.119	1.75
%RSD	.74258	.27722	.19640
#1	340.57	43.164	894.18
#2	337.69	42.951	891.99
#3	335.57	43.152	890.72

Sample Name: S301021-CCV2 Acquired: 01/11/2013 12:17:36 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**195.1**	**5039.**	**198.7**	**204.0**	**206.7**	**192.8**	**4992.**	**199.7**	**197.4**
Stddev	.4	19.	1.1	.7	.4	1.0	15.	.7	.5
%RSD	.1935	.3722	.5427	.3409	.1841	.5192	.3047	.3359	.2434
#1	194.7	5045.	197.8	203.7	207.0	191.8	4985.	199.5	196.9
#2	195.0	5055.	199.9	204.8	206.8	192.8	5010.	200.5	197.8
#3	195.5	5018.	198.4	203.5	206.3	193.8	4982.	199.2	197.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.2**	**199.4**	**5022.**	**5149.**	**4976.**	**4899.**	**5020.**	**194.9**	**200.3**
Stddev	.2	.2	10.	53.	138.	45.	15.	.2	.2
%RSD	.1122	.1186	.1968	1.029	2.770	.9179	.2912	.1123	.1043
#1	202.2	199.3	5026.	5134.	5135.	4935.	5035.	195.1	200.3
#2	202.4	199.2	5029.	5208.	4907.	4914.	5007.	194.7	200.5
#3	201.9	199.6	5010.	5105.	4886.	4849.	5017.	194.8	200.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-CCV2 Acquired: 01/11/2013 12:17:36 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4977.**	**201.7**	**200.1**	**197.8**	**201.7**	**4837.**	**194.4**	**206.4**	**191.6**
Stddev	17.	.4	1.1	1.0	1.8	146.	.8	.2	.7
%RSD	.3463	.2042	.5554	.5113	.8801	3.020	.4125	.1205	.3895
#1	4973.	201.5	200.5	197.0	201.7	4757.	195.1	206.2	191.8
#2	4962.	202.1	200.9	197.6	203.4	5006.	194.5	206.2	190.7
#3	4996.	201.4	198.8	199.0	199.9	4749.	193.5	206.7	192.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**191.5**	**197.9**	**204.1**
Stddev	1.9	1.0	.4
%RSD	.9689	.4892	.1950
#1	189.5	198.7	203.7
#2	193.1	198.2	204.5
#3	192.0	196.8	204.1
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-CCV2 Acquired: 01/11/2013 12:17:36 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.45**	**40.638**	**869.63**
Stddev	.85	.087	5.87
%RSD	.25315	.21306	.67498
#1	336.40	40.565	876.41
#2	334.77	40.734	866.05
#3	335.18	40.616	866.44

Sample Name: S301021-CCB2 Acquired: 01/11/2013 12:23:42 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4875**	**8.152**	**.5435**	**.1833**	**.3586**	**-.2038**	**19.94**	**-.1974**	**-.2241**
Stddev	.3761	5.740	.5096	.4398	.6959	.2217	8.95	.0238	.1294
%RSD	77.14	70.40	93.77	239.9	194.1	108.8	44.89	12.08	57.76
#1	-.4045	5.233	.4791	.3182	.4197	-.4163	14.51	-.2249	-.3452
#2	-.8982	14.76	.0692	.5398	1.022	-.2211	30.27	-.1825	-.2392
#3	-.1599	4.459	1.082	-.3081	-.3658	.0261	15.03	-.1848	-.0877
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1969**	**-.2433**	**1.335**	**.5749**	**-40.14**	**-6.709**	**18.74**	**-.0937**	**.0862**
Stddev	.0946	.0919	1.048	43.05	27.38	46.80	11.69	.1686	.2053
%RSD	48.01	37.79	78.53	7488.	68.23	697.6	62.41	180.0	238.1
#1	-.3019	-.3452	.9959	24.88	-17.39	8.160	17.86	.0246	.0954
#2	-.1185	-.1667	2.511	25.97	-70.53	-59.14	7.509	-.0190	.2867
#3	-.1705	-.2178	.4983	-49.13	-32.50	30.85	30.85	-.2867	-.1235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S301021-CCB2 Acquired: 01/11/2013 12:23:42 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1716**	**-.7467**	**-.3786**	**.6803**	**1.478**	**-27.41**	**.1561**	**-.1880**	**-.2324**
Stddev	10.04	.1645	.5465	.9169	1.253	81.44	.1547	.0523	.0587
%RSD	5852.	22.03	144.3	134.8	84.75	297.1	99.11	27.85	25.27
#1	-10.67	-.8974	.0217	.7648	2.669	55.66	.0122	-.1872	-.1762
#2	9.157	-.7713	-1.001	-.2759	1.593	-107.1	.1363	-.2407	-.2276
#3	2.030	-.5713	-.1564	1.552	.1719	-30.78	.3197	-.1360	-.2934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.398**	**.4938**	**-.2848**
Stddev	.593	.3420	.0507
%RSD	42.43	69.25	17.80
#1	-1.560	.4325	-.2606
#2	-1.893	.1866	-.3431
#3	-.7406	.8623	-.2507
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S301021-CCB2 Acquired: 01/11/2013 12:23:42 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**327.43**	**40.338**	**850.35**
Stddev	.15	.157	8.21
%RSD	.04458	.38808	.96543
#1	327.26	40.511	859.74
#2	327.50	40.206	844.54
#3	327.53	40.297	846.77

Sample Name: S301021-LCV3 Acquired: 01/11/2013 12:29:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.953**	**99.42**	**9.428**	F **13.03**	**110.4**	**3.464**	**543.9**	**3.454**	**23.14**
Stddev	.238	19.52	.742	.24	.3	.197	45.1	.048	.16
%RSD	4.817	19.63	7.869	1.830	.3021	5.671	8.293	1.388	.6700
#1	5.177	115.7	9.949	12.76	110.2	3.508	590.6	3.457	23.06
#2	4.702	104.8	8.578	13.18	110.8	3.249	540.7	3.500	23.05
#3	4.979	77.78	9.756	13.16	110.3	3.635	500.5	3.404	23.32
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				10.00					
Range				30.00%					

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.587**	**10.02**	**54.64**	**59.45**	**535.0**	**566.9**	**549.1**	**5.368**	**10.51**
Stddev	.024	.39	.48	22.04	84.5	65.1	20.8	.008	.07
%RSD	.4336	3.850	.8848	37.08	15.80	11.48	3.787	.1420	.6947
#1	5.603	10.46	54.08	67.10	576.0	496.3	545.7	5.362	10.53
#2	5.559	9.893	54.94	76.64	591.2	580.0	530.2	5.366	10.57
#3	5.598	9.720	54.90	34.60	437.8	624.5	571.4	5.377	10.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-LCV3 Acquired: 01/11/2013 12:29:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1047.**	**20.09**	**8.476**	**21.94**	**22.93**	**499.4**	**10.14**	**11.45**	**9.570**
Stddev	15.	.15	.059	.11	.96	99.9	.50	.04	.069
%RSD	1.443	.7699	.6929	.4909	4.192	20.00	4.971	.3092	.7191
#1	1034.	20.03	8.419	21.83	22.94	398.7	10.23	11.44	9.649
#2	1042.	19.97	8.472	22.05	23.88	501.0	9.589	11.49	9.526
#3	1063.	20.26	8.536	21.94	21.96	598.4	10.58	11.43	9.535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.46**	**22.20**	**22.51**
Stddev	.69	.86	.12
%RSD	3.732	3.859	.5373
#1	18.20	21.22	22.45
#2	17.95	22.77	22.65
#3	19.25	22.62	22.43
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-LCV3 Acquired: 01/11/2013 12:29:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**329.12**	**40.579**	**857.29**
Stddev	.74	.208	5.48
%RSD	.22510	.51262	.63892
#1	329.03	40.818	862.02
#2	328.43	40.440	851.29
#3	329.90	40.479	858.56

Sample Name: S301021-LCV4 Acquired: 01/11/2013 12:36:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.02**	**231.2**	**19.96**	**25.38**	**221.2**	**5.772**	**1090.**	**7.124**	**46.87**
Stddev	.10	22.2	.89	.22	.8	.366	22.	.026	.15
%RSD	.9626	9.593	4.442	.8703	.3841	6.348	1.998	.3658	.3229
#1	9.925	228.6	20.47	25.39	221.4	5.793	1093.	7.149	46.70
#2	10.12	210.4	18.94	25.59	220.2	5.395	1067.	7.097	46.91
#3	10.01	254.5	20.48	25.15	221.9	6.127	1110.	7.126	47.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.57**	**19.99**	**111.7**	**122.5**	**1032.**	**1087.**	**1104.**	**10.95**	**21.16**
Stddev	.12	.44	.9	13.1	64.	44.	27.	.12	.15
%RSD	1.057	2.208	.7754	10.68	6.178	4.023	2.485	1.124	.7239
#1	11.44	20.34	112.1	128.4	1102.	1037.	1112.	10.81	20.99
#2	11.62	19.49	110.7	107.5	978.3	1115.	1073.	11.02	21.29
#3	11.67	20.14	112.3	131.7	1015.	1110.	1126.	11.03	21.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S301021-LCV4 Acquired: 01/11/2013 12:36:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2123.**	**41.55**	**17.37**	**42.46**	**43.97**	**1078.**	**20.74**	**23.29**	**19.50**
Stddev	14.	.09	.69	1.24	1.69	51.	.22	.30	.05
%RSD	.6598	.2152	3.981	2.912	3.844	4.758	1.076	1.278	.2379
#1	2122.	41.64	18.15	41.07	44.81	1041.	20.49	23.50	19.46
#2	2109.	41.46	16.83	42.90	45.07	1137.	20.81	22.95	19.50
#3	2137.	41.54	17.14	43.42	42.02	1058.	20.92	23.41	19.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**38.17**	**43.81**	**45.14**
Stddev	1.33	1.39	.09
%RSD	3.490	3.177	.2103
#1	37.20	42.26	45.06
#2	37.62	44.95	45.11
#3	39.69	44.23	45.25
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S301021-LCV4 Acquired: 01/11/2013 12:36:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**329.47**	**40.599**	**861.97**
Stddev	.45	.313	4.23
%RSD	.13563	.76986	.49019
#1	329.37	40.541	866.58
#2	329.96	40.936	861.04
#3	329.08	40.319	858.29

Sample Name: S301021-IFA2 Acquired: 01/11/2013 12:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0006**	**317400.**	**1.605**	**-3.991**	**-.0030**	**.1084**	**295500.**	**-.5647**
Stddev	.0570	758.	1.181	.171	.2710	.5537	439.	.1870
%RSD	9024.	.2386	73.58	4.280	9130.	511.0	.1484	33.11
#1	-.0152	318100.	2.629	-4.034	.2810	-.4960	296000.	-.5225
#2	.0622	317500.	1.874	-4.137	-.0311	.2298	295400.	-.7692
#3	-.0489	316600.	.3129	-3.803	-.2588	.5913	295100.	-.4024
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.921**	**1.410**	**-4.432**	**200400.**	**293200.**	**272.6**	**314400.**	**274500.**
Stddev	.095	.097	.093	894.	781.	126.6	311.	708.
%RSD	3.245	6.911	2.088	.4460	.2662	46.43	.0990	.2579
#1	-2.819	1.484	-4.345	200800.	294100.	146.7	314700.	275300.
#2	-2.936	1.299	-4.424	201100.	293000.	399.8	314500.	274000.
#3	-3.007	1.446	-4.529	199400.	292600.	271.1	314100.	274100.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S301021-IFA2 Acquired: 01/11/2013 12:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0011**	**-1.763**	**319000.**	**-8.390**	**.9781**	**4.591**	**.1019**	**-72.78**
Stddev	.0475	.246	698.	.351	.1659	.469	1.721	63.10
%RSD	4212.	13.93	.2187	4.188	16.96	10.21	1689.	86.70
#1	.0559	-2.029	319700.	-8.791	.8490	4.099	-.9662	-140.7
#2	-.0232	-1.545	319100.	-8.135	1.165	4.641	-.8158	-61.67
#3	-.0294	-1.715	318300.	-8.244	.9200	5.032	2.088	-15.97
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.233**	**5.261**	**-3.323**	**-13.69**	**5.880**	**2.758**
Stddev	1.045	.115	.113	.98	.906	.108
%RSD	84.71	2.185	3.411	7.123	15.40	3.926
#1	1.878	5.372	-3.255	-13.79	4.836	2.883
#2	.0279	5.269	-3.260	-14.61	6.348	2.692
#3	1.793	5.142	-3.454	-12.67	6.456	2.699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S301021-IFA2 Acquired: 01/11/2013 12:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**293.92**	**38.787**	**796.50**
Stddev	.63	.026	.97
%RSD	.21601	.06827	.12149
#1	293.67	38.757	795.76
#2	294.64	38.808	797.60
#3	293.45	38.796	796.14

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301009

Printed: 1/10/2013 4:28:16PM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/12/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due:	01/12/2013 00:00 (2 day TAT)	Tracking No:	
Received By:	Zubair Ali	Date Received:	01/10/2013 15:40
Logged In By:	Zubair Ali	Date Logged In:	01/10/2013 15:44

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 6 C

Analysis	Analysis Due Date	Hold Time
1301009-01 S-027-8490-001 [Solid] Sampled 01/10/2013 10:03 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180
1301009-02 S-027-8490-002 [Solid] Sampled 01/10/2013 10:03 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180
1301009-03 S-028-4248-001 [Solid] Sampled 01/10/2013 10:09 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180
1301009-04 S-029-1824-001 [Solid] Sampled 01/10/2013 10:13 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180
1301009-05 S-030-6066-001 [Solid] Sampled 01/10/2013 12:10 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301009

Printed: 1/10/2013 4:28:16PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/12/2013

Analysis	Analysis Due Date	Hold Time
1301009-06 S-031-3642-001 [Solid] Sampled 01/10/2013 12:16 Eastern [1 Container]		
Lead ICP	7/9/2013 12:00:00AM	180

Reviewed By

Date

Page 1 of 1

USEPA Contract No. EP-W-06-072

Hand delivered: 1/10/13

CHAIN OF CUSTODY RECORD

Jewett White Lead

Contact Name: Sasha Mallon

Contact Phone: 732-570-4897

No: 2-011013-090113-0024

Lab: DESA

Lab Contact: John Birri

732-906-6886

1/10/13 SM 2:12

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
	S-027-8490-001	S-027	1/10/2013	Soil	10:03	1	4 oz glass jar	Lead 1301009-01	4 C	Y
	S-027-8490-002	S-027	1/10/2013	Soil	10:03	1	4 oz glass jar	Lead -02	4 C	N
	S-028-4248-001	S-028	1/10/2013	Soil	10:09	1	4 oz glass jar	Lead -03	4 C	N
	S-029-1824-001	S-029	1/10/2013	Soil	10:13	1	4 oz glass jar	Lead -04	4 C	N
	S-030-6066-001	S-030	1/10/2013	Soil	12:10	1	4 oz glass jar	Lead -05	4 C	N
	S-031-3842-001	S-031	1/10/2013	Soil	12:16	1	4 oz glass jar	Lead -06	4 C	N

SM 1/10/13

Q. M. 1/10/13

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	1/10/13								1/10/13	15:40

Temp = 6.1°C w ice SM 1/10/13

REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

PROJECT NO. 1212062 (121204 2) SITE NAME Jewett White lead SAMPLE RECEIPT DATE _____

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
ICP	EPA IRIS-5	51		
	B212098 / S212060			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S212080

Instrument: Thermo Iris Intrepid

Printed: 12/19/2012 11:11:34AM

Project Name	Lab Number	Analysis	STD ID
	S212080-CAL1	QC	D2I2024
	S212080-CAL2	QC	D2I2023
	S212080-CAL3	QC	D2J0304
	S212080-ICV1	QC	D2L1716
	S212080-ICB1	QC	D2I2024
	S212080-LCV1	QC	D2J0906
	S212080-LCV2	QC	D2J0907
	S212080-IFA1	QC	D2J2402
	B212150-BLK1	QC	
	B212150-SRM1	QC	
	B212150-SRM2	QC	
Jewett White Lead - 1212042	1212062-01	Lead ICP	
	B212150-MS1	QC	
	B212150-MSD1	QC	
Jewett White Lead - 1212042	1212062-02	Lead ICP	
Jewett White Lead - 1212042	1212062-03	Lead ICP	
Jewett White Lead - 1212042	1212062-04	Lead ICP	
	S212080-CCV1	QC	D2L1716
	S212080-CCB1	QC	D2I2024
Jewett White Lead - 1212042	1212062-05	Lead ICP	
	S212080-CCV2	QC	D2L1716
	S212080-CCB2	QC	D2I2024
	S212080-LCV3	QC	D2J0906
	S212080-LCV4	QC	D2J0907
	S212080-IFA2	QC	D2I2402

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # ✓ **C-109** ____ **DW-5** **File:** 121912

Project Name	Project Number	Sample Numbers	Scan Type
Jewett white	1212042	1212062-01 TO 1212062-05	Pb

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Tl, V, Zn
SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn
TCLP : Ag, As, Ba, Cd, Cr, Pb, Se **METALS FINISHING:** Ag, Cd, Cr, Cu, Ni, Pb, Zn

Promium Batch #	Promium Sequence #	Method
B212090	S212060	EPA-ICP-P / _____
		EPA-ICP-P / _____

Torch Cleaned Y / (N)	
Pump Tubing Changed Y / (N)	

Comments:

Date of Analysis: 12/19/12 Signature of Analyst(s): [signature]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212150

Prepared by: WR
Prepared on: 12/19/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/94.9

Standards and Reagents

Standard	Description	Expiration Date
D2B2126	HCL, Concentrated	02/13/2017
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1212062-01	NA	29	Yes	0.6236	50					
	1212062-02	NA	29	Yes	0.6399	50					
	1212062-03	NA	29	Yes	0.6334	50					
	1212062-04	NA	29	Yes	0.6354	50					
	1212062-05	NA	29	Yes	0.6301	50					
	B212150-BLK1	NA	29	Yes	5	50					
	B212150-MS1	NA	29	Yes	0.6231	50	D2K2820	40	D2K2822	1000	1212062-01
	B212150-MSD1	NA	29	Yes	0.6231	50	D2K2820	40	D2K2822	1000	1212062-01
	B212150-SRM1	NA	29	Yes	0.5221	50	D2F0423	522.1			
	B212150-SRM2	NA	29	Yes	0.5186	50	D2F0423	518.6			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212150

Prepared by: WR
Prepared on: 12/19/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/94.9

Standards and Reagents

Standard	Description	Expiration Date
D2B2126	HCL, Concentrated	02/13/2017
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID

Comments:

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
	Ag 328.068 {102}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999941	OK.
	Al 396.152 { 85}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999843	OK.
	As 189.042 {177}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999998	OK.
	B 208.959 {161}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999995	OK.
	Ba 455.403 { 74}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999990	OK.
	Be 313.107 {107}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999975	OK.
	Ca 317.933 {105}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999831	OK.
	Cd 214.438 {157}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999996	OK.
	Co 228.616 {147}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999989	OK.
	Cr 205.552 {163}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999995	OK.
	Cu 324.754 {103}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999986	OK.
	Fe 259.940 {129}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999805	OK.
	Fe 259.940 {129}2	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999850	OK.
	K 766.491 { 44}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999963	OK.
	Mg 279.079 {120}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999751	OK.
	Mg 285.213 {117}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999800	OK.
	Mn 257.610 {130}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999895	OK.
	Mo 202.030 {166}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999990	OK.
	Na 589.592 { 57}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999919	OK.
	Ni 231.604 {145}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999995	OK.
	Pb 220.353 {152}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	1.000000	OK.
	Sb 206.833 {162}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999999	OK.
	Se 196.090 {171}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999991	OK.
	Si 251.612 {133}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999698	OK.
	Sn 189.989 {176}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	1.000000	OK.
	Sr 407.771 { 82}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999948	OK.
	Ti 334.941 {100}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999899	OK.
	Tl 190.864 {176}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	1.000000	OK.
	V 292.402 {115}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999999	OK.
	Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 360.073 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 361.105 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Zn 206.200 {163}	12/19/2012 11:43:54	Linear	1/Conc	1.000000	0.999971	OK.

	Blank	Mid Std	High Std	S212080-ICV1	S212080-ICB1	S212080-LCV1	S212080-LCV2	S212080-IFA1	Rinse
	19 Dec 2012 11:25:41	19 Dec 2012 11:31:51	19 Dec 2012 11:37:55	19 Dec 2012 11:43:57	19 Dec 2012 11:50:04	19 Dec 2012 11:56:17	19 Dec 2012 12:02:28	19 Dec 2012 12:08:40	19 Dec 2012 12:14:57
Ag3280	-0.0002	0.0854	0.1671	199.1	0.4555	5.496	10.28	2.284	0.0681
Al3961	-0.0002	0.2822	0.544	4873	-7.675	103.1	202.1	306400	-0.3606
As1890	-0.0004	0.0387	0.0774	196.1	0.1453	7.502	17.13	-4.092	-0.1374
B2089	0.0004	0.1536	0.3048	193.4	0.0094	11.99	22.79	-2.997	-0.5406
Ba4554	0.0038	1.888	3.738	192.4	-0.2649	101.4	197.3	0.1197	0.1568
Be3131	0.0004	1.133	2.231	193.5	-0.2658	2.671	6.084	0.3476	-0.132
Ca3179	0.0039	0.2201	0.4199	4856	3.193	520.1	988.2	287700	8.784
Cd2144	0.0001	0.8515	1.693	196.3	0.0427	3.58	6.973	-1.116	0.0346
Co2286	-0.0002	0.5226	1.035	194.8	-0.0167	22.86	45.02	-4.212	-0.0231
Cr2055	-0.0009	0.4023	0.8	196.3	0.0935	5.599	11.11	1.852	0.2498
Cu3247	0.0025	0.1264	0.2461	196.4	-1.099	8.58	17.07	-5.701	-2.381
Fe2599A	-0.0004	0.3156	0.6059	4937	-0.2384	54.07	103.9	203000	8.63
Fe2599R	0.0005	0.1684	0.3243	4932	-24.03	44.97	107.6	278500	-15.29
K7664	0.0137	0.3645	0.7028	4822	-23.45	524.3	996.7	376.1	25.05
Mg2790	-0.0011	0.0355	0.0687	4976	95.58	F 708.0	1145	306700	181.5
Mg2852	0.0001	0.3082	0.591	4868	-6.932	523.2	1004	262000	3.974
Mn2576	0.0001	0.182	0.353	198	0.0756	5.493	10.83	-2.312	-0.1346
Mo2020	0.0008	0.2717	0.5376	196	0.0467	10.02	19.95	-2.626	-0.3263
Na5895	0.0296	1.704	3.289	4851	-0.6486	1027	1974	308700	57.21
Ni2316	-0.0008	0.2915	0.5801	195.3	0.1798	20.25	39.84	-8.176	-0.0278
Pb2203	-0.0002	0.0508	0.1017	194.8	-0.1471	7.723	16.31	0.604	0.054
Sb2068	0.0001	0.0497	0.0991	192.7	-0.1205	20.88	41.07	0.7628	-0.0877
Se1960	0.0006	0.0416	0.0819	196.1	-0.2285	20.17	39.67	-2.758	-0.5474
Si2516	-0.0002	0.0344	0.0656	5004	66.57	574.9	1017	-255.6	120.2
Sn1899	0.0002	0.0511	0.1018	193	0.209	10.5	20	1.673	-0.0507
Sr4077	0.0002	4.666	9.133	195.1	0.0231	11.03	21.32	-2.69	0.0436
Ti3349	0.0005	0.4269	0.8281	199.6	0.0348	10.41	19.92	-3.759	-0.0843
Tl1908	-0.0007	0.0347	0.0702	192.9	-0.4259	19.46	38.67	-4.867	1.259
V2924	-0.0003	0.0287	0.0575	194.5	0.22	22	42.44	-3.033	0.2321
Zn2062	0.0005	0.5536	1.089	197.7	-0.1494	23.39	42.46	2.937	4.573
Y2243A	255.82	264.74	264.39	271.52	264.31	273.78	281.99	250.6	280.06
Y3600R	34.73	35.334	36.478	36.27	35.846	37.663	38.147	36.5	37.652
Y3611A	687.2	706.72	717.32	725.72	713.27	744.97	755.14	692.93	749.8

	B212150-BLK1	B212150-SRM1	B212150-SRM2	1212062-01	B212150-MS1	B212150-MSD1	1212062-02	1212062-03	1212062-04	S212080-CCV1	S212080-CCB1
	19 Dec 2012 12:21:06	19 Dec 2012 12:27:13	19 Dec 2012 12:33:13	19 Dec 2012 12:39:26	19 Dec 2012 12:45:42	19 Dec 2012 12:51:56	19 Dec 2012 12:58:00	19 Dec 2012 13:04:15	19 Dec 2012 13:10:31	19 Dec 2012 13:16:48	19 Dec 2012 13:22:53
Ag3280	0.148	38.58	39.11	6.524	188.1	191.1	6.165	6.152	7.011	187	0.4688
Al3961	1.77	5289	5412	52040	78620	80920	55540	61150	89960	4613	-18.03
As1890	-0.0847	156.2	155.2	54.98	233.1	238.4	57.25	75.42	76	184.3	-0.4642
B2089	-0.1873	77.27	76.53	11.99	194.9	195.7	12.01	12.19	22.61	180.4	-0.2581
Ba4554	0.2109	F 177.0	F 173.6	327.4	571.5	583.2	331.4	189.2	377.4	183.2	-0.0579
Be3131	-0.213	99.21	96.55	1.262	175.8	180.1	1.068	1.461	2.412	180.7	-0.4144
Ca3179	53.33	6091	5915	14240	20710	21500	12670	9797	14370	4623	0.4008
Cd2144	0.0993	90.32	90.45	0.6003	173.8	178.5	0.7384	-0.9328	-0.5847	185.5	0.0206
Co2286	-0.0244	117.9	116.6	57.3	238.4	244.3	63.22	44.55	72.96	183.6	0.0139
Cr2055	0.1616	104.9	103.7	95.06	285	293.9	102.5	101.9	148.8	184.7	0.2459
Cu3247	-1.569	108.6	110	138.4	367.8	350.2	142	63.9	113.7	182.4	-2.775
Fe2599A	5.386	8258	8737	117000	131500	169300	121300	140800	162700	4676	2.175
Fe2599R	-7.332	9329	9607	138600	161000	171800	146900	174900	216000	4617	-32.22
K7664	60.42	2392	2355	4399	11250	11330	4637	4561	6614	4599	-2.212
Mg2790	222.6	F 2092.	F 2053.	19820	28600	30020	27890	19990	19000	4635	136.2
Mg2852	-5.833	2121	F 2087.	19900	28820	29900	27810	20160	19360	4601	3.926
Mn2576	-0.002	292.8	291.1	1818	2246	2367	1817	1487	3518	188	-0.1069
Mo2020	-0.5482	61.96	61.07	1.973	176.4	175.9	1.588	2.526	4.366	183.4	-0.2887
Na5895	118.9	310	294.6	396	4960	4881	345.6	232.3	820.4	4591	-5.518
Ni2316	0.5632	62.72	62.77	103.1	294.5	299.2	306.3	90.37	88.28	183.5	0.2461
Pb2203	0.5787	69.01	67.27	982.7	1414	1437	855.3	114.4	869.7	184.7	0.1807
Sb2068	-0.3054	198.3	196.9	6.868	178.5	179.7	6.523	4.539	5.375	180.9	0.6077
Se1960	-1.501	116.3	115	-2.579	165.8	168.5	-1.788	-3.921	-4.041	183.4	-1.353
Si2516	46.55	1157	1186	10530	21470	24170	12520	11590	9213	W 4491.	-66.47
Sn1899	0.2342	133.2	131.3	7.73	188.1	192.9	8.932	0.2795	6.051	182.4	-0.2109
Sr4077	0.3579	113.7	113.1	78.38	276.6	279.9	79.4	91.65	143	185.6	-0.0511
Ti3349	0.2376	125.7	134.8	1035	1361	1469	1036	999.6	1456	188	-0.0246
Tl1908	0.2959	184.9	182.5	0.1902	174.5	178.9	-1.85	-4.187	-2.112	182.8	1.127
V2924	0.1163	75.03	76.15	155.2	361.7	370.7	159.3	236	270.1	183.4	-0.1819
Zn2062	3.283	240.5	238.1	919.7	1228	1303	954.7	306	402.3	187.4	-0.1708
Y2243A	279.1	283.69	285.77	291.4	289.36	291.08	290.21	290.34	292.82	290.56	285.53
Y3600R	37.862	39.865	40.842	39.958	39.569	38.185	39.737	39.446	39.834	37.578	37.85
Y3611A	751.98	769.6	777.31	788.39	780.96	772.69	792.49	780.47	794.19	772.68	764.01

	1212062-05	S212080-CCV2	S212080-CCB2	S212080-LCV3	S212080-LCV4	S212080-IFA2
	19 Dec 2012 13:29:02	19 Dec 2012 13:35:19	19 Dec 2012 13:41:25	19 Dec 2012 13:47:37	19 Dec 2012 13:53:49	19 Dec 2012 14:00:01
Ag3280	16.88	185.2	-0.0617	5.257	9.898	2.868
Al3961	62130	4538	-11.22	115.3	199.9	302700
As1890	81.74	183	-0.5842	7.921	15.99	-3.051
B2089	83.25	W 178.9	-0.1649	11.5	22.17	-3.279
Ba4554	1380	W 179.1	-0.0602	97.58	191.5	0.1316
Be3131	0.3274	W 177.6	-0.2424	2.831	5.599	0.0486
Ca3179	220000	4567	6.843	487.9	966.9	285800
Cd2144	6.765	184.4	0.0175	3.474	6.825	-0.6827
Co2286	67.92	182.1	-0.0954	21.97	43.61	-4.065
Cr2055	196.6	183.7	0.179	5.708	10.98	1.993
Cu3247	1646	W 179.4	-3.385	F 6.548	15.94	-6.566
Fe2599A	140400	4612	1.655	53.8	101.2	196900
Fe2599R	175000	4526	-27.54	F 30.98	100.5	269700
K7664	7146	4536	28.43	505.1	982.3	475.7
Mg2790	100600	4552	209.9	F 692.3	1176	297500
Mg2852	99850	4506	-12.41	513.5	987.1	257000
Mn2576	3392	185.8	-0.1489	5.432	10.55	-2.091
Mo2020	8.241	181.7	-0.3	9.643	19.16	-2.513
Na5895	1479	4534	3.539	1009	1932	306300
Ni2316	223.7	182	0.1886	19.8	38.54	-7.391
Pb2203	14720	183.2	-0.2797	8.904	15.65	-0.3264
Sb2068	24.22	W 179.3	0.1208	19.84	39.94	1.803
Se1960	0.3237	182.9	0.1338	20.56	37.93	-2.953
Si2516	10590	W 4459.	86.56	502.7	1059	-144.7
Sn1899	170.8	180.5	0.2285	9.98	19.77	1.644
Sr4077	500	182.6	0.009	10.62	20.88	-3.762
Ti3349	2208	185.5	0.0596	9.961	19.4	-3.589
Tl1908	-0.5004	180.8	0.9069	19.46	37.3	-3.759
V2924	264.3	180.4	0.5508	20.24	39.98	-1.522
Zn2062	4468	186.1	-0.1451	22.34	41.41	4.463
Y2243A	282.08	293.55	287.37	289.77	291.21	261.48
Y3600R	39.455	38.12	37.7	38.49	38.642	36.882
Y3611A	775.88	781.94	768.15	778.86	781.04	720.93

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD	
		Lower	Upper	B212150-SRM1	B212150-SRM2				
				19 Dec 2012 12:27:13	19 Dec 2012 12:33:13				
Silver	42.3	28.1	56.6	38.6	39.1	38.8	91.8%	1.36%	
Aluminum	9310	4470	14200	5289	5412	5351	57.5%	2.30%	
Arsenic	168	140	197	156.2	155.2	155.7	92.7%	0.64%	
Boron	85	66	104	77.3	76.5	76.9	90.4%	0.96%	
Barium	213	177	249	177.0	173.6	175.3	82.3%	1.94%	L
Beryllium	110.0	92.6	128	99.2	96.6	97.9	89.0%	2.72%	
Calcium	6870	5700	8040	6091.0	5915.0	6003.0	87.4%	2.93%	
Cadmium	103	86	119	90.3	90.5	90.4	87.8%	0.14%	
Cobalt	131.0	109.0	153	117.9	116.6	117.3	89.5%	1.11%	
Chromium	119.0	97.1	140	104.9	103.7	104.3	87.6%	1.15%	
Copper	118.0	96.3	139	108.6	110.0	109.3	92.6%	1.28%	
Iron 2599 A	13000	6560	19400	8258.0	8737.0	8497.5	65.4%	5.64%	
Iron 2599 R	13000	6560	19400	9329.0	9607.0	9468.0	72.8%	2.94%	
Potassium	3130	2270	3980	2392.0	2355.0	2373.5	75.8%	1.56%	
Magnesium 2790	2780	2110	3450	2092.0	2053.0	2072.5	74.6%	1.88%	L
Magnesium 2852	2780	2110	3450	2121.0	2087.0	2104.0	75.7%	1.62%	L
Manganese	338	279	397	292.8	291.1	292.0	86.4%	0.58%	
Molybdenum	61.5	41.6	84.8	62.0	61.1	61.5	100.0%	1.45%	
Sodium	350	258	441	310.0	294.6	302.3	86.4%	5.09%	
Nickel	70.0	57.2	82.7	62.7	62.8	62.7	89.6%	0.08%	
Lead	76.9	62.5	91.3	69.0	67.3	68.1	88.6%	2.55%	
Antimony	120	20	263	198.3	196.9	197.6	164.7%	0.71%	
Selenium	126	101	152	116.3	115.0	115.7	91.8%	1.12%	
Silicon	not evaluated			1157.0	1186.0	1171.5	#VALUE!	2.48%	
Tin	142	112	172	133.2	131.3	132.3	93.1%	1.44%	
Strontium	133	108	158	113.7	113.1	113.4	85.3%	0.53%	
Titanium	219	38	401	125.7	134.8	130.3	59.5%	6.99%	
Thallium	208	169	247	184.9	182.5	183.7	88.3%	1.31%	
Vanadium	87.1	67.6	107	75.0	76.2	75.6	86.8%	1.48%	
Zinc	276	227	325	240.5	238.1	239.3	86.7%	1.00%	

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1212062		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			12/19/2012	Time:	9:22 AM	
	Date removed from oven at 103-105degC:			12/20/2012	Time:	9:04 AM	
	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1212062-01	0.9152	8.1052	7.9683	98.10%	1.90%	
1D	1212062-01	0.9123	8.3170	8.1756	98.09%	1.91%	
2	1212062-02	0.9127	8.1315	8.0045	98.24%	1.76%	
3	1212062-03	0.9123	8.1735	8.1030	99.03%	0.97%	
4	1212062-04	0.9130	8.2307	7.9696	96.43%	3.57%	
5	1212062-05	0.9102	8.6595	8.5917	99.13%	0.87%	
6					#DIV/0!	#DIV/0!	
7					#DIV/0!	#DIV/0!	
8					#DIV/0!	#DIV/0!	
9					#DIV/0!	#DIV/0!	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
						RPD<20%	RPD<20%
				98.09%	1.91%	0.01%	0.29%
	*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
	PERCENT = SOLIDS	(C - A) / (B - A)	(*100)	PERCENT = MOISTURE	(B - C) / (B - A)	(*100)	

Analyst: Phillip Bartel

Date: 12/20/12

Checked by: M

Date Checked: 12-20-12

Manual Calculation

Sample # 1212062-01

Analyte Pb

$$\text{result Mg/Kg} = \frac{\text{instrument result X dilution factor X Volume in L}}{\text{weight of sample X (\% solids/100)}}$$

$$\text{result Mg/Kg} = \frac{982.7 \times 1 \times 0.05}{0.6236 \times (98.10 / 100)}$$

$$\text{result Mg/Kg} = \frac{49.135}{0.6118}$$

result Mg/Kg = 80.312

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S212080

Jewett White Lead - 1212042
1212062

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	WR	12/20/2012
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	WR	12/20/2012
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	WR	12/20/2012
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	WR	12/20/2012
ICB < Reporting Limit?	YES	WR	12/20/2012
RL Low Level recovery ±30%?	YES	WR	12/20/2012
2RL Low Level Recovery ±30%?	YES	WR	12/20/2012
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	WR	12/20/2012
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	WR	12/20/2012
CCBs < Reporting Limit?	YES	WR	12/20/2012
Sample result data		Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S212080

Jewett White Lead - 1212042
1212062

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

IOS < Reporting Limit for all elements?	YES		WR	12/20/2012
Performance check			Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES		WR	12/20/2012
Blank data			Analyst Initials	Date
Prep Blank < Reporting Limit?	YES	*	WR	12/20/2012
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		WR	12/20/2012
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	WR	12/20/2012
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	WR	12/20/2012
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	NO	*	WR	12/20/2012
Matrix Spike Recovery for Lead (216%) was outside acceptance limits (75-125) in B212150-MS1 for Lead ICP. Sample concentration > 1X the spike level.				
If no, is analyte concentration > 1.0 X the spike concentration?	YES		WR	12/20/2012
RPD between the MS & Serial Dilution < 10%?	YES	*	WR	12/20/2012
Sample result data			Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE S212080

Jewett White Lead - 1212042
1212062

Analysis	Matrix	Method
Lead ICP	Solid	PA 200.7 / SOP C-109 Rev3

% RSD for all sample results > Reporting Limit within 20%?	YES		WR	12/20/2012
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	WR	12/20/2012
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	YES		WR	12/20/2012
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		WR	12/20/2012
Instrument Analysis Log Book entries completed?	YES		WR	12/20/2012
Percent Solids Log Book info entries completed?	YES		WR	12/20/2012
pH Log Book Log Book info entries completed?	NA		WR	12/20/2012
Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	WR	12/20/2012
Peer reviewed? Date and person responsible.	NO	*	WR	12/20/2012

* = Automated Response from Promium

Sample Name: Blank Acquired: 12/19/2012 11:25:41 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0002**	**-.0002**	**-.0004**	**.0004**	**.0038**	**.0004**	**.0039**	**.0001**	**-.0002**
Stddev	.0001	.0014	.0001	.0001	.0006	.0003	.0009	.0000	.0001
%RSD	56.30	750.5	19.62	15.43	16.01	80.29	22.88	28.55	54.38
#1	-.0001	-.0017	-.0003	.0005	.0044	.0001	.0043	.0001	-.0002
#2	-.0003	.0012	-.0005	.0003	.0040	.0007	.0029	.0001	-.0004
#3	-.0002	-.0001	-.0004	.0004	.0032	.0004	.0045	.0001	-.0001

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0009**	**.0025**	**-.0004**	**.0005**	**.0137**	**-.0011**	**.0001**	**.0001**	**.0008**
Stddev	.0001	.0002	.0000	.0007	.0010	.0006	.0010	.0000	.0000
%RSD	5.647	7.497	6.049	132.4	7.540	53.58	1947.	28.07	5.584
#1	-.0010	.0025	-.0004	.0012	.0149	-.0006	-.0011	.0001	.0008
#2	-.0009	.0027	-.0004	.0005	.0131	-.0009	.0008	.0001	.0008
#3	-.0009	.0023	-.0004	-.0002	.0130	-.0018	.0005	.0001	.0007

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0296**	**-.0008**	**-.0002**	**.0001**	**.0006**	**-.0002**	**.0002**	**.0002**	**.0005**
Stddev	.0042	.0001	.0000	.0001	.0001	.0002	.0000	.0006	.0000
%RSD	14.31	10.07	21.22	176.3	20.04	88.12	23.09	262.9	4.381
#1	.0248	-.0008	-.0002	.0001	.0005	-.0003	.0002	.0005	.0005
#2	.0312	-.0009	-.0002	-.0001	.0005	.0000	.0002	.0007	.0005
#3	.0328	-.0008	-.0001	.0001	.0007	-.0004	.0001	-.0005	.0005

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.0007**	**-.0003**	**.0005**
Stddev	.0001	.0000	.0000
%RSD	11.67	4.402	6.817
#1	-.0007	-.0003	.0006
#2	-.0007	-.0003	.0005
#3	-.0006	-.0003	.0005

Sample Name: Blank Acquired: 12/19/2012 11:25:41 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**255.82**	**34.730**	**687.20**
Stddev	.20	.112	4.86
%RSD	.07753	.32380	.70699
#1	255.73	34.676	692.81
#2	256.04	34.655	684.38
#3	255.67	34.859	684.41

Sample Name: Mid Std Acquired: 12/19/2012 11:31:51 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0854**	**.2822**	**.0387**	**.1536**	**1.888**	**1.133**	**.2201**	**.8515**	**.5226**
Stddev	.0014	.0019	.0002	.0011	.019	.010	.0017	.0063	.0036
%RSD	1.647	.6698	.6442	.7081	.9949	.8842	.7611	.7456	.6808
#1	.0869	.2822	.0386	.1540	1.901	1.136	.2206	.8539	.5242
#2	.0852	.2841	.0389	.1545	1.897	1.141	.2215	.8562	.5250
#3	.0841	.2804	.0384	.1524	1.867	1.122	.2182	.8443	.5185

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4023**	**.1264**	**.3156**	**.1684**	**.3645**	**.0355**	**.3082**	**.1820**	**.2717**
Stddev	.0020	.0018	.0056	.0021	.0045	.0012	.0039	.0015	.0016
%RSD	.4860	1.400	1.764	1.252	1.243	3.263	1.265	.8453	.6032
#1	.4030	.1283	.3212	.1708	.3670	.0367	.3091	.1836	.2720
#2	.4038	.1260	.3155	.1677	.3673	.0352	.3116	.1820	.2732
#3	.4000	.1248	.3101	.1668	.3593	.0345	.3039	.1805	.2700

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.704**	**.2915**	**.0508**	**.0497**	**.0416**	**.0344**	**.0511**	**4.666**	**.4269**
Stddev	.009	.0019	.0004	.0002	.0003	.0005	.0004	.044	.0054
%RSD	.5479	.6397	.8397	.3489	.6914	1.393	.6885	.9376	1.270
#1	1.706	.2928	.0509	.0496	.0416	.0347	.0511	4.684	.4324
#2	1.712	.2925	.0511	.0499	.0419	.0339	.0514	4.698	.4265
#3	1.694	.2894	.0503	.0496	.0413	.0347	.0507	4.616	.4216

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0347**	**.0287**	**.5536**
Stddev	.0002	.0004	.0035
%RSD	.5227	1.548	.6326
#1	.0347	.0292	.5551
#2	.0349	.0287	.5561
#3	.0345	.0283	.5496

Sample Name: Mid Std Acquired: 12/19/2012 11:31:51 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**264.74**	**35.334**	**706.72**
Stddev	1.34	.249	3.72
%RSD	.50707	.70565	.52572
#1	264.95	35.295	705.28
#2	263.31	35.106	703.94
#3	265.97	35.600	710.94

Sample Name: High Std Acquired: 12/19/2012 11:37:55 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1671**	**.5440**	**.0774**	**.3048**	**3.738**	**2.231**	**.4199**	**1.693**	**1.035**
Stddev	.0011	.0023	.0010	.0044	.016	.011	.0017	.021	.013
%RSD	.6334	.4242	1.232	1.431	.4214	.5094	.4167	1.241	1.249
#1	.1674	.5434	.0778	.3066	3.731	2.224	.4180	1.697	1.040
#2	.1680	.5465	.0781	.3079	3.756	2.244	.4215	1.711	1.045
#3	.1659	.5420	.0763	.2998	3.727	2.225	.4203	1.670	1.021

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.8000**	**.2461**	**.6059**	**.3243**	**.7028**	**.0687**	**.5910**	**.3530**	**.5376**
Stddev	.0102	.0012	.0028	.0018	.0036	.0015	.0019	.0012	.0063
%RSD	1.277	.4815	.4633	.5495	.5135	2.200	.3178	.3540	1.165
#1	.8026	.2457	.6064	.3224	.6991	.0698	.5890	.3526	.5393
#2	.8087	.2475	.6083	.3247	.7063	.0692	.5928	.3544	.5428
#3	.7887	.2452	.6028	.3259	.7031	.0670	.5911	.3520	.5306

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.289**	**.5801**	**.1017**	**.0991**	**.0819**	**.0656**	**.1018**	**9.133**	**.8281**
Stddev	.012	.0074	.0014	.0016	.0010	.0004	.0011	.031	.0031
%RSD	.3698	1.282	1.417	1.568	1.264	.6299	1.044	.3358	.3733
#1	3.289	.5830	.1019	.0999	.0820	.0660	.1021	9.124	.8281
#2	3.301	.5856	.1030	.1001	.0828	.0655	.1027	9.168	.8312
#3	3.277	.5716	.1002	.0973	.0808	.0652	.1006	9.109	.8250

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0702**	**.0575**	**1.089**
Stddev	.0008	.0001	.014
%RSD	1.128	.2409	1.265
#1	.0703	.0575	1.093
#2	.0709	.0577	1.101
#3	.0693	.0574	1.074

Sample Name: High Std Acquired: 12/19/2012 11:37:55 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**264.39**	**36.478**	**717.32**
Stddev	2.82	.076	4.86
%RSD	1.0669	.20913	.67774
#1	263.12	36.482	722.00
#2	262.42	36.400	712.30
#3	267.62	36.553	717.66

Sample Name: S212080-ICV1 Acquired: 12/19/2012 11:43:57 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.1**	**4873.**	**196.1**	**193.4**	**192.4**	**193.5**	**4856.**	**196.3**	**194.8**
Stddev	2.1	18.	2.2	2.1	.9	.6	5.	1.7	1.1
%RSD	1.039	.3651	1.116	1.102	.4678	.3300	.0929	.8636	.5517
#1	201.5	4894.	198.5	195.9	193.1	193.9	4861.	198.2	196.0
#2	197.7	4866.	194.2	192.4	192.7	192.8	4852.	195.5	194.4
#3	198.2	4861.	195.6	192.0	191.4	193.8	4855.	195.1	194.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**196.3**	**196.4**	**4937.**	**4932.**	**4822.**	**4976.**	**4868.**	**198.0**	**196.0**
Stddev	1.9	1.7	46.	21.	22.	314.	11.	.9	1.7
%RSD	.9489	.8486	.9406	.4208	.4626	6.319	.2348	.4746	.8475
#1	198.4	198.3	4990.	4956.	4840.	5319.	4873.	198.9	197.8
#2	195.0	195.5	4906.	4921.	4797.	4905.	4877.	197.0	194.6
#3	195.5	195.3	4914.	4920.	4829.	4702.	4855.	198.1	195.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212080-ICV1 Acquired: 12/19/2012 11:43:57 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4851.**	**195.3**	**194.8**	**192.7**	**196.1**	**5004.**	**193.0**	**195.1**	**199.6**
Stddev	20.	1.9	2.4	1.5	2.6	14.	2.1	.5	1.5
%RSD	.4134	.9731	1.219	.7698	1.324	.2713	1.066	.2757	.7594
#1	4869.	197.5	197.3	194.4	198.3	4997.	195.4	195.7	201.3
#2	4853.	194.0	194.4	192.0	196.9	4995.	191.5	194.9	198.5
#3	4829.	194.4	192.6	191.8	193.2	5020.	192.3	194.7	198.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**192.9**	**194.5**	**197.7**
Stddev	1.1	1.2	1.8
%RSD	.5687	.6342	.8986
#1	194.0	196.0	199.8
#2	191.8	193.7	196.8
#3	192.8	193.9	196.6
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212080-ICV1 Acquired: 12/19/2012 11:43:57 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**271.52**	**36.270**	**725.72**
Stddev	1.17	.075	1.12
%RSD	.43276	.20711	.15392
#1	270.28	36.184	726.32
#2	272.62	36.317	726.40
#3	271.65	36.311	724.43

Sample Name: S212080-ICB1 Acquired: 12/19/2012 11:50:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4555**	**-7.675**	**.1453**	**.0094**	**-.2649**	**-.2658**	**3.193**	**.0427**	**-.0167**
Stddev	.5207	13.69	.4753	.2552	.2014	.6740	9.902	.0065	.0633
%RSD	114.3	178.4	327.2	2702.	76.02	253.6	310.1	15.27	379.5
#1	.4410	-8.852	.5977	.2150	-.2433	-.7893	1.995	.0469	.0066
#2	-.0578	6.564	.1882	.0896	-.0752	.4947	13.64	.0352	-.0883
#3	.9834	-20.74	-.3501	-.2763	-.4763	-.5028	-6.056	.0460	.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0935**	**-1.099**	**-.2384**	**-24.03**	**-23.45**	**95.58**	**-6.932**	**.0756**	**.0467**
Stddev	.0860	.537	.3062	21.29	35.61	31.40	10.66	.0106	.2950
%RSD	92.08	48.83	128.4	88.57	151.9	32.85	153.8	14.03	632.0
#1	.1201	-1.650	-.5422	-15.62	6.335	77.92	-18.88	.0877	.3318
#2	.1630	-1.069	-.2432	-48.24	-13.79	131.8	1.628	.0710	.0655
#3	-.0028	-.5779	.0701	-8.242	-62.89	76.99	-3.545	.0680	-.2573
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212080-ICB1 Acquired: 12/19/2012 11:50:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6486**	**.1798**	**-.1471**	**-.1205**	**-.2285**	**66.57**	**.2090**	**.0231**	**.0348**
Stddev	3.495	.0812	.7048	.6404	2.682	69.99	.7302	.1072	.0250
%RSD	538.8	45.15	479.1	531.4	1174.	105.1	349.3	463.5	71.94
#1	-.8728	.0887	-.8492	.5978	.9969	58.62	-.5995	-.0218	.0229
#2	2.953	.2446	-.1524	-.6318	-3.305	.8862	.8204	.1455	.0179
#3	-4.026	.2060	.5603	-.3276	1.622	140.2	.4061	-.0543	.0635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.4259**	**.2200**	**-.1494**
Stddev	.4733	.7562	.0968
%RSD	111.1	343.7	64.80
#1	-.6862	1.092	-.0746
#2	-.7120	-.1702	-.2588
#3	.1204	-.2614	-.1149
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212080-ICB1 Acquired: 12/19/2012 11:50:04 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**264.31**	**35.846**	**713.27**
Stddev	1.24	.241	4.33
%RSD	.46818	.67214	.60671
#1	263.71	36.123	716.82
#2	263.50	35.730	708.45
#3	265.74	35.685	714.55

Sample Name: S212080-LCV1 Acquired: 12/19/2012 11:56:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.496**	**103.1**	**7.502**	**11.99**	**101.4**	**2.671**	**520.1**	**3.580**	**22.86**
Stddev	.515	.7	1.319	.35	.3	.077	10.0	.043	.21
%RSD	9.371	.7165	17.58	2.927	.2613	2.867	1.930	1.216	.9240
#1	6.042	102.3	5.981	12.37	101.6	2.690	523.7	3.600	22.74
#2	5.427	103.6	8.204	11.91	101.1	2.587	508.7	3.611	23.11
#3	5.019	103.5	8.322	11.68	101.5	2.737	527.8	3.530	22.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.599**	**8.580**	**54.07**	**44.97**	**524.3**	F **708.0**	**523.2**	**5.493**	**10.02**
Stddev	.050	.261	.87	30.57	13.5	91.3	4.1	.100	.16
%RSD	.8869	3.038	1.610	67.97	2.568	12.89	.7830	1.812	1.584
#1	5.572	8.412	54.23	47.20	530.4	683.0	519.2	5.411	10.02
#2	5.657	8.880	54.85	74.36	508.9	809.2	523.0	5.604	10.17
#3	5.570	8.448	53.13	13.35	533.6	631.8	527.4	5.464	9.856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value						500.0			
Range						30.00%			

Sample Name: S212080-LCV1 Acquired: 12/19/2012 11:56:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1027.**	**20.25**	**7.723**	**20.88**	**20.17**	**574.9**	**10.50**	**11.03**	**10.41**
Stddev	6.	.29	.808	1.89	.72	54.8	.38	.06	.06
%RSD	.5692	1.455	10.46	9.034	3.595	9.534	3.594	.5451	.6186
#1	1033.	20.01	6.793	18.78	20.87	574.2	10.07	10.99	10.39
#2	1027.	20.58	8.125	22.42	20.20	520.5	10.79	11.10	10.36
#3	1021.	20.15	8.250	21.46	19.43	630.1	10.65	11.00	10.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**19.46**	**22.00**	**23.39**
Stddev	.13	.94	.09
%RSD	.6658	4.290	.3933
#1	19.49	22.66	23.33
#2	19.57	22.42	23.50
#3	19.32	20.92	23.35
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212080-LCV1 Acquired: 12/19/2012 11:56:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**273.78**	**37.663**	**744.97**
Stddev	.85	.052	3.33
%RSD	.30953	.13842	.44659
#1	274.47	37.716	747.96
#2	272.83	37.612	741.39
#3	274.04	37.662	745.57

Sample Name: S212080-LCV2 Acquired: 12/19/2012 12:02:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.28**	**202.1**	**17.13**	**22.79**	**197.3**	**6.084**	**988.2**	**6.973**	**45.02**
Stddev	.40	15.3	.33	.10	2.0	.389	23.9	.039	.11
%RSD	3.883	7.565	1.938	.4346	.9882	6.385	2.422	.5636	.2470
#1	9.823	201.2	17.45	22.77	196.6	6.478	960.5	7.012	45.12
#2	10.56	217.8	16.79	22.70	195.8	6.071	1002.	6.973	45.04
#3	10.45	187.3	17.14	22.89	199.5	5.702	1002.	6.933	44.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.11**	**17.07**	**103.9**	**107.6**	**996.7**	**1145.**	**1004.**	**10.83**	**19.95**
Stddev	.05	.68	.2	23.7	20.3	80.	19.	.11	.27
%RSD	.4887	3.971	.2121	22.04	2.037	6.974	1.858	1.023	1.359
#1	11.07	17.83	103.7	132.7	979.2	1237.	982.6	10.86	20.17
#2	11.09	16.81	103.9	85.57	992.0	1094.	1012.	10.70	19.65
#3	11.18	16.56	104.1	104.5	1019.	1104.	1017.	10.92	20.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212080-LCV2 Acquired: 12/19/2012 12:02:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1974.**	**39.84**	**16.31**	**41.07**	**39.67**	**1017.**	**20.00**	**21.32**	**19.92**
Stddev	17.	.06	1.04	.27	2.29	185.	.22	.44	.13
%RSD	.8746	.1511	6.377	.6512	5.781	18.15	1.111	2.068	.6460
#1	1969.	39.77	15.35	40.89	42.31	825.9	19.90	21.04	20.04
#2	1961.	39.89	16.17	41.38	38.32	1194.	20.26	21.08	19.93
#3	1994.	39.87	17.42	40.96	38.37	1031.	19.85	21.83	19.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**38.67**	**42.44**	**42.46**
Stddev	1.38	.38	.05
%RSD	3.580	.8898	.1192
#1	39.83	42.26	42.43
#2	37.14	42.87	42.52
#3	39.04	42.18	42.43
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212080-LCV2 Acquired: 12/19/2012 12:02:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**281.99**	**38.147**	**755.14**
Stddev	.66	.226	3.43
%RSD	.23324	.59257	.45410
#1	281.35	38.291	758.93
#2	281.95	38.263	754.24
#3	282.66	37.886	752.25

Sample Name: S212080-IFA1 Acquired: 12/19/2012 12:08:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.284**	**306400.**	**-4.092**	**-2.997**	**.1197**	**.3476**	**287700.**	**-1.116**
Stddev	.747	11170.	.602	.678	.5584	.1492	10470.	.149
%RSD	32.70	3.647	14.70	22.62	466.4	42.91	3.640	13.32
#1	1.494	309400.	-4.494	-2.217	.3008	.4304	289900.	-1.226
#2	2.979	294000.	-4.383	-3.332	-.5067	.4370	276300.	-.9470
#3	2.380	315700.	-3.400	-3.443	.5651	.1754	296900.	-1.176
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.212**	**1.852**	**-5.701**	**203000.**	**278500.**	**376.1**	**306700.**	**262000.**
Stddev	.170	.093	.482	807.	9973.	90.1	10730.	9185.
%RSD	4.040	5.044	8.458	.3976	3.581	23.96	3.498	3.506
#1	-4.401	1.941	-5.350	202700.	281900.	277.1	310000.	264500.
#2	-4.163	1.861	-5.501	203900.	267300.	397.6	294700.	251800.
#3	-4.071	1.755	-6.251	202400.	286400.	453.4	315400.	269700.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212080-IFA1 Acquired: 12/19/2012 12:08:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.312**	**-2.626**	**308700.**	**-8.176**	**.6040**	**.7628**	**-2.758**	**-255.6**
Stddev	.137	.282	10380.	.378	.9127	1.416	3.096	81.2
%RSD	5.912	10.74	3.362	4.617	151.1	185.6	112.2	31.76
#1	-2.419	-2.346	312400.	-7.869	-.3818	-.5457	.0209	-218.0
#2	-2.158	-2.621	297000.	-8.062	1.420	.5680	-2.201	-199.9
#3	-2.360	-2.910	316700.	-8.598	.7742	2.266	-6.095	-348.7
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.673**	**-2.690**	**-3.759**	**-4.867**	**-3.033**	**2.937**
Stddev	.098	.139	.126	.928	1.191	.119
%RSD	5.876	5.157	3.343	19.07	39.26	4.041
#1	1.619	-2.822	-3.876	-5.937	-3.222	2.800
#2	1.613	-2.545	-3.626	-4.392	-1.759	3.002
#3	1.786	-2.703	-3.774	-4.273	-4.117	3.010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212080-IFA1 Acquired: 12/19/2012 12:08:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**250.60**	**36.500**	**692.93**
Stddev	1.28	1.152	4.11
%RSD	.50955	3.1573	.59277
#1	251.63	36.231	688.40
#2	251.01	37.763	696.41
#3	249.17	35.506	693.98

Sample Name: Rinse Acquired: 12/19/2012 12:14:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0681**	**-.3606**	**-.1374**	**-.5406**	**.1568**	**-.1320**	**8.784**	**.0346**	**-.0231**
Stddev	.4523	8.211	.2698	.2088	.0735	.0781	27.02	.0085	.0643
%RSD	664.0	2277.	196.3	38.62	46.88	59.17	307.6	24.53	278.2
#1	-.3090	7.051	-.4467	-.7206	.2295	-.0653	11.02	.0370	.0099
#2	.5696	1.055	.0502	-.5896	.0825	-.1128	-19.29	.0251	-.0973
#3	-.0563	-9.187	-.0159	-.3117	.1585	-.2179	34.62	.0415	.0180

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2498**	**-2.381**	**8.630**	**-15.29**	**25.05**	**181.5**	**3.974**	**-.1346**	**-.3263**
Stddev	.0340	.283	2.070	23.73	48.48	62.6	9.836	.0657	.1424
%RSD	13.59	11.91	23.99	155.3	193.5	34.51	247.5	48.83	43.65
#1	.2426	-2.142	6.635	.3898	11.21	174.6	13.82	-.1684	-.3163
#2	.2868	-2.307	8.487	-42.59	78.95	247.3	3.957	-.0588	-.4735
#3	.2200	-2.695	10.77	-3.656	-15.01	122.6	-5.854	-.1765	-.1892

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**57.21**	**-.0278**	**.0540**	**-.0877**	**-.5474**	**120.2**	**-.0507**	**.0436**	**-.0843**
Stddev	16.04	.1183	.1874	1.100	.7435	156.1	.7394	.0114	.0239
%RSD	28.04	425.5	346.8	1255.	135.8	129.8	1460.	26.12	28.35
#1	75.54	.0709	.0933	-.1683	-1.399	300.3	-.9019	.0568	-.0682
#2	45.74	-.1589	-.1499	1.051	-.0270	24.67	.4315	.0374	-.1118
#3	50.35	.0047	.2187	-1.146	-.2162	35.66	.3184	.0367	-.0730

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**1.259**	**.2321**	**4.573**
Stddev	1.805	.1235	.051
%RSD	143.4	53.23	1.110
#1	.7371	.3735	4.517
#2	3.267	.1452	4.587
#3	-.2283	.1776	4.615

Sample Name: Rinse Acquired: 12/19/2012 12:14:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**280.06**	**37.652**	**749.80**
Stddev	2.78	.068	8.05
%RSD	.99124	.18039	1.0732
#1	279.47	37.585	752.38
#2	283.08	37.649	756.23
#3	277.62	37.721	740.78

Sample Name: B212150-BLK1 Acquired: 12/19/2012 12:21:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1480**	**1.770**	**-.0847**	**-.1873**	**.2109**	**-.2130**	**53.33**	**.0993**	**-.0244**
Stddev	.3617	5.231	.5629	.3290	.5121	.3765	21.20	.0261	.0255
%RSD	244.3	295.5	664.9	175.7	242.8	176.7	39.76	26.28	104.6
#1	.5502	1.280	-.1863	.0057	-.1583	-.2858	57.27	.0718	-.0536
#2	-.1505	7.229	.5222	-.5671	-.0044	.1945	30.43	.1022	-.0129
#3	.0443	-3.198	-.5898	-.0004	.7955	-.5478	72.28	.1237	-.0067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1616**	**-1.569**	**5.386**	**-7.332**	**60.42**	**222.6**	**-5.833**	**-.0020**	**-.5482**
Stddev	.1393	.436	2.881	19.60	21.65	72.4	4.878	.0794	.0756
%RSD	86.21	27.80	53.49	267.4	35.84	32.54	83.63	4062.	13.79
#1	.3177	-1.635	3.697	15.19	71.12	153.7	-5.837	-.0692	-.4745
#2	.1170	-1.969	3.748	-20.57	74.63	298.1	-10.71	-.0223	-.5447
#3	.0500	-1.104	8.713	-16.61	35.50	215.9	-.9529	.0856	-.6255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B212150-BLK1 Acquired: 12/19/2012 12:21:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**118.9**	**.5632**	**.5787**	**-.3054**	**-1.501**	**46.55**	**.2342**	**.3579**	**.2376**
Stddev	9.1	.1940	.7591	.0960	1.582	79.03	.0883	.0829	.0246
%RSD	7.641	34.45	131.2	31.44	105.4	169.8	37.69	23.16	10.34
#1	122.1	.4701	1.066	-.2115	-1.891	112.3	.1448	.2643	.2651
#2	108.7	.4334	-.2959	-.4034	.2395	68.45	.3213	.3872	.2178
#3	126.0	.7863	.9659	-.3013	-2.851	-41.11	.2366	.4222	.2299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.2959**	**.1163**	**3.283**
Stddev	.6115	.3139	.061
%RSD	206.6	270.0	1.868
#1	.3370	.4529	3.216
#2	-.3351	-.1685	3.295
#3	.8859	.0644	3.337
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212150-BLK1 Acquired: 12/19/2012 12:21:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**279.10**	**37.862**	**751.98**
Stddev	.44	.075	11.94
%RSD	.15841	.19733	1.5874
#1	279.60	37.844	765.63
#2	278.94	37.944	746.82
#3	278.76	37.798	743.49

Sample Name: B212150-SRM1 Acquired: 12/19/2012 12:27:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.095767
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38.58**	**5289.**	**156.2**	**77.27**	F **177.0**	**99.21**	**6091.**	**90.32**	**117.9**
Stddev	.40	16.	.6	.31	.6	.34	3.	.29	.4
%RSD	1.036	.3063	.3829	.3972	.3444	.3392	.0443	.3173	.3463
#1	38.86	5307.	156.2	77.27	177.7	99.59	6094.	90.26	117.8
#2	38.76	5280.	155.6	76.97	176.6	98.94	6090.	90.07	117.5
#3	38.12	5278.	156.8	77.58	176.6	99.11	6089.	90.64	118.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					249.0				
Low Limit					177.0				

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**104.9**	**108.6**	**8258.**	**9329.**	**2392.**	F **2092.**	**2121.**	**292.8**	**61.96**
Stddev	.4	1.1	112.	12.	4.	6.	4.	1.9	.26
%RSD	.3566	1.009	1.350	.1300	.1518	.2866	.1736	.6354	.4122
#1	105.0	109.4	8368.	9338.	2396.	2090.	2124.	294.1	61.89
#2	104.5	109.0	8260.	9315.	2389.	2088.	2117.	293.5	61.75
#3	105.3	107.3	8145.	9334.	2392.	2099.	2123.	290.6	62.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						3450.			
Low Limit						2110.			

Sample Name: B212150-SRM1 Acquired: 12/19/2012 12:27:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.095767
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**310.0**	**62.72**	**69.01**	**198.3**	**116.3**	**1157.**	**133.2**	**113.7**	**125.7**
Stddev	.0	.15	.34	.9	.5	16.	.6	.2	1.2
%RSD	.0144	.2341	.4952	.4712	.4186	1.411	.4793	.2000	.9603
#1	309.9	62.73	69.02	198.0	116.1	1175.	133.0	113.9	126.4
#2	310.0	62.58	68.67	197.5	115.9	1154.	132.7	113.5	126.4
#3	310.0	62.87	69.35	199.3	116.8	1142.	133.9	113.8	124.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**184.9**	**75.03**	**240.5**
Stddev	1.1	.72	1.0
%RSD	.6062	.9615	.4183
#1	185.1	75.47	240.1
#2	183.7	75.42	239.9
#3	185.9	74.20	241.7
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212150-SRM1 Acquired: 12/19/2012 12:27:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.095767
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**283.69**	**39.865**	**769.60**
Stddev	1.34	.036	3.75
%RSD	.47142	.08962	.48724
#1	283.76	39.874	769.86
#2	284.99	39.894	765.73
#3	282.32	39.825	773.21

Sample Name: B212150-SRM2 Acquired: 12/19/2012 12:33:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.096413
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.11**	**5412.**	**155.2**	**76.53**	F **173.6**	**96.55**	**5915.**	**90.45**	**116.6**
Stddev	.42	173.	1.9	.95	5.5	2.87	175.	.85	1.2
%RSD	1.062	3.200	1.207	1.243	3.152	2.970	2.964	.9354	1.038
#1	39.12	5524.	156.6	77.13	177.2	98.28	6026.	91.07	117.6
#2	39.52	5501.	155.9	77.02	176.4	98.13	6006.	90.79	117.0
#3	38.69	5213.	153.1	75.43	167.3	93.24	5713.	89.48	115.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					249.0				
Low Limit					177.0				

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**103.7**	**110.0**	**8737.**	**9607.**	**2355.**	F **2053.**	F **2087.**	**291.1**	**61.07**
Stddev	1.0	.8	115.	298.	67.	55.	59.	2.0	.59
%RSD	.9174	.7031	1.320	3.101	2.833	2.667	2.850	.6855	.9731
#1	104.4	109.9	8749.	9794.	2400.	2077.	2120.	290.3	61.40
#2	104.1	110.7	8845.	9763.	2387.	2091.	2122.	293.4	61.42
#3	102.6	109.2	8616.	9263.	2279.	1990.	2018.	289.6	60.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit						3450.	3450.		
Low Limit						2110.	2110.		

Sample Name: B212150-SRM2 Acquired: 12/19/2012 12:33:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.096413
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**294.6**	**62.77**	**67.27**	**196.9**	**115.0**	**1186.**	**131.3**	**113.1**	**134.8**
Stddev	9.1	.65	.63	1.9	1.1	49.	1.3	3.6	1.1
%RSD	3.101	1.039	.9388	.9804	.9441	4.111	.9895	3.175	.8507
#1	301.9	63.15	67.81	198.4	115.8	1225.	132.2	115.3	134.8
#2	297.6	63.15	67.41	197.6	115.6	1202.	132.0	115.0	136.0
#3	284.4	62.02	66.58	194.7	113.8	1131.	129.8	108.9	133.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**182.5**	**76.15**	**238.1**
Stddev	1.5	.84	2.2
%RSD	.8445	1.097	.9139
#1	183.7	75.93	239.7
#2	183.1	77.07	239.0
#3	180.8	75.44	235.6
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212150-SRM2 Acquired: 12/19/2012 12:33:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.096413
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**285.77**	**40.842**	**777.31**
Stddev	2.74	.938	4.86
%RSD	.95737	2.2968	.62507
#1	283.70	40.252	778.25
#2	284.73	40.351	772.05
#3	288.87	41.924	781.63

Sample Name: 1212062-01 Acquired: 12/19/2012 12:39:26 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.524**	**52040.**	**54.98**	**11.99**	**327.4**	**1.262**	**14240.**	**.6003**
Stddev	.465	829.	1.87	.53	4.7	.459	204.	.0464
%RSD	7.121	1.593	3.406	4.390	1.422	36.37	1.435	7.722
#1	7.059	52690.	56.27	12.51	330.8	1.704	14360.	.5709
#2	6.219	51110.	52.83	11.45	322.1	.7877	14010.	.6538
#3	6.295	52320.	55.83	12.02	329.2	1.294	14360.	.5763

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**57.30**	**95.06**	**138.4**	**117000.**	**138600.**	**4399.**	**19820.**	**19900.**
Stddev	.28	.86	.3	1048.	1947.	39.	381.	306.
%RSD	.4846	.9057	.2322	.8955	1.405	.8953	1.920	1.537
#1	57.45	95.60	138.6	116600.	139900.	4414.	20000.	20050.
#2	56.98	94.06	138.0	116200.	136300.	4354.	19380.	19550.
#3	57.46	95.51	138.5	118200.	139500.	4429.	20080.	20100.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1818.**	**1.973**	**396.0**	**103.1**	**982.7**	**6.868**	**-2.579**	**10530.**
Stddev	18.	.142	7.6	.6	5.8	.949	2.190	184.
%RSD	.9667	7.196	1.923	.5415	.5950	13.82	84.92	1.748
#1	1811.	2.099	404.5	103.5	984.4	7.451	-.5547	10680.
#2	1805.	2.001	389.9	102.5	976.2	5.773	-2.278	10570.
#3	1838.	1.819	393.5	103.4	987.5	7.379	-4.904	10320.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.730**	**78.38**	**1035.**	**.1902**	**155.2**	**919.7**
Stddev	.483	1.27	7.	1.202	.7	7.4
%RSD	6.250	1.620	.6561	631.9	.4578	.8059
#1	8.037	79.22	1040.	-.5857	155.0	920.7
#2	7.173	76.92	1027.	-.4182	154.7	911.8
#3	7.979	79.00	1037.	1.574	156.0	926.6

Sample Name: 1212062-01 Acquired: 12/19/2012 12:39:26 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**291.40**	**39.958**	**788.39**
Stddev	2.17	.588	5.67
%RSD	.74345	1.4713	.71862
#1	291.10	39.673	790.08
#2	293.71	40.635	793.02
#3	289.41	39.568	782.07

Sample Name: B212150-MS1 Acquired: 12/19/2012 12:45:42 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**188.1**	**78620.**	**233.1**	**194.9**	**571.5**	**175.8**	**20710.**	**173.8**
Stddev	1.9	485.	1.7	1.3	2.5	.9	139.	.8
%RSD	1.020	.6168	.7500	.6679	.4398	.5353	.6688	.4706
#1	189.8	79020.	234.0	193.9	573.2	176.7	20810.	173.6
#2	188.4	78750.	234.3	196.4	572.7	176.0	20770.	174.7
#3	186.0	78080.	231.1	194.5	568.6	174.8	20550.	173.1

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**238.4**	**285.0**	**367.8**	**131500.**	**161000.**	**11250.**	**28600.**	**28820.**
Stddev	1.1	1.5	5.2	1318.	1216.	120.	195.	223.
%RSD	.4569	.5410	1.402	1.003	.7548	1.065	.6821	.7736
#1	237.8	284.5	372.5	131800.	161700.	11350.	28780.	28990.
#2	239.7	286.8	368.7	132600.	161700.	11280.	28620.	28890.
#3	237.8	283.9	362.3	130000.	159600.	11120.	28400.	28560.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2246.**	**176.4**	**4960.**	**294.5**	**1414.**	**178.5**	**165.8**	**21470.**
Stddev	19.	.9	37.	2.0	9.	.7	1.1	99.
%RSD	.8512	.5373	.7422	.6656	.6058	.4068	.6576	.4632
#1	2261.	175.9	4992.	293.8	1412.	177.9	164.5	21590.
#2	2253.	177.5	4969.	296.8	1423.	179.3	166.6	21400.
#3	2225.	175.8	4920.	293.1	1406.	178.2	166.3	21430.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**188.1**	**276.6**	**1361.**	**174.5**	**361.7**	**1228.**
Stddev	1.2	1.2	19.	.3	5.5	6.
%RSD	.6494	.4198	1.369	.1440	1.516	.5202
#1	186.8	277.3	1379.	174.7	365.4	1227.
#2	188.5	277.3	1362.	174.5	364.2	1235.
#3	189.2	275.3	1342.	174.2	355.4	1222.

Sample Name: B212150-MS1 Acquired: 12/19/2012 12:45:42 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**289.36**	**39.569**	**780.96**
Stddev	1.41	.319	6.40
%RSD	.48727	.80677	.82011
#1	290.25	39.368	775.18
#2	287.73	39.402	779.85
#3	290.09	39.937	787.85

Sample Name: B212150-MSD1 Acquired: 12/19/2012 12:51:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**191.1**	**80920.**	**238.4**	**195.7**	**583.2**	**180.1**	**21500.**	**178.5**
Stddev	2.9	343.	1.7	2.0	1.2	1.3	50.	1.8
%RSD	1.537	.4232	.7079	.9996	.2029	.7049	.2304	1.015
#1	192.0	81320.	237.7	196.5	584.5	180.9	21450.	179.6
#2	193.6	80710.	240.4	193.5	582.5	180.9	21540.	176.4
#3	187.9	80740.	237.2	197.1	582.4	178.7	21530.	179.4

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**244.3**	**293.9**	**350.2**	**169300.**	**171800.**	**11330.**	**30020.**	**29900.**
Stddev	2.6	3.4	2.6	694.	631.	26.	203.	126.
%RSD	1.064	1.141	.7509	.4097	.3670	.2270	.6768	.4205
#1	246.4	294.0	350.4	169500.	172500.	11320.	29790.	29790.
#2	241.4	290.6	352.8	169900.	171600.	11360.	30180.	30040.
#3	245.0	297.3	347.5	168500.	171300.	11320.	30090.	29870.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2367.**	**175.9**	**4881.**	**299.2**	**1437.**	**179.7**	**168.5**	**24170.**
Stddev	2.	2.5	49.	2.5	8.	2.6	3.6	385.
%RSD	.0791	1.396	1.006	.8275	.5815	1.422	2.146	1.592
#1	2365.	178.2	4864.	300.7	1445.	178.8	171.6	24410.
#2	2369.	173.3	4936.	296.3	1429.	182.6	164.5	24380.
#3	2366.	176.1	4842.	300.5	1436.	177.8	169.4	23720.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**192.9**	**279.9**	**1469.**	**178.9**	**370.7**	**1303.**
Stddev	2.1	1.8	6.	2.1	2.6	11.
%RSD	1.099	.6503	.4170	1.157	.6953	.8299
#1	195.3	281.7	1463.	176.5	373.1	1309.
#2	191.2	279.9	1470.	180.2	371.2	1290.
#3	192.1	278.1	1475.	180.0	368.0	1309.

Sample Name: B212150-MSD1 Acquired: 12/19/2012 12:51:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**291.08**	**38.185**	**772.69**
Stddev	1.99	.049	5.15
%RSD	.68317	.12933	.66622
#1	290.04	38.231	778.56
#2	293.37	38.190	768.93
#3	289.82	38.133	770.57

Sample Name: 1212062-02 Acquired: 12/19/2012 12:58:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.165**	**55540.**	**57.25**	**12.01**	**331.4**	**1.068**	**12670.**	**.7384**
Stddev	.305	629.	.58	.13	3.9	.383	122.	.0326
%RSD	4.953	1.133	1.012	1.054	1.175	35.83	.9590	4.409
#1	6.054	56260.	56.62	12.05	335.9	1.422	12800.	.7196
#2	6.510	55140.	57.39	11.86	328.6	.6619	12570.	.7196
#3	5.930	55210.	57.75	12.10	329.8	1.120	12620.	.7760

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**63.22**	**102.5**	**142.0**	**121300.**	**146900.**	**4637.**	**27890.**	**27810.**
Stddev	.38	.8	2.0	903.	1672.	60.	295.	224.
%RSD	.6084	.7375	1.393	.7439	1.138	1.304	1.059	.8054
#1	63.41	103.1	144.2	121800.	148800.	4705.	28230.	28060.
#2	63.47	102.6	141.3	121900.	145800.	4617.	27730.	27620.
#3	62.78	101.6	140.4	120300.	146000.	4589.	27700.	27760.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1817.**	**1.588**	**345.6**	**306.3**	**855.3**	**6.523**	**-1.788**	**12520.**
Stddev	14.	.090	10.4	1.5	4.6	.238	1.619	170.
%RSD	.7483	5.675	3.020	.4919	.5388	3.653	90.51	1.361
#1	1832.	1.692	353.4	307.4	856.8	6.782	-2.840	12710.
#2	1811.	1.536	333.8	306.8	859.0	6.475	.0757	12370.
#3	1807.	1.536	349.6	304.5	850.1	6.313	-2.601	12490.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.932**	**79.40**	**1036.**	**-1.850**	**159.3**	**954.7**
Stddev	.780	.83	18.	1.225	1.7	3.7
%RSD	8.736	1.050	1.692	66.23	1.086	.3884
#1	9.467	80.36	1056.	-.9151	161.3	956.0
#2	9.292	78.86	1028.	-1.397	158.0	957.5
#3	8.037	78.97	1023.	-3.236	158.7	950.5

Sample Name: 1212062-02 Acquired: 12/19/2012 12:58:00 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**290.21**	**39.737**	**792.49**
Stddev	.65	.219	5.53
%RSD	.22331	.55132	.69836
#1	290.55	39.487	786.60
#2	289.46	39.893	793.29
#3	290.61	39.832	797.58

Sample Name: 1212062-03 Acquired: 12/19/2012 13:04:15 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.152**	**61150.**	**75.42**	**12.19**	**189.2**	**1.461**	**9797.**	**-.9328**
Stddev	.288	253.	.62	.25	.5	.219	69.	.0332
%RSD	4.676	.4137	.8263	2.079	.2389	14.98	.7025	3.557
#1	6.050	61160.	75.54	11.97	189.4	1.378	9779.	-.9386
#2	5.928	60900.	74.75	12.12	188.6	1.296	9738.	-.9627
#3	6.476	61400.	75.98	12.47	189.5	1.709	9872.	-.8971

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44.55**	**101.9**	**63.90**	**140800.**	**174900.**	**4561.**	**19990.**	**20160.**
Stddev	.02	.3	.88	1044.	554.	42.	299.	129.
%RSD	.0470	.2650	1.376	.7414	.3170	.9303	1.495	.6390
#1	44.55	101.6	64.45	140900.	174600.	4554.	20100.	20090.
#2	44.53	101.9	64.36	141700.	174600.	4523.	19650.	20090.
#3	44.57	102.1	62.88	139700.	175500.	4607.	20210.	20310.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1487.**	**2.526**	**232.3**	**90.37**	**114.4**	**4.539**	**-3.921**	**11590.**
Stddev	5.	.112	5.1	.46	1.0	1.435	.658	50.
%RSD	.3232	4.428	2.189	.5056	.8598	31.61	16.77	.4306
#1	1486.	2.600	236.1	89.99	113.4	3.243	-4.034	11540.
#2	1492.	2.397	234.1	90.24	114.3	4.293	-4.515	11630.
#3	1483.	2.580	226.5	90.87	115.4	6.081	-3.215	11620.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2795**	**91.65**	**999.6**	**-4.187**	**236.0**	**306.0**
Stddev	.5854	.31	8.0	1.177	2.8	1.2
%RSD	209.4	.3389	.7993	28.10	1.173	.4067
#1	.8300	91.77	999.1	-2.889	237.1	304.7
#2	.3441	91.30	1008.	-5.184	238.0	306.2
#3	-.3355	91.89	991.8	-4.488	232.8	307.2

Sample Name: 1212062-03 Acquired: 12/19/2012 13:04:15 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**290.34**	**39.446**	**780.47**
Stddev	.53	.176	4.47
%RSD	.18179	.44687	.57309
#1	290.70	39.573	778.69
#2	290.59	39.520	777.16
#3	289.73	39.245	785.56

Sample Name: 1212062-04 Acquired: 12/19/2012 13:10:31 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7.011**	**89960.**	**76.00**	**22.61**	**377.4**	**2.412**	**14370.**	**-.5847**
Stddev	.100	523.	2.11	.38	2.4	.253	58.	.0797
%RSD	1.431	.5813	2.780	1.691	.6231	10.49	.4007	13.63
#1	7.072	90330.	74.93	22.85	379.3	2.121	14420.	-.6523
#2	6.895	90190.	78.43	22.81	378.3	2.539	14380.	-.4968
#3	7.066	89370.	74.64	22.17	374.8	2.576	14310.	-.6049

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**72.96**	**148.8**	**113.7**	**162700.**	**216000.**	**6614.**	**19000.**	**19360.**
Stddev	.40	1.0	.8	1780.	1258.	35.	94.	53.
%RSD	.5419	.6907	.6916	1.094	.5822	.5280	.4943	.2763
#1	73.16	148.6	113.6	164300.	217200.	6645.	19050.	19410.
#2	73.22	149.9	114.5	162900.	216100.	6576.	19070.	19370.
#3	72.51	147.9	112.9	160800.	214700.	6620.	18900.	19300.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3518.**	**4.366**	**820.4**	**88.28**	**869.7**	**5.375**	**-4.041**	**9213.**
Stddev	18.	.060	9.0	.95	6.1	.236	.546	34.
%RSD	.5136	1.386	1.095	1.078	.6964	4.390	13.52	.3729
#1	3512.	4.436	821.7	88.55	870.8	5.103	-4.452	9203.
#2	3539.	4.339	810.9	89.06	875.2	5.524	-3.421	9184.
#3	3504.	4.324	828.7	87.22	863.2	5.498	-4.251	9251.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.051**	**143.0**	**1456.**	**-2.112**	**270.1**	**402.3**
Stddev	.602	.8	6.	1.298	1.9	2.8
%RSD	9.940	.5771	.4394	61.43	.7084	.7075
#1	6.729	143.7	1457.	-3.365	270.3	403.4
#2	5.844	143.2	1462.	-2.198	271.8	404.4
#3	5.581	142.1	1449.	-.7738	268.0	399.1

Sample Name: 1212062-04 Acquired: 12/19/2012 13:10:31 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**292.82**	**39.834**	**794.19**
Stddev	1.75	.188	3.03
%RSD	.59628	.47200	.38128
#1	292.56	39.618	792.85
#2	291.21	39.926	792.07
#3	294.68	39.958	797.66

Sample Name: S212080-CCV1 Acquired: 12/19/2012 13:16:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**187.0**	**4613.**	**184.3**	**180.4**	**183.2**	**180.7**	**4623.**	**185.5**
Stddev	.3	23.	1.8	.9	.5	1.4	57.	1.0
%RSD	.1352	.5086	.9750	.4945	.2834	.7985	1.223	.5468
#1	186.7	4601.	182.5	180.5	182.6	179.5	4579.	185.8
#2	187.2	4598.	184.4	179.4	183.6	180.2	4604.	184.4
#3	187.0	4640.	186.1	181.2	183.4	182.3	4687.	186.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**183.6**	**184.7**	**182.4**	**4676.**	**4617.**	**4599.**	**4635.**	**4601.**
Stddev	1.5	1.4	.1	19.	60.	45.	133.	42.
%RSD	.8226	.7356	.0464	.4152	1.290	.9777	2.873	.9182
#1	184.1	185.4	182.3	4678.	4564.	4554.	4499.	4565.
#2	181.9	183.2	182.5	4695.	4606.	4600.	4640.	4590.
#3	184.8	185.6	182.4	4656.	4681.	4644.	4765.	4648.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: S212080-CCV1 Acquired: 12/19/2012 13:16:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**188.0**	**183.4**	**4591.**	**183.5**	**184.7**	**180.9**	**183.4**	W **4491.**
Stddev	.5	1.9	32.	1.2	1.5	2.0	2.6	171.
%RSD	.2896	1.014	.6877	.6624	.7877	1.117	1.419	3.797
#1	187.4	183.7	4579.	184.1	185.1	183.0	184.8	4546.
#2	187.9	181.3	4567.	182.1	183.1	178.9	180.4	4299.
#3	188.5	185.0	4627.	184.3	186.0	180.9	185.0	4626.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value								5000.
Range								-10.00%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**182.4**	**185.6**	**188.0**	**182.8**	**183.4**	**187.4**
Stddev	.5	1.0	.8	.9	.4	1.4
%RSD	.2478	.5528	.4128	.4788	.2150	.7735
#1	182.3	184.8	187.1	182.3	183.0	187.9
#2	181.9	185.3	188.6	182.2	183.4	185.7
#3	182.8	186.8	188.4	183.8	183.8	188.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: S212080-CCV1 Acquired: 12/19/2012 13:16:48 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**290.56**	**37.578**	**772.68**
Stddev	1.65	.294	6.33
%RSD	.56783	.78354	.81875
#1	289.80	37.814	779.81
#2	292.46	37.672	767.74
#3	289.43	37.248	770.49

Sample Name: S212080-CCB1 Acquired: 12/19/2012 13:22:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4688**	**-18.03**	**-.4642**	**-.2581**	**-.0579**	**-.4144**	**.4008**	**.0206**	**.0139**
Stddev	.4961	21.16	.5686	.1551	.2342	.3073	18.70	.0282	.1077
%RSD	105.8	117.3	122.5	60.09	404.6	74.16	4666.	136.9	773.2
#1	.0910	6.401	.0087	-.3871	-.1545	-.4596	-20.67	-.0010	.1379
#2	1.031	-30.27	-.3061	-.3012	-.2283	-.6965	15.02	.0525	-.0563
#3	.2848	-30.22	-1.095	-.0861	.2092	-.0870	6.854	.0103	-.0398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2459**	**-2.775**	**2.175**	**-32.22**	**-2.212**	**136.2**	**3.926**	**-.1069**	**-.2887**
Stddev	.0616	.127	1.004	14.52	12.34	129.6	14.86	.0425	.1690
%RSD	25.05	4.582	46.13	45.07	558.0	95.18	378.6	39.76	58.55
#1	.2341	-2.631	3.323	-42.56	.0888	-12.44	11.32	-.0579	-.2424
#2	.1911	-2.873	1.741	-15.62	8.818	225.8	13.64	-.1337	-.1476
#3	.3126	-2.822	1.462	-38.48	-15.54	195.1	-13.18	-.1292	-.4761
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212080-CCB1 Acquired: 12/19/2012 13:22:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.518**	**.2461**	**.1807**	**.6077**	**-1.353**	**-66.47**	**-.2109**	**-.0511**	**-.0246**
Stddev	5.436	.1597	.7771	.7263	.982	60.26	.3932	.1264	.0836
%RSD	98.51	64.90	429.9	119.5	72.58	90.66	186.4	247.7	339.5
#1	-11.25	.3701	-.1024	.2611	-2.378	-8.322	.2021	.0696	.0348
#2	-4.868	.3023	-.4151	.1197	-.4194	-62.44	-.2543	-.0402	-.1202
#3	-.4365	.0659	1.060	1.442	-1.263	-128.6	-.5807	-.1826	.0116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**1.127**	**-.1819**	**-.1708**
Stddev	.574	.3511	.0545
%RSD	50.96	193.1	31.89
#1	1.743	-.5352	-.1464
#2	.6061	-.1773	-.2332
#3	1.032	.1669	-.1329
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212080-CCB1 Acquired: 12/19/2012 13:22:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**285.53**	**37.850**	**764.01**
Stddev	4.46	.174	4.40
%RSD	1.5607	.45896	.57566
#1	289.63	37.689	767.54
#2	286.18	38.034	765.42
#3	280.79	37.828	759.09

Sample Name: 1212062-05 Acquired: 12/19/2012 13:29:02 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.88**	**62130.**	**81.74**	**83.25**	**1380.**	**.3274**	**220000.**	**6.765**
Stddev	.17	257.	.53	.21	7.	.2165	1167.	.102
%RSD	.9967	.4141	.6460	.2492	.5150	66.13	.5307	1.503
#1	16.88	62060.	81.39	83.16	1378.	.0782	219500.	6.648
#2	16.71	61910.	81.47	83.10	1374.	.4687	219100.	6.818
#3	17.05	62410.	82.34	83.48	1388.	.4354	221300.	6.829

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**67.92**	**196.6**	**1646.**	**140400.**	**175000.**	**7146.**	**100600.**	**99850.**
Stddev	.35	1.0	8.	1577.	670.	59.	423.	681.
%RSD	.5119	.5214	.5074	1.123	.3830	.8273	.4208	.6821
#1	67.54	196.0	1642.	140700.	174800.	7135.	100300.	99600.
#2	68.00	195.9	1641.	138700.	174400.	7093.	100400.	99330.
#3	68.22	197.7	1656.	141800.	175700.	7210.	101100.	100600.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3392.**	**8.241**	**1479.**	**223.7**	**14720.**	**24.22**	**.3237**	**10590.**
Stddev	20.	.099	15.	.5	56.	1.03	1.985	45.
%RSD	.5821	1.202	1.003	.2342	.3816	4.249	613.3	.4274
#1	3376.	8.315	1465.	223.2	14670.	25.39	-1.234	10540.
#2	3386.	8.129	1478.	223.9	14730.	23.80	2.559	10590.
#3	3414.	8.281	1494.	224.2	14780.	23.46	-.3545	10630.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**170.8**	**500.0**	**2208.**	**-.5004**	**264.3**	**4468.**
Stddev	1.8	3.5	13.	.4899	.1	24.
%RSD	1.067	.7091	.5905	97.91	.0311	.5422
#1	169.7	498.8	2198.	-.6033	264.2	4449.
#2	169.8	497.1	2203.	.0328	264.2	4459.
#3	172.9	503.9	2223.	-.9306	264.4	4495.

Sample Name: 1212062-05 Acquired: 12/19/2012 13:29:02 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212062)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**282.08**	**39.455**	**775.88**
Stddev	1.29	.281	4.93
%RSD	.45656	.71329	.63594
#1	283.29	39.673	779.07
#2	282.23	39.554	778.38
#3	280.73	39.137	770.20

Sample Name: S212080-CCV2 Acquired: 12/19/2012 13:35:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.2**	**4538.**	**183.0**	W **178.9**	W **179.1**	W **177.6**	**4567.**	**184.4**
Stddev	.6	26.	.9	.4	1.1	.8	24.	.1
%RSD	.3410	.5763	.4837	.2177	.6043	.4529	.5217	.0480
#1	184.6	4558.	182.4	179.3	179.8	178.3	4588.	184.4
#2	185.9	4548.	182.5	178.5	179.6	177.8	4571.	184.4
#3	185.1	4509.	184.0	178.8	177.8	176.7	4541.	184.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Pass	Chk Pass
Value				200.0	200.0	200.0		
Range				-10.00%	-10.00%	-10.00%		

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**182.1**	**183.7**	W **179.4**	**4612.**	**4526.**	**4536.**	**4552.**	**4506.**
Stddev	.4	.3	.6	12.	51.	41.	134.	17.
%RSD	.2284	.1543	.3276	.2703	1.137	.9133	2.953	.3741
#1	182.3	183.8	179.1	4611.	4584.	4577.	4594.	4498.
#2	181.6	183.4	179.1	4625.	4510.	4494.	4402.	4525.
#3	182.4	183.9	180.1	4600.	4485.	4537.	4661.	4495.
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			200.0					
Range			-10.00%					

Sample Name: S212080-CCV2 Acquired: 12/19/2012 13:35:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.8**	**181.7**	**4534.**	**182.0**	**183.2**	W **179.3**	**182.9**	W **4459.**
Stddev	1.4	.4	22.	.2	.5	1.6	.3	112.
%RSD	.7517	.2110	.4768	.1075	.2907	.8710	.1685	2.513
#1	184.7	181.5	4555.	182.2	182.7	179.5	182.8	4472.
#2	185.4	181.5	4535.	181.9	183.8	177.6	183.2	4564.
#3	187.4	182.2	4512.	181.8	183.2	180.7	182.6	4341.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn
Value						200.0		5000.
Range						-10.00%		-10.00%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**180.5**	**182.6**	**185.5**	**180.8**	**180.4**	**186.1**
Stddev	.2	.8	.4	1.3	.7	.2
%RSD	.1090	.4537	.2111	.7374	.3605	.0877
#1	180.2	183.3	185.1	179.7	179.9	185.9
#2	180.6	182.9	185.5	182.3	180.1	186.3
#3	180.6	181.7	185.9	180.5	181.1	186.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: S212080-CCV2 Acquired: 12/19/2012 13:35:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**293.55**	**38.120**	**781.94**
Stddev	.12	.235	6.84
%RSD	.04241	.61600	.87427
#1	293.54	37.886	789.77
#2	293.67	38.118	778.82
#3	293.43	38.356	777.21

Sample Name: S212080-CCB2 Acquired: 12/19/2012 13:41:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0617**	**-11.22**	**-.5842**	**-.1649**	**-.0602**	**-.2424**	**6.843**	**.0175**	**-.0954**
Stddev	.3514	20.35	.9597	.1376	.3054	.1578	10.74	.0262	.0552
%RSD	570.0	181.4	164.3	83.40	507.6	65.10	156.9	149.3	57.84
#1	.1962	12.19	-1.586	-.0136	-.2560	-.4180	.8877	-.0107	-.1502
#2	.0808	-24.74	-.4943	-.1989	.2917	-.1967	19.24	.0222	-.0399
#3	-.4620	-21.11	.3273	-.2823	-.2162	-.1124	.4043	.0411	-.0961
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1790**	**-3.385**	**1.655**	**-27.54**	**28.43**	**209.9**	**-12.41**	**-.1489**	**-.3000**
Stddev	.1033	.126	.615	9.87	37.42	139.3	1.50	.1002	.1430
%RSD	57.70	3.710	37.13	35.83	131.7	66.36	12.09	67.29	47.69
#1	.1094	-3.246	2.021	-17.62	36.60	268.2	-13.25	-.2149	-.1958
#2	.1299	-3.419	.9454	-37.35	-12.41	50.92	-10.68	-.1982	-.4630
#3	.2976	-3.491	1.999	-27.66	61.09	310.5	-13.31	-.0336	-.2411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212080-CCB2 Acquired: 12/19/2012 13:41:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.539**	**.1886**	**-.2797**	**.1208**	**.1338**	**86.56**	**.2285**	**.0090**	**.0596**
Stddev	10.21	.2495	.7497	.4354	.4831	78.75	.4943	.0604	.0790
%RSD	288.5	132.3	268.0	360.4	361.0	90.97	216.3	672.5	132.5
#1	2.789	.2765	.3770	-.2583	.0092	35.67	.7421	.0664	.1426
#2	14.10	-.0929	-1.097	.5963	.6671	177.3	-.2439	.0147	-.0147
#3	-6.276	.3822	-.1196	.0245	-.2748	46.74	.1873	-.0541	.0510
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.9069**	**.5508**	**-.1451**
Stddev	.8269	.0786	.0345
%RSD	91.17	14.28	23.80
#1	.1198	.6215	-.1850
#2	.8325	.5647	-.1236
#3	1.768	.4661	-.1269
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212080-CCB2 Acquired: 12/19/2012 13:41:25 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**287.37**	**37.700**	**768.15**
Stddev	.64	.312	4.97
%RSD	.22385	.82826	.64739
#1	288.07	37.607	773.39
#2	287.22	38.048	763.50
#3	286.81	37.445	767.55

Sample Name: S212080-LCV3 Acquired: 12/19/2012 13:47:37 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.257**	**115.3**	**7.921**	**11.50**	**97.58**	**2.831**	**487.9**	**3.474**	**21.97**
Stddev	.285	15.5	.109	.28	.48	.147	22.9	.056	.11
%RSD	5.427	13.42	1.379	2.436	.4883	5.202	4.688	1.604	.5046
#1	5.235	121.9	7.982	11.77	98.11	2.958	507.1	3.493	21.94
#2	4.983	126.5	7.986	11.51	97.19	2.670	493.9	3.411	21.88
#3	5.552	97.67	7.795	11.21	97.44	2.865	462.6	3.517	22.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.708**	F **6.548**	**53.80**	F **30.98**	**505.1**	F **692.3**	**513.5**	**5.432**	**9.643**
Stddev	.045	.013	.23	8.48	7.5	36.9	27.3	.061	.161
%RSD	.7960	.1918	.4328	27.38	1.485	5.329	5.325	1.127	1.670
#1	5.723	6.560	53.74	36.29	498.6	693.9	521.9	5.421	9.791
#2	5.657	6.535	54.06	21.20	503.5	728.4	482.9	5.498	9.472
#3	5.744	6.551	53.61	35.47	513.3	654.7	535.6	5.378	9.666
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value		10.00		50.00		500.0			
Range		-30.00%		-30.00%		30.00%			

Sample Name: S212080-LCV3 Acquired: 12/19/2012 13:47:37 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1009.**	**19.80**	**8.904**	**19.84**	**20.56**	**502.7**	**9.980**	**10.62**	**9.961**
Stddev	18.	.22	.827	.76	.75	109.0	.689	.09	.150
%RSD	1.764	1.111	9.286	3.815	3.655	21.69	6.908	.8052	1.502
#1	1007.	19.73	9.829	20.64	21.35	575.4	10.59	10.65	10.12
#2	992.4	19.62	8.646	19.74	19.86	377.4	10.12	10.52	9.950
#3	1028.	20.05	8.237	19.14	20.47	555.4	9.231	10.68	9.817
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**19.46**	**20.24**	**22.34**
Stddev	.99	.83	.11
%RSD	5.066	4.114	.4878
#1	20.10	19.29	22.46
#2	18.33	20.84	22.31
#3	19.97	20.58	22.25
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212080-LCV3 Acquired: 12/19/2012 13:47:37 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**289.77**	**38.490**	**778.86**
Stddev	2.09	.282	1.80
%RSD	.72168	.73265	.23058
#1	287.51	38.389	776.83
#2	291.63	38.809	779.51
#3	290.16	38.272	780.23

Sample Name: S212080-LCV4 Acquired: 12/19/2012 13:53:49 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.898**	**199.9**	**15.99**	**22.17**	**191.5**	**5.599**	**966.9**	**6.825**	**43.61**
Stddev	.232	19.3	.52	.35	3.2	.174	3.2	.039	.37
%RSD	2.346	9.677	3.245	1.575	1.687	3.101	.3355	.5700	.8541
#1	10.16	192.3	15.42	22.54	194.0	5.695	970.6	6.870	44.04
#2	9.806	185.4	16.43	21.85	187.9	5.704	965.8	6.805	43.37
#3	9.726	221.8	16.13	22.11	192.7	5.399	964.4	6.800	43.41
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.98**	**15.94**	**101.2**	**100.5**	**982.3**	**1176.**	**987.1**	**10.55**	**19.16**
Stddev	.09	.58	1.2	.8	44.1	69.	23.7	.09	.36
%RSD	.8160	3.668	1.225	.8255	4.486	5.880	2.401	.8165	1.892
#1	11.07	15.76	101.8	99.55	1030.	1096.	999.3	10.45	19.56
#2	11.00	15.47	99.81	101.1	943.0	1219.	959.8	10.56	18.86
#3	10.89	16.59	102.1	100.7	974.0	1212.	1002.	10.63	19.07
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212080-LCV4 Acquired: 12/19/2012 13:53:49 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1932.**	**38.54**	**15.65**	**39.94**	**37.93**	**1059.**	**19.77**	**20.88**	**19.40**
Stddev	38.	.44	.37	.51	1.23	107.	.41	.43	.23
%RSD	1.975	1.149	2.371	1.268	3.237	10.10	2.081	2.041	1.191
#1	1964.	39.02	15.52	39.66	38.70	1175.	19.94	21.24	19.48
#2	1890.	38.44	16.06	39.64	38.58	964.0	20.07	20.41	19.14
#3	1943.	38.16	15.35	40.53	36.51	1038.	19.30	20.99	19.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**37.30**	**39.98**	**41.41**
Stddev	.98	.88	.35
%RSD	2.631	2.196	.8541
#1	38.38	39.93	41.81
#2	36.46	39.12	41.30
#3	37.06	40.88	41.13
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212080-LCV4 Acquired: 12/19/2012 13:53:49 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**291.21**	**38.642**	**781.04**
Stddev	2.23	.567	8.57
%RSD	.76597	1.4667	1.0974
#1	288.64	38.197	781.76
#2	292.40	39.280	789.22
#3	292.60	38.450	772.13

Sample Name: S212080-IFA2 Acquired: 12/19/2012 14:00:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.868**	**302700.**	**-3.051**	**-3.279**	**.1316**	**.0486**	**285800.**	**-.6827**
Stddev	.123	2803.	.783	.362	.0633	.2684	3040.	.1022
%RSD	4.285	.9260	25.67	11.04	48.12	551.8	1.064	14.97
#1	2.851	301000.	-3.257	-3.635	.0591	.1968	283300.	-.6325
#2	2.999	301200.	-2.185	-3.292	.1596	-.2612	285000.	-.8003
#3	2.755	306000.	-3.710	-2.912	.1761	.2103	289200.	-.6153
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.065**	**1.993**	**-6.566**	**196900.**	**269700.**	**475.7**	**297500.**	**257000.**
Stddev	.082	.020	.202	1600.	2370.	46.9	2982.	2533.
%RSD	2.007	1.023	3.071	.8127	.8788	9.867	1.002	.9856
#1	-4.152	2.016	-6.484	196700.	268000.	422.2	295800.	255500.
#2	-3.990	1.978	-6.418	198600.	268700.	494.7	295900.	255500.
#3	-4.053	1.985	-6.795	195400.	272400.	510.1	301000.	259900.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212080-IFA2 Acquired: 12/19/2012 14:00:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.091**	**-2.513**	**306300.**	**-7.391**	**-.3264**	**1.803**	**-2.953**	**-144.7**
Stddev	.164	.158	3160.	.309	.9959	1.085	2.396	73.0
%RSD	7.838	6.298	1.032	4.177	305.1	60.19	81.12	50.46
#1	-2.051	-2.621	304600.	-7.716	-.4943	1.842	-2.986	-219.0
#2	-1.951	-2.587	304400.	-7.101	.7428	2.869	-5.332	-142.1
#3	-2.271	-2.331	310000.	-7.356	-1.228	.6993	-.5414	-73.02
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.644**	**-3.762**	**-3.589**	**-3.759**	**-1.522**	**4.463**
Stddev	.296	.335	.083	1.222	1.192	.081
%RSD	17.99	8.902	2.305	32.52	78.33	1.821
#1	1.850	-3.435	-3.516	-4.823	-1.510	4.406
#2	1.305	-4.105	-3.679	-4.030	-.3356	4.427
#3	1.777	-3.747	-3.573	-2.424	-2.719	4.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212080-IFA2 Acquired: 12/19/2012 14:00:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**261.48**	**36.882**	**720.93**
Stddev	1.09	.429	1.14
%RSD	.41778	1.1623	.15849
#1	261.55	37.167	722.17
#2	262.54	37.090	719.92
#3	260.36	36.389	720.68

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212062

Printed: 12/19/2012 10:38:35AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/21/2012

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DC6-A218-LA 00

WO Date Due:	12/21/2012 00:00 (2 day TAT)	Tracking No:	
Received By:	Erica McNally	Date Received:	12/19/2012 07:40
Logged In By:	Erica McNally	Date Logged In:	12/19/2012 07:40

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 5 C

Analysis	Analysis Due Date	Hold Time
1212062-01 S-015-4854-001 [Solid] Sampled 12/18/2012 15:07 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-02 S-015-4854-002 [Solid] Sampled 12/18/2012 15:07 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-03 S-016-3036-001 [Solid] Sampled 12/18/2012 15:22 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-04 S-017-0612-001 [Solid] Sampled 12/18/2012 15:31 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180
1212062-05 S-018-0612-001 [Solid] Sampled 12/18/2012 15:36 Eastern [1 Container]		
Lead ICP	6/16/2013 12:00:00AM	180

Reviewed By _____ Date _____

USEPA Contract No. EP-W-06-072
Hand delivered: 12/18/12
CarrierName:

CHAIN OF CUSTODY RECORD
Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121812-160345-0017
Lab: DESA
Lab Contact: John Birri
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
121262-01	S-015-4854-001	S-015	12/18/2012	Soil	15:07	1	4 oz glass jar	Lead	4 C	Y
-02	S-015-4854-002	S-015	12/18/2012	Soil	15:07	1	4 oz glass jar	Lead	4 C	N
-03	S-016-3036-001	S-016	12/18/2012	Soil	15:22	1	4 oz glass jar	Lead	4 C	N
-04	S-017-0612-001	S-017	12/18/2012	Soil	15:31	1	4 oz glass jar	Lead	4 C	N
-05	S-018-0612-001	S-018	12/18/2012	Soil	15:36	1	4 oz glass jar	Lead	4 C	N
12/19/12										

A. M. 12/18/12

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	12/18/12	Eric McKelly	12/19/12	0740						

Hand delivered on ice
5.1°C CEB 12/19/12

REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

PROJECT NO. 1212042 SITE NAME Jewett White SAMPLE RECEIPT DATE _____

(WO 1212042)

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
ICP	EPA IRIS-5	48		
	B1212042/S1212047			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212042	Analysis Lead ICP	Matrix Solid

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	WR	12/13/2012
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	WR	12/13/2012
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	WR	12/13/2012
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	WR	12/13/2012
ICB < Reporting Limit?	YES	WR	12/13/2012
RL Low Level recovery ±30%?	YES	WR	12/13/2012
2RL Low Level Recovery ±30%?	YES	WR	12/13/2012
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	WR	12/13/2012
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	WR	12/13/2012
CCBs < Reporting Limit?			12/30/1899
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	WR	12/13/2012
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	WR	12/13/2012
Blank data		Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212042	Analysis Lead ICP	Matrix Solid

Prep Blank < Reporting Limit?	YES	*	WR	12/13/2012
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		WR	12/13/2012
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	WR	12/13/2012
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	WR	12/13/2012
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	NO	*	WR	12/13/2012
Matrix Spike Recovery for Lead (-108%) was outside acceptance limits (75-125) in B212088-MS1 for Lead ICP. Sample concentration > 1X the spike level.				
If no, is analyte concentration > 1.0 X the spike concentration?	YES		WR	12/13/2012
RPD between the MS & Serial Dilution < 10%?	YES	*	WR	12/13/2012
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		WR	12/13/2012
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	WR	12/13/2012
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	YES		WR	12/13/2012
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		WR	12/13/2012
Instrument Analysis Log Book entries completed?	YES		WR	12/13/2012

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212042	Analysis Lead ICP	Matrix Solid

Percent Solids Log Book info entries completed?	YES		WR	12/13/2012
pH Log Book Log Book info entries completed?	NA		WR	12/13/2012

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	WR	12/13/2012
Peer reviewed? Date and person responsible.	YES	*	JB	12/13/2012

* = Automated Response from Promium

Project:Jewett White Lead - 1212042
Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-001-4248-001				**Sample ID: 1212042-01**	
Metals ICP					
Lead	210		0.76	mg/kg dry	B212088
Field ID: DRAFT: S-001-4248-002				**Sample ID: 1212042-02**	
Metals ICP					
Lead	240		0.75	mg/kg dry	B212088
Field ID: DRAFT: S-002-1824-001				**Sample ID: 1212042-03**	
Metals ICP					
Lead	270		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-003-1218-001				**Sample ID: 1212042-04**	
Metals ICP					
Lead	630		0.85	mg/kg dry	B212088
Field ID: DRAFT: S-004-7884-001				**Sample ID: 1212042-05**	
Metals ICP					
Lead	1600		0.74	mg/kg dry	B212088
Field ID: DRAFT: S-005-4854-001				**Sample ID: 1212042-06**	
Metals ICP					
Lead	480		0.79	mg/kg dry	B212088
Field ID: DRAFT: S-006-1824-001				**Sample ID: 1212042-07**	
Metals ICP					

Project:Jewett White Lead - 1212042
Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units	Batch
Field ID: DRAFT: S-006-1824-001				**Sample ID: 1212042-07**	
Metals ICP					
Lead	790		0.77	mg/kg dry	B212088
Field ID: DRAFT: S-007-3642-001				**Sample ID: 1212042-08**	
Metals ICP					
Lead	590		0.79	mg/kg dry	B212088

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

DRAFT: Metals ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B212088									
Blank (B212088-BLK1)									
Lead	--- U	0.080	mg/kg wet						
Matrix Spike (B212088-MS1)	**Source: 1212042-01**								
Lead	195	0.74	mg/kg dry	18.39	215	NR	75-125		
Matrix Spike Dup (B212088-MSD1)	**Source: 1212042-01**								
Lead	200	0.74	mg/kg dry	18.39	215	NR	75-125	2.70	10
Reference (B212088-SRM1)									
Lead	79.5	0.74	mg/kg wet	76.90		103	81.3-118.7		
Reference (B212088-SRM2)									
Lead	77.0	0.75	mg/kg wet	76.90		100	81.3-118.7		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212042

Printed: 12/12/2012 10:35:54AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/14/2012

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 12 T 02P-303DD2-A218-LA 00

CB 12/12/12

WO Date Due: 12/14/2012 00:00 (2 day TAT)
Received By: Erica McNally
Logged In By: Erica McNally
Tracking No:
Date Received: 12/12/2012 08:50
Date Logged In: 12/12/2012 09:08

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler at Temp of 2 C

Analysis	Analysis Due Date	Hold Time
1212042-01 S-001-4248-001 [Solid] Sampled 12/11/2012 15:19 Eastern [2 Containers]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-02 S-001-4248-002 [Solid] Sampled 12/11/2012 15:19 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-03 S-002-1824-001 [Solid] Sampled 12/11/2012 15:22 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-04 S-003-1218-001 [Solid] Sampled 12/11/2012 15:25 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-05 S-004-7884-001 [Solid] Sampled 12/11/2012 15:30 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1212042

Printed: 12/12/2012 10:35:54AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 12/14/2012

Analysis	Analysis Due Date	Hold Time
1212042-06 S-005-4854-001 [Solid] Sampled 12/11/2012 15:33 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-07 S-006-1824-001 [Solid] Sampled 12/11/2012 15:38 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180
1212042-08 S-007-3642-001 [Solid] Sampled 12/11/2012 15:40 Eastern [1 Container]		
Lead ICP	6/9/2013 12:00:00AM	180

Reviewed By

Date

USEPA Contract No. EP-W-06-072
DateShipped: 12/11/2012
CarrierName: Hand Delivered

CHAIN OF CUSTODY RECORD
Jewett White Lead Site
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-121112-111616-0008
Lab: EPA DESA Laboratories
Lab Contact: John Birn
Lab Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
121042-01	S-001-4248-001	S-001	12/11/2012	Soil	15:19	(*) 1	4 oz glass jar	Lead	4 C	Y
-02	S-001-4248-002	S-001	12/11/2012	Soil	15:19	1	4 oz glass jar	Lead	4 C	N
-03	S-002-1824-001	S-002	12/11/2012	Soil	15:22	1	4 oz glass jar	Lead	4 C	N
-04	S-003-1218-001	S-003	12/11/2012	Soil	15:25	1	4 oz glass jar	Lead	4 C	N
-05	S-004-7884-001	S-004	12/11/2012	Soil	15:30	1	4 oz glass jar	Lead	4 C	N
-06	S-005-4854-001	S-005	12/11/2012	Soil	15:33	1	4 oz glass jar	Lead	4 C	N
-07	S-006-1824-001	S-006	12/11/2012	Soil	15:38	1	4 oz glass jar	Lead	4 C	N
-08	S-007-3642-001	S-007	12/11/2012	Soil	15:40	1	4 oz glass jar	Lead	4 C	N

EMH 12/12/12

(*) 1 containers indicated on coc. 2 containers received by lab EMH 12/12/12

A. Mallon 12/11/12

Special Instructions:

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Mallon	12/11/12	Erica Mehaffey	12/12/12	0850						

Received, on ice, hand-delivered

Cooler = 2.1°C EMH 12/12/12

revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	
Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218
State:	NY	Action Code:	Removal - RV	Start:	~~10/3/2012~~ 12/10/12
				Finish:	~~11/3/2012~~ 1/3/13

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ● After 1600 Hrs

EPA Project Manager:		Analytical Services Requestor:		Proposed Shipping Dates:	
First Name:	Mark	First Name:	Smita	Start:	~~10/3/2012~~ 12/10/12
Last Name:	Gallo	Last Name:	Sumbaly	Finish:	~~11/3/2012~~ 1/3/13
		Phone #:	7325854410		
		Organization:	RST 2	Saturday Delivery?	☐ Yes

EPA Approved QAPP?:	☐ Yes	Oversight/Split Sampling?: (e.g. PRP/Fed Facility)	☐ Yes	Labs Used: (PRP/FF)	
Date of QAPP Approval:	not approved				

E-mail for Lab Assignments:	E-mail for Data:	Address for Hard Copy:
S.Sumbaly@westonsolutions.com	S.Sumbaly@westonsolutions.com	Weston Solutions, Inc.
Brittney.Kelly@westonsolutions.com	Brittney.Kelly@westonsolutions.com	1090 King Georges Post Road
		Edison, New Jersey 08837

Contaminants of Concern (if known):	Lead
Known Hazardous Waste Constituents:	

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Pinn 1/27/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	E.M.A
150		Air	Total Lead	14 days	SW 846 Method No. 7082	—

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for R&CC use only **

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		**Date Received by RSCC:**		**Date Cancelled:**	

Site Name: Jewett White Lead Site
City/Town: Staten Island
State: NY

CERCLIS ID: NYD980531545
Op Unit: 00 **Site Spill ID:** A218
Action Code: Removal - RV

Sampling Dates:
Start: ~~10/3/2012~~ 10/15/12
Finish: ~~11/2/2012~~ 11/30/12

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:
First Name: Mark 908-420-1765
Last Name: Gallo

Analytical Services Requestor:
First Name: Smita
Last Name: Sumbaly
Phone #: 7325854410
Organization: RST 2

Proposed Shipping Dates:
Start: ~~10/2/2012~~ 10/15/12
Finish: ~~11/2/2012~~ 11/30/12

Saturday Delivery? ☐ Yes

EPA Approved QAPP?: ☐ Yes
Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used:
(PRP/FF)

E-mail for Lab Assignments:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

E-mail for Data:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com
GALLO.MARK@EPA.GOV

Address for Hard Copy:
Weston Solutions, Inc.
1090 King Georges Post Road
Edison, New Jersey 08837

Contaminants of Concern (If known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):
24 48 hours turnaround time require for the air samplespreliminary data and 24 hours TAT for the soil samples preliminary data → 48
14 days TAT for validated data package require.
approximately 10 soils samples will be submitted per day. → MAXIMUM

10/3/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW.# / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EPA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S212047

Instrument: Thermo Iris Intrepid

Printed: 12/13/2012 3:17:47PM

Project Name	Lab Number	Analysis	STD ID
	S212047-CAL1	QC	D2I2024
	S212047-CAL2	QC	D2I2023
	S212047-CAL3	QC	D2J0304
	S212047-ICV1	QC	D2J0905
	S212047-ICB1	QC	D2I2024
	S212047-LCV1	QC	D2J0906
	S212047-LCV2	QC	D2J0907
	S212047-IFA1	QC	D2J2402
	B212088-BLK1	QC	
	B212088-SRM1	QC	
	B212088-SRM2	QC	
Jewett White Lead - 1212042	1212042-01	Lead ICP	
	B212088-MS1	QC	
	B212088-MSD1	QC	
Jewett White Lead - 1212042	1212042-02	Lead ICP	
Jewett White Lead - 1212042	1212042-03	Lead ICP	
Jewett White Lead - 1212042	1212042-04	Lead ICP	
	S212047-CCV1	QC	D2J0905
	S212047-CCB1	QC	D2I2024
Jewett White Lead - 1212042	1212042-05	Lead ICP	
Jewett White Lead - 1212042	1212042-06	Lead ICP	
Jewett White Lead - 1212042	1212042-07	Lead ICP	
Jewett White Lead - 1212042	1212042-08	Lead ICP	
	S212047-CCV2	QC	D2J0905
	S212047-CCB2	QC	D2I2024
	S212047-CCV3	QC	D2J0905
	S212047-CCB3	QC	D2I2024
	S212047-LCV3	QC	D2J0906
	S212047-LCV4	QC	D2J0907
	S212047-IFA2	QC	D2J2402

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # ✓ C-109 ____ DW-5 File: 12/3/12

Project Name	Project Number	Sample Numbers	Scan Type
Jewett White	1212042	1212042-01 to 12/2042-08	Pb

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Tl, V, Zn
SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn
TCLP : Ag, As, Ba, Cd, Cr, Pb, Se **METALS FINISHING:** Ag, Cd, Cr, Cu, Ni, Pb, Zn

Promium Batch #	Promium Sequence #	Method
B212088	S212047	EPA-ICP-P / _____
		EPA-ICP-P / _____

Torch Cleaned (Y) / N	
Pump Tubing Changed Y / (N)	

Comments:

Date of Analysis: 12/13/12 Signature of Analyst(s): Walter Right

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212088

Prepared by: WR
Prepared on: 12/12/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D1J1809	HCL, Concentratred	10/13/2016
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1212042-01	NA	29	Yes	0.6165	50					
	1212042-02	NA	29	Yes	0.6201	50					
	1212042-03	NA	29	Yes	0.6462	50					
	1212042-04	NA	29	Yes	0.5813	50					
	1212042-05	NA	29	Yes	0.6506	50					
	1212042-06	NA	29	Yes	0.5995	50					
	1212042-07	NA	29	Yes	0.6024	50					
	1212042-08	NA	29	Yes	0.6149	50					
	B212088-BLK1	NA	29	Yes	5	50					
	B212088-MS1	NA	29	Yes	0.6369	50	D2K2820	40	D2K2822	1000	1212042-01
	B212088-MSD1	NA	29	Yes	0.6369	50	D2K2820	40	D2K2822	1000	1212042-01
	B212088-SRM1	NA	29	Yes	0.5375	50	D2F0423	537.5			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212088

Prepared by: WR
Prepared on: 12/12/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D1J1809	HCL, Concentratred	10/13/2016
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID		Balance		Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
	B212088-SRM2	NA	29	Yes	0.5309	50	D2F0423	530.9			

Comments:

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
	Ag 328.068 {102}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999968	OK.
	Al 396.152 { 85}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	1.000000	OK.
	As 189.042 {177}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999989	OK.
	B 208.959 {161}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999972	OK.
	Ba 455.403 { 74}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999934	OK.
	Be 313.107 {107}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999956	OK.
	Ca 317.933 {105}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999998	OK.
	Cd 214.438 {157}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999965	OK.
	Co 228.616 {147}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999961	OK.
	Cr 205.552 {163}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999985	OK.
	Cu 324.754 {103}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999984	OK.
	Fe 259.940 {129}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999853	OK.
	Fe 259.940 {129}2	12/13/2012 10:04:29	Linear	1/Conc	1.000000	1.000000	OK.
	K 766.491 { 44}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999994	OK.
	Mg 279.079 {120}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999999	OK.
	Mg 285.213 {117}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999997	OK.
	Mn 257.610 {130}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999942	OK.
	Mo 202.030 {166}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999983	OK.
	Na 589.592 { 57}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999947	OK.
	Ni 231.604 {145}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999973	OK.
	Pb 220.353 {152}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999976	OK.
	Sb 206.833 {162}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999993	OK.
	Se 196.090 {171}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999986	OK.
	Si 251.612 {133}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999990	OK.
	Sn 189.989 {176}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999988	OK.
	Sr 407.771 { 82}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999972	OK.
	Ti 334.941 {100}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999962	OK.
	Tl 190.864 {176}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	1.000000	OK.
	V 292.402 {115}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	1.000000	OK.
	Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 360.073 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 361.105 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Zn 206.200 {163}	12/13/2012 10:04:29	Linear	1/Conc	1.000000	0.999914	OK.

	Blank	Mid Std	High Std	S212047-ICV1	S212047-ICB1	S212047-LCV1	S212047-LCV2	S212047-IFA1	Rinse
	13 Dec 2012 09:46:14	13 Dec 2012 09:52:28	13 Dec 2012 09:58:31	13 Dec 2012 10:04:33	13 Dec 2012 10:10:39	13 Dec 2012 10:16:50	13 Dec 2012 10:23:01	13 Dec 2012 10:29:13	13 Dec 2012 10:35:31
Ag3280	-0.0002	0.059	0.1162	200.5	0.0707	4.785	11.23	0.4277	0.0881
Al3961	0.0002	0.2269	0.4541	4987	-20.54	120.9	208.9	298100	22.95
As1890	-0.0002	0.0288	0.0572	198.3	-0.9794	8.812	15.81	-0.4301	-0.993
B2089	0.0003	0.1153	0.2268	200.6	0.6014	12.71	24.17	-2.694	0.5651
Ba4554	0.0054	1.423	2.912	195.2	0.6144	105.3	207.2	0.6758	0.2175
Be3131	0.0007	0.8046	1.641	195	-0.1418	2.895	6.187	0.0183	-0.0532
Ca3179	0.004	0.1652	0.325	4995	16.62	532	1004	280400	18.19
Cd2144	0.0002	0.6307	1.239	203.3	0.003	3.672	7.268	1.375	-0.0293
Co2286	-0.0002	0.381	0.7481	202.7	0.0068	23.71	46.7	-2.946	-0.006
Cr2055	-0.0006	0.2813	0.5566	202.4	0.0875	5.974	11.67	1.646	0.0409
Cu3247	0.0012	0.0911	0.1789	200.7	-1.254	10.38	20.62	-4.108	-0.7516
Fe2599A	-0.0001	0.2833	0.5466	5092	2.495	55.89	108.8	204300	19
Fe2599R	0.0008	0.1325	0.2647	5023	-28.82	F 17.08	101.9	272000	9.67
K7664	0.0082	0.1248	0.2397	4823	-6.493	585.5	1066	-492.6	-133.9
Mg2790	0.0001	0.0276	0.0552	4930	-92.69	568.6	1109	304000	79.02
Mg2852	-0.0003	0.2268	0.4517	5002	11.9	524.7	1073	258400	34.51
Mn2576	0.0001	0.1471	0.2874	201.4	0.0157	5.676	11.33	0.5917	-0.1092
Mo2020	0.0006	0.2056	0.4056	202.6	0.1601	10.88	21.09	-1.657	-0.1406
Na5895	0.0407	1.001	2.005	4941	12.52	1043	2047	301200	88.88
Ni2316	-0.0001	0.1992	0.3923	202.8	-0.0872	21.01	41.41	-7.262	-0.0324
Pb2203	0	0.0394	0.0776	199.8	-0.3339	8.857	16.84	-0.2726	-0.0987
Sb2068	0	0.0348	0.069	200.3	-0.4553	21.11	42.05	3.694	-0.3092
Se1960	0.0004	0.0311	0.0611	199.1	-0.2257	19.78	42.02	0.8983	-0.1003
Si2516	0.0001	0.0282	0.0568	4954	51.04	595.1	1081	-112.6	-5.483
Sn1899	0.0001	0.0375	0.0741	201.2	0.4328	11.25	20.7	1.663	0.1446
Sr4077	0.001	3.303	6.712	197.7	-0.0325	11.67	22.42	-3.787	-0.2003
Ti3349	0.0003	0.2692	0.5284	200.6	-0.1235	10.11	20.16	-3.314	0.0254
Tl1908	-0.0006	0.0233	0.0471	196.6	0.321	18.16	39.67	-8.026	0.6494
V2924	-0.0002	0.0283	0.0567	198.4	0.0363	21.02	42.44	4.282	-0.8614
Zn2062	-0.0001	0.4063	0.7904	205.1	-0.0747	24.25	44.08	2.127	0.1161
Y2243A	369.09	372.11	373.71	371.17	363.57	360.96	364.61	346.75	371.38
Y3600R	46.972	47.217	47.42	47.155	46.393	45.881	46.185	46.971	45.768
Y3611A	983.69	1015.4	1017.5	1020.4	1014.6	998.54	994.55	969.4	1023.4

	B212088-BLK1	B212088-SRM1	B212088-SRM2	1212042-01	B212088-MS1	B212088-MSD1	1212042-02	1212042-03	1212042-04	S212047-CCV1	S212047-CCB1
	13 Dec 2012 10:41:38	13 Dec 2012 10:47:44	13 Dec 2012 10:53:45	13 Dec 2012 10:59:47	13 Dec 2012 11:05:52	13 Dec 2012 11:12:06	13 Dec 2012 11:18:09	13 Dec 2012 11:24:24	13 Dec 2012 11:30:40	13 Dec 2012 11:36:56	13 Dec 2012 11:43:01
Ag3280	0.228	F 18.25	F 12.11	12	245	253	46.19	56	69.7	202.1	-0.1445
Al3961	0.1023	F 2293.	F 1544.	16800	94120	95110	65520	80450	39390	5189	-12.85
As1890	0.8166	F 73.39	F 36.88	19.34	272.2	274	87.94	68.63	142.3	201.6	-0.1114
B2089	0.5264	F 35.00	F 17.55	4.408	230.7	237.2	20.03	28.48	34.89	202.2	0.422
Ba4554	-0.0688	F 68.29	F 46.18	129.8	570.6	580.8	458.2	1121	846	203.2	0.3557
Be3131	-0.1063	F 37.25	F 24.65	0.7821	201.1	203.6	3.32	4.318	2.703	197.2	-0.0511
Ca3179	79.54	F 2495.	F 1681.	4487	17640	17980	19360	56940	178900	5186	-8.732
Cd2144	0.8004	F 44.82	^F *****	1.329	197	203.2	1.833	1.935	6.871	203.4	0.0272
Co2286	0.0494	F 55.71	^F *****	47.28	269.7	277.6	61.03	67.97	68.58	204.2	0.0414
Cr2055	0.3832	F 49.77	^F *****	22.35	338.2	347.9	135.3	120.9	131.8	205.7	-0.0234
Cu3247	1.813	F 43.25	F 27.72	64.7	415.9	421.1	341.7	623.2	762.4	205.2	0.9359
Fe2599A	8.152	sF 4235.	sF 2868.	46500	157000	204100	154100	139800	109100	5196	8.545
Fe2599R	-18.38	F 4095.	F 2731.	50880	198400	207300	189200	168900	124200	5027	-6.949
K7664	113.9	F 930.1	F 622.5	1098	12400	12550	4302	5342	5471	4959	-46.27
Mg2790	-56.15	F 909.6	F 623.7	5476	30400	30510	21430	29750	129200	5005	-86.16
Mg2852	1.5	F 876.4	F 597.3	5264	30420	31070	21550	29930	124400	5147	1.75
Mn2576	0.1991	F 129.5	F 85.40	1886	2585	2761	2664	3891	2176	201.7	0.1235
Mo2020	-0.3108	F 27.95	F 13.98	2.502	203.1	204.6	4.3	4.765	13.56	204.5	-0.0969
Na5895	173.7	F 110.6	F 72.41	-19.2	5475	5362	292.6	837.6	1002	5117	5.975
Ni2316	1.048	F 30.21	F 15.74	26.53	336.5	341.9	135.4	144.7	685.7	205.9	0.1478
Pb2203	6.291	F 33.30	F 17.35	385.5	2120	2178	2527	2967	5948	203.1	-0.3218
Sb2068	0.0304	88.72	44.06	11.13	230.3	235.4	31.86	9.007	20.06	203.9	0.5967
Se1960	-0.1817	F 55.51	F 27.32	-2.411	183.7	186.4	-1.515	0.363	5.337	199.5	2.124
Si2516	-0.2069	307.8	199.1	1928	16070	17990	7976	6607	7456	5064	61.46
Sn1899	0.4553	F 61.53	F 32.23	7.975	222.1	227.8	36.04	50.19	97.87	203.9	0.8922
Sr4077	-0.1352	F 43.76	F 29.96	32.11	330	332.1	134.7	303.6	341.6	206.3	-0.0979
Ti3349	0.0813	s 55.29	F 35.99	s 226.0	1191	1272	969.7	1179	1411	199.8	0.0139
Tl1908	0.3066	F 86.01	F 43.18	18.29	193	192.9	-7.71	-3.746	-3.216	196	0.6467
V2924	0.0055	F 33.55	F 21.99	54.47	423.4	445.7	199.9	253.4	181.4	204.1	0.3148
Zn2062	4.005	F 122.3	^F *****	^ *****	848.2	907.9	1089	863.7	5195	202.7	0.0685
Y2243A	370.71	629.26	732.57	769.52	353.76	351.94	351.51	356.41	343.94	358.41	328.41
Y3600R	47.108	75.875	82.698	84.457	45.447	44.369	46.086	47.154	45.314	44.667	41.741
Y3611A	1016.1	1653.1	1894.5	1819.9	998.1	970.93	992.78	1010.3	983.69	984.97	914.46

	1212042-05	1212042-06	1212042-07	1212042-08	S212047-CCV2	S212047-CCB2	B212088-SRM1	B212088-SRM1	1212042-01	S212047-CCV3	S212047-CCB3	S212047-LCV3	S212047-LCV4	S212047-IFA2
	13 Dec 2012 11:49:11	13 Dec 2012 11:57:41	13 Dec 2012 12:03:57	13 Dec 2012 12:10:11	13 Dec 2012 12:16:27	13 Dec 2012 12:22:33	13 Dec 2012 12:29:08	13 Dec 2012 12:36:22	13 Dec 2012 12:43:21	13 Dec 2012 12:51:13	13 Dec 2012 12:59:29	13 Dec 2012 13:05:24	13 Dec 2012 13:11:35	13 Dec 2012 13:17:46
Ag3280	55.32	98.74	128	90.81	213.5	0.2437	49.18	48.09	43.87	214.2	0.0451	5.486	11.4	-0.4743
Al3961	56300	98320	59190	51030	W 5535.	-24.62	6884	6573	68750	W 5543.	-11.25	105	252.4	361100
As1890	78.48	62.35	173.1	489.3	208.7	-0.4882	182.6	176.4	87.62	210.4	0.1165	8.173	18.54	-1.03
B2089	24.76	21.66	102.3	44.77	210.9	0.6066	88.88	86.52	21.84	211.6	0.6537	F 14.46	F 27.05	-3.061
Ba4554	1394	753.7	1045	995.1	217.6	-0.2368	213.6	207	560.7	216.9	-0.0787	118.6	236.6	0.5317
Be3131	2.674	4.229	1.635	2.708	207.1	-0.1866	113.3	108.1	3.502	204.9	0.1396	2.878	6.003	0.4205
Ca3179	27610	32030	274400	137100	5498	31.83	7315	7034	18030	W 5512.	-15.57	576.8	1172	335700
Cd2144	6.521	2.753	12.56	10.05	211.7	-0.0383	103.7	102.1	1.583	213.6	0.029	F 3.974	F 7.896	1.444
Co2286	52.15	75.01	73.32	71.02	212.2	-0.0771	134.5	131.4	269.4	212.7	-0.0196	25.6	51.03	-3.361
Cr2055	110.8	143.2	151.5	160.1	214.2	0.0161	123.8	119.4	123	216.3	0.0559	6.421	12.75	1.864
Cu3247	2292	325.8	948.4	1009	219.2	0.7285	128.4	125.2	338.2	W 220.2	1.015	12.68	24.16	-2.095
Fe2599A	191100	141400	145100	152700	W 5519.	8.737	10480	10220	162200	W 5591.	10.93	63.33	120.8	235800
Fe2599R	251100	167000	167200	181500	5312	2.908	11700	11060	195100	5225	-20.49	60.17	92.22	310300
K7664	3846	6311	6297	7087	5143	4.979	2746	2639	4656	5249	-18.78	608.9	1209	-459
Mg2790	20690	24180	136800	72340	5422	-52.5	2489	2383	20770	5324	-85.67	597.1	1216	348900
Mg2852	21120	24730	132600	72480	5469	-2.127	2571	2478	21130	5460	-5.032	593.5	1203	304600
Mn2576	1674	1867	3157	2156	212	-0.0059	333.2	321.4	7267	213.1	0.0834	6.272	12.32	0.3781
Mo2020	4.197	5.855	11.43	19.63	213.2	0.0711	70.28	67.57	4.918	214.2	0.1101	11.66	23.28	-2.011
Na5895	2678	726.3	1544	1277	5465	3.481	353.8	346.2	281.3	5390	8.397	1157	2290	362100
Ni2316	117.3	124.7	294.7	426.7	215.4	-0.3009	74.09	72.54	153.7	218.1	0.0564	22.84	45.73	-8.72
Pb2203	17330	4799	8167	5930	210	0.0775	79.54	77.02	2262	210.6	0.4277	8.441	18.35	1.586
Sb2068	23.08	14.26	30.21	29.8	213	-0.702	225.3	216.4	40.1	214.7	-0.1768	24.64	47.94	4.436
Se1960	0.1083	-1.336	6.376	7.457	208.8	1.423	137.9	130.4	0.2945	210.6	0.7251	22.95	45.85	-1.624
Si2516	7025	7435	7441	7731	5249	-67.68	963.4	885.2	7807	5267	48.67	551.7	1146	-197.2
Sn1899	257.2	32.76	115.7	107.9	211.2	0.7005	147.9	146.2	36.23	210.6	0.3769	12.06	23.22	1.939
Sr4077	176.4	400.8	499.1	467.1	W 222.1	0.0082	137.8	134.3	139	W 221.1	-0.1167	12.95	25.62	-4.995
Ti3349	1095	1900	2451	1754	210.2	0.0243	149.3	143.8	934.2	209.6	-0.0941	10.91	21.67	-3.814
Tl1908	-11.1	-6.52	-5.473	-6.493	204.5	-1.242	212.5	206.9	1.539	205.6	-0.1947	18.3	43.44	-13.69
V2924	196.5	248.1	301	240.5	217.7	-0.5246	91.41	88.23	219.9	W 220.5	-0.9973	23.42	48.47	7.327
Zn2062	2784	1365	7325	5707	209.7	0.0088	268.4	261.7	742.5	208.8	0.0732	24.35	47.08	4.5
Y2243A	345.7	353.02	333.88	338.64	346.4	334.09	345.84	346	354.41	347.09	335.15	338.23	337.87	305.83
Y3600R	45.119	45.942	44.793	44.379	42.457	41.947	44.435	45.187	44.337	41.99	42.409	41.721	41.668	40.439
Y3611A	976.13	992.57	945.64	945.49	943.41	927.74	970.15	972.76	972.87	939.79	929.78	933.37	926.12	858.06

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD
		Lower	Upper	B212088-SRM1	B212088-SRM1			
				13 Dec 2012 12:29:08	13 Dec 2012 12:36:22			
Silver	42.3	28.1	56.6	49.2	48.1	48.6	115.0%	2.24%
Aluminum	9310	4470	14200	6884	6573	6729	72.3%	4.62%
Arsenic	168	140	197	182.6	176.4	179.5	106.8%	3.45%
Boron	85	66	104	88.9	86.5	87.7	103.1%	2.69%
Barium	213	177	249	213.6	207.0	210.3	98.7%	3.14%
Beryllium	110.0	92.6	128	113.3	108.1	110.7	100.6%	4.70%
Calcium	6870	5700	8040	7315.0	7034.0	7174.5	104.4%	3.92%
Cadmium	103	86	119	103.7	102.1	102.9	99.9%	1.55%
Cobalt	131.0	109.0	153	134.5	131.4	133.0	101.5%	2.33%
Chromium	119.0	97.1	140	123.8	119.4	121.6	102.2%	3.62%
Copper	118.0	96.3	139	128.4	125.2	126.8	107.5%	2.52%
Iron 2599 A	13000	6560	19400	10480.0	10220.0	10350.0	79.6%	2.51%
Iron 2599 R	13000	6560	19400	11700.0	11060.0	11380.0	87.5%	5.62%
Potassium	3130	2270	3980	2746.0	2639.0	2692.5	86.0%	3.97%
Magnesium 2790	2780	2110	3450	2489.0	2383.0	2436.0	87.6%	4.35%
Magnesium 2852	2780	2110	3450	2571.0	2478.0	2524.5	90.8%	3.68%
Manganese	338	279	397	333.2	321.4	327.3	96.8%	3.61%
Molybdenum	61.5	41.6	84.8	70.3	67.6	68.9	112.1%	3.93%
Sodium	350	258	441	353.8	346.2	350.0	100.0%	2.17%
Nickel	70.0	57.2	82.7	74.1	72.5	73.3	104.7%	2.11%
Lead	76.9	62.5	91.3	79.5	77.0	78.3	101.8%	3.22%
Antimony	120	20	263	225.3	216.4	220.9	184.0%	4.03%
Selenium	126	101	152	137.9	130.4	134.2	106.5%	5.59%
Silicon	not evaluated			963.4	885.2	924.3	#VALUE!	8.46%
Tin	142	112	172	147.9	146.2	147.1	103.6%	1.16%
Strontium	133	108	158	137.8	134.3	136.1	102.3%	2.57%
Titanium	219	38	401	149.3	143.8	146.6	66.9%	3.75%
Thallium	208	169	247	212.5	206.9	209.7	100.8%	2.67%
Vanadium	87.1	67.6	107	91.4	88.2	89.8	103.1%	3.54%
Zinc	276	227	325	268.4	261.7	265.1	96.0%	2.53%

Manual Calculation

sample #

analyte

$$\text{result Mg/Kg} = \frac{\text{instrument result X dilution factor X Volume in L}}{\text{weight of sample X (\% solids/100)}}$$

$$\text{result Mg/Kg} = \frac{2262 \times 1 \times 0.05}{0.6165 \times (85.39 / 100)}$$

$$\text{result Mg/Kg} = \frac{113.1}{0.5264}$$

result Mg/Kg = 214.856

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1212042		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			12/12/2012	Time:	2:23 PM	
	Date removed from oven at 103-105degC:			12/13/2012	Time:	8:41 AM	
	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1212042-01	0.9426	8.0037	6.9724	85.39%	14.61%	
1D	1212042-01	0.9414	8.0567	7.0098	85.29%	14.71%	
2	1212042-02	0.9382	8.1040	7.1224	86.30%	13.70%	
3	1212042-03	0.9380	8.4393	7.2247	83.81%	16.19%	
4	1212042-04	0.9368	8.3305	6.9352	81.13%	18.87%	
5	1212042-05	0.9361	8.4609	7.1769	82.94%	17.06%	
6	1212042-06	0.9335	8.1658	7.0269	84.25%	15.75%	
7	1212042-07	0.9347	8.8749	7.7721	86.11%	13.89%	
8	1212042-08	0.9367	8.5103	7.1412	81.92%	18.08%	
9					#DIV/0!	#DIV/0!	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
						RPD<20%	RPD<20%
				85.34%	14.66%	0.13%	0.74%
	*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
	PERCENT = SOLIDS	(C - A) / (B - A)	(*100)	PERCENT = MOISTURE	(B - C) / (B - A)	(*100)	

Analyst: [signature]
Date: 12/13/12

Checked by: [signature]
Date Checked: 12/13/12

WR 12/13/12 Data Not used

Sample Name: B212088-SRM1 Acquired: 12/13/2012 10:47:44 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **18.25**	F **2293.**	F **73.39**	F **35.00**	F **68.29**	F **37.25**	F **2495.**	F **44.82**
Stddev	4.72	441.	24.95	11.92	13.16	7.27	475.	14.06
%RSD	25.87	19.25	34.00	34.06	19.27	19.51	19.03	31.38
#1	23.51	2737.	101.6	48.47	81.68	44.69	2975.	60.71
#2	16.86	2287.	64.46	30.72	67.80	36.87	2485.	39.76
#3	14.38	1854.	54.13	25.80	55.37	30.17	2026.	33.98
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	56.60	14200.	197.0	104.0	249.0	128.0	8040.	119.0
Low Limit	28.10	4470.	140.0	66.20	177.0	92.60	5700.	86.10

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **55.71**	F **49.77**	F **43.25**	sF **4235.**	F **4095.**	F **930.1**	F **909.6**	F **876.4**
Stddev	18.29	16.75	12.25	1020.	786.	181.9	176.0	166.7
%RSD	32.83	33.67	28.32	24.07	19.18	19.56	19.35	19.02
#1	76.39	68.72	56.85	5371.	4892.	1114.	1086.	1045.
#2	49.12	43.67	39.77	s 3937.	4073.	925.6	909.7	871.8
#3	41.63	36.91	33.11	3399.	3321.	750.4	733.5	712.1
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	153.0	140.0	139.0	19400.	19400.	3980.	3450.	3450.
Low Limit	109.0	97.10	96.30	6560.	6560.	2270.	2110.	2110.

Sample Name: B212088-SRM1 Acquired: 12/13/2012 10:47:44 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **129.5**	F **27.95**	F **110.6**	F **30.21**	F **33.30**	**88.72**	F **55.51**	**307.8**
Stddev	32.9	9.50	23.4	10.02	10.77	30.61	18.84	60.1
%RSD	25.40	34.00	21.14	33.17	32.34	34.50	33.93	19.53
#1	166.2	38.70	133.6	41.53	45.47	123.3	76.79	368.9
#2	120.0	24.50	111.2	26.61	29.43	77.64	48.76	305.9
#3	102.5	20.66	86.87	22.48	25.00	65.19	40.98	248.7
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None
High Limit	397.0	84.80	441.0	82.70	91.30		152.0	
Low Limit	279.0	41.60	258.0	57.20	62.50		101.0	

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **61.53**	F **43.76**	s **55.29**	F **86.01**	F **33.55**	F **122.3**
Stddev	20.28	8.43	14.53	28.63	8.71	36.7
%RSD	32.96	19.26	26.27	33.28	25.95	30.00
#1	84.46	52.36	s 71.43	118.3	43.24	163.8
#2	54.23	43.41	s 51.22	75.81	31.05	109.2
#3	45.91	35.51	s 43.24	63.88	26.37	93.99
Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	172.0	158.0		247.0	107.0	325.0
Low Limit	112.0	108.0		169.0	67.60	227.0

Sample Name: B212088-SRM1 Acquired: 12/13/2012 10:47:44 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**629.26**	**75.875**	**1653.1**
Stddev	92.34	7.623	156.0
%RSD	14.674	10.047	9.4354
#1	524.52	69.949	1473.5
#2	664.32	73.202	1730.9
#3	698.92	84.475	1754.9

Sample Name: B212088-SRM2 Acquired: 12/13/2012 10:53:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **12.11**	F **1544.**	F **36.88**	F **17.55**	F **46.18**	F **24.65**	F **1681.**	^F *****
Stddev	2.37	307.	7.63	3.66	9.23	4.92	336.	-----
%RSD	19.61	19.85	20.68	20.86	19.99	19.94	19.98	-----
#1	14.77	1869.	29.92	14.24	56.01	29.89	2038.	^ -----
#2	11.34	1505.	45.03	21.48	44.82	23.91	1633.	^ -----
#3	10.21	1259.	35.69	16.93	37.70	20.14	1371.	^ -----
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	56.60	14200.	197.0	104.0	249.0	128.0	8040.	119.0
Low Limit	28.10	4470.	140.0	66.20	177.0	92.60	5700.	86.10

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	^F *****	^F *****	F **27.72**	sF **2868.**	F **2731.**	F **622.5**	F **623.7**	F **597.3**
Stddev	-----	-----	5.88	534.	546.	120.2	126.5	118.2
%RSD	-----	-----	21.20	18.63	19.98	19.31	20.28	19.78
#1	^ -----	s 20.43	34.30	3468.	3309.	749.3	757.1	723.0
#2	^ -----	^ -----	25.86	s 2694.	2658.	607.7	608.5	580.3
#3	^ -----	^ -----	23.00	2442.	2225.	510.3	505.5	488.5
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	153.0	140.0	139.0	19400.	19400.	3980.	3450.	3450.
Low Limit	109.0	97.10	96.30	6560.	6560.	2270.	2110.	2110.

Sample Name: B212088-SRM2 Acquired: 12/13/2012 10:53:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **85.40**	F **13.98**	F **72.41**	F **15.74**	F **17.35**	**44.06**	F **27.32**	**199.1**
Stddev	16.33	2.99	17.36	3.15	3.48	9.21	5.85	37.7
%RSD	19.12	21.37	23.98	20.01	20.07	20.90	21.39	18.93
#1	103.7	11.20	90.80	12.89	14.23	35.76	21.90	238.2
#2	80.27	17.14	70.11	19.12	21.10	53.96	33.52	196.3
#3	72.26	13.59	56.31	15.21	16.71	42.45	26.55	163.0
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	None
High Limit	397.0	84.80	441.0	82.70	91.30		152.0	
Low Limit	279.0	41.60	258.0	57.20	62.50		101.0	

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **32.23**	F **29.96**	F **35.99**	F **43.18**	F **21.99**	^F *****
Stddev	6.78	5.96	7.13	10.27	4.36	-----
%RSD	21.03	19.91	19.82	23.77	19.82	-----
#1	26.06	36.30	44.00	33.22	26.88	^ -----
#2	39.48	29.10	33.66	53.72	20.58	^ -----
#3	31.15	24.47	30.32	42.61	18.51	^ -----
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	172.0	158.0	401.0	247.0	107.0	325.0
Low Limit	112.0	108.0	37.70	169.0	67.60	227.0

Sample Name: B212088-SRM2 Acquired: 12/13/2012 10:53:45 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**732.57**	**82.698**	**1894.5**
Stddev	50.62	8.186	108.3
%RSD	6.9093	9.8991	5.7159
#1	694.35	76.231	1777.1
#2	713.40	79.961	1916.1
#3	789.97	91.903	1990.4

Sample Name: 1212042-01 Acquired: 12/13/2012 10:59:47 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.00**	**16800.**	**19.34**	**4.408**	**129.8**	**.7821**	**4487.**	**1.329**	**47.28**
Stddev	2.21	807.	6.07	.420	4.4	.3395	205.	2.409	33.27
%RSD	18.42	4.806	31.36	9.520	3.381	43.41	4.578	181.3	70.37
#1	9.620	17260.	12.73	4.483	132.1	.9169	4636.	4.106	9.864
#2	13.99	17270.	24.66	4.785	132.7	1.033	4573.	.0826	73.54
#3	12.39	15870.	20.63	3.956	124.8	.3959	4253.	-.2021	58.44

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.35**	**64.70**	**46500.**	**50880.**	**1098.**	**5476.**	**5264.**	**1886.**	**2.502**
Stddev	12.38	18.37	9615.	2177.	113.	431.	276.	426.	2.734
%RSD	55.40	28.40	20.68	4.279	10.32	7.876	5.252	22.59	109.3
#1	8.601	45.24	36060.	52190.	1138.	5712.	5446.	1434.	5.629
#2	32.62	81.75	54990.	52090.	1186.	5737.	5400.	2280.	1.314
#3	25.83	67.12	48460.	48370.	970.1	4978.	4946.	1944.	.5622

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-19.20**	**26.53**	**385.5**	**11.13**	**-2.411**	**1928.**	**7.975**	**32.11**	**s 226.0**
Stddev	25.19	18.54	317.6	2.06	3.220	114.	.946	.95	52.3
%RSD	131.2	69.88	82.40	18.50	133.5	5.916	11.86	2.963	23.14
#1	1.306	5.707	26.60	13.36	1.187	2017.	7.844	32.71	170.5
#2	-11.58	41.24	630.4	10.75	-3.399	1967.	8.979	32.61	s 274.4
#3	-47.31	32.65	499.5	9.289	-5.022	1799.	7.101	31.01	s 233.1

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.29**	**54.47**	^ *****
Stddev	10.40	12.41	----
%RSD	56.88	22.78	----
#1	30.26	41.39	24.23
#2	13.16	66.07	^ ----
#3	11.44	55.96	^ ----

Sample Name: 1212042-01 Acquired: 12/13/2012 10:59:47 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**769.52**	**84.457**	**1819.9**
Stddev	26.46	14.254	137.3
%RSD	3.4384	16.877	7.5463
#1	793.06	76.201	1959.0
#2	740.88	76.255	1684.4
#3	774.62	100.92	1816.1

Sample Name: Blank Acquired: 12/13/2012 09:46:14 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0002**	**.0002**	**-.0002**	**.0003**	**.0054**	**.0007**	**.0040**	**.0002**	**-.0002**
Stddev	.0000	.0008	.0000	.0001	.0006	.0006	.0004	.0000	.0000
%RSD	8.180	379.0	12.85	42.93	10.81	82.63	9.741	21.37	21.50
#1	-.0002	-.0001	-.0002	.0003	.0048	.0009	.0036	.0001	-.0003
#2	-.0002	-.0004	-.0002	.0003	.0054	.0011	.0043	.0002	-.0002
#3	-.0003	.0011	-.0002	.0001	.0059	.0000	.0042	.0002	-.0002

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**.0012**	**-.0001**	**.0008**	**.0082**	**.0001**	**-.0003**	**.0001**	**.0006**
Stddev	.0001	.0001	.0000	.0009	.0015	.0011	.0006	.0000	.0000
%RSD	8.601	7.197	3.394	113.4	17.73	1158.	178.3	48.97	8.546
#1	-.0007	.0013	-.0001	.0012	.0095	.0011	-.0007	.0001	.0006
#2	-.0006	.0011	-.0002	.0013	.0067	-.0010	.0004	.0001	.0005
#3	-.0007	.0011	-.0002	-.0002	.0084	.0002	-.0007	.0000	.0006

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0407**	**-.0001**	**.0000**	**.0000**	**.0004**	**.0001**	**.0001**	**.0010**	**.0003**
Stddev	.0011	.0001	.000	.000	.0001	.0003	.0000	.0012	.0000
%RSD	2.809	93.72	750.1	2276.	22.56	262.4	12.84	116.1	16.73
#1	.0412	-.0001	.0001	.0000	.0005	.0005	.0001	.0023	.0002
#2	.0414	-.0002	-.0001	.0000	.0004	.0000	.0001	.0000	.0003
#3	.0394	.0000	.0000	-.0001	.0004	-.0001	.0001	.0008	.0002

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**-.0002**	**-.0001**
Stddev	.0000	.0000	.0000
%RSD	4.892	18.67	44.85
#1	-.0006	-.0002	.0000
#2	-.0006	-.0002	-.0001
#3	-.0006	-.0001	-.0001

Sample Name: Blank Acquired: 12/13/2012 09:46:14 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**369.09**	**46.972**	**983.69**
Stddev	2.78	1.218	7.84
%RSD	.75358	2.5925	.79729
#1	372.21	47.220	980.36
#2	366.89	45.649	992.64
#3	368.15	48.047	978.06

Sample Name: Mid Std Acquired: 12/13/2012 09:52:28 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0590**	**.2269**	**.0288**	**.1153**	**1.423**	**.8046**	**.1652**	**.6307**	**.3810**
Stddev	.0006	.0058	.0001	.0007	.021	.0130	.0021	.0050	.0032
%RSD	.9935	2.539	.4303	.6053	1.508	1.614	1.260	.7945	.8496
#1	.0588	.2322	.0288	.1153	1.440	.8143	.1671	.6287	.3796
#2	.0585	.2278	.0287	.1146	1.431	.8096	.1656	.6270	.3787
#3	.0596	.2208	.0289	.1160	1.399	.7898	.1630	.6364	.3847

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2813**	**.0911**	**.2833**	**.1325**	**.1248**	**.0276**	**.2268**	**.1471**	**.2056**
Stddev	.0018	.0008	.0021	.0019	.0016	.0006	.0044	.0014	.0016
%RSD	.6523	.8287	.7267	1.466	1.279	2.123	1.921	.9672	.7844
#1	.2807	.0905	.2817	.1341	.1263	.0282	.2298	.1461	.2047
#2	.2798	.0908	.2825	.1332	.1251	.0274	.2289	.1464	.2047
#3	.2833	.0919	.2856	.1304	.1231	.0271	.2218	.1487	.2075

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.001**	**.1992**	**.0394**	**.0348**	**.0311**	**.0282**	**.0375**	**3.303**	**.2692**
Stddev	.013	.0013	.0003	.0002	.0002	.0003	.0003	.054	.0024
%RSD	1.317	.6351	.7605	.4919	.6814	1.092	.9250	1.631	.9074
#1	1.012	.1987	.0394	.0348	.0311	.0285	.0373	3.348	.2674
#2	1.006	.1983	.0390	.0346	.0309	.0282	.0372	3.318	.2682
#3	.9865	.2007	.0396	.0350	.0313	.0279	.0379	3.244	.2720

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0233**	**.0283**	**.4063**
Stddev	.0002	.0002	.0044
%RSD	.9701	.5308	1.094
#1	.0230	.0282	.4041
#2	.0233	.0282	.4033
#3	.0235	.0285	.4114

Sample Name: Mid Std Acquired: 12/13/2012 09:52:28 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**372.11**	**47.217**	**1015.4**
Stddev	3.10	.541	12.3
%RSD	.83432	1.1466	1.2069
#1	373.53	46.802	1027.6
#2	374.25	47.019	1015.3
#3	368.55	47.829	1003.1

Sample Name: High Std Acquired: 12/13/2012 09:58:31 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1162**	**.4541**	**.0572**	**.2268**	**2.912**	**1.641**	**.3250**	**1.239**	**.7481**
Stddev	.0015	.0081	.0004	.0016	.047	.027	.0050	.009	.0050
%RSD	1.253	1.783	.6537	.7237	1.601	1.633	1.540	.7530	.6642
#1	.1171	.4630	.0577	.2285	2.964	1.670	.3306	1.250	.7538
#2	.1169	.4523	.0571	.2264	2.897	1.634	.3232	1.237	.7462
#3	.1145	.4471	.0569	.2253	2.874	1.618	.3211	1.231	.7444

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.5566**	**.1789**	**.5466**	**.2647**	**.2397**	**.0552**	**.4517**	**.2874**	**.4056**
Stddev	.0044	.0023	.0061	.0056	.0021	.0019	.0081	.0031	.0028
%RSD	.7816	1.276	1.123	2.125	.8585	3.485	1.794	1.077	.6955
#1	.5616	.1800	.5500	.2707	.2399	.0573	.4610	.2888	.4089
#2	.5550	.1804	.5502	.2640	.2416	.0550	.4479	.2896	.4043
#3	.5534	.1762	.5395	.2595	.2375	.0534	.4462	.2839	.4037

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.005**	**.3923**	**.0776**	**.0690**	**.0611**	**.0568**	**.0741**	**6.712**	**.5284**
Stddev	.030	.0031	.0007	.0004	.0005	.0008	.0005	.111	.0051
%RSD	1.518	.7994	.9008	.5622	.7486	1.401	.7404	1.659	.9673
#1	2.040	.3958	.0784	.0695	.0615	.0577	.0747	6.838	.5307
#2	1.991	.3914	.0773	.0688	.0612	.0566	.0738	6.673	.5319
#3	1.984	.3898	.0771	.0687	.0606	.0562	.0737	6.626	.5225

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0471**	**.0567**	**.7904**
Stddev	.0003	.0006	.0046
%RSD	.5624	1.000	.5860
#1	.0474	.0570	.7956
#2	.0469	.0571	.7889
#3	.0469	.0561	.7867

Sample Name: High Std Acquired: 12/13/2012 09:58:31 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**373.71**	**47.420**	**1017.5**
Stddev	2.02	.723	5.4
%RSD	.53947	1.5250	.52835
#1	371.54	46.615	1018.7
#2	374.07	47.630	1011.6
#3	375.52	48.014	1022.1

Sample Name: S212047-ICV1 Acquired: 12/13/2012 10:04:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**200.5**	**4987.**	**198.3**	**200.6**	**195.2**	**195.0**	**4995.**	**203.3**	**202.7**
Stddev	3.2	80.	.3	1.1	2.5	1.8	75.	.5	.9
%RSD	1.592	1.596	.1724	.5254	1.275	.8979	1.505	.2448	.4240
#1	204.2	4938.	198.2	200.5	194.4	193.5	4998.	203.4	202.5
#2	199.1	5078.	198.6	199.6	197.9	196.9	5069.	202.8	201.9
#3	198.3	4944.	198.0	201.7	193.2	194.6	4919.	203.8	203.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.4**	**200.7**	**5092.**	**5023.**	**4823.**	**4930.**	**5002.**	**201.4**	**202.6**
Stddev	.6	3.4	72.	53.	51.	81.	35.	2.7	.5
%RSD	.3071	1.718	1.423	1.063	1.057	1.634	.7022	1.353	.2530
#1	202.2	204.6	5176.	4968.	4796.	5023.	4983.	204.5	202.1
#2	201.9	199.1	5050.	5075.	4882.	4888.	5043.	199.4	202.4
#3	203.1	198.3	5051.	5028.	4792.	4880.	4980.	200.3	203.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212047-ICV1 Acquired: 12/13/2012 10:04:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4941.**	**202.8**	**199.8**	**200.3**	**199.1**	**4954.**	**201.2**	**197.7**	**200.6**
Stddev	74.	.6	1.4	.4	2.1	62.	.6	2.2	2.4
%RSD	1.492	.2895	.7074	.1894	1.057	1.249	.2796	1.114	1.196
#1	4873.	202.4	198.2	200.4	197.2	4927.	201.2	197.2	203.4
#2	5020.	202.7	200.9	199.9	198.8	5025.	200.6	200.1	198.8
#3	4930.	203.5	200.3	200.6	201.3	4911.	201.7	195.8	199.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**196.6**	**198.4**	**205.1**
Stddev	1.0	3.0	.6
%RSD	.4916	1.492	.3021
#1	197.3	201.8	204.9
#2	197.1	197.0	204.5
#3	195.5	196.3	205.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-ICV1 Acquired: 12/13/2012 10:04:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**371.17**	**47.155**	**1020.4**
Stddev	.76	.358	5.3
%RSD	.20368	.75881	.51610
#1	371.62	47.275	1014.7
#2	371.58	46.752	1025.1
#3	370.29	47.437	1021.5

Sample Name: S212047-ICB1 Acquired: 12/13/2012 10:10:39 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0707**	**-20.54**	**-.9794**	**.6014**	**.6144**	**-.1418**	**16.62**	**.0030**	**.0068**
Stddev	.2980	25.36	.1464	.6137	.1096	.1315	24.08	.0398	.0576
%RSD	421.7	123.4	14.95	102.0	17.83	92.72	144.9	1312.	851.7
#1	.2776	-23.04	-1.097	.3952	.4899	-.1721	12.15	.0011	-.0370
#2	.2052	-44.55	-1.025	1.292	.6964	.0022	42.61	-.0357	-.0148
#3	-.2709	5.975	-.8155	.1174	.6568	-.2555	-4.913	.0438	.0720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0875**	**-1.254**	**2.495**	**-28.82**	**-6.493**	**-92.69**	**11.90**	**.0157**	**.1601**
Stddev	.2153	.370	.102	4.59	36.82	110.2	6.55	.0771	.1157
%RSD	246.2	29.49	4.090	15.94	567.1	118.9	55.03	489.4	72.27
#1	.2351	-.8602	2.494	-24.23	19.54	-192.1	12.92	.0879	.0265
#2	.1869	-1.308	2.597	-33.41	-48.62	-111.8	4.903	-.0655	.2239
#3	-.1596	-1.594	2.393	-28.81	9.602	25.84	17.88	.0249	.2298
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212047-ICB1 Acquired: 12/13/2012 10:10:39 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.52**	**-.0872**	**-.3339**	**-.4553**	**-.2257**	**51.04**	**.4328**	**-.0325**	**-.1235**
Stddev	17.39	.2168	1.354	1.106	.6476	117.7	.7589	.0275	.0906
%RSD	138.9	248.4	405.5	243.0	286.9	230.5	175.3	84.45	73.37
#1	10.87	-.1683	-.9662	.8092	-.7138	11.21	1.309	-.0636	-.0437
#2	30.67	-.2518	1.221	-1.244	.5090	183.4	.0066	-.0224	-.2221
#3	-3.986	.1584	-1.256	-.9308	-.4723	-41.54	-.0172	-.0116	-.1049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.3210**	**.0363**	**-.0747**
Stddev	2.732	.8123	.0875
%RSD	851.2	2237.	117.1
#1	3.468	.8976	-.0731
#2	-1.439	-.0728	.0119
#3	-1.066	-.7159	-.1630
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212047-ICB1 Acquired: 12/13/2012 10:10:39 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**363.57**	**46.393**	**1014.6**
Stddev	3.48	1.032	3.8
%RSD	.95754	2.2236	.37206
#1	359.57	45.949	1013.3
#2	365.94	45.658	1011.7
#3	365.19	47.572	1018.9

Sample Name: S212047-LCV1 Acquired: 12/13/2012 10:16:50 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.785**	**120.9**	**8.812**	**12.71**	**105.3**	**2.895**	**532.0**	**3.672**	**23.71**
Stddev	.389	15.0	.131	.49	2.8	.195	11.6	.108	.33
%RSD	8.135	12.42	1.485	3.854	2.696	6.725	2.171	2.950	1.409
#1	5.096	138.3	8.901	12.96	103.5	2.903	524.6	3.766	24.09
#2	4.910	112.1	8.874	13.01	103.9	2.696	526.0	3.696	23.59
#3	4.349	112.4	8.662	12.14	108.6	3.085	545.3	3.554	23.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.974**	**10.38**	**55.89**	F **17.08**	**585.5**	**568.6**	**524.7**	**5.676**	**10.88**
Stddev	.050	.86	1.04	5.48	57.3	168.2	20.0	.056	.36
%RSD	.8287	8.288	1.865	32.08	9.778	29.59	3.814	.9884	3.316
#1	5.945	11.16	56.36	16.14	651.6	434.8	504.9	5.675	11.29
#2	6.031	10.51	56.62	12.14	554.8	513.5	524.2	5.732	10.74
#3	5.946	9.460	54.70	22.97	550.2	757.4	544.9	5.620	10.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				50.00					
Range				-30.00%					

Sample Name: S212047-LCV1 Acquired: 12/13/2012 10:16:50 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1043.**	**21.01**	**8.857**	**21.11**	**19.78**	**595.1**	**11.25**	**11.67**	**10.11**
Stddev	26.	.36	.704	.78	1.76	93.8	.86	.26	.16
%RSD	2.463	1.706	7.951	3.706	8.908	15.75	7.682	2.267	1.553
#1	1022.	20.97	9.574	20.22	21.82	703.4	12.08	11.54	10.29
#2	1035.	21.39	8.167	21.46	18.76	542.2	11.33	11.50	9.994
#3	1072.	20.67	8.830	21.66	18.77	539.8	10.35	11.98	10.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.16**	**21.02**	**24.25**
Stddev	1.88	.47	.21
%RSD	10.35	2.221	.8757
#1	16.13	21.41	24.42
#2	18.52	21.15	24.32
#3	19.84	20.50	24.01
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-LCV1 Acquired: 12/13/2012 10:16:50 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**360.96**	**45.881**	**998.54**
Stddev	3.53	1.082	10.43
%RSD	.97885	2.3581	1.0449
#1	357.10	46.766	995.97
#2	361.74	46.204	989.64
#3	364.04	44.675	1010.0

Sample Name: S212047-LCV2 Acquired: 12/13/2012 10:23:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.23**	**208.9**	**15.81**	**24.17**	**207.2**	**6.187**	**1004.**	**7.268**	**46.70**
Stddev	.20	24.0	.75	.49	4.0	.701	40.	.034	.62
%RSD	1.803	11.48	4.762	2.010	1.944	11.33	4.005	.4653	1.320
#1	11.46	181.3	16.34	24.48	202.9	5.452	965.8	7.275	46.84
#2	11.08	224.8	14.95	23.61	207.6	6.848	1000.	7.231	46.02
#3	11.15	220.5	16.14	24.42	211.0	6.262	1046.	7.298	47.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.67**	**20.62**	**108.8**	**101.9**	**1066.**	**1109.**	**1073.**	**11.33**	**21.09**
Stddev	.20	.72	.8	21.9	28.	159.	19.	.06	.24
%RSD	1.711	3.493	.7505	21.51	2.645	14.34	1.734	.5569	1.146
#1	11.72	20.02	109.5	88.14	1090.	1140.	1053.	11.38	21.22
#2	11.45	20.42	107.9	90.29	1072.	1249.	1077.	11.34	20.82
#3	11.84	21.42	109.0	127.1	1035.	936.1	1089.	11.26	21.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212047-LCV2 Acquired: 12/13/2012 10:23:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2047.**	**41.41**	**16.84**	**42.05**	**42.02**	**1081.**	**20.70**	**22.42**	**20.16**
Stddev	49.	.77	.47	.54	1.36	158.	.61	.59	.14
%RSD	2.403	1.851	2.808	1.291	3.240	14.65	2.931	2.615	.6823
#1	1994.	41.98	17.03	42.35	43.15	1187.	20.00	21.87	20.24
#2	2056.	40.54	16.30	41.43	40.51	899.1	21.03	22.35	20.00
#3	2091.	41.71	17.19	42.38	42.40	1157.	21.08	23.04	20.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**39.67**	**42.44**	**44.08**
Stddev	.43	.47	.60
%RSD	1.083	1.096	1.363
#1	39.76	42.78	44.19
#2	39.20	42.62	43.43
#3	40.05	41.91	44.62
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-LCV2 Acquired: 12/13/2012 10:23:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**364.61**	**46.185**	**994.55**
Stddev	4.06	.488	3.85
%RSD	1.1147	1.0569	.38716
#1	364.02	46.744	995.95
#2	368.93	45.968	997.51
#3	360.87	45.842	990.20

Sample Name: S212047-IFA1 Acquired: 12/13/2012 10:29:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4277**	**298100.**	**-.4301**	**-2.694**	**.6758**	**.0183**	**280400.**	**1.375**
Stddev	.3454	15100.	.9664	.116	.0646	.0833	14470.	.132
%RSD	80.76	5.066	224.7	4.298	9.555	455.1	5.161	9.624
#1	.8093	313900.	-.6059	-2.562	.6178	-.0496	295200.	1.481
#2	.3368	296500.	.6122	-2.775	.7454	-.0067	279700.	1.417
#3	.1368	283800.	-1.296	-2.747	.6642	.1112	266200.	1.227
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.946**	**1.646**	**-4.108**	**204300.**	**272000.**	**-492.6**	**304000.**	**258400.**
Stddev	.177	.231	.399	5165.	14850.	209.6	16370.	12770.
%RSD	6.015	14.03	9.714	2.528	5.461	42.55	5.385	4.940
#1	-3.093	1.382	-3.687	209100.	287200.	-718.0	320600.	271700.
#2	-2.995	1.742	-4.156	204900.	271300.	-456.3	303700.	257300.
#3	-2.749	1.813	-4.481	198800.	257500.	-303.6	287800.	246200.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212047-IFA1 Acquired: 12/13/2012 10:29:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.5917**	**-1.657**	**301200.**	**-7.262**	**-.2726**	**3.694**	**.8983**	**-112.6**
Stddev	.0972	.145	14490.	.229	1.290	2.004	2.568	75.8
%RSD	16.43	8.778	4.810	3.152	473.3	54.25	285.9	67.25
#1	.4987	-1.624	316200.	-7.525	.8024	5.539	1.508	-171.7
#2	.5838	-1.816	300000.	-7.142	.0835	3.981	-1.920	-27.25
#3	.6927	-1.530	287300.	-7.117	-1.704	1.562	3.106	-138.9
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.663**	**-3.787**	**-3.314**	**-8.026**	**4.282**	**2.127**
Stddev	1.520	.322	.135	.776	1.090	.182
%RSD	91.38	8.505	4.064	9.666	25.46	8.552
#1	-.0913	-4.104	-3.448	-8.574	5.343	2.250
#2	2.503	-3.798	-3.316	-8.365	3.165	2.212
#3	2.578	-3.460	-3.179	-7.138	4.337	1.918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212047-IFA1 Acquired: 12/13/2012 10:29:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**346.75**	**46.971**	**969.40**
Stddev	13.82	1.780	27.21
%RSD	3.9857	3.7888	2.8068
#1	334.85	45.406	944.73
#2	343.49	46.600	964.87
#3	361.91	48.907	998.59

Sample Name: Rinse Acquired: 12/13/2012 10:35:31 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0881**	**22.95**	**-.9930**	**.5651**	**.2175**	**-.0532**	**18.19**	**-.0293**	**-.0060**
Stddev	.1947	24.08	.1943	.5436	.0696	.1927	31.21	.0219	.1197
%RSD	220.9	104.9	19.56	96.20	32.01	362.5	171.6	74.73	1995.
#1	.2086	2.548	-1.020	1.185	.2346	.1104	-17.50	-.0054	-.0706
#2	.1922	16.80	-.7866	.1717	.1409	-.0042	31.72	-.0485	.1321
#3	-.1365	49.52	-1.172	.3381	.2770	-.2656	40.34	-.0341	-.0795

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0409**	**-.7516**	**19.00**	**9.670**	**-133.9**	**79.02**	**34.51**	**-.1092**	**-.1406**
Stddev	.0798	.1796	9.85	8.465	96.9	41.51	6.39	.0619	.1560
%RSD	195.2	23.90	51.85	87.54	72.32	52.53	18.51	56.64	111.0
#1	-.0490	-.6564	11.77	6.895	-43.93	33.08	28.39	-.0781	-.1319
#2	.0683	-.9588	15.00	2.941	-236.4	113.8	34.01	-.1805	.0108
#3	.1033	-.6396	30.22	19.17	-121.4	90.14	41.13	-.0691	-.3009

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**88.88**	**-.0324**	**-.0987**	**-.3092**	**-.1003**	**-5.483**	**.1446**	**-.2003**	**.0254**
Stddev	13.84	.4222	.7415	.6964	1.388	116.6	.6887	.0761	.1300
%RSD	15.57	1305.	751.3	225.2	1383.	2126.	476.1	37.98	511.9
#1	103.6	-.4426	.5095	.4537	.5067	125.0	.2753	-.2732	-.0782
#2	76.19	-.0553	-.9248	-.4705	.8803	-42.10	-.6001	-.1214	.1713
#3	86.84	.4008	.1192	-.9107	-1.688	-99.37	.7587	-.2062	-.0169

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.6494**	**-.8614**	**.1161**
Stddev	.5664	.3212	.0694
%RSD	87.21	37.29	59.73
#1	.0056	-.7426	.0693
#2	1.071	-.6165	.0833
#3	.8721	-1.225	.1958

Sample Name: Rinse Acquired: 12/13/2012 10:35:31 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**371.38**	**45.768**	**1023.4**
Stddev	2.78	1.740	12.2
%RSD	.74814	3.8012	1.1934
#1	373.97	47.141	1036.8
#2	371.72	46.351	1020.8
#3	368.44	43.812	1012.8

Sample Name: B212088-BLK1 Acquired: 12/13/2012 10:41:38 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2280**	**.1023**	**.8166**	**.5264**	**-.0688**	**-.1063**	**79.54**	**.8004**	**.0494**
Stddev	.4180	6.541	.6094	.2970	.3845	.3192	9.95	.0371	.0740
%RSD	183.3	6395.	74.63	56.42	559.0	300.3	12.51	4.631	149.8
#1	-.0797	5.845	.1242	.2551	.3239	.0111	77.27	.8383	.0966
#2	.0598	1.480	1.271	.8437	-.4446	-.4675	90.42	.7988	.0875
#3	.7038	-7.018	1.054	.4805	-.0856	.1376	70.91	.7642	-.0359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3832**	**1.813**	**8.152**	**-18.38**	**113.9**	**-56.15**	**1.500**	**.1991**	**-.3108**
Stddev	.1745	.451	3.267	12.89	42.0	83.42	9.833	.0479	.1092
%RSD	45.53	24.86	40.08	70.15	36.86	148.6	655.4	24.06	35.14
#1	.5141	1.989	5.356	-33.26	117.4	-23.35	-5.381	.2058	-.1977
#2	.1851	1.301	7.356	-11.04	70.31	-151.0	12.76	.1481	-.3191
#3	.4503	2.149	11.74	-10.83	154.1	5.877	-2.881	.2432	-.4156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B212088-BLK1 Acquired: 12/13/2012 10:41:38 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**173.7**	**1.048**	**6.291**	**.0304**	**-.1817**	**-.2069**	**.4553**	**-.1352**	**.0813**
Stddev	13.4	.302	.565	.2317	.9207	37.55	.5135	.0614	.0959
%RSD	7.711	28.82	8.988	762.3	506.6	18150.	112.8	45.44	117.9
#1	159.6	1.105	6.921	.1702	.8195	10.31	.6075	-.1822	-.0128
#2	175.4	1.317	5.827	.1580	-.3729	30.97	-.1171	-.1578	.1790
#3	186.2	.7212	6.125	-.2370	-.9918	-41.90	.8756	-.0657	.0779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.3066**	**.0055**	**4.005**
Stddev	1.591	.8626	.018
%RSD	518.8	15690.	.4470
#1	-1.479	-.8015	3.992
#2	1.572	-.0965	3.997
#3	.8268	.9146	4.025
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212088-BLK1 Acquired: 12/13/2012 10:41:38 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**370.71**	**47.108**	**1016.1**
Stddev	4.93	.292	10.0
%RSD	1.3306	.61908	.98494
#1	366.94	47.214	1022.4
#2	368.90	47.333	1004.5
#3	376.29	46.779	1021.3

Sample Name: B212088-MS1 Acquired: 12/13/2012 11:05:52 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**245.0**	**94120.**	**272.2**	**230.7**	**570.6**	**201.1**	**17640.**	**197.0**
Stddev	3.4	1074.	5.1	3.7	6.4	2.4	176.	3.0
%RSD	1.380	1.141	1.877	1.603	1.121	1.209	.9981	1.519
#1	241.2	92970.	267.8	227.4	563.4	198.5	17450.	194.7
#2	247.7	95100.	277.8	234.7	575.4	203.4	17790.	200.4
#3	246.1	94290.	271.0	230.1	573.1	201.4	17690.	196.0

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**269.7**	**338.2**	**415.9**	**157000.**	**198400.**	**12400.**	**30400.**	**30420.**
Stddev	4.2	6.1	7.4	2032.	2271.	261.	374.	357.
%RSD	1.552	1.806	1.785	1.295	1.145	2.102	1.229	1.173
#1	266.2	333.5	407.7	155200.	195900.	12160.	29970.	30010.
#2	274.4	345.1	422.3	159200.	200400.	12670.	30630.	30660.
#3	268.5	336.1	417.6	156700.	198900.	12360.	30600.	30590.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2585.**	**203.1**	**5475.**	**336.5**	**2120.**	**230.3**	**183.7**	**16070.**
Stddev	41.	3.8	75.	5.6	34.	4.2	2.3	498.
%RSD	1.568	1.879	1.370	1.678	1.617	1.840	1.263	3.098
#1	2539.	200.1	5388.	332.3	2096.	227.1	183.5	15520.
#2	2617.	207.4	5525.	342.9	2159.	235.1	186.2	16220.
#3	2599.	201.9	5510.	334.3	2106.	228.7	181.6	16480.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**222.1**	**330.0**	**1191.**	**193.0**	**423.4**	**848.2**
Stddev	4.0	4.1	20.	5.2	5.6	12.7
%RSD	1.801	1.228	1.658	2.678	1.320	1.497
#1	218.9	325.6	1168.	187.4	417.7	838.5
#2	226.6	333.6	1205.	197.7	428.9	862.6
#3	220.9	330.7	1199.	193.9	423.6	843.7

Sample Name: B212088-MS1 Acquired: 12/13/2012 11:05:52 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**353.76**	**45.447**	**998.10**
Stddev	4.91	.272	12.47
%RSD	1.3887	.59798	1.2497
#1	358.03	45.751	1012.1
#2	348.39	45.226	988.32
#3	354.84	45.364	993.84

Sample Name: B212088-MSD1 Acquired: 12/13/2012 11:12:06 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**253.0**	**95110.**	**274.0**	**237.2**	**580.8**	**203.6**	**17980.**	**203.2**
Stddev	2.8	2370.	4.4	2.2	19.5	4.1	556.	1.0
%RSD	1.116	2.491	1.609	.9264	3.352	2.018	3.093	.5145
#1	250.6	92410.	271.5	239.1	559.2	199.0	17330.	204.1
#2	252.3	96070.	271.3	234.8	586.4	204.8	18330.	203.5
#3	256.1	96840.	279.0	237.7	596.9	206.9	18270.	202.1

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**277.6**	**347.9**	**421.1**	**204100.**	**207300.**	**12550.**	**30510.**	**31070.**
Stddev	.8	1.1	4.3	858.	5567.	661.	769.	771.
%RSD	.2794	.3098	1.026	.4205	2.686	5.266	2.518	2.481
#1	277.9	348.7	426.0	205100.	200900.	11890.	29630.	30200.
#2	276.8	348.2	419.4	203400.	209900.	13210.	30920.	31320.
#3	278.3	346.6	417.8	203800.	211100.	12540.	31000.	31680.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2761.**	**204.6**	**5362.**	**341.9**	**2178.**	**235.4**	**186.4**	**17990.**
Stddev	15.	1.9	98.	.5	8.	4.7	2.3	406.
%RSD	.5506	.9095	1.837	.1384	.3709	1.979	1.259	2.257
#1	2775.	206.5	5254.	341.6	2187.	240.3	186.4	17650.
#2	2744.	202.8	5384.	342.4	2173.	234.8	188.7	18440.
#3	2764.	204.5	5447.	341.6	2173.	231.1	184.0	17890.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**227.8**	**332.1**	**1272.**	**192.9**	**445.7**	**907.9**
Stddev	3.8	7.5	6.	11.4	2.1	2.5
%RSD	1.649	2.250	.4839	5.897	.4817	.2714
#1	225.6	323.5	1276.	198.4	447.8	907.1
#2	225.6	335.3	1265.	200.5	445.8	906.0
#3	232.1	337.4	1275.	179.8	443.5	910.7

Sample Name: B212088-MSD1 Acquired: 12/13/2012 11:12:06 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**351.94**	**44.369**	**970.93**
Stddev	1.02	1.011	2.53
%RSD	.29120	2.2786	.26014
#1	351.60	45.533	973.41
#2	353.09	43.867	971.01
#3	351.13	43.708	968.36

Sample Name: 1212042-02 Acquired: 12/13/2012 11:18:09 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**46.19**	**65520.**	**87.94**	**20.03**	**458.2**	**3.320**	**19360.**	**1.833**
Stddev	.36	817.	1.72	.72	6.4	.523	201.	.159
%RSD	.7777	1.247	1.954	3.573	1.396	15.74	1.039	8.686
#1	46.58	66320.	87.38	20.51	464.8	3.354	19580.	1.694
#2	45.87	65560.	86.56	19.21	457.8	3.825	19320.	1.798
#3	46.13	64680.	89.86	20.38	452.1	2.781	19180.	2.007

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**61.03**	**135.3**	**341.7**	**154100.**	**189200.**	**4302.**	**21430.**	**21550.**
Stddev	.89	1.3	1.3	841.	2558.	157.	218.	280.
%RSD	1.465	.9274	.3930	.5460	1.352	3.655	1.019	1.299
#1	61.18	135.3	343.1	154800.	191700.	4480.	21660.	21810.
#2	60.07	134.1	340.5	154200.	189400.	4183.	21380.	21580.
#3	61.84	136.6	341.6	153200.	186600.	4243.	21230.	21250.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2664.**	**4.300**	**292.6**	**135.4**	**2527.**	**31.86**	**-1.515**	**7976.**
Stddev	7.	.362	2.7	1.9	32.	1.02	2.405	152.
%RSD	.2630	8.412	.9395	1.367	1.265	3.206	158.7	1.910
#1	2659.	4.273	293.5	135.0	2523.	32.54	-3.709	8150.
#2	2660.	3.952	289.5	133.8	2498.	30.69	1.057	7912.
#3	2672.	4.674	294.7	137.5	2561.	32.35	-1.894	7866.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**36.04**	**134.7**	**969.7**	**-7.710**	**199.9**	**1089.**
Stddev	1.16	1.7	2.1	1.878	.5	14.
%RSD	3.212	1.278	.2158	24.35	.2587	1.275
#1	35.78	136.5	967.6	-6.086	200.1	1087.
#2	35.02	134.5	969.9	-9.766	199.3	1077.
#3	37.30	133.1	971.7	-7.278	200.3	1104.

Sample Name: 1212042-02 Acquired: 12/13/2012 11:18:09 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**351.51**	**46.086**	**992.78**
Stddev	3.43	.525	.99
%RSD	.97488	1.1393	.09958
#1	351.73	45.644	992.54
#2	354.81	45.948	991.94
#3	347.97	46.666	993.87

Sample Name: 1212042-03 Acquired: 12/13/2012 11:24:24 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**56.00**	**80450.**	**68.63**	**28.48**	**1121.**	**4.318**	**56940.**	**1.935**
Stddev	.40	1226.	2.07	.25	17.	.373	818.	.132
%RSD	.7142	1.524	3.016	.8892	1.511	8.645	1.437	6.825
#1	56.11	81690.	68.34	28.22	1139.	4.540	57760.	1.829
#2	55.55	80400.	66.72	28.73	1119.	4.527	56940.	2.083
#3	56.33	79240.	70.83	28.50	1105.	3.887	56130.	1.894

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**67.97**	**120.9**	**623.2**	**139800.**	**168900.**	**5342.**	**29750.**	**29930.**
Stddev	.13	.4	6.5	1559.	2538.	79.	433.	495.
%RSD	.1880	.3351	1.040	1.115	1.502	1.471	1.455	1.654
#1	67.93	121.3	623.8	140600.	171500.	5430.	30170.	30390.
#2	68.12	120.8	616.4	138000.	168900.	5279.	29790.	29990.
#3	67.87	120.6	629.4	140800.	166400.	5316.	29300.	29410.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3891.**	**4.765**	**837.6**	**144.7**	**2967.**	**9.007**	**.3630**	**6607.**
Stddev	26.	.149	12.7	.4	6.	1.317	2.442	124.
%RSD	.6777	3.136	1.514	.2959	.1926	14.62	672.9	1.871
#1	3888.	4.634	851.0	144.6	2972.	7.529	3.120	6682.
#2	3866.	4.928	835.9	144.3	2967.	10.06	-.5005	6676.
#3	3918.	4.732	825.8	145.1	2961.	9.438	-1.530	6465.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**50.19**	**303.6**	**1179.**	**-3.746**	**253.4**	**863.7**
Stddev	.79	4.2	11.	1.120	1.2	.7
%RSD	1.578	1.381	.9100	29.89	.4917	.0860
#1	50.81	307.8	1179.	-2.517	253.6	864.4
#2	49.30	303.7	1168.	-4.707	252.0	863.9
#3	50.45	299.4	1189.	-4.015	254.5	862.9

Sample Name: 1212042-03 Acquired: 12/13/2012 11:24:24 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**356.41**	**47.154**	**1010.3**
Stddev	.43	.575	5.0
%RSD	.11992	1.2191	.49970
#1	356.91	46.584	1012.2
#2	356.18	47.145	1014.2
#3	356.15	47.733	1004.6

Sample Name: 1212042-04 Acquired: 12/13/2012 11:30:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**69.70**	**39390.**	**142.3**	**34.89**	**846.0**	**2.703**	**178900.**	**6.871**
Stddev	1.13	437.	2.0	.52	8.8	.029	2109.	.146
%RSD	1.619	1.109	1.397	1.485	1.040	1.079	1.179	2.128
#1	71.00	39840.	143.9	35.17	854.7	2.700	180900.	6.985
#2	68.96	38960.	142.9	35.21	837.1	2.675	176700.	6.923
#3	69.14	39360.	140.1	34.29	846.0	2.733	179100.	6.706

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**68.58**	**131.8**	**762.4**	**109100.**	**124200.**	**5471.**	**129200.**	**124400.**
Stddev	1.49	2.7	11.7	1076.	1423.	95.	1548.	1392.
%RSD	2.175	2.063	1.539	.9855	1.146	1.731	1.198	1.118
#1	70.07	134.3	775.0	110300.	125700.	5402.	130800.	125700.
#2	68.59	132.3	760.6	109000.	122800.	5579.	127700.	122900.
#3	67.08	128.9	751.7	108100.	124100.	5433.	129000.	124600.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2176.**	**13.56**	**1002.**	**685.7**	**5948.**	**20.06**	**5.337**	**7456.**
Stddev	28.	.18	12.	14.5	124.	.89	.442	180.
%RSD	1.276	1.333	1.230	2.115	2.083	4.435	8.285	2.407
#1	2206.	13.66	1016.	699.5	6064.	20.33	5.499	7660.
#2	2170.	13.67	997.2	687.1	5962.	20.79	5.676	7324.
#3	2152.	13.35	992.9	670.6	5817.	19.07	4.837	7384.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**97.87**	**341.6**	**1411.**	**-3.216**	**181.4**	**5195.**
Stddev	.94	3.6	18.	2.081	3.9	102.
%RSD	.9614	1.039	1.243	64.72	2.139	1.966
#1	98.94	345.3	1430.	-.9037	185.2	5296.
#2	97.50	338.2	1406.	-4.940	181.5	5197.
#3	97.18	341.4	1396.	-3.805	177.4	5091.

Sample Name: 1212042-04 Acquired: 12/13/2012 11:30:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**343.94**	**45.314**	**983.69**
Stddev	5.70	.372	11.28
%RSD	1.6560	.82147	1.1468
#1	338.45	44.995	972.41
#2	343.57	45.723	983.69
#3	349.82	45.224	994.97

Sample Name: S212047-CCV1 Acquired: 12/13/2012 11:36:56 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.1**	**5189.**	**201.6**	**202.2**	**203.2**	**197.2**	**5186.**	**203.4**	**204.2**
Stddev	3.4	73.	2.6	2.6	1.5	2.0	42.	2.7	2.5
%RSD	1.705	1.398	1.304	1.278	.7511	1.028	.8121	1.334	1.210
#1	206.1	5128.	204.3	205.2	202.0	195.1	5152.	206.5	207.0
#2	200.5	5170.	199.0	200.8	202.7	197.1	5173.	202.4	203.4
#3	199.7	5269.	201.5	200.7	205.0	199.2	5233.	201.3	202.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**205.7**	**205.2**	**5196.**	**5027.**	**4959.**	**5005.**	**5147.**	**201.7**	**204.5**
Stddev	3.0	2.6	45.	61.	59.	48.	52.	1.3	2.5
%RSD	1.475	1.257	.8657	1.219	1.181	.9513	1.013	.6445	1.237
#1	209.1	208.2	5247.	4978.	4940.	4997.	5121.	203.2	207.4
#2	204.6	203.6	5179.	5008.	5024.	4961.	5114.	200.7	203.1
#3	203.3	204.0	5162.	5096.	4912.	5056.	5207.	201.3	202.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212047-CCV1 Acquired: 12/13/2012 11:36:56 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5117.**	**205.9**	**203.1**	**203.9**	**199.5**	**5064.**	**203.9**	**206.3**	**199.8**
Stddev	75.	2.7	2.6	3.7	3.6	80.	2.4	2.1	2.0
%RSD	1.474	1.329	1.264	1.805	1.787	1.581	1.158	1.032	1.024
#1	5060.	209.0	205.8	208.1	203.1	5096.	206.3	204.7	202.1
#2	5089.	204.8	202.7	202.7	199.4	4973.	201.6	205.5	198.6
#3	5203.	203.9	200.7	201.0	195.9	5124.	203.9	208.7	198.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**196.0**	**204.1**	**202.7**
Stddev	1.4	2.5	2.8
%RSD	.7110	1.226	1.377
#1	197.3	206.7	205.9
#2	194.5	203.7	201.5
#3	196.1	201.8	200.7
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-CCV1 Acquired: 12/13/2012 11:36:56 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**358.41**	**44.667**	**984.97**
Stddev	3.67	.476	1.97
%RSD	1.0227	1.0652	.19952
#1	354.29	45.073	984.59
#2	359.62	44.785	987.09
#3	361.32	44.144	983.22

Sample Name: S212047-CCB1 Acquired: 12/13/2012 11:43:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1445**	**-12.85**	**-.1114**	**.4220**	**.3557**	**-.0511**	**-8.732**	**.0272**	**.0414**
Stddev	.1504	20.07	.5021	.1332	.4907	.3372	7.180	.0337	.0396
%RSD	104.1	156.1	450.7	31.56	137.9	659.4	82.23	124.2	95.84
#1	-.1051	-23.06	-.6903	.5454	.5761	-.2832	-11.47	.0559	.0620
#2	-.0176	-25.76	.1520	.2808	.6976	-.2058	-14.14	-.0100	.0664
#3	-.3107	10.27	.2042	.4399	-.2065	.3356	-.5861	.0356	-.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0234**	**.9359**	**8.545**	**-6.949**	**-46.27**	**-86.16**	**1.750**	**.1235**	**-.0969**
Stddev	.1114	.6468	.733	20.42	50.51	73.30	15.26	.1469	.0637
%RSD	476.3	69.11	8.572	293.8	109.2	85.07	871.7	118.9	65.75
#1	.1051	.1897	8.860	11.63	7.673	-169.6	19.37	-.0304	-.1390
#2	-.0933	1.335	9.066	-3.669	-54.05	-56.98	-7.048	.2621	-.1281
#3	-.0819	1.283	7.707	-28.81	-92.44	-31.95	-7.070	.1388	-.0236
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212047-CCB1 Acquired: 12/13/2012 11:43:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.975**	**.1478**	**-.3218**	**.5967**	**2.124**	**61.46**	**.8922**	**-.0979**	**.0139**
Stddev	6.105	.0813	.2121	.4160	.972	88.69	.4006	.1213	.1021
%RSD	102.2	55.04	65.90	69.72	45.77	144.3	44.90	123.9	736.2
#1	9.617	.0809	-.0959	.1217	1.403	73.54	1.001	-.1405	-.0919
#2	-1.072	.2383	-.3531	.8965	3.229	143.5	1.227	.0390	.0217
#3	9.382	.1242	-.5165	.7719	1.739	-32.65	.4486	-.1921	.1118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.6467**	**.3148**	**.0685**
Stddev	.6500	.3385	.0841
%RSD	100.5	107.6	122.7
#1	.8357	.6521	.1628
#2	-.0769	-.0250	.0417
#3	1.181	.3172	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212047-CCB1 Acquired: 12/13/2012 11:43:01 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**328.41**	**41.741**	**914.46**
Stddev	.65	.126	5.69
%RSD	.19703	.30301	.62249
#1	327.68	41.598	920.19
#2	328.64	41.837	908.81
#3	328.91	41.788	914.38

Sample Name: 1212042-05 Acquired: 12/13/2012 11:49:11 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**55.32**	**56300.**	**78.48**	**24.76**	**1394.**	**2.674**	**27610.**	**6.521**
Stddev	.29	386.	.78	.38	14.	.128	170.	.065
%RSD	.5315	.6861	.9936	1.552	.9879	4.797	.6167	.9910
#1	55.54	56740.	77.68	25.10	1409.	2.762	27810.	6.540
#2	54.99	56070.	79.24	24.83	1383.	2.734	27500.	6.574
#3	55.44	56080.	78.51	24.34	1389.	2.527	27530.	6.449

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**52.15**	**110.8**	**2292.**	**191100.**	**251100.**	**3846.**	**20690.**	**21120.**
Stddev	.55	1.3	6.	483.	1439.	151.	80.	182.
%RSD	1.062	1.170	.2420	.2528	.5728	3.919	.3849	.8620
#1	52.31	111.2	2297.	190900.	252800.	4017.	20790.	21330.
#2	52.62	111.9	2286.	191700.	250100.	3734.	20660.	21000.
#3	51.54	109.4	2292.	190800.	250600.	3787.	20640.	21040.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1674.**	**4.197**	**2678.**	**117.3**	**17330.**	**23.08**	**.1083**	**7025.**
Stddev	5.	.237	26.	1.6	213.	1.12	1.831	21.
%RSD	.3150	5.655	.9680	1.394	1.226	4.835	1691.	.3027
#1	1679.	4.229	2704.	117.4	17400.	24.24	2.040	7029.
#2	1668.	4.417	2652.	118.9	17500.	22.98	-1.603	7043.
#3	1676.	3.945	2678.	115.6	17100.	22.02	-.1123	7001.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**257.2**	**176.4**	**1095.**	**-11.10**	**196.5**	**2784.**
Stddev	2.8	1.6	3.	.91	.6	31.
%RSD	1.088	.9347	.3122	8.156	.2907	1.109
#1	258.3	178.3	1098.	-12.14	196.9	2800.
#2	259.4	175.3	1091.	-10.48	196.6	2803.
#3	254.1	175.6	1096.	-10.67	195.8	2748.

Sample Name: 1212042-05 Acquired: 12/13/2012 11:49:11 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**345.70**	**45.119**	**976.13**
Stddev	3.48	.271	1.80
%RSD	1.0053	.60009	.18481
#1	344.07	44.815	974.05
#2	343.35	45.207	977.22
#3	349.69	45.335	977.13

Sample Name: 1212042-06 Acquired: 12/13/2012 11:57:41 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**98.74**	**98320.**	**62.35**	**21.66**	**753.7**	**4.229**	**32030.**	**2.753**
Stddev	.59	1517.	2.03	.26	9.9	.248	471.	.173
%RSD	.5997	1.543	3.261	1.180	1.307	5.873	1.471	6.272
#1	99.17	99760.	61.45	21.52	762.4	4.496	32430.	2.556
#2	98.06	96730.	64.68	21.49	743.0	4.187	31510.	2.879
#3	98.98	98460.	60.92	21.95	755.7	4.004	32150.	2.824

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**75.01**	**143.2**	**325.8**	**141400.**	**167000.**	**6311.**	**24180.**	**24730.**
Stddev	.34	.7	1.4	262.	2335.	24.	348.	368.
%RSD	.4591	.4590	.4286	.1856	1.398	.3746	1.438	1.489
#1	74.62	142.7	327.1	141500.	169200.	6315.	24570.	25040.
#2	75.14	144.0	324.3	141100.	164500.	6332.	23910.	24320.
#3	75.26	143.0	325.9	141600.	167300.	6285.	24060.	24820.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1867.**	**5.855**	**726.3**	**124.7**	**4799.**	**14.26**	**-1.336**	**7435.**
Stddev	5.	.349	21.7	.8	21.	1.17	.792	92.
%RSD	.2414	5.957	2.993	.6432	.4418	8.226	59.28	1.231
#1	1866.	5.942	742.7	123.8	4775.	12.90	-1.886	7455.
#2	1863.	6.153	701.7	125.3	4816.	14.99	-1.694	7336.
#3	1872.	5.471	734.6	125.1	4805.	14.87	-.4283	7515.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**32.76**	**400.8**	**1900.**	**-6.520**	**248.1**	**1365.**
Stddev	.11	6.0	6.	.768	1.1	8.
%RSD	.3404	1.500	.3045	11.78	.4455	.6161
#1	32.88	405.9	1901.	-6.642	249.4	1355.
#2	32.72	394.2	1893.	-7.219	247.4	1372.
#3	32.67	402.3	1904.	-5.698	247.6	1367.

Sample Name: 1212042-06 Acquired: 12/13/2012 11:57:41 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**353.02**	**45.942**	**992.57**
Stddev	1.45	.672	2.76
%RSD	.41110	1.4635	.27822
#1	354.46	45.339	990.42
#2	351.56	46.667	995.68
#3	353.03	45.822	991.60

Sample Name: 1212042-07 Acquired: 12/13/2012 12:03:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**128.0**	**59190.**	**173.1**	**102.3**	**1045.**	**1.635**	**274400.**	**12.56**
Stddev	.3	1260.	2.9	1.2	21.	.191	5567.	.26
%RSD	.2108	2.128	1.684	1.192	2.031	11.66	2.029	2.072
#1	128.1	60280.	176.1	103.5	1063.	1.415	279100.	12.72
#2	127.6	59490.	170.3	101.1	1051.	1.735	275800.	12.26
#3	128.1	57810.	173.1	102.1	1022.	1.755	268200.	12.70

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**73.32**	**151.5**	**948.4**	**145100.**	**167200.**	**6297.**	**136800.**	**132600.**
Stddev	1.07	2.2	6.7	1308.	3556.	171.	3103.	2900.
%RSD	1.454	1.471	.7106	.9010	2.127	2.714	2.269	2.187
#1	74.25	153.8	952.5	146300.	170200.	6469.	139300.	135100.
#2	72.16	149.4	952.1	145300.	168100.	6293.	137700.	133400.
#3	73.57	151.4	940.6	143700.	163300.	6127.	133300.	129400.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3157.**	**11.43**	**1544.**	**294.7**	**8167.**	**30.21**	**6.376**	**7441.**
Stddev	14.	.01	22.	4.3	119.	.38	1.620	282.
%RSD	.4374	.0947	1.396	1.464	1.454	1.266	25.41	3.783
#1	3171.	11.42	1546.	298.7	8286.	30.00	8.232	7721.
#2	3158.	11.44	1565.	290.2	8049.	29.98	5.654	7445.
#3	3144.	11.42	1522.	295.3	8165.	30.65	5.242	7158.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**115.7**	**499.1**	**2451.**	**-5.473**	**301.0**	**7325.**
Stddev	2.4	10.8	10.	.959	2.3	93.
%RSD	2.074	2.165	.4054	17.53	.7593	1.273
#1	118.2	508.5	2455.	-6.116	302.4	7404.
#2	113.4	501.5	2459.	-4.370	302.3	7222.
#3	115.5	487.3	2440.	-5.933	298.4	7350.

Sample Name: 1212042-07 Acquired: 12/13/2012 12:03:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**333.88**	**44.793**	**945.64**
Stddev	3.75	.767	4.69
%RSD	1.1228	1.7132	.49595
#1	330.02	44.169	941.40
#2	337.50	44.559	944.84
#3	334.13	45.650	950.68

Sample Name: 1212042-08 Acquired: 12/13/2012 12:10:11 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**90.81**	**51030.**	**489.3**	**44.77**	**995.1**	**2.708**	**137100.**	**10.05**
Stddev	1.27	2568.	7.8	1.03	47.9	.438	6790.	.07
%RSD	1.398	5.033	1.595	2.301	4.815	16.17	4.952	.6708
#1	89.96	53990.	496.5	45.41	1050.	3.108	145000.	10.07
#2	92.27	49340.	481.0	43.58	963.1	2.777	133000.	9.969
#3	90.19	49770.	490.4	45.31	971.9	2.241	133400.	10.10

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**71.02**	**160.1**	**1009.**	**152700.**	**181500.**	**7087.**	**72340.**	**72480.**
Stddev	1.08	2.5	20.	2237.	8859.	228.	3587.	3592.
%RSD	1.522	1.591	1.933	1.465	4.880	3.215	4.958	4.956
#1	72.08	162.7	1008.	153900.	191800.	7340.	76480.	76630.
#2	69.92	157.6	1029.	154000.	176300.	7023.	70400.	70280.
#3	71.08	160.0	990.3	150100.	176500.	6899.	70140.	70540.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2156.**	**19.63**	**1277.**	**426.7**	**5930.**	**29.80**	**7.457**	**7731.**
Stddev	39.	.31	63.	7.0	99.	1.63	.718	459.
%RSD	1.807	1.554	4.939	1.645	1.672	5.484	9.635	5.940
#1	2157.	19.98	1349.	433.9	6031.	31.68	6.628	8256.
#2	2194.	19.43	1228.	419.9	5833.	28.77	7.850	7401.
#3	2116.	19.48	1256.	426.3	5924.	28.95	7.893	7538.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**107.9**	**467.1**	**1754.**	**-6.493**	**240.5**	**5707.**
Stddev	2.0	23.4	32.	2.359	4.2	90.
%RSD	1.844	5.012	1.805	36.33	1.752	1.584
#1	109.6	494.1	1753.	-5.135	240.5	5793.
#2	105.7	451.8	1787.	-5.127	244.7	5613.
#3	108.5	455.5	1724.	-9.216	236.3	5715.

Sample Name: 1212042-08 Acquired: 12/13/2012 12:10:11 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.64**	**44.379**	**945.49**
Stddev	4.13	1.764	14.64
%RSD	1.2196	3.9753	1.5483
#1	334.95	42.346	943.90
#2	343.10	45.282	931.72
#3	337.86	45.508	960.87

Sample Name: S212047-CCV2 Acquired: 12/13/2012 12:16:27 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**213.5**	W **5535.**	**208.7**	**210.9**	**217.6**	**207.1**	**5498.**	**211.7**
Stddev	1.5	108.	2.6	2.3	3.9	4.3	78.	2.6
%RSD	.7225	1.945	1.256	1.091	1.811	2.064	1.415	1.237
#1	214.3	5412.	208.7	211.1	213.1	202.2	5409.	211.6
#2	211.8	5615.	211.4	213.1	219.4	209.7	5547.	214.3
#3	214.5	5576.	206.1	208.5	220.3	209.5	5539.	209.1
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		5000.						
Range		10.00%						

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**212.2**	**214.2**	**219.2**	W **5519.**	**5312.**	**5143.**	**5422.**	**5469.**
Stddev	2.4	3.0	.2	10.	120.	123.	640.	89.
%RSD	1.144	1.416	.0731	.1872	2.249	2.398	11.80	1.634
#1	212.4	214.2	219.3	5526.	5178.	5171.	4791.	5372.
#2	214.5	217.2	219.4	5507.	5407.	5250.	5405.	5548.
#3	209.7	211.1	219.1	5523.	5352.	5008.	6070.	5488.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				5000.				
Range				10.00%				

Sample Name: S212047-CCV2 Acquired: 12/13/2012 12:16:27 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**212.0**	**213.2**	**5465.**	**215.4**	**210.0**	**213.0**	**208.8**	**5249.**
Stddev	.4	2.5	109.	3.4	3.8	3.3	1.5	140.
%RSD	.1809	1.156	1.986	1.560	1.789	1.562	.6990	2.673
#1	212.3	212.6	5340.	215.3	212.3	213.9	210.3	5142.
#2	211.6	215.9	5534.	218.8	212.1	215.8	208.7	5197.
#3	212.2	211.0	5522.	212.0	205.7	209.3	207.4	5408.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**211.2**	W **222.1**	**210.2**	**204.5**	**217.7**	**209.7**
Stddev	2.8	4.5	.3	1.0	.6	2.2
%RSD	1.316	2.044	.1454	.5096	.2594	1.034
#1	211.3	216.9	210.1	204.9	218.2	210.1
#2	213.9	224.8	210.0	205.3	217.1	211.6
#3	208.3	224.7	210.6	203.3	217.8	207.3
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		200.0				
Range		10.00%				

Sample Name: S212047-CCV2 Acquired: 12/13/2012 12:16:27 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**346.40**	**42.457**	**943.41**
Stddev	3.69	.512	2.66
%RSD	1.0657	1.2049	.28144
#1	345.49	43.046	946.44
#2	343.26	42.118	942.28
#3	350.47	42.209	941.50

Sample Name: S212047-CCB2 Acquired: 12/13/2012 12:22:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2437**	**-24.62**	**-.4882**	**.6066**	**-.2368**	**-.1866**	**31.83**	**-.0383**	**-.0771**
Stddev	.3859	11.34	1.644	.3260	1.008	.8130	23.10	.0380	.0451
%RSD	158.4	46.06	336.8	53.74	425.8	435.8	72.57	99.12	58.46
#1	.6120	-36.75	1.072	.6922	-1.115	.5299	54.94	-.0703	-.0507
#2	-.1577	-22.84	-2.205	.2464	.8645	-.0195	8.742	-.0483	-.0515
#3	.2766	-14.28	-.3318	.8812	-.4604	-1.070	31.81	.0037	-.1292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0161**	**.7285**	**8.737**	**2.908**	**4.979**	**-52.50**	**-2.127**	**-.0059**	**.0711**
Stddev	.1075	.3182	1.887	16.01	95.20	313.7	6.066	.0767	.0609
%RSD	666.2	43.67	21.60	550.4	1912.	597.5	285.1	1296.	85.66
#1	-.0905	1.060	10.91	-3.675	-13.68	77.88	4.665	.0716	.1377
#2	.1244	.7010	7.837	21.16	-79.51	175.0	-4.042	-.0075	.0182
#3	.0144	.4250	7.469	-8.757	108.1	-410.3	-7.006	-.0818	.0574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212047-CCB2 Acquired: 12/13/2012 12:22:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.481**	**-.3009**	**.0775**	**-.7020**	**1.423**	**-67.68**	**.7005**	**.0082**	**.0243**
Stddev	7.402	.2538	1.074	1.941	1.151	30.81	.7614	.1431	.0388
%RSD	212.7	84.33	1386.	276.5	80.91	45.53	108.7	1736.	159.8
#1	11.80	-.0426	1.060	-2.892	.1329	-56.12	.6582	.1175	.0166
#2	1.011	-.3103	.2420	-.0210	1.790	-102.6	-.0388	-.1537	.0664
#3	-2.371	-.5499	-1.070	.8066	2.345	-44.32	1.482	.0609	-.0101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.242**	**-.5246**	**.0088**
Stddev	.606	1.158	.0740
%RSD	48.77	220.7	840.9
#1	-1.455	-.2658	-.0191
#2	-.5587	-1.790	.0927
#3	-1.713	.4820	-.0472
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212047-CCB2 Acquired: 12/13/2012 12:22:33 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**334.09**	**41.947**	**927.74**
Stddev	.60	.123	7.19
%RSD	.17849	.29218	.77496
#1	334.76	41.828	929.63
#2	333.90	42.073	919.80
#3	333.61	41.942	933.80

Sample Name: B212088-SRM1 Acquired: 12/13/2012 12:29:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**49.18**	**6884.**	**182.6**	**88.88**	**213.6**	**113.3**	**7315.**	**103.7**	**134.5**
Stddev	.93	9.	2.2	1.13	.2	.2	11.	1.3	1.6
%RSD	1.900	.1350	1.212	1.270	.1010	.1450	.1523	1.254	1.153
#1	49.49	6890.	184.9	90.07	213.8	113.5	7309.	105.1	136.1
#2	48.13	6888.	182.3	88.76	213.6	113.3	7328.	103.6	134.3
#3	49.92	6873.	180.5	87.82	213.4	113.1	7307.	102.5	133.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**123.8**	**128.4**	**10480.**	**11700.**	**2746.**	**2489.**	**2571.**	**333.2**	**70.28**
Stddev	1.5	2.6	175.	23.	21.	20.	3.	6.7	.76
%RSD	1.189	2.063	1.668	.1923	.7802	.7956	.1075	2.001	1.086
#1	125.4	128.8	10530.	11710.	2766.	2512.	2571.	333.7	71.09
#2	123.6	125.5	10290.	11720.	2723.	2481.	2574.	326.3	70.18
#3	122.5	130.7	10630.	11670.	2750.	2475.	2569.	339.6	69.57
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B212088-SRM1 Acquired: 12/13/2012 12:29:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**353.8**	**74.09**	**79.54**	**225.3**	**137.9**	**963.4**	**147.9**	**137.8**	**149.3**
Stddev	1.1	.92	1.00	2.6	1.9	5.0	1.8	.2	3.3
%RSD	.3249	1.239	1.256	1.172	1.399	.5150	1.202	.1474	2.200
#1	352.4	75.07	80.59	228.1	140.1	959.2	149.8	137.9	149.8
#2	354.5	73.97	79.42	224.8	137.4	968.9	147.7	137.9	145.8
#3	354.4	73.25	78.61	222.9	136.3	962.1	146.3	137.5	152.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**212.5**	**91.41**	**268.4**
Stddev	2.4	1.51	3.4
%RSD	1.111	1.658	1.277
#1	215.2	91.93	272.1
#2	211.5	89.70	267.7
#3	210.8	92.59	265.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212088-SRM1 Acquired: 12/13/2012 12:29:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.093023
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**345.84**	**44.435**	**970.15**
Stddev	3.25	.081	14.42
%RSD	.94062	.18193	1.4865
#1	342.60	44.422	968.56
#2	345.81	44.362	985.30
#3	349.10	44.522	956.59

wl 12/13/12

Sample Name: B212088-SRM2 Acquired: 12/13/2012 12:36:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**48.09**	**6573.**	**176.4**	**86.52**	**207.0**	**108.1**	**7034.**	**102.1**	**131.4**
Stddev	.47	43.	2.2	1.18	1.3	.7	35.	1.4	1.6
%RSD	.9869	.6588	1.262	1.368	.6181	.6359	.5028	1.391	1.228
#1	48.54	6527.	178.5	87.73	205.8	107.4	6998.	103.6	133.1
#2	48.13	6581.	176.7	86.46	206.7	108.0	7035.	102.0	131.3
#3	47.60	6612.	174.1	85.37	208.4	108.8	7069.	100.8	129.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**119.4**	**125.2**	**10220.**	**11060.**	**2639.**	**2383.**	**2478.**	**321.4**	**67.57**
Stddev	1.8	1.4	75.	52.	13.	10.	10.	2.9	.94
%RSD	1.495	1.079	.7375	.4735	.5100	.4312	.4128	.8960	1.395
#1	121.2	126.3	10280.	11010.	2637.	2380.	2469.	324.1	68.48
#2	119.3	125.5	10240.	11090.	2627.	2395.	2475.	321.8	67.61
#3	117.6	123.7	10130.	11100.	2654.	2375.	2489.	318.4	66.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

wr 12/13/12

Sample Name: B212088-SRM#2 Acquired: 12/13/2012 12:36:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**346.2**	**72.54**	**77.02**	**216.4**	**130.4**	**885.2**	**146.2**	**134.3**	**143.8**
Stddev	4.7	1.01	.95	3.4	2.0	9.8	2.0	.6	1.2
%RSD	1.360	1.393	1.232	1.585	1.505	1.112	1.363	.4649	.8548
#1	341.2	73.57	77.98	219.7	132.2	882.0	148.2	133.8	144.9
#2	347.0	72.50	77.01	216.6	130.6	896.3	146.0	134.2	144.0
#3	350.5	71.55	76.08	212.9	128.3	877.4	144.3	135.0	142.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**206.9**	**88.23**	**261.7**
Stddev	2.5	1.21	2.8
%RSD	1.226	1.367	1.076
#1	209.2	89.44	264.7
#2	207.4	88.21	261.1
#3	204.1	87.03	259.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

wa 12/13/12

Sample Name: B212088-SRM2 Acquired: 12/13/2012 12:36:22 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094180
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**346.00**	**45.187**	**972.76**
Stddev	2.90	.249	8.51
%RSD	.83871	.55096	.87529
#1	342.74	45.419	964.64
#2	346.99	45.217	972.02
#3	348.29	44.924	981.62

Sample Name: 1212042-01 Acquired: 12/13/2012 12:43:21 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**43.87**	**68750.**	**87.62**	**21.84**	**560.7**	**3.502**	**18030.**	**1.583**
Stddev	.20	607.	.94	.17	6.2	.542	166.	.039
%RSD	.4479	.8823	1.076	.7877	1.102	15.49	.9197	2.445
#1	43.71	69030.	87.26	22.03	562.5	2.889	18080.	1.547
#2	44.09	69170.	86.92	21.77	565.8	3.698	18170.	1.579
#3	43.80	68050.	88.69	21.71	553.8	3.920	17850.	1.624

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**269.4**	**123.0**	**338.2**	**162200.**	**195100.**	**4656.**	**20770.**	**21130.**
Stddev	1.1	.6	1.0	422.	1855.	156.	114.	213.
%RSD	.3961	.5041	.2814	.2603	.9507	3.340	.5481	1.007
#1	268.8	122.5	337.6	162100.	195800.	4655.	20840.	21210.
#2	270.6	123.7	337.7	161800.	196500.	4812.	20840.	21290.
#3	268.8	122.8	339.3	162600.	193000.	4501.	20640.	20890.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7267.**	**4.918**	**281.3**	**153.7**	**2262.**	**40.10**	**.2945**	**7807.**
Stddev	9.	.402	6.0	.3	11.	.64	1.268	166.
%RSD	.1237	8.172	2.131	.2189	.4859	1.606	430.4	2.129
#1	7259.	5.383	286.5	153.8	2255.	39.92	-1.111	7880.
#2	7264.	4.695	282.7	153.9	2275.	40.81	1.351	7925.
#3	7277.	4.678	274.8	153.3	2256.	39.55	.6444	7617.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**36.23**	**139.0**	**934.2**	**1.539**	**219.9**	**742.5**
Stddev	.63	1.8	2.7	1.996	.9	2.0
%RSD	1.726	1.286	.2929	129.7	.4049	.2705
#1	35.50	139.9	931.1	3.843	220.5	740.4
#2	36.58	140.2	935.7	.3889	218.9	744.3
#3	36.60	136.9	935.9	.3852	220.3	742.9

Sample Name: 1212042-01 Acquired: 12/13/2012 12:43:21 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212042)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**354.41**	**44.337**	**972.87**
Stddev	.95	.271	1.02
%RSD	.26795	.61090	.10479
#1	354.93	44.220	972.13
#2	353.31	44.145	974.03
#3	354.98	44.647	972.46

Sample Name: S212047-CCV3 Acquired: 12/13/2012 12:51:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**214.2**	W **5543.**	**210.4**	**211.6**	**216.9**	**204.9**	W **5512.**	**213.6**
Stddev	5.5	52.	1.5	2.0	1.6	1.8	60.	1.8
%RSD	2.572	.9420	.7269	.9475	.7425	.8620	1.080	.8469
#1	208.6	5594.	209.6	210.8	217.9	206.2	5571.	213.2
#2	214.2	5546.	209.4	210.1	217.7	205.6	5512.	212.0
#3	219.6	5489.	212.2	213.9	215.0	202.9	5452.	215.5
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value		5000.					5000.	
Range		10.00%					10.00%	

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**212.7**	**216.3**	W **220.2**	W **5591.**	**5225.**	**5249.**	**5324.**	**5460.**
Stddev	2.2	1.7	7.2	144.	17.	18.	64.	56.
%RSD	1.024	.7878	3.268	2.574	.3321	.3412	1.205	1.026
#1	212.0	215.7	213.4	5451.	5225.	5268.	5262.	5518.
#2	211.0	215.0	219.5	5582.	5242.	5244.	5320.	5456.
#3	215.2	218.3	227.7	5739.	5208.	5233.	5390.	5406.
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			200.0	5000.				
Range			10.00%	10.00%				

Sample Name: S212047-CCV3 Acquired: 12/13/2012 12:51:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**213.1**	**214.2**	**5390.**	**218.1**	**210.6**	**214.7**	**210.6**	**5267.**
Stddev	6.0	1.9	10.	2.0	2.0	2.3	1.7	10.
%RSD	2.811	.9079	.1866	.9237	.9717	1.051	.7900	.1926
#1	207.5	213.3	5402.	217.5	211.1	212.5	211.1	5257.
#2	212.5	212.8	5382.	216.5	208.4	214.6	208.8	5266.
#3	219.4	216.4	5387.	220.4	212.4	217.0	212.0	5278.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**210.6**	W **221.1**	**209.6**	**205.6**	W **220.5**	**208.8**
Stddev	2.0	2.3	6.2	3.4	4.4	2.4
%RSD	.9304	1.023	2.955	1.647	1.976	1.147
#1	209.7	223.3	203.7	202.9	216.2	207.7
#2	209.3	221.2	209.0	204.5	220.5	207.2
#3	212.9	218.8	216.1	209.4	224.9	211.6
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Warn	Chk Pass
Value		200.0			200.0	
Range		10.00%			10.00%	

Sample Name: S212047-CCV3 Acquired: 12/13/2012 12:51:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**347.09**	**41.990**	**939.79**
Stddev	2.44	.477	24.47
%RSD	.70342	1.1348	2.6035
#1	348.12	42.084	964.30
#2	348.85	42.412	939.72
#3	344.31	41.473	915.36

Sample Name: S212047-CCB3 Acquired: 12/13/2012 12:59:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0451**	**-11.25**	**.1165**	**.6537**	**-.0787**	**.1396**	**-15.57**	**.0290**	**-.0196**
Stddev	.2233	26.12	.4955	.1395	.2938	.3139	21.35	.0526	.1136
%RSD	494.8	232.3	425.3	21.34	373.4	224.8	137.1	181.4	578.5
#1	-.1523	6.273	-.1075	.6571	-.1527	-.1849	-29.60	.0245	-.0413
#2	.0002	-41.27	-.2274	.7914	-.3284	.4416	8.996	-.0212	-.1209
#3	.2874	1.263	.6845	.5125	.2451	.1621	-26.11	.0837	.1033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0559**	**1.015**	**10.93**	**-20.49**	**-18.78**	**-85.67**	**-5.032**	**.0834**	**.1101**
Stddev	.1576	.813	.28	10.43	83.68	20.69	19.42	.1454	.2322
%RSD	281.8	80.09	2.531	50.92	445.7	24.15	385.9	174.4	210.8
#1	-.0044	1.340	10.78	-23.88	67.15	-63.69	7.588	.2042	.3389
#2	.2347	.0898	10.75	-8.785	-100.0	-104.8	-27.39	.1241	.1168
#3	-.0626	1.615	11.24	-28.81	-23.47	-88.54	4.707	-.0781	-.1253
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212047-CCB3 Acquired: 12/13/2012 12:59:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.397**	**.0564**	**.4277**	**-.1768**	**.7251**	**48.67**	**.3769**	**-.1167**	**-.0941**
Stddev	10.48	.2419	1.517	1.471	2.193	20.42	.5352	.0867	.0511
%RSD	124.8	429.0	354.7	832.3	302.4	41.95	142.0	74.30	54.38
#1	3.928	-.2083	1.776	-.7259	2.618	25.10	-.1039	-.2159	-.1493
#2	20.37	.1115	-1.215	-1.295	-1.678	60.94	.2809	-.0547	-.0845
#3	.8919	.2659	.7214	1.490	1.236	59.96	.9535	-.0797	-.0484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.1947**	**-.9973**	**.0732**
Stddev	1.163	.8422	.0793
%RSD	597.1	84.44	108.4
#1	-.4706	-1.909	.1297
#2	-1.195	-.2486	.1074
#3	1.081	-.8343	-.0175
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212047-CCB3 Acquired: 12/13/2012 12:59:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.15**	**42.409**	**929.78**
Stddev	1.40	.368	9.27
%RSD	.41697	.86821	.99668
#1	336.76	42.698	936.04
#2	334.38	41.995	934.15
#3	334.31	42.535	919.13

Sample Name: S212047-LCV3 Acquired: 12/13/2012 13:05:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.486**	**105.0**	**8.173**	F **14.46**	**118.6**	**2.878**	**576.8**	F **3.974**	**25.60**
Stddev	.673	34.2	1.233	.21	.7	.511	34.0	.090	.03
%RSD	12.28	32.57	15.09	1.423	.5585	17.74	5.887	2.273	.0981
#1	5.927	85.58	9.149	14.23	117.9	2.355	550.1	4.077	25.62
#2	5.820	84.98	8.583	14.62	118.5	3.376	615.0	3.907	25.57
#3	4.711	144.5	6.788	14.55	119.2	2.904	565.3	3.938	25.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				10.00				3.000	
Range				30.00%				30.00%	

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.421**	**12.68**	**63.33**	**60.17**	**608.9**	**597.1**	**593.5**	**6.272**	**11.66**
Stddev	.045	.48	1.16	38.95	134.3	116.4	12.2	.056	.19
%RSD	.7042	3.766	1.827	64.72	22.05	19.49	2.050	.8930	1.647
#1	6.462	12.58	62.78	16.57	762.6	723.6	600.8	6.322	11.87
#2	6.373	13.20	64.66	72.43	550.0	573.2	579.5	6.211	11.61
#3	6.428	12.27	62.56	91.52	514.2	494.6	600.3	6.282	11.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212047-LCV3 Acquired: 12/13/2012 13:05:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1157.**	**22.84**	**8.441**	**24.64**	**22.95**	**551.7**	**12.06**	**12.95**	**10.91**
Stddev	11.	.17	.600	1.17	.92	70.7	.55	.07	.11
%RSD	.9767	.7486	7.110	4.769	4.007	12.81	4.588	.5357	1.047
#1	1148.	22.68	8.881	24.83	23.94	473.7	11.49	13.03	10.79
#2	1170.	23.02	7.758	25.71	22.80	570.1	12.09	12.90	11.01
#3	1154.	22.81	8.686	23.38	22.12	611.4	12.59	12.93	10.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.30**	**23.42**	**24.35**
Stddev	1.59	1.14	.04
%RSD	8.709	4.865	.1786
#1	18.65	23.32	24.37
#2	16.56	24.60	24.30
#3	19.69	22.33	24.37
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-LCV3 Acquired: 12/13/2012 13:05:24 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.23**	**41.721**	**933.37**
Stddev	1.40	.203	7.00
%RSD	.41280	.48572	.74974
#1	336.64	41.691	935.94
#2	339.26	41.535	925.45
#3	338.79	41.937	938.71

Sample Name: S212047-LCV4 Acquired: 12/13/2012 13:11:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.40**	**252.4**	**18.54**	F **27.05**	**236.6**	**6.003**	**1172.**	F **7.896**	**51.03**
Stddev	.55	29.9	1.84	.31	2.1	.172	24.	.067	.55
%RSD	4.810	11.87	9.939	1.160	.8704	2.865	2.090	.8415	1.076
#1	11.21	264.4	20.10	27.19	234.2	6.173	1149.	7.941	51.26
#2	12.02	274.4	16.50	26.69	237.6	6.007	1197.	7.820	50.41
#3	10.98	218.3	19.01	27.27	238.0	5.829	1169.	7.928	51.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value				20.00				6.000	
Range				30.00%				30.00%	

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12.75**	**24.16**	**120.8**	**92.22**	**1209.**	**1216.**	**1203.**	**12.32**	**23.28**
Stddev	.21	.22	.6	12.56	104.	42.	19.	.17	.31
%RSD	1.636	.9139	.5115	13.62	8.558	3.417	1.546	1.343	1.316
#1	12.91	24.27	121.5	106.5	1240.	1176.	1189.	12.49	23.31
#2	12.52	24.29	120.6	82.70	1294.	1213.	1224.	12.30	22.95
#3	12.83	23.90	120.3	87.51	1094.	1259.	1195.	12.16	23.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212047-LCV4 Acquired: 12/13/2012 13:11:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2290.**	**45.73**	**18.35**	**47.94**	**45.85**	**1146.**	**23.22**	**25.62**	**21.67**
Stddev	26.	.73	.59	.24	.37	88.	.55	.28	.26
%RSD	1.128	1.602	3.224	.5039	.8010	7.719	2.359	1.094	1.185
#1	2260.	46.22	17.89	47.83	46.24	1044.	22.82	25.31	21.87
#2	2301.	44.89	19.02	47.77	45.78	1198.	23.00	25.71	21.75
#3	2308.	46.10	18.15	48.21	45.52	1196.	23.85	25.85	21.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**43.44**	**48.47**	**47.08**
Stddev	2.13	1.49	.59
%RSD	4.904	3.066	1.260
#1	43.24	50.18	47.35
#2	41.42	47.72	46.40
#3	45.67	47.50	47.49
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212047-LCV4 Acquired: 12/13/2012 13:11:35 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**337.87**	**41.668**	**926.12**
Stddev	3.24	.249	2.98
%RSD	.95885	.59788	.32145
#1	337.26	41.951	926.49
#2	341.37	41.483	922.98
#3	334.98	41.570	928.90

Sample Name: S212047-IFA2 Acquired: 12/13/2012 13:17:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4743**	**361100.**	**-1.030**	**-3.061**	**.5317**	**.4205**	**335700.**	**1.444**
Stddev	.6482	4069.	1.836	.533	.4099	.7461	4258.	.258
%RSD	136.7	1.127	178.2	17.42	77.10	177.4	1.269	17.89
#1	-.0536	364800.	-2.724	-3.672	.9842	-.4408	339400.	1.648
#2	-.1486	356800.	.9203	-2.698	.1853	.8326	331000.	1.531
#3	-1.221	361800.	-1.286	-2.811	.4255	.8697	336600.	1.154
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.361**	**1.864**	**-2.095**	**235800.**	**310300.**	**-459.0**	**348900.**	**304600.**
Stddev	.107	.113	.422	1520.	3249.	70.8	3774.	3312.
%RSD	3.184	6.064	20.13	.6447	1.047	15.43	1.082	1.087
#1	-3.395	1.923	-2.040	234400.	313600.	-540.5	352900.	307900.
#2	-3.447	1.935	-2.542	235500.	307100.	-412.4	345400.	301200.
#3	-3.241	1.733	-1.704	237400.	310200.	-424.2	348500.	304700.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212047-IFA2 Acquired: 12/13/2012 13:17:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3781**	**-2.011**	**362100.**	**-8.720**	**1.586**	**4.436**	**-1.624**	**-197.2**
Stddev	.0546	.415	4117.	.285	.214	1.198	2.641	105.8
%RSD	14.44	20.62	1.137	3.265	13.51	27.01	162.6	53.64
#1	.3706	-1.776	365800.	-9.049	1.386	3.119	-2.545	-319.3
#2	.4361	-1.768	357700.	-8.553	1.812	5.461	1.354	-135.9
#3	.3277	-2.490	362900.	-8.558	1.560	4.728	-3.682	-136.3
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.939**	**-4.995**	**-3.814**	**-13.69**	**7.327**	**4.500**
Stddev	1.754	.303	.170	.64	.910	.083
%RSD	90.43	6.067	4.467	4.653	12.42	1.832
#1	3.039	-4.686	-3.629	-14.29	7.469	4.589
#2	2.862	-5.006	-3.964	-13.03	8.158	4.485
#3	-.0832	-5.292	-3.850	-13.76	6.354	4.427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212047-IFA2 Acquired: 12/13/2012 13:17:46 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**305.83**	**40.439**	**858.06**
Stddev	3.61	.348	2.72
%RSD	1.1814	.86148	.31720
#1	302.19	40.183	860.40
#2	305.88	40.836	858.72
#3	309.41	40.299	855.07

REGION 2 LABORATORY
RAW DATA CROSS-REFERENCE & FILE LOCATION SHEET

PROJECT NO. 1212042 SITE NAME Jewett white SAMPLE RECEIPT DATE _____

WO 1212052, 1212046

LOGBOOK LOCATION			BACKUP DATA LOCATION	
ANALYTE	LOGBOOK ID	PAGE #	PROJECT NO.	SITE NAME
ICP	EPA IRIS-5	419		
	B212106/B212107/S212052			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212052 1212046	Analysis Lead ICP	Matrix Solid

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	WR	12/14/2012
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	WR	12/14/2012
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	WR	12/14/2012
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	WR	12/14/2012
ICB < Reporting Limit?	YES	WR	12/14/2012
RL Low Level recovery ±30%?	YES	WR	12/14/2012
2RL Low Level Recovery ±30%?	YES	WR	12/14/2012
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	WR	12/14/2012
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	WR	12/14/2012
CCBs < Reporting Limit?	YES	WR	12/14/2012
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	WR	12/14/2012
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	WR	12/14/2012
Blank data		Analyst Initials	Date

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212052 1212046	Analysis Lead ICP	Matrix Solid

Prep Blank < Reporting Limit?	YES	*	WR	12/14/2012
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		WR	12/14/2012
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	WR	12/14/2012
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	WR	12/14/2012
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	NO	*	WR	12/14/2012

Matrix Spike Recovery for Lead (-210%) was outside acceptance limits (75-125) in B212106-MS1 for Lead ICP. Sample concentration > 1X the spike level.

Matrix Spike Recovery for Lead (-220%) was outside acceptance limits (75-125) in B212107-MS1 for Lead ICP. Sample concentration > 1X the spike level.

If no, is analyte concentration > 1.0 X the spike concentration?	YES		WR	12/14/2012
RPD between the MS & Serial Dilution < 10%?	YES	*	WR	12/14/2012
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		WR	12/14/2012
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	WR	12/14/2012
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	YES		WR	12/14/2012
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		WR	12/14/2012

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for SEQUENCE

Jewett White Lead - 1212042 1212052 1212046	Analysis Lead ICP	Matrix Solid

Instrument Analysis Log Book entries completed?	YES	WR	12/14/2012
Percent Solids Log Book info entries completed?	YES	WR	12/14/2012
pH Log Book Log Book info entries completed?	NA	WR	12/14/2012

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	WR	12/14/2012
Peer reviewed? Date and person responsible.	YES	*	RL	12/14/2012

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S212052

Instrument: Thermo Iris Intrepid

Printed: 12/14/2012 1:24:12PM

Project Name	Lab Number	Analysis	STD ID
	S212052-CAL1	QC	D2I2024
	S212052-CAL2	QC	D2I2023
	S212052-CAL3	QC	D2J0304
	S212052-ICV1	QC	D2J0905
	S212052-ICB1	QC	D2I2024
	S212052-LCV1	QC	D2J0906
	S212052-LCV2	QC	D2J0907
	S212052-IFA1	QC	D2J2402
	B212106-BLK1	QC	
	B212106-SRM1	QC	
	B212106-SRM2	QC	
Jewett White Lead - 1212042	1212046-01	Lead ICP	
	B212106-MS1	QC	
	B212106-MSD1	QC	
Jewett White Lead - 1212042	1212046-02	Lead ICP	
Jewett White Lead - 1212042	1212046-03	Lead ICP	
Jewett White Lead - 1212042	1212046-04	Lead ICP	
Jewett White Lead - 1212042	1212046-05	Lead ICP	
	S212052-CCV1	QC	D2J0905
	S212052-CCB1	QC	D2I2024
Jewett White Lead - 1212042	1212046-06	Lead ICP	
	B212107-BLK1	QC	
	B212107-SRM1	QC	
	B212107-SRM2	QC	
Jewett White Lead - 1212042	1212052-01	Lead ICP	
	B212107-MS1	QC	
	B212107-MSD1	QC	
Jewett White Lead - 1212042	1212052-02	Lead ICP	
Jewett White Lead - 1212042	1212052-03	Lead ICP	
	S212052-CCV2	QC	D2J0905
	S212052-CCB2	QC	D2I2024
	S212052-LCV3	QC	D2J0906
	S212052-LCV4	QC	D2J0907
	S212052-IFA2	QC	D2J2402

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE

S212052

Instrument: Thermo Iris Intrepid

Printed: 12/14/2012 1:24:12PM

Project Name	Lab Number	Analysis	STD ID

Logbook #: EPA IRIS - 5
Lock #: 0200834

Page #: 49

Thermo Intrepid II IRIS ICAP Analyzer Logbook
Serial #12816

Sop # ✓ C-109 ____ DW-5 File: 121412

Project Name	Project Number	Sample Numbers	Scan Type
Jewett white	1212042	1212046-01 to 1212046-06	Pb
		1212052-01 to 1212052-03	Pb

TAL: Ag, Al, As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Na, Ni, Pb, Se, Sb, Sr, Tl, V, Zn
SLUDGES: As, Cd, Cr, Cu, Mo, Ni, Pb, Se, Zn
TCLP : Ag, As, Ba, Cd, Cr, Pb, Se **METALS FINISHING:** Ag, Cd, Cr, Cu, Ni, Pb, Zn

Promium Batch #	Promium Sequence #	Method
B212106/B212107	S212052	~~EPA-ICP-P~~ / _____
		EPA-ICP-P / _____

Torch Cleaned Y / (N)	
Pump Tubing Changed Y / (N)	

Comments:

Date of Analysis: 12/14/12 Signature of Analyst(s): [signature]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212106

Prepared by: WR
Prepared on: 12/13/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1212046-01	NA	29	Yes	0.5355	50					
	1212046-02	NA	29	Yes	0.6296	50					
	1212046-03	NA	29	Yes	0.5894	50					
	1212046-04	NA	29	Yes	0.6457	50					
	1212046-05	NA	29	Yes	0.6534	50					
	1212046-06	NA	29	Yes	0.5606	50					
	B212106-BLK1	NA	29	Yes	5	50					
	B212106-MS1	NA	29	Yes	0.545	50	D2K2820	50	D2K2822	1000	1212046-01
	B212106-MSD1	NA	29	Yes	0.545	50	D2K2820	50	D2K2822	1000	1212046-01
	B212106-SRM1	NA	29	Yes	0.5119	50	D2F0423	500			
	B212106-SRM2	NA	29	Yes	0.5288	50	D2F0423	500			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212106

Prepared by: WR
Prepared on: 12/13/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.0

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B212107

Prepared by: WR
Prepared on: 12/13/2012

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109

DigiBloc ID: Bob
Temp (Deg C) Start/Final: 95.0/95.1

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2F0423	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2K2820	ICP CAL 1 Trace Spike 250 mg/L	11/30/2013
D2K2822	ICP CAL 2 Minerals Spike 250 mg/L	11/30/2013

Project Name	Sample ID	pH < 2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1212052-01	NA	NA	Yes	0.6453	50					
	1212052-02	NA	NA	Yes	0.6154	50					
	1212052-03	NA	NA	Yes	0.6681	50					
	B212107-BLK1	NA	NA	Yes	5	50					
	B212107-MS1	NA	NA	Yes	0.657	50	D2K2820	40	D2K2822	1000	1212052-01
	B212107-MSD1	NA	NA	Yes	0.657	50	D2K2820	40	D2K2822	1000	1212052-01
	B212107-SRM1	NA	NA	Yes	0.5481	50	D2F0423	548.1			
	B212107-SRM2	NA	NA	Yes	0.5475	50	D2F0423	547.5			

Comments:

	Element, Wavelength and Order	Date of Fit	Type of Fit	Weighting	n (Exponent)	Correlation	Status
	Ag 328.068 {102}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999996	OK.
	Al 396.152 { 85}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999942	OK.
	As 189.042 {177}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999998	OK.
	B 208.959 {161}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999991	OK.
	Ba 455.403 { 74}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999995	OK.
	Be 313.107 {107}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999997	OK.
	Ca 317.933 {105}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999976	OK.
	Cd 214.438 {157}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999993	OK.
	Co 228.616 {147}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999985	OK.
	Cr 205.552 {163}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999998	OK.
	Cu 324.754 {103}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999997	OK.
	Fe 259.940 {129}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999931	OK.
	Fe 259.940 {129}2	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999981	OK.
	K 766.491 { 44}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999909	OK.
	Mg 279.079 {120}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999903	OK.
	Mg 285.213 {117}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999942	OK.
	Mn 257.610 {130}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999981	OK.
	Mo 202.030 {166}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999996	OK.
	Na 589.592 { 57}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999999	OK.
	Ni 231.604 {145}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999994	OK.
	Pb 220.353 {152}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999999	OK.
	Sb 206.833 {162}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999999	OK.
	Se 196.090 {171}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999989	OK.
	Si 251.612 {133}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999984	OK.
	Sn 189.989 {176}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999999	OK.
	Sr 407.771 { 82}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	1.000000	OK.
	Ti 334.941 {100}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999982	OK.
	Tl 190.864 {176}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999999	OK.
	V 292.402 {115}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999992	OK.
	Y 224.306 {150}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 360.073 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Y 361.105 { 93}*	<not fit>	Linear	1/Conc	1.000000	0.000000	OK.
	Zn 206.200 {163}	12/14/2012 09:29:56	Linear	1/Conc	1.000000	0.999965	OK.

	Blank	Mid Std	High Std	S212052-ICV1	S212052-ICB1	S212052-LCV1	S212052-LCV2	S212052-IFA1
	14 Dec 2012 09:11:40	14 Dec 2012 09:17:56	14 Dec 2012 09:23:57	14 Dec 2012 09:30:00	14 Dec 2012 09:36:06	14 Dec 2012 09:42:17	14 Dec 2012 09:48:28	14 Dec 2012 09:54:40
Ag3280	0	0.0629	0.1251	202.9	0.2251	4.693	9.976	1.232
Al3961	-0.0009	0.2656	0.5201	5042	7.3	123.9	229.8	316300
As1890	-0.0002	0.0312	0.0624	196	-0.5249	8.376	16.15	-0.963
B2089	0.0004	0.1261	0.2495	197.3	-0.1876	12.18	23.43	-3.587
Ba4554	0.0017	1.437	2.909	198.9	0.4534	106.6	207.1	1.142
Be3131	0.0004	0.9056	1.82	199.6	0.0943	2.831	5.743	-0.1577
Ca3179	0.0031	0.1911	0.3737	5089	46.3	548.9	1054	288300
Cd2144	0.0002	0.698	1.385	199.4	0.0198	3.627	7.261	0.6649
Co2286	-0.0001	0.4136	0.8177	199.7	-0.0888	23.29	46.35	-3.128
Cr2055	-0.0006	0.3132	0.6246	199.4	0.031	5.747	11.33	1.891
Cu3247	0.0014	0.1005	0.1987	202	0.2812	10.25	20.01	-3.286
Fe2599A	-0.0001	0.3184	0.6213	5145	0.2219	54.94	106.4	208700
Fe2599R	0.0006	0.1446	0.2849	5094	-9.423	51.1	87.56	284700
K7664	0.0148	0.1842	0.3442	4945	31.05	570.7	1031	120.3
Mg2790	-0.0006	0.0311	0.0608	5120	28.46	F 746.0	1208	305800
Mg2852	-0.0002	0.26	0.5085	5054	7.021	532.5	1066	272200
Mn2576	0.0001	0.1573	0.3104	203.8	-0.0266	5.542	11.02	0.1332
Mo2020	0.0006	0.2257	0.4482	198.9	0.1011	10.52	20.57	-2.511
Na5895	0.0309	1.38	2.721	5025	11.39	1060	2045	324000
Ni2316	-0.0002	0.2243	0.4454	199	-0.1348	20.39	41.17	-7.634
Pb2203	-0.0001	0.0428	0.0856	198.1	1.021	9.464	17.95	3.794
Sb2068	0	0.0386	0.077	197.3	0.3283	21.34	41.92	3.236
Se1960	0.0005	0.0343	0.0674	192.4	-0.5681	21.46	41.2	-1.223
Si2516	0.0008	0.0315	0.0628	4981	-198.4	395	1013	-288.5
Sn1899	0.0001	0.0383	0.0768	199.2	-0.1515	11.1	21.29	1.351
Sr4077	-0.0003	3.874	7.752	200.3	-0.0252	11.54	22.32	-2.889
Ti3349	0.0007	0.2876	0.5686	203.6	-0.2104	10.02	20.06	-3.745
Tl1908	-0.0004	0.0258	0.0522	194.9	-0.5547	19.19	39.59	-4.329
V2924	-0.0002	0.0323	0.0654	199.6	-0.6063	19.89	40.7	5.631
Zn2062	0	0.4321	0.8491	201.5	-0.0367	23.76	44.27	2.076
Y2243A	338.54	343.64	342.19	349.26	336.29	336.58	335.73	296.86
Y3600R	40.886	40.841	41.223	40.799	40.536	39.739	40.121	37.923
Y3611A	912.79	937.31	928.67	930.76	906.93	930.01	920.41	835.01

	B212106-BLK1	B212106-SRM1	B212106-SRM2	1212046-01	B212106-MS1	B212106-MSD1	1212046-02	1212046-03	1212046-04	1212046-05	S212052-CCV1	S212052-CCB1
	14 Dec 2012 10:00:59	14 Dec 2012 10:07:08	14 Dec 2012 10:13:09	14 Dec 2012 10:19:22	14 Dec 2012 10:25:38	14 Dec 2012 10:31:53	14 Dec 2012 10:37:57	14 Dec 2012 10:44:12	14 Dec 2012 10:50:28	14 Dec 2012 10:56:43	14 Dec 2012 11:03:00	14 Dec 2012 11:09:05
Ag3280	-0.3485	39.54	39.99	-2.646	232.2	234	-2.854	-5.361	-5.006	-4.663	194.8	0.177
Al3961	75.49	5457	5959	62980	91930	96700	72730	68690	71820	83270	4813	-7.535
As1890	-0.3266	156.2	161.2	63.56	296.2	298.1	83.88	79.48	56.36	66.2	180.6	0.6312
B2089	-0.0958	75.95	78.28	20.68	264	262.1	21.43	21.3	26.3	21.56	180.2	-0.3119
Ba4554	0.4336	180.2	188.8	311.9	568.8	603.1	304.9	362.1	702.2	685.1	193.7	0.3729
Be3131	0.0167	100.2	102.7	0.7886	229.3	242.8	1.453	1.043	2.633	2.704	187.4	0.0972
Ca3179	117.7	6173	6306	15260	17090	18080	13740	16650	48680	17860	4904	22.6
Cd2144	-0.0035	92.97	93.85	-0.2267	227.7	233.1	-0.1432	0.3975	0.9034	1.847	188	-0.0096
Co2286	-0.0297	117.4	120.7	33.7	269.4	275.3	41.1	81.13	53.62	60.34	185.1	-0.1345
Cr2055	-0.048	105.5	108.2	114.9	378	382.4	145.4	156.2	118.5	145.6	187.6	0.106
Cu3247	0.1988	112	113	109.3	361	356.4	115.1	148.7	199.7	197.9	189.1	-0.942
Fe2599A	F 53.67	s 8958.	9376	137000	149500	193300	163900	159400	130300	154100	4959	3.727
Fe2599R	22.94	9675	10500	160900	181300	197300	206400	195900	148300	185100	4691	-5.53
K7664	32.83	2351	2480	5600	13710	14080	6318	6134	6299	6053	4739	74.44
Mg2790	157.9	F 2107.	2222	11700	18990	19280	12490	13000	18780	17080	4855	106.8
Mg2852	47.43	2174	2287	11910	19160	20430	12800	13340	19100	17530	4828	9.139
Mn2576	0.0531	301.5	301.6	1246	1732	1827	1584	3368	3252	3219	191.1	-0.0736
Mo2020	-0.3641	61.28	62.6	7.28	236.3	234.5	8.079	6.993	4.495	5.075	183.5	-0.2321
Na5895	177.7	304.7	314.1	283.4	4954	5093	288.7	334	469.6	351.8	4891	-4.056
Ni2316	-0.1214	64.04	65.2	58.4	313.4	313.2	63.55	64.4	127.9	101.4	187.9	0.0361
Pb2203	0.7013	70.83	69.95	1505	1007	1021	602.5	828.5	6106	867.7	184.2	0.6777
Sb2068	0.0233	193.2	201.1	6.889	226.9	226.7	7.837	7.134	8.108	9.611	183.8	-0.5039
Se1960	0.1241	118	120.2	-1.262	213.9	218.1	-3.546	-2.136	-1.129	0.2399	180.5	-0.7033
Si2516	-34.87	810	690.5	5651	11810	11860	5157	4820	5823	6209	4686	68.78
Sn1899	-0.0097	132.4	139.1	26.71	248.2	253.1	46.65	13.41	29.37	29.82	189.9	0.5922
Sr4077	0.058	114.3	123.1	157.2	383.5	403.2	153.9	107.8	292.8	174	191.2	0.0118
Ti3349	-0.0105	131.7	136	1176	1629	1708	1244	1235	1059	1183	193	-0.1066
Tl1908	-0.1564	187.2	194	-1.955	232.5	236	-4.37	-4.551	-2.46	-3.5	184.8	-1.468
V2924	-0.1575	78.31	79.76	233.7	518	537.3	288	258.2	197.6	249.3	194.6	-0.4112
Zn2062	2.542	239.2	246.7	286.5	586.7	614.6	297.8	342	638	1693	187.2	-0.0536
Y2243A	337.34	349.22	347.62	352.37	353.01	355.72	354.94	352.63	364.62	362.28	357.52	349.03
Y3600R	40.156	42.559	42.331	41.489	42.206	39.695	41.571	41.125	43.513	42.972	39.228	39.653
Y3611A	912.04	933.29	950.55	938.27	961.48	943.27	963.81	951.23	987.79	987.26	930.05	928.39

	1212046-06	B212107-BLK1	B212107-SRM1	B212107-SRM2	1212052-01	B212107-MS1	B212107-MSD1	1212052-02	1212052-03	S212052-CCV2	S212052-CCB2	S212052-LCV3	S212052-LCV4	S212052-IFA2
	14 Dec 2012 11:15:15	14 Dec 2012 11:21:32	14 Dec 2012 11:27:41	14 Dec 2012 11:33:53	14 Dec 2012 11:40:06	14 Dec 2012 11:46:22	14 Dec 2012 11:52:36	14 Dec 2012 11:58:40	14 Dec 2012 12:04:56	14 Dec 2012 12:11:13	14 Dec 2012 12:17:19	14 Dec 2012 12:23:29	14 Dec 2012 12:29:40	14 Dec 2012 12:35:51
Ag3280	-3.326	0.1021	38.88	38.15	-3.465	173	175.9	-3.915	-4.56	189.9	-0.5918	4.563	9.455	1.106
Al3961	54880	18.64	5134	5496	64050	87910	94200	58720	80120	4704	19.02	116.3	229.5	304100
As1890	49.84	-0.2895	151.9	153	43.96	204.5	209.7	39.85	67.9	181.8	-0.4991	8.426	15.81	0.3925
B2089	13.95	-0.5468	74.22	74.85	17.04	190.2	194.1	15.84	20.2	180.6	-0.5812	10.99	21.52	-3.258
Ba4554	297	0.5598	F 172.1	178.6	499	676.6	726.5	459.9	451.3	189.8	0.2285	104.6	208.1	0.6839
Be3131	1.468	-0.1389	94.45	96.31	1.926	166.8	174.6	2.073	2.562	182.2	-0.3127	2.713	6.028	0.016
Ca3179	8687	40.77	5831	6187	48640	107100	116400	36730	14400	4785	27.23	560	1045	287600
Cd2144	-0.3069	-0.0363	90.95	91.26	1.515	162.9	172.8	0.7327	-0.3768	189.7	-0.0124	3.519	6.818	0.0729
Co2286	44.04	-0.0083	114.8	116.4	47.81	207.8	219.5	42.86	68.02	185.3	-0.071	22.25	43.11	-2.724
Cr2055	99.31	0.0735	103.5	105.3	98	284.2	300.6	91.75	126.1	187.4	0.1341	5.585	10.89	2.013
Cu3247	73.23	-0.5119	108.6	106.8	170	329.2	320.3	179.2	90.96	181.1	-1.07	9.161	18.52	-3.792
Fe2599A	122000	23.7	8789	8949	119100	119500	149100	114300	157400	4846	4.45	55.53	105.9	210900
Fe2599R	138300	-2.291	8976	9597	128700	131600	145600	125100	191000	4518	7.022	F 31.37	96.65	268700
K7664	4661	64.31	F 2255.	2336	4829	11350	11760	4357	5710	4632	-21.54	589.1	1151	166.6
Mg2790	13990	136.3	F 1979.	F 2068.	31370	70700	76400	16490	16290	4705	86.88	629.8	1233	296300
Mg2852	14420	15.47	F 2046.	2128	32100	70570	77370	16740	16710	4720	-5.708	508.2	1036	263500
Mn2576	1961	0.4506	285.9	287.9	2662	2701	2871	2745	3223	185.2	-0.0544	5.391	10.54	-0.185
Mo2020	2.548	-0.3703	59.67	61.12	3.952	166.9	168.9	3.388	2.924	183.5	-0.379	9.708	18.98	-2.057
Na5895	142.8	34.42	283.4	295	262.2	4722	4806	348.4	253.9	4796	-10.69	1042	2041	315500
Ni2316	73.26	-0.069	62.96	63.7	117.7	298.8	312.7	107	76.33	189.7	-0.2921	19.83	39.12	-8.082
Pb2203	153	0.5864	66.43	66.99	2129	1727	1809	1528	202.8	186.4	0.892	8.821	15.44	3.569
Sb2068	5.73	-0.705	191.6	192	8.227	167.3	164.8	5.658	4.878	182.9	-0.3993	20.31	38.58	2.23
Se1960	-2.551	-0.1416	114	115	-1.558	155.4	154	-2.214	-2.893	180.9	-1.05	18.67	37.86	-1.45
Si2516	4988	-131.6	712.5	748.1	5731	14990	17570	5603	5480	W 4421.	-142.9	F 317.5	1079	-268.6
Sn1899	3.296	-0.1415	133.1	133	19.52	183.4	191.4	16.91	11.1	192.2	-0.6151	10.8	19.39	1.077
Sr4077	132.9	0.126	109.4	114.1	176.6	357.2	385.6	194.8	108.4	186.4	0.0106	11.11	21.82	-4.108
Ti3349	861.2	-0.0313	122.1	129.7	932.1	1138	1236	857.1	1273	187.4	-0.2368	9.806	19.32	-3.621
Tl1908	-3.256	-0.9066	185	186.3	-1.894	166.5	174.8	-2.077	-3.206	185.5	0.7679	18.82	35.85	-3.939
V2924	170.8	-1.07	77.18	77.24	184	368.9	388.3	173.6	259.5	189.9	-0.5097	20.8	41.11	5.998
Zn2062	475	1.165	236.1	240.7	827.8	756.4	828.1	631.2	308.7	188.6	-0.0182	22.5	41.12	4.043
Y2243A	363.18	347.28	364.31	359.76	369.99	369.91	372.58	389.85	377.53	366.46	351.23	349.43	355.69	321.57
Y3600R	41.428	39.073	43.718	42.641	42.797	42.24	40.053	43.901	41.824	39.797	39.38	38.935	38.59	37.782
Y3611A	974.8	923.73	970.65	983.55	979.03	980.13	976.91	1020.9	996.13	973.55	925.8	928.16	931.16	873.72

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD
		Lower	Upper	B212106-SRM1	B212106-SRM2			
				14 Dec 2012 10:07:08	14 Dec 2012 10:13:09			
Silver	42.3	28.1	56.6	39.5	40.0	39.8	94.0%	1.13%
Aluminum	9310	4470	14200	5457	5959	5708	61.3%	8.79%
Arsenic	168	140	197	156.2	161.2	158.7	94.5%	3.15%
Boron	85	66	104	76.0	78.3	77.1	90.6%	3.02%
Barium	213	177	249	180.2	188.8	184.5	86.6%	4.66%
Beryllium	110.0	92.6	128	100.2	102.7	101.5	92.2%	2.46%
Calcium	6870	5700	8040	6173.0	6306.0	6239.5	90.8%	2.13%
Cadmium	103	86	119	93.0	93.9	93.4	90.7%	0.94%
Cobalt	131.0	109.0	153	117.4	120.7	119.1	90.9%	2.77%
Chromium	119.0	97.1	140	105.5	108.2	106.9	89.8%	2.53%
Copper	118.0	96.3	139	112.0	113.0	112.5	95.3%	0.89%
Iron 2599 A	13000	6560	19400	8958.0	9376.0	9167.0	70.5%	4.56%
Iron 2599 R	13000	6560	19400	9675.0	10500.0	10087.5	77.6%	8.18%
Potassium	3130	2270	3980	2351.0	2480.0	2415.5	77.2%	5.34%
Magnesium 2790	2780	2110	3450	2107.0	2222.0	2164.5	77.9%	5.31%
Magnesium 2852	2780	2110	3450	2174.0	2287.0	2230.5	80.2%	5.07%
Manganese	338	279	397	301.5	301.6	301.6	89.2%	0.03%
Molybdenum	61.5	41.6	84.8	61.3	62.6	61.9	100.7%	2.13%
Sodium	350	258	441	304.7	314.1	309.4	88.4%	3.04%
Nickel	70.0	57.2	82.7	64.0	65.2	64.6	92.3%	1.80%
Lead	76.9	62.5	91.3	70.8	70.0	70.4	91.5%	1.25%
Antimony	120	20	263	193.2	201.1	197.2	164.3%	4.01%
Selenium	126	101	152	118.0	120.2	119.1	94.5%	1.85%
Silicon	not evaluated			810.0	690.5	750.3	#VALUE!	15.93%
Tin	142	112	172	132.4	139.1	135.8	95.6%	4.94%
Strontium	133	108	158	114.3	123.1	118.7	89.2%	7.41%
Titanium	219	38	401	131.7	136.0	133.9	61.1%	3.21%
Thallium	208	169	247	187.2	194.0	190.6	91.6%	3.57%
Vanadium	87.1	67.6	107	78.3	79.8	79.0	90.7%	1.83%
Zinc	276	227	325	239.2	246.7	243.0	88.0%	3.09%

LCS SOIL D077-540

Element	True Value mg/Kg	Acceptance Limits mg/Kg		LCS 1 mg/Kg	LCS 2 mg/Kg	Average mg/Kg	% Recovery	RPD	
		Lower	Upper	B212107-SRM1	B212107-SRM2				
				14 Dec 2012 11:27:41	14 Dec 2012 11:33:53				
Silver	42.3	28.1	56.6	38.9	38.2	38.5	91.1%	1.90%	
Aluminum	9310	4470	14200	5134	5496	5315	57.1%	6.81%	
Arsenic	168	140	197	151.9	153.0	152.5	90.7%	0.72%	
Boron	85	66	104	74.2	74.9	74.5	87.6%	0.85%	
Barium	213	177	249	172.1	178.6	175.4	82.3%	3.71%	L
Beryllium	110.0	92.6	128	94.5	96.3	95.4	86.7%	1.95%	
Calcium	6870	5700	8040	5831.0	6187.0	6009.0	87.5%	5.92%	
Cadmium	103	86	119	91.0	91.3	91.1	88.5%	0.34%	
Cobalt	131.0	109.0	153	114.8	116.4	115.6	88.2%	1.38%	
Chromium	119.0	97.1	140	103.5	105.3	104.4	87.7%	1.72%	
Copper	118.0	96.3	139	108.6	106.8	107.7	91.3%	1.67%	
Iron 2599 A	13000	6560	19400	8789.0	8949.0	8869.0	68.2%	1.80%	
Iron 2599 R	13000	6560	19400	8976.0	9597.0	9286.5	71.4%	6.69%	
Potassium	3130	2270	3980	2255.0	2336.0	2295.5	73.3%	3.53%	
Magnesium 2790	2780	2110	3450	1979.0	2068.0	2023.5	72.8%	4.40%	L
Magnesium 2852	2780	2110	3450	2046.0	2128.0	2087.0	75.1%	3.93%	L
Manganese	338	279	397	285.9	287.9	286.9	84.9%	0.70%	
Molybdenum	61.5	41.6	84.8	59.7	61.1	60.4	98.2%	2.40%	
Sodium	350	258	441	283.4	295.0	289.2	82.6%	4.01%	
Nickel	70.0	57.2	82.7	63.0	63.7	63.3	90.5%	1.17%	
Lead	76.9	62.5	91.3	66.4	67.0	66.7	86.7%	0.84%	
Antimony	120	20	263	191.6	192.0	191.8	159.8%	0.21%	
Selenium	126	101	152	114.0	115.0	114.5	90.9%	0.87%	
Silicon	not evaluated			712.5	748.1	730.3	#VALUE!	4.87%	
Tin	142	112	172	133.1	133.0	133.1	93.7%	0.08%	
Strontium	133	108	158	109.4	114.1	111.8	84.0%	4.21%	
Titanium	219	38	401	122.1	129.7	125.9	57.5%	6.04%	
Thallium	208	169	247	185.0	186.3	185.7	89.3%	0.70%	
Vanadium	87.1	67.6	107	77.2	77.2	77.2	88.6%	0.08%	
Zinc	276	227	325	236.1	240.7	238.4	86.4%	1.93%	

Manual Calculation

sample # 1212046-01

analyte Pb

result Mg/Kg = $\frac{\text{instrument result X dilution factor X Volume in L}}{\text{weight of sample X (\% solids/100)}}$

result Mg/Kg = $\frac{1505 \times 1 \times 0.05}{0.5355 \times (85.14 / 100)}$

result Mg/Kg = $\frac{75.25}{0.4559}$

result Mg/Kg = 165.1

VL 12-14-12

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1212046		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			12/13/2012	Time:	3:00 PM	
	Date removed from oven at 103-105degC:			12/14/2012	Time:	8:30 AM	
	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1212046-01	0.9247	8.8258	7.6518	85.14%	14.86%	
1D	1212046-01	0.9306	8.9027	7.7282	85.27%	14.73%	
2	1212046-02	0.9310	8.2574	7.1797	85.29%	14.71%	
3	1212046-03	0.9308	8.8640	7.8567	87.30%	12.70%	
4	1212046-04	0.9212	8.3898	7.0490	82.05%	17.95%	
5	1212046-05	0.9328	9.1374	7.9458	85.48%	14.52%	
6	1212046-06	0.9336	9.1785	8.1451	87.47%	12.53%	
7					#DIV/0!	#DIV/0!	
8					#DIV/0!	#DIV/0!	
9					#DIV/0!	#DIV/0!	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
						RPD<20%	RPD<20%
				85.20%	14.80%	0.15%	0.85%
	*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
	PERCENT = SOLIDS	(C - A) (B - A)	(*100)	PERCENT = MOISTURE	(B - C) (B - A)	(*100)	

Analyst: [signature]

Date: 12/14/12

Checked by: [signature]

Date Checked: 12-14-12

Book# EPA Solids-Metals-7
Lock # 0200793

Page # _____

	Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
	Project Name:	Jewett White		Project Number:	1212052		
	Project Name:			Project Number:			
	Oven # 27		Balance # 29				
	Date placed in oven at 103-105degC:			12/13/2012	Time:	6:22 PM	
	Date removed from oven at 103-105degC:			12/14/2012	Time:	8:30 AM	
	SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1	1212052-01	0.9180	8.2888	7.1902	85.10%	14.90%	
1D	1212052-01	0.9219	8.0989	7.0562	85.47%	14.53%	
2	1212052-02	0.9211	8.6211	7.5124	85.60%	14.40%	
3	1212052-03	0.9219	8.2554	7.2736	86.61%	13.39%	
4					#DIV/0!	#DIV/0!	
5					#DIV/0!	#DIV/0!	
6					#DIV/0!	#DIV/0!	
7					#DIV/0!	#DIV/0!	
8					#DIV/0!	#DIV/0!	
9					#DIV/0!	#DIV/0!	
10					#DIV/0!	#DIV/0!	
11					#DIV/0!	#DIV/0!	
12					#DIV/0!	#DIV/0!	
13					#DIV/0!	#DIV/0!	
14					#DIV/0!	#DIV/0!	
15					#DIV/0!	#DIV/0!	
16					#DIV/0!	#DIV/0!	
17					#DIV/0!	#DIV/0!	
18					#DIV/0!	#DIV/0!	
19					#DIV/0!	#DIV/0!	
20					#DIV/0!	#DIV/0!	
				Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
						RPD<20%	RPD<20%
				85.28%	14.72%	0.44%	2.56%
	*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
	PERCENT = SOLIDS	(C - A) / (B - A)	(*100)	PERCENT = MOISTURE	(B - C) / (B - A)	(*100)	

Analyst: _____

Date: 12/14/12

Checked by: _____

Date Checked: 12-14-12

Sample Name: Blank Acquired: 12/14/2012 09:11:40 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**-.0009**	**-.0002**	**.0004**	**.0017**	**.0004**	**.0031**	**.0002**	**-.0001**
Stddev	.000	.0008	.0000	.0001	.0017	.0007	.0000	.0001	.0001
%RSD	135.2	94.17	26.93	16.89	95.70	184.5	1.469	44.02	86.42
#1	-.0001	.0001	-.0002	.0003	.0035	.0011	.0031	.0001	-.0002
#2	.0000	-.0014	-.0002	.0004	.0003	-.0003	.0030	.0002	.0000
#3	-.0001	-.0012	-.0001	.0005	.0014	.0003	.0031	.0001	-.0002

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**.0014**	**-.0001**	**.0006**	**.0148**	**-.0006**	**-.0002**	**.0001**	**.0006**
Stddev	.0000	.0000	.0000	.0007	.0021	.0002	.0005	.0000	.0000
%RSD	2.881	3.012	24.77	117.9	14.46	33.14	211.0	7.791	3.092
#1	-.0006	.0014	-.0001	-.0001	.0124	-.0006	-.0003	.0001	.0007
#2	-.0006	.0014	-.0001	.0007	.0160	-.0004	.0003	.0001	.0007
#3	-.0006	.0013	-.0001	.0014	.0161	-.0008	-.0007	.0001	.0006

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0309**	**-.0002**	**-.0001**	**.0000**	**.0005**	**.0008**	**.0001**	**-.0003**	**.0007**
Stddev	.0014	.0000	.0002	.0001	.0001	.0004	.0000	.0003	.0001
%RSD	4.560	20.75	240.0	151.0	11.08	50.83	15.36	87.32	15.84
#1	.0293	-.0001	.0001	.0000	.0005	.0005	.0001	-.0001	.0008
#2	.0321	-.0002	-.0002	.0000	.0005	.0013	.0002	-.0007	.0006
#3	.0313	-.0001	-.0001	.0001	.0006	.0006	.0001	-.0002	.0007

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**-.0004**	**-.0002**	**.0000**
Stddev	.0001	.0000	.000
%RSD	13.30	9.727	294.7
#1	-.0005	-.0002	-.0001
#2	-.0004	-.0002	.0000
#3	-.0004	-.0002	-.0001

Sample Name: Blank Acquired: 12/14/2012 09:11:40 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**338.54**	**40.886**	**912.79**
Stddev	4.54	.084	7.69
%RSD	1.3413	.20446	.84271
#1	340.42	40.888	921.62
#2	341.84	40.802	907.53
#3	333.36	40.969	909.22

Sample Name: Mid Std Acquired: 12/14/2012 09:17:56 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0629**	**.2656**	**.0312**	**.1261**	**1.437**	**.9056**	**.1911**	**.6980**	**.4136**
Stddev	.0010	.0036	.0004	.0019	.013	.0088	.0012	.0089	.0058
%RSD	1.626	1.349	1.389	1.487	.9325	.9751	.6491	1.276	1.399
#1	.0636	.2683	.0313	.1263	1.444	.9094	.1913	.6995	.4131
#2	.0634	.2615	.0308	.1241	1.422	.8955	.1898	.6885	.4080
#3	.0617	.2670	.0316	.1279	1.445	.9118	.1922	.7061	.4196

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3132**	**.1005**	**.3184**	**.1446**	**.1842**	**.0311**	**.2600**	**.1573**	**.2257**
Stddev	.0042	.0012	.0035	.0019	.0012	.0007	.0033	.0015	.0032
%RSD	1.344	1.152	1.103	1.339	.6651	2.350	1.263	.9434	1.423
#1	.3137	.1008	.3188	.1456	.1855	.0311	.2617	.1573	.2249
#2	.3088	.1016	.3216	.1424	.1831	.0304	.2562	.1588	.2230
#3	.3172	.0993	.3146	.1459	.1839	.0318	.2620	.1558	.2292

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.380**	**.2243**	**.0428**	**.0386**	**.0343**	**.0315**	**.0383**	**3.874**	**.2876**
Stddev	.010	.0026	.0006	.0005	.0004	.0001	.0005	.036	.0040
%RSD	.7044	1.169	1.385	1.285	1.246	.2281	1.317	.9276	1.389
#1	1.388	.2245	.0428	.0387	.0343	.0314	.0383	3.889	.2889
#2	1.369	.2216	.0423	.0381	.0338	.0315	.0378	3.833	.2908
#3	1.383	.2268	.0435	.0391	.0347	.0315	.0389	3.900	.2831

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0258**	**.0323**	**.4321**
Stddev	.0004	.0003	.0064
%RSD	1.439	1.048	1.470
#1	.0257	.0324	.4318
#2	.0255	.0326	.4258
#3	.0262	.0319	.4385

Sample Name: Mid Std Acquired: 12/14/2012 09:17:56 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**343.64**	**40.841**	**937.31**
Stddev	4.38	.280	9.89
%RSD	1.2757	.68471	1.0556
#1	344.13	40.619	945.47
#2	347.76	41.155	926.30
#3	339.03	40.748	940.15

Sample Name: High Std Acquired: 12/14/2012 09:23:57 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1251**	**.5201**	**.0624**	**.2495**	**2.909**	**1.820**	**.3737**	**1.385**	**.8177**
Stddev	.0025	.0052	.0006	.0024	.016	.014	.0037	.014	.0077
%RSD	2.004	1.001	.9804	.9714	.5369	.7656	.9881	.9749	.9463
#1	.1267	.5142	.0629	.2511	2.903	1.812	.3701	1.396	.8232
#2	.1222	.5242	.0625	.2506	2.927	1.836	.3775	1.390	.8209
#3	.1263	.5218	.0617	.2467	2.898	1.812	.3734	1.370	.8088

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6246**	**.1987**	**.6213**	**.2849**	**.3442**	**.0608**	**.5085**	**.3104**	**.4482**
Stddev	.0066	.0037	.0106	.0022	.0038	.0008	.0040	.0060	.0038
%RSD	1.064	1.848	1.707	.7602	1.109	1.258	.7896	1.944	.8500
#1	.6290	.2006	.6275	.2828	.3419	.0615	.5046	.3139	.4506
#2	.6277	.1945	.6090	.2871	.3486	.0610	.5126	.3035	.4502
#3	.6169	.2011	.6272	.2848	.3421	.0600	.5081	.3140	.4438

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.721**	**.4454**	**.0856**	**.0770**	**.0674**	**.0628**	**.0768**	**7.752**	**.5686**
Stddev	.023	.0045	.0010	.0009	.0006	.0003	.0008	.049	.0107
%RSD	.8462	1.021	1.132	1.221	.9185	.3988	1.016	.6258	1.877
#1	2.708	.4484	.0863	.0777	.0676	.0631	.0774	7.723	.5745
#2	2.748	.4476	.0859	.0774	.0678	.0626	.0769	7.808	.5563
#3	2.708	.4402	.0845	.0759	.0667	.0629	.0759	7.726	.5750

Elem	Tl1908	V2924	Zn2062
Units	Cts/S	Cts/S	Cts/S
Avg	**.0522**	**.0654**	**.8491**
Stddev	.0004	.0012	.0088
%RSD	.8449	1.809	1.041
#1	.0524	.0661	.8572
#2	.0526	.0640	.8503
#3	.0518	.0660	.8397

Sample Name: High Std Acquired: 12/14/2012 09:23:57 Type: Cal
Method: EPA-ICP P Mode: IR Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**342.19**	**41.223**	**928.67**
Stddev	3.54	.252	12.26
%RSD	1.0359	.61068	1.3203
#1	339.13	41.364	925.76
#2	341.36	40.932	942.12
#3	346.07	41.373	918.12

Sample Name: S212052-ICV1 Acquired: 12/14/2012 09:30:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.9**	**5042.**	**196.0**	**197.3**	**198.9**	**199.6**	**5089.**	**199.4**	**199.7**
Stddev	2.3	73.	.6	1.3	2.0	1.9	41.	1.7	1.7
%RSD	1.130	1.439	.3214	.6530	1.016	.9719	.8080	.8325	.8630
#1	205.1	5066.	196.5	198.4	198.3	199.9	5094.	200.5	200.9
#2	200.6	4961.	195.3	195.9	197.3	197.5	5046.	197.5	197.7
#3	203.1	5100.	196.3	197.6	201.2	201.3	5128.	200.1	200.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.4**	**202.0**	**5145.**	**5094.**	**4945.**	**5120.**	**5054.**	**203.8**	**198.9**
Stddev	1.9	2.0	40.	40.	21.	133.	39.	1.0	1.9
%RSD	.9335	.9968	.7754	.7914	.4194	2.601	.7781	.5096	.9430
#1	201.0	203.2	5190.	5062.	4921.	4969.	5032.	204.8	200.6
#2	197.4	199.6	5117.	5081.	4959.	5173.	5031.	202.7	196.9
#3	199.8	203.1	5126.	5139.	4954.	5219.	5099.	203.9	199.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212052-ICV1 Acquired: 12/14/2012 09:30:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5025.**	**199.0**	**198.1**	**197.3**	**192.4**	**4981.**	**199.2**	**200.3**	**203.6**
Stddev	26.	1.5	1.1	1.4	1.2	49.	2.5	1.5	1.7
%RSD	.5253	.7509	.5703	.7086	.6176	.9903	1.262	.7645	.8453
#1	5026.	200.3	199.3	197.9	191.9	4927.	201.5	200.1	205.4
#2	4999.	197.4	197.2	195.7	191.6	4990.	196.5	198.8	202.0
#3	5051.	199.3	197.6	198.3	193.8	5024.	199.6	201.9	203.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**194.9**	**199.6**	**201.5**
Stddev	1.1	2.0	1.6
%RSD	.5577	1.007	.7968
#1	195.8	201.7	202.3
#2	193.7	197.7	199.6
#3	195.3	199.4	202.5
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-ICV1 Acquired: 12/14/2012 09:30:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**349.26**	**40.799**	**930.76**
Stddev	2.24	.141	2.45
%RSD	.64177	.34541	.26307
#1	347.86	40.822	931.19
#2	351.85	40.927	932.97
#3	348.08	40.648	928.13

Sample Name: S212052-ICB1 Acquired: 12/14/2012 09:36:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2251**	**7.300**	**-.5249**	**-.1876**	**.4534**	**.0943**	**46.30**	**.0198**	**-.0888**
Stddev	.0831	14.17	.3386	.6231	.2939	.3444	19.74	.0245	.1377
%RSD	36.92	194.1	64.52	332.2	64.82	365.1	42.64	124.2	154.9
#1	.3200	23.63	-.2562	.5275	.3837	-.2932	41.81	-.0063	-.1046
#2	.1653	-1.728	-.4132	-.6140	.2007	.2108	29.18	.0424	.0560
#3	.1901	-.0018	-.9052	-.4762	.7760	.3653	67.89	.0233	-.2180
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0310**	**.2812**	**.2219**	**-9.423**	**31.05**	**28.46**	**7.021**	**-.0266**	**.1011**
Stddev	.0171	.2656	.2991	7.270	46.14	17.14	2.653	.1323	.0680
%RSD	55.27	94.45	134.8	77.15	148.6	60.23	37.78	497.4	67.28
#1	.0470	.3136	-.1222	-7.755	20.34	9.817	4.361	-.1666	.0623
#2	.0129	.0009	.4193	-3.133	-8.789	43.54	9.666	.0964	.0613
#3	.0331	.5292	.3685	-17.38	81.60	32.03	7.034	-.0096	.1797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212052-ICB1 Acquired: 12/14/2012 09:36:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.39**	**-.1348**	**1.021**	**.3283**	**-.5681**	**-198.4**	**-.1515**	**-.0252**	**-.2104**
Stddev	10.04	.1157	.131	1.334	1.044	58.7	.3350	.0128	.1338
%RSD	88.14	85.83	12.80	406.3	183.8	29.56	221.2	50.65	63.59
#1	17.83	-.0067	1.085	-1.156	-1.391	-132.0	-.0965	-.0159	-.3212
#2	16.52	-.2316	1.107	1.425	.6063	-220.1	-.5106	-.0397	-.0618
#3	-.1784	-.1661	.8705	.7162	-.9197	-243.1	.1527	-.0199	-.2481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.5547**	**-.6063**	**-.0367**
Stddev	.9028	.6762	.0621
%RSD	162.8	111.5	168.9
#1	-.7373	-1.270	-.0218
#2	.4255	-.6311	.0165
#3	-1.352	.0819	-.1049
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212052-ICB1 Acquired: 12/14/2012 09:36:06 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : ICB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**336.29**	**40.536**	**906.93**
Stddev	3.42	.214	8.15
%RSD	1.0157	.52894	.89849
#1	333.73	40.381	913.10
#2	340.17	40.781	909.99
#3	334.98	40.446	897.69

Sample Name: S212052-LCV1 Acquired: 12/14/2012 09:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.693**	**123.9**	**8.376**	**12.18**	**106.6**	**2.831**	**548.9**	**3.627**	**23.29**
Stddev	.223	7.2	.389	.13	1.2	.256	34.3	.076	.31
%RSD	4.754	5.813	4.647	1.070	1.167	9.027	6.242	2.104	1.352
#1	4.939	118.6	7.947	12.33	105.2	2.577	533.6	3.559	23.35
#2	4.635	121.1	8.706	12.11	107.1	2.826	588.2	3.709	23.58
#3	4.504	132.1	8.474	12.10	107.5	3.088	525.0	3.612	22.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.747**	**10.25**	**54.94**	**51.10**	**570.7**	F **746.0**	**532.5**	**5.542**	**10.52**
Stddev	.160	.42	1.15	16.57	103.5	72.0	2.2	.260	.34
%RSD	2.788	4.136	2.093	32.44	18.14	9.648	.4136	4.696	3.215
#1	5.899	9.770	55.22	59.52	457.4	805.5	531.5	5.633	10.77
#2	5.760	10.58	55.92	32.00	594.2	766.6	531.0	5.744	10.65
#3	5.580	10.39	53.67	61.77	660.4	666.0	535.1	5.248	10.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value						500.0			
Range						30.00%			

Sample Name: S212052-LCV1 Acquired: 12/14/2012 09:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1060.**	**20.39**	**9.464**	**21.34**	**21.46**	**395.0**	**11.10**	**11.54**	**10.02**
Stddev	15.	.40	1.059	.68	.13	83.5	.56	.08	.29
%RSD	1.421	1.983	11.19	3.201	.6084	21.14	5.025	.6763	2.856
#1	1049.	20.48	10.68	21.62	21.42	479.3	10.52	11.48	10.19
#2	1053.	20.74	8.917	20.56	21.36	312.3	11.63	11.63	10.18
#3	1077.	19.95	8.791	21.83	21.61	393.3	11.16	11.52	9.693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**19.19**	**19.89**	**23.76**
Stddev	.07	.89	.26
%RSD	.3829	4.458	1.103
#1	19.11	19.68	23.77
#2	19.26	20.87	24.01
#3	19.20	19.13	23.49
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-LCV1 Acquired: 12/14/2012 09:42:17 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV1 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**336.58**	**39.739**	**930.01**
Stddev	4.33	.610	17.44
%RSD	1.2853	1.5361	1.8754
#1	335.88	40.441	928.02
#2	332.65	39.439	913.65
#3	341.21	39.336	948.36

Sample Name: S212052-LCV2 Acquired: 12/14/2012 09:48:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.976**	**229.8**	**16.15**	**23.43**	**207.1**	**5.743**	**1054.**	**7.261**	**46.35**
Stddev	.221	21.6	.64	.68	2.8	.412	29.	.060	.21
%RSD	2.211	9.406	3.990	2.895	1.336	7.167	2.789	.8289	.4465
#1	9.725	248.8	15.53	23.99	203.9	5.619	1037.	7.242	46.29
#2	10.06	234.2	16.11	22.68	208.2	5.408	1037.	7.212	46.18
#3	10.14	206.3	16.81	23.63	209.1	6.202	1088.	7.328	46.58
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.33**	**20.01**	**106.4**	**87.56**	**1031.**	**1208.**	**1066.**	**11.02**	**20.57**
Stddev	.15	.38	1.5	18.35	50.	64.	28.	.21	.24
%RSD	1.319	1.904	1.420	20.96	4.840	5.293	2.616	1.922	1.177
#1	11.25	20.19	106.9	78.56	1086.	1135.	1043.	11.26	20.64
#2	11.23	20.26	107.6	75.45	1017.	1254.	1097.	10.93	20.30
#3	11.50	19.57	104.7	108.7	989.4	1235.	1057.	10.87	20.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212052-LCV2 Acquired: 12/14/2012 09:48:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2045.**	**41.17**	**17.95**	**41.92**	**41.20**	**1013.**	**21.29**	**22.32**	**20.06**
Stddev	31.	.16	.43	.51	.86	144.	.45	.18	.25
%RSD	1.537	.4005	2.421	1.226	2.095	14.24	2.106	.7992	1.243
#1	2009.	40.99	17.84	41.45	41.84	1177.	21.75	22.13	20.04
#2	2064.	41.20	17.58	41.83	41.54	906.6	21.26	22.35	20.32
#3	2063.	41.31	18.43	42.47	40.22	955.1	20.85	22.48	19.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**39.59**	**40.70**	**44.27**
Stddev	.09	.39	.30
%RSD	.2377	.9513	.6797
#1	39.68	41.15	44.31
#2	39.49	40.46	43.95
#3	39.61	40.50	44.55
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-LCV2 Acquired: 12/14/2012 09:48:28 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**335.73**	**40.121**	**920.41**
Stddev	1.32	.354	12.12
%RSD	.39340	.88283	1.3164
#1	336.62	40.491	922.46
#2	336.36	39.785	907.40
#3	334.21	40.087	931.37

Sample Name: S212052-IFA1 Acquired: 12/14/2012 09:54:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.232**	**316300.**	**-.9630**	**-3.587**	**1.142**	**-.1577**	**288300.**	**.6649**
Stddev	.585	7342.	1.392	.739	.501	.1747	9039.	.3647
%RSD	47.47	2.321	144.5	20.61	43.93	110.8	3.135	54.85
#1	.7625	315700.	-2.515	-3.573	.5734	-.1648	295000.	.4654
#2	1.047	324000.	-.5485	-2.855	1.522	-.3288	291900.	.4435
#3	1.888	309400.	.1744	-4.333	1.330	.0204	278100.	1.086
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.128**	**1.891**	**-3.286**	**208700.**	**284700.**	**120.3**	**305800.**	**272200.**
Stddev	.090	.062	.029	4415.	7254.	44.3	10540.	6634.
%RSD	2.876	3.275	.8823	2.116	2.548	36.83	3.446	2.437
#1	-3.161	1.919	-3.269	213500.	288800.	171.3	314800.	274900.
#2	-3.197	1.820	-3.269	207800.	289000.	91.51	308500.	277100.
#3	-3.026	1.934	-3.319	204800.	276300.	98.01	294200.	264700.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212052-IFA1 Acquired: 12/14/2012 09:54:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1332**	**-2.511**	**324000.**	**-7.634**	**3.794**	**3.236**	**-1.223**	**-288.5**
Stddev	.1742	.476	7506.	.536	.678	.864	2.908	80.7
%RSD	130.8	18.96	2.316	7.019	17.87	26.69	237.7	27.95
#1	.1140	-2.121	321400.	-8.252	3.333	3.550	-.9935	-197.0
#2	-.0306	-2.371	332500.	-7.342	4.572	2.259	-4.240	-319.5
#3	.3162	-3.041	318200.	-7.306	3.476	3.898	1.563	-349.1
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.351**	**-2.889**	**-3.745**	**-4.329**	**5.631**	**2.076**
Stddev	.721	.982	.118	.247	.429	.042
%RSD	53.35	33.97	3.162	5.716	7.623	2.011
#1	2.006	-4.020	-3.829	-4.129	5.137	2.060
#2	.5789	-2.392	-3.797	-4.251	5.908	2.123
#3	1.468	-2.256	-3.610	-4.606	5.849	2.044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212052-IFA1 Acquired: 12/14/2012 09:54:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**296.86**	**37.923**	**835.01**
Stddev	7.25	.914	12.49
%RSD	2.4431	2.4094	1.4961
#1	303.89	38.602	847.28
#2	297.29	36.884	822.30
#3	289.40	38.283	835.45

Sample Name: B212106-BLK1 Acquired: 12/14/2012 10:00:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3485**	**75.49**	**-.3266**	**-.0958**	**.4336**	**.0167**	**117.7**	**-.0035**	**-.0297**
Stddev	.6448	17.76	1.236	.2180	.1486	.2304	26.6	.0627	.1117
%RSD	185.0	23.52	378.3	227.5	34.26	1381.	22.64	1796.	375.9
#1	-.7154	64.94	-1.724	.0255	.4232	.1885	141.4	-.0167	-.0858
#2	-.7261	95.99	.6204	-.3475	.2905	.1066	122.9	.0648	.0989
#3	.3961	65.55	.1239	.0345	.5871	-.2451	88.83	-.0585	-.1022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0480**	**.1988**	F **53.67**	**22.94**	**32.83**	**157.9**	**47.43**	**.0531**	**-.3641**
Stddev	.1347	.2115	5.39	15.38	114.5	132.6	17.49	.1121	.1950
%RSD	280.5	106.4	10.05	67.05	348.8	83.97	36.86	211.0	53.55
#1	-.2003	.4069	52.95	16.69	116.9	198.9	31.44	.1825	-.1641
#2	.0004	.2053	48.68	40.47	79.16	9.650	66.10	-.0144	-.5537
#3	.0558	-.0159	59.39	11.67	-97.59	265.1	44.77	-.0088	-.3746
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			50.00						
Low Limit			-50.00						

Sample Name: B212106-BLK1 Acquired: 12/14/2012 10:00:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**177.7**	**-.1214**	**.7013**	**.0233**	**.1241**	**-34.87**	**-.0097**	**.0580**	**-.0105**
Stddev	24.4	.2451	1.230	.3894	2.689	108.7	1.284	.1096	.0927
%RSD	13.72	202.0	175.3	1668.	2166.	311.6	13280.	189.0	887.3
#1	202.6	-.2133	-.6835	.4250	2.170	-8.401	.9748	.0754	.0750
#2	176.5	-.3072	1.123	-.0025	1.124	-154.3	-1.463	.1579	.0027
#3	153.9	.1565	1.665	-.3525	-2.922	58.12	.4589	-.0593	-.1090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.1564**	**-.1575**	**2.542**
Stddev	.1305	.6550	.049
%RSD	83.42	415.8	1.921
#1	-.3062	.3113	2.503
#2	-.0949	-.9060	2.597
#3	-.0681	.1221	2.527
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212106-BLK1 Acquired: 12/14/2012 10:00:59 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**337.34**	**40.156**	**912.04**
Stddev	1.31	.155	.96
%RSD	.38808	.38662	.10548
#1	336.36	39.991	913.08
#2	338.83	40.299	911.18
#3	336.83	40.177	911.85

Sample Name: B212106-SRM1 Acquired: 12/14/2012 10:07:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.097675
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.54**	**5457.**	**156.2**	**75.95**	**180.2**	**100.2**	**6173.**	**92.97**	**117.4**
Stddev	.34	66.	2.3	1.02	2.2	1.4	62.	1.36	1.6
%RSD	.8481	1.214	1.452	1.341	1.227	1.360	1.004	1.463	1.322
#1	39.20	5530.	157.6	76.63	182.7	101.7	6244.	93.40	118.1
#2	39.87	5401.	157.5	76.43	178.7	99.28	6128.	94.06	118.5
#3	39.55	5440.	153.6	74.77	179.2	99.45	6148.	91.45	115.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**105.5**	**112.0**	**s 8958.**	**9675.**	**2351.**	**F 2107.**	**2174.**	**301.5**	**61.28**
Stddev	1.6	1.0	57.	93.	26.	27.	20.	3.3	.81
%RSD	1.563	.8745	.6360	.9614	1.085	1.302	.9129	1.101	1.321
#1	106.3	110.9	8899.	9781.	2381.	2139.	2197.	297.7	61.65
#2	106.5	112.8	9013.	9604.	2340.	2089.	2159.	303.4	61.84
#3	103.6	112.3	s 8960.	9642.	2334.	2094.	2166.	303.4	60.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						3450.			
Low Limit						2110.			

Sample Name: B212106-SRM1 Acquired: 12/14/2012 10:07:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.097675
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**304.7**	**64.04**	**70.83**	**193.2**	**118.0**	**810.0**	**132.4**	**114.3**	**131.7**
Stddev	4.4	.90	.98	3.2	1.4	15.6	2.0	1.4	1.2
%RSD	1.436	1.404	1.382	1.665	1.209	1.926	1.485	1.185	.9324
#1	309.7	64.49	71.26	195.2	118.9	828.0	133.0	115.8	130.3
#2	301.8	64.63	71.52	195.0	118.7	801.5	134.0	113.3	132.7
#3	302.5	63.01	69.71	189.5	116.4	800.5	130.2	113.6	132.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**187.2**	**78.31**	**239.2**
Stddev	2.8	.58	2.9
%RSD	1.483	.7467	1.233
#1	188.4	77.69	239.6
#2	189.2	78.86	241.9
#3	184.0	78.39	236.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212106-SRM1 Acquired: 12/14/2012 10:07:08 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.097675
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**349.22**	**42.559**	**933.29**
Stddev	4.80	.353	11.11
%RSD	1.3754	.82909	1.1905
#1	346.74	42.151	945.67
#2	346.16	42.760	924.18
#3	354.75	42.765	930.02

Sample Name: B212106-SRM2 Acquired: 12/14/2012 10:13:09 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094554
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.99**	**5959.**	**161.2**	**78.28**	**188.8**	**102.7**	**6306.**	**93.85**	**120.7**
Stddev	.47	16.	.5	.48	1.7	.7	27.	.55	.6
%RSD	1.166	.2635	.3056	.6090	.9139	.6392	.4250	.5865	.4801
#1	40.44	5976.	161.5	78.38	190.2	103.2	6310.	94.09	120.8
#2	40.03	5953.	161.5	78.69	189.2	102.9	6330.	94.24	121.3
#3	39.51	5946.	160.6	77.76	186.8	102.0	6277.	93.22	120.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**108.2**	**113.0**	**9376.**	**10500.**	**2480.**	**2222.**	**2287.**	**301.6**	**62.60**
Stddev	.7	.7	73.	29.	21.	11.	9.	.6	.20
%RSD	.6596	.6254	.7775	.2768	.8418	.4778	.3867	.2054	.3177
#1	108.5	113.4	9447.	10490.	2502.	2223.	2291.	302.3	62.62
#2	108.7	113.4	9301.	10530.	2478.	2233.	2294.	301.1	62.80
#3	107.4	112.2	9380.	10470.	2460.	2211.	2277.	301.5	62.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B212106-SRM2 Acquired: 12/14/2012 10:13:09 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094554
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**314.1**	**65.20**	**69.95**	**201.1**	**120.2**	**690.5**	**139.1**	**123.1**	**136.0**
Stddev	2.4	.45	.52	1.2	.5	.9	.9	.7	.8
%RSD	.7716	.6858	.7472	.6109	.4339	.1242	.6176	.5967	.5801
#1	316.1	65.41	70.13	201.1	120.6	691.3	139.2	123.7	136.7
#2	314.7	65.50	70.37	202.3	120.5	690.6	139.9	123.4	136.2
#3	311.4	64.69	69.37	199.8	119.6	689.6	138.2	122.3	135.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**194.0**	**79.76**	**246.7**
Stddev	1.3	.64	.8
%RSD	.6813	.7994	.3401
#1	194.9	80.28	246.4
#2	194.7	79.96	247.7
#3	192.5	79.05	246.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212106-SRM2 Acquired: 12/14/2012 10:13:09 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.094554
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**347.62**	**42.331**	**950.55**
Stddev	1.74	.034	3.73
%RSD	.50051	.07960	.39250
#1	346.68	42.295	947.17
#2	346.55	42.339	949.92
#3	349.63	42.361	954.56

Sample Name: 1212046-01 Acquired: 12/14/2012 10:19:22 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.646**	**62980.**	**63.56**	**20.68**	**311.9**	**.7886**	**15260.**	**-.2267**
Stddev	.300	602.	1.08	.74	2.2	.4046	143.	.1570
%RSD	11.33	.9556	1.703	3.559	.7122	51.31	.9359	69.25
#1	-2.740	63610.	64.42	21.53	314.4	1.212	15410.	-.1171
#2	-2.310	62910.	63.92	20.20	311.0	.7476	15250.	-.4066
#3	-2.887	62410.	62.34	20.31	310.3	.4060	15130.	-.1565

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**33.70**	**114.9**	**109.3**	**137000.**	**160900.**	**5600.**	**11700.**	**11910.**
Stddev	.48	1.7	.9	959.	1505.	80.	58.	105.
%RSD	1.428	1.454	.8267	.7005	.9355	1.435	.4930	.8816
#1	34.01	116.8	108.6	137600.	162500.	5691.	11750.	12030.
#2	33.14	113.6	110.3	137400.	160600.	5572.	11640.	11880.
#3	33.93	114.4	108.9	135800.	159500.	5537.	11710.	11820.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1246.**	**7.280**	**283.4**	**58.40**	**1505.**	**6.889**	**-1.262**	**5651.**
Stddev	9.	.275	8.8	.91	24.	1.060	1.077	128.
%RSD	.7308	3.775	3.104	1.563	1.592	15.39	85.33	2.265
#1	1249.	7.590	291.1	59.32	1531.	7.019	-.4750	5774.
#2	1253.	7.187	285.2	57.50	1485.	7.878	-.8218	5662.
#3	1236.	7.064	273.8	58.38	1498.	5.770	-2.489	5519.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**26.71**	**157.2**	**1176.**	**-1.955**	**233.7**	**286.5**
Stddev	.93	1.3	9.	.733	1.5	5.6
%RSD	3.496	.8463	.7532	37.47	.6473	1.948
#1	27.60	158.6	1179.	-1.422	233.6	292.4
#2	25.74	157.2	1184.	-1.653	235.2	281.3
#3	26.80	155.9	1166.	-2.790	232.2	285.7

Sample Name: 1212046-01 Acquired: 12/14/2012 10:19:22 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**352.37**	**41.489**	**938.27**
Stddev	5.45	.355	6.51
%RSD	1.5471	.85672	.69411
#1	346.63	41.083	935.94
#2	357.47	41.638	933.25
#3	353.01	41.746	945.63

Sample Name: B212106-MS1 Acquired: 12/14/2012 10:25:38 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**232.2**	**91930.**	**296.2**	**264.0**	**568.8**	**229.3**	**17090.**	**227.7**
Stddev	4.1	2399.	3.2	2.7	15.8	5.6	426.	1.2
%RSD	1.765	2.609	1.084	1.022	2.772	2.443	2.491	.5146
#1	235.7	93870.	298.8	266.4	582.6	233.8	17430.	228.5
#2	233.2	89240.	292.6	261.1	551.6	223.0	16610.	226.3
#3	227.7	92670.	297.2	264.7	572.2	231.1	17230.	228.2

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**269.4**	**378.0**	**361.0**	**149500.**	**181300.**	**13710.**	**18990.**	**19160.**
Stddev	2.0	2.8	6.4	1903.	4744.	287.	539.	501.
%RSD	.7469	.7410	1.769	1.273	2.617	2.091	2.836	2.616
#1	271.2	380.8	365.7	150600.	184900.	13870.	19480.	19590.
#2	267.3	375.2	363.4	150500.	175900.	13380.	18410.	18610.
#3	269.7	377.9	353.7	147300.	183100.	13890.	19080.	19290.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1732.**	**236.3**	**4954.**	**313.4**	**1007.**	**226.9**	**213.9**	**11810.**
Stddev	27.	1.9	149.	2.3	6.	1.7	3.0	255.
%RSD	1.573	.8094	3.001	.7495	.5496	.7686	1.407	2.161
#1	1752.	237.5	5077.	315.1	1011.	228.4	216.3	12060.
#2	1743.	234.1	4789.	310.7	1000.	225.0	210.5	11550.
#3	1701.	237.3	4996.	314.3	1008.	227.4	215.0	11820.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**248.2**	**383.5**	**1629.**	**232.5**	**518.0**	**586.7**
Stddev	1.5	10.6	27.	1.5	8.2	3.8
%RSD	.6230	2.759	1.654	.6266	1.574	.6553
#1	249.6	392.6	1649.	233.9	523.4	589.7
#2	246.5	371.9	1639.	231.0	522.0	582.4
#3	248.5	385.8	1598.	232.5	508.6	588.1

Sample Name: B212106-MS1 Acquired: 12/14/2012 10:25:38 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**353.01**	**42.206**	**961.48**
Stddev	2.05	.838	12.57
%RSD	.58117	1.9846	1.3071
#1	351.00	41.529	951.26
#2	355.10	43.143	957.68
#3	352.92	41.946	975.51

Sample Name: B212106-MSD1 Acquired: 12/14/2012 10:31:53 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**234.0**	**96700.**	**298.1**	**262.1**	**603.1**	**242.8**	**18080.**	**233.1**
Stddev	1.8	3311.	8.1	4.0	23.1	8.4	646.	3.7
%RSD	.7733	3.424	2.725	1.538	3.836	3.478	3.570	1.575
#1	234.8	94810.	295.8	265.1	590.3	239.0	17690.	235.9
#2	235.3	94760.	291.3	257.5	589.1	236.9	17730.	228.9
#3	231.9	100500.	307.1	263.6	629.8	252.5	18830.	234.4

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**275.3**	**382.4**	**356.4**	**193300.**	**197300.**	**14080.**	**19280.**	**20430.**
Stddev	3.9	6.7	5.3	1966.	7319.	309.	250.	753.
%RSD	1.424	1.745	1.488	1.017	3.710	2.195	1.298	3.688
#1	277.6	387.0	361.0	194500.	192400.	14000.	19570.	19960.
#2	270.7	374.8	357.7	194300.	193800.	13820.	19190.	20030.
#3	277.4	385.5	350.6	191000.	205700.	14430.	19090.	21300.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1827.**	**234.5**	**5093.**	**313.2**	**1021.**	**226.7**	**218.1**	**11860.**
Stddev	16.	3.5	234.	5.1	15.	3.3	4.2	775.
%RSD	.8846	1.500	4.586	1.627	1.486	1.447	1.920	6.534
#1	1833.	237.2	4981.	314.8	1030.	226.1	222.1	11330.
#2	1839.	230.5	4937.	307.5	1003.	223.7	213.7	11500.
#3	1809.	235.7	5362.	317.3	1029.	230.2	218.5	12750.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**253.1**	**403.2**	**1708.**	**236.0**	**537.3**	**614.6**
Stddev	.8	13.6	20.	7.2	3.0	9.8
%RSD	.3309	3.367	1.159	3.055	.5597	1.603
#1	253.9	394.3	1718.	237.1	539.9	621.0
#2	252.2	396.3	1721.	242.5	534.0	603.3
#3	253.2	418.8	1685.	228.2	538.0	619.5

Sample Name: B212106-MSD1 Acquired: 12/14/2012 10:31:53 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**355.72**	**39.695**	**943.27**
Stddev	4.02	1.190	7.39
%RSD	1.1312	2.9973	.78366
#1	353.26	40.402	944.10
#2	360.37	40.362	935.50
#3	353.55	38.321	950.21

Sample Name: 1212046-02 Acquired: 12/14/2012 10:37:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.854**	**72730.**	**83.88**	**21.43**	**304.9**	**1.453**	**13740.**	**-.1432**
Stddev	.254	530.	.47	.42	3.0	.344	124.	.0616
%RSD	8.912	.7292	.5639	1.969	.9685	23.67	.9015	43.00
#1	-2.790	73280.	84.42	21.91	307.7	1.757	13840.	-.0964
#2	-3.135	72700.	83.70	21.26	305.3	1.080	13770.	-.2130
#3	-2.638	72220.	83.53	21.11	301.9	1.522	13600.	-.1202

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**41.10**	**145.4**	**115.1**	**163900.**	**206400.**	**6318.**	**12490.**	**12800.**
Stddev	.47	1.6	.4	883.	1731.	35.	52.	119.
%RSD	1.132	1.095	.3151	.5388	.8386	.5519	.4129	.9270
#1	41.63	147.2	114.8	163700.	207700.	6338.	12540.	12920.
#2	40.82	145.0	115.0	164900.	207000.	6277.	12490.	12800.
#3	40.84	144.1	115.5	163200.	204400.	6338.	12440.	12680.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1584.**	**8.079**	**288.7**	**63.55**	**602.5**	**7.837**	**-3.546**	**5157.**
Stddev	5.	.121	3.8	.48	4.6	.174	.258	83.
%RSD	.2898	1.499	1.314	.7567	.7665	2.226	7.272	1.603
#1	1580.	7.963	290.1	64.10	607.7	7.745	-3.800	5138.
#2	1582.	8.205	284.4	63.32	598.8	8.039	-3.284	5247.
#3	1589.	8.070	291.5	63.23	600.9	7.728	-3.555	5085.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**46.65**	**153.9**	**1244.**	**-4.370**	**288.0**	**297.8**
Stddev	.78	1.1	1.	.191	.5	2.5
%RSD	1.676	.6833	.1123	4.368	.1752	.8517
#1	47.41	154.9	1244.	-4.226	287.6	300.7
#2	45.85	153.9	1243.	-4.297	287.8	296.6
#3	46.70	152.8	1245.	-4.587	288.5	296.1

Sample Name: 1212046-02 Acquired: 12/14/2012 10:37:57 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**354.94**	**41.571**	**963.81**
Stddev	2.36	.304	1.54
%RSD	.66519	.73066	.15986
#1	352.35	41.490	964.98
#2	355.50	41.316	964.38
#3	356.97	41.907	962.06

Sample Name: 1212046-03 Acquired: 12/14/2012 10:44:12 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.361**	**68690.**	**79.48**	**21.30**	**362.1**	**1.043**	**16650.**	**.3975**
Stddev	.299	1318.	.69	.52	8.1	.153	249.	.1511
%RSD	5.570	1.919	.8678	2.459	2.230	14.64	1.497	38.00
#1	-5.339	69670.	79.99	21.89	368.7	1.219	16840.	.3235
#2	-5.670	69220.	79.76	21.08	364.4	.9462	16760.	.2977
#3	-5.074	67190.	78.70	20.92	353.1	.9644	16370.	.5713

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**81.13**	**156.2**	**148.7**	**159400.**	**195900.**	**6134.**	**13000.**	**13340.**
Stddev	1.00	1.5	4.0	3315.	3125.	146.	244.	202.
%RSD	1.232	.9308	2.664	2.080	1.596	2.379	1.878	1.517
#1	82.26	157.8	150.9	162000.	198400.	6166.	13130.	13480.
#2	80.38	155.2	151.1	160600.	196800.	6262.	13150.	13430.
#3	80.75	155.5	144.2	155700.	192400.	5975.	12720.	13110.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3368.**	**6.993**	**334.0**	**64.40**	**828.5**	**7.134**	**-2.136**	**4820.**
Stddev	72.	.144	7.3	.72	6.2	.894	.945	101.
%RSD	2.136	2.060	2.174	1.116	.7425	12.53	44.22	2.088
#1	3420.	7.118	339.9	64.95	835.0	6.349	-1.781	4829.
#2	3398.	6.835	336.2	63.59	822.7	8.107	-1.420	4916.
#3	3286.	7.025	325.9	64.66	827.7	6.945	-3.206	4715.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13.41**	**107.8**	**1235.**	**-4.551**	**258.2**	**342.0**
Stddev	.87	1.8	26.	.658	6.2	3.5
%RSD	6.518	1.708	2.142	14.45	2.401	1.030
#1	14.33	109.3	1253.	-5.033	262.1	345.6
#2	13.30	108.3	1247.	-3.802	261.5	338.6
#3	12.60	105.7	1205.	-4.818	251.1	341.9

Sample Name: 1212046-03 Acquired: 12/14/2012 10:44:12 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**352.63**	**41.125**	**951.23**
Stddev	2.29	.637	18.07
%RSD	.65014	1.5493	1.8996
#1	350.17	40.703	939.79
#2	354.70	40.815	941.83
#3	353.03	41.858	972.06

Sample Name: 1212046-04 Acquired: 12/14/2012 10:50:28 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-5.006**	**71820.**	**56.36**	**26.30**	**702.2**	**2.633**	**48680.**	**.9034**
Stddev	.819	2345.	1.50	.98	22.6	.331	1622.	.2220
%RSD	16.36	3.265	2.669	3.741	3.215	12.56	3.332	24.57
#1	-5.749	69440.	57.87	27.30	679.5	2.421	47060.	1.146
#2	-5.140	74130.	56.36	26.27	724.7	2.463	50300.	.8543
#3	-4.128	71890.	54.86	25.34	702.5	3.014	48660.	.7102

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**53.62**	**118.5**	**199.7**	**130300.**	**148300.**	**6299.**	**18780.**	**19100.**
Stddev	1.49	3.1	5.1	1594.	4948.	234.	776.	615.
%RSD	2.783	2.597	2.571	1.223	3.336	3.721	4.133	3.217
#1	55.07	121.7	203.7	132100.	143400.	6081.	17930.	18490.
#2	53.70	118.4	201.4	129300.	153300.	6547.	19450.	19720.
#3	52.09	115.5	193.9	129500.	148200.	6269.	18950.	19100.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3252.**	**4.495**	**469.6**	**127.9**	**6106.**	**8.108**	**-1.129**	**5823.**
Stddev	68.	.261	21.1	3.7	157.	1.645	.720	126.
%RSD	2.103	5.801	4.497	2.877	2.577	20.29	63.79	2.162
#1	3320.	4.781	452.5	131.6	6266.	7.233	-.8126	5693.
#2	3255.	4.270	493.2	127.8	6099.	10.01	-.6213	5944.
#3	3183.	4.434	463.1	124.2	5952.	7.085	-1.954	5830.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29.37**	**292.8**	**1059.**	**-2.460**	**197.6**	**638.0**
Stddev	.74	9.6	26.	.580	4.0	15.6
%RSD	2.526	3.264	2.417	23.56	2.012	2.451
#1	30.23	283.0	1080.	-3.025	200.3	654.0
#2	28.99	302.1	1066.	-2.488	199.4	637.3
#3	28.90	293.3	1030.	-1.867	193.0	622.8

Sample Name: 1212046-04 Acquired: 12/14/2012 10:50:28 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**364.62**	**43.513**	**987.79**
Stddev	7.84	1.182	12.46
%RSD	2.1505	2.7163	1.2613
#1	356.63	44.740	974.74
#2	364.90	42.382	989.07
#3	372.31	43.415	999.56

Sample Name: 1212046-05 Acquired: 12/14/2012 10:56:43 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.663**	**83270.**	**66.20**	**21.56**	**685.1**	**2.704**	**17860.**	**1.847**
Stddev	.519	2839.	.88	.49	22.8	.315	576.	.065
%RSD	11.13	3.409	1.332	2.260	3.322	11.67	3.226	3.517
#1	-5.176	85250.	67.21	21.99	699.7	2.742	18260.	1.774
#2	-4.138	84560.	65.78	21.67	696.7	2.999	18130.	1.870
#3	-4.677	80020.	65.60	21.03	658.9	2.371	17200.	1.898

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**60.34**	**145.6**	**197.9**	**154100.**	**185100.**	**6053.**	**17080.**	**17530.**
Stddev	.74	1.9	1.3	1553.	6342.	211.	691.	608.
%RSD	1.230	1.292	.6653	1.008	3.425	3.489	4.046	3.465
#1	61.13	147.6	198.6	152900.	189300.	6191.	17660.	17950.
#2	60.23	145.3	196.4	153500.	188300.	6158.	17270.	17810.
#3	59.65	143.9	198.8	155900.	177800.	5810.	16310.	16840.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3219.**	**5.075**	**351.8**	**101.4**	**867.7**	**9.611**	**.2399**	**6209.**
Stddev	25.	.055	15.0	1.4	10.0	.223	.6335	228.
%RSD	.7776	1.085	4.262	1.401	1.157	2.320	264.1	3.677
#1	3214.	5.080	348.0	102.9	878.8	9.789	.3893	6444.
#2	3197.	5.127	368.4	101.3	865.3	9.361	-.4549	6196.
#3	3246.	5.018	339.2	100.1	859.1	9.684	.7853	5988.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29.82**	**174.0**	**1183.**	**-3.500**	**249.3**	**1693.**
Stddev	1.30	5.8	9.	2.081	1.0	12.
%RSD	4.348	3.318	.7945	59.45	.3862	.7257
#1	31.18	177.4	1183.	-5.099	249.0	1705.
#2	29.67	177.3	1174.	-4.255	248.5	1692.
#3	28.60	167.3	1193.	-1.147	250.4	1681.

Sample Name: 1212046-05 Acquired: 12/14/2012 10:56:43 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**362.28**	**42.972**	**987.26**
Stddev	2.86	1.101	7.38
%RSD	.78890	2.5625	.74799
#1	359.61	42.132	992.79
#2	361.92	42.566	990.12
#3	365.29	44.219	978.87

Sample Name: S212052-CCV1 Acquired: 12/14/2012 11:03:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**194.8**	**4813.**	**180.6**	**180.2**	**193.7**	**187.4**	**4904.**	**188.0**	**185.1**
Stddev	2.2	130.	1.5	1.6	5.2	4.8	124.	1.5	1.3
%RSD	1.134	2.691	.8270	.8719	2.678	2.546	2.535	.7823	.6775
#1	194.8	4925.	182.3	181.2	197.8	191.8	5026.	189.4	186.2
#2	192.6	4842.	179.4	180.9	195.4	188.2	4910.	188.1	185.3
#3	197.0	4671.	180.2	178.4	187.9	182.3	4777.	186.4	183.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**187.6**	**189.1**	**4959.**	**4691.**	**4739.**	**4855.**	**4828.**	**191.1**	**183.5**
Stddev	2.1	3.4	70.	92.	123.	106.	110.	3.1	.8
%RSD	1.100	1.787	1.411	1.957	2.592	2.182	2.269	1.629	.4339
#1	188.1	187.2	4936.	4734.	4840.	4944.	4928.	189.4	184.0
#2	189.4	187.1	4904.	4754.	4774.	4883.	4845.	189.2	184.0
#3	185.4	193.0	5038.	4586.	4602.	4738.	4711.	194.7	182.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212052-CCV1 Acquired: 12/14/2012 11:03:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4891.**	**187.9**	**184.2**	**183.8**	**180.5**	**4686.**	**189.9**	**191.2**	**193.0**
Stddev	125.	1.3	2.0	1.9	.7	143.	.7	4.6	2.6
%RSD	2.548	.6932	1.090	1.052	.4140	3.040	.3440	2.428	1.324
#1	5000.	188.8	186.5	184.7	181.4	4843.	190.4	195.2	192.3
#2	4917.	188.5	182.9	185.2	180.0	4653.	190.1	192.1	190.9
#3	4755.	186.4	183.2	181.6	180.2	4564.	189.2	186.1	195.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**184.8**	**194.6**	**187.2**
Stddev	1.8	4.6	1.2
%RSD	.9808	2.358	.6364
#1	186.7	192.9	188.5
#2	184.6	191.1	186.9
#3	183.1	199.7	186.1
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-CCV1 Acquired: 12/14/2012 11:03:00 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**357.52**	**39.228**	**930.05**
Stddev	2.65	.807	11.83
%RSD	.74194	2.0563	1.2725
#1	355.24	38.430	937.58
#2	356.90	39.211	936.17
#3	360.43	40.043	916.41

Sample Name: S212052-CCB1 Acquired: 12/14/2012 11:09:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1770**	**-7.535**	**.6312**	**-.3119**	**.3729**	**.0972**	**22.60**	**-.0096**	**-.1345**
Stddev	.5501	11.24	1.288	.3106	.2737	.1074	11.72	.0129	.1161
%RSD	310.8	149.1	204.1	99.59	73.39	110.4	51.86	135.0	86.30
#1	.8051	-.7347	-.7988	-.6395	.6880	.1098	26.71	-.0184	-.0938
#2	-.0552	-1.365	1.701	-.0217	.1946	-.0159	31.71	-.0156	-.2655
#3	-.2190	-20.50	.9911	-.2744	.2361	.1977	9.378	.0053	-.0443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1060**	**-.9420**	**3.727**	**-5.530**	**74.44**	**106.8**	**9.139**	**-.0736**	**-.2321**
Stddev	.0743	.5210	1.758	24.74	47.17	65.4	15.89	.0879	.1721
%RSD	70.11	55.31	47.17	447.4	63.36	61.27	173.9	119.3	74.15
#1	.0453	-1.380	3.210	-31.74	25.11	32.43	-8.936	-.1532	-.1727
#2	.1889	-.3657	5.684	17.43	119.1	132.5	20.91	.0207	-.0975
#3	.0838	-1.081	2.285	-2.282	79.12	155.5	15.44	-.0884	-.4260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212052-CCB1 Acquired: 12/14/2012 11:09:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.056**	**.0361**	**.6777**	**-.5039**	**-.7033**	**68.78**	**.5922**	**.0118**	**-.1066**
Stddev	19.46	.2197	.7224	.1383	1.196	103.9	.4855	.0992	.0957
%RSD	479.7	608.1	106.6	27.44	170.1	151.0	81.97	839.8	89.79
#1	14.83	.2221	-.0756	-.6598	-1.960	11.58	.1988	.1190	-.0736
#2	-2.954	-.2063	1.365	-.4556	.4201	188.7	1.135	-.0067	-.2144
#3	-24.04	.0926	.7442	-.3962	-.5694	6.097	.4430	-.0768	-.0317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-1.468**	**-.4112**	**-.0536**
Stddev	.834	.6711	.0789
%RSD	56.83	163.2	147.1
#1	-1.263	.3524	-.0254
#2	-.7554	-.6784	.0072
#3	-2.385	-.9075	-.1427
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212052-CCB1 Acquired: 12/14/2012 11:09:05 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**349.03**	**39.653**	**928.39**
Stddev	1.06	.900	5.92
%RSD	.30440	2.2688	.63731
#1	348.45	40.688	928.69
#2	348.37	39.214	922.34
#3	350.25	39.057	934.16

Sample Name: 1212046-06 Acquired: 12/14/2012 11:15:15 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.326**	**54880.**	**49.84**	**13.95**	**297.0**	**1.468**	**8687.**	**-.3069**
Stddev	.732	348.	1.18	.18	2.0	.211	113.	.0927
%RSD	22.00	.6344	2.363	1.317	.6707	14.40	1.295	30.21
#1	-2.491	55140.	51.17	14.08	299.2	1.435	8795.	-.2018
#2	-3.852	55020.	48.93	14.04	296.7	1.276	8695.	-.3417
#3	-3.637	54480.	49.42	13.74	295.2	1.695	8571.	-.3773

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**44.04**	**99.31**	**73.23**	**122000.**	**138300.**	**4661.**	**13990.**	**14420.**
Stddev	.65	1.59	.72	1433.	895.	103.	84.	86.
%RSD	1.486	1.597	.9818	1.174	.6470	2.205	.6033	.5981
#1	44.79	101.1	73.69	123400.	139000.	4617.	13960.	14460.
#2	43.75	98.48	73.60	122200.	138600.	4779.	14090.	14480.
#3	43.59	98.32	72.40	120500.	137300.	4588.	13930.	14320.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1961.**	**2.548**	**142.8**	**73.26**	**153.0**	**5.730**	**-2.551**	**4988.**
Stddev	22.	.246	5.8	1.20	2.3	.667	.894	119.
%RSD	1.102	9.642	4.059	1.638	1.482	11.64	35.04	2.375
#1	1983.	2.417	148.8	74.64	154.9	5.575	-1.527	4854.
#2	1960.	2.831	142.5	72.60	150.5	6.461	-2.944	5078.
#3	1940.	2.394	137.2	72.53	153.7	5.154	-3.180	5032.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.296**	**132.9**	**861.2**	**-3.256**	**170.8**	**475.0**
Stddev	.615	.6	11.5	.388	2.3	6.1
%RSD	18.65	.4211	1.337	11.90	1.359	1.274
#1	2.589	133.5	873.3	-3.570	173.3	482.0
#2	3.596	132.9	860.0	-2.823	170.4	471.6
#3	3.703	132.4	850.4	-3.376	168.7	471.4

Sample Name: 1212046-06 Acquired: 12/14/2012 11:15:15 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212046)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**363.18**	**41.428**	**974.80**
Stddev	4.66	.354	10.06
%RSD	1.2834	.85491	1.0321
#1	357.80	41.164	965.15
#2	366.04	41.291	974.02
#3	365.69	41.831	985.23

Sample Name: B212107-BLK1 Acquired: 12/14/2012 11:21:32 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1021**	**18.64**	**-.2895**	**-.5468**	**.5598**	**-.1389**	**40.77**	**-.0363**	**-.0083**
Stddev	.3168	13.59	.5220	.0985	.3572	.6233	6.64	.0349	.0799
%RSD	310.4	72.87	180.3	18.02	63.81	448.9	16.30	96.25	967.2
#1	-.0208	7.403	-.6289	-.5519	.2307	-.1964	48.34	-.0139	-.0738
#2	.4619	33.74	-.5511	-.4458	.5091	-.7314	35.87	-.0766	.0808
#3	-.1350	14.79	.3115	-.6427	.9397	.5113	38.11	-.0184	-.0318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.0735**	**-.5119**	**23.70**	**-2.291**	**64.31**	**136.3**	**15.47**	**.4506**	**-.3703**
Stddev	.0705	.1890	11.90	13.19	122.3	36.5	22.00	.1191	.1130
%RSD	95.94	36.91	50.20	575.8	190.2	26.78	142.2	26.42	30.51
#1	.1541	-.2964	13.44	-12.21	110.4	109.8	7.141	.3690	-.2670
#2	.0435	-.6491	20.91	-7.344	156.8	177.9	-1.143	.3956	-.3529
#3	.0230	-.5902	36.74	12.68	-74.34	121.2	40.42	.5873	-.4909
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: B212107-BLK1 Acquired: 12/14/2012 11:21:32 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**34.42**	**-.0690**	**.5864**	**-.7050**	**-.1416**	**-131.6**	**-.1415**	**.1260**	**-.0313**
Stddev	6.78	.1194	.7559	.6702	1.050	135.3	.3995	.0699	.2071
%RSD	19.70	173.0	128.9	95.06	741.5	102.8	282.4	55.50	661.0
#1	41.78	-.1282	.9343	-.7383	.1866	-16.63	-.3610	.1099	-.1765
#2	28.42	-.1474	-.2808	-.0188	-1.316	-280.7	.3196	.2025	-.1233
#3	33.08	.0684	1.106	-1.358	.7049	-97.47	-.3829	.0655	.2058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**-.9066**	**-1.070**	**1.165**
Stddev	.8553	.309	.048
%RSD	94.34	28.89	4.114
#1	-1.894	-1.364	1.144
#2	-.4343	-1.097	1.131
#3	-.3916	-.7477	1.220
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212107-BLK1 Acquired: 12/14/2012 11:21:32 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**347.28**	**39.073**	**923.73**
Stddev	2.67	.164	12.52
%RSD	.76924	.41858	1.3549
#1	344.39	38.949	933.85
#2	347.82	39.258	909.74
#3	349.65	39.012	927.60

Sample Name: B212107-SRM1 Acquired: 12/14/2012 11:27:41 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091224
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38.88**	**5134.**	**151.9**	**74.22**	F **172.1**	**94.45**	**5831.**	**90.95**	**114.8**
Stddev	.25	153.	3.2	1.54	5.1	3.02	180.	1.78	2.3
%RSD	.6411	2.970	2.134	2.078	2.968	3.198	3.094	1.956	1.974
#1	39.00	5303.	155.6	75.94	177.6	97.77	6030.	92.94	117.4
#2	38.60	5093.	150.6	73.79	171.0	93.71	5784.	90.37	113.9
#3	39.05	5007.	149.6	72.94	167.6	91.87	5679.	89.53	113.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					249.0				
Low Limit					177.0				

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**103.5**	**108.6**	**8789.**	**8976.**	F **2255.**	F **1979.**	F **2046.**	**285.9**	**59.67**
Stddev	2.2	1.2	104.	270.	78.	61.	59.	2.1	1.21
%RSD	2.133	1.129	1.183	3.009	3.446	3.060	2.905	.7487	2.025
#1	105.9	109.0	8672.	9279.	2339.	2044.	2112.	285.6	61.03
#2	102.9	107.2	8869.	8889.	2240.	1968.	2030.	283.9	59.26
#3	101.6	109.5	8827.	8761.	2186.	1925.	1997.	288.1	58.72
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit					3980.	3450.	3450.		
Low Limit					2270.	2110.	2110.		

Sample Name: B212107-SRM1 Acquired: 12/14/2012 11:27:41 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091224
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**283.4**	**62.96**	**66.43**	**191.6**	**114.0**	**712.5**	**133.1**	**109.4**	**122.1**
Stddev	8.2	1.34	1.37	4.0	2.1	26.2	2.9	3.3	.9
%RSD	2.885	2.125	2.060	2.101	1.885	3.680	2.166	3.034	.7368
#1	292.1	64.43	67.96	196.2	116.4	742.6	136.3	113.0	122.2
#2	282.4	62.62	66.02	190.2	113.5	700.2	132.3	108.6	121.2
#3	275.8	61.83	65.31	188.5	112.2	694.6	130.7	106.5	122.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**185.0**	**77.18**	**236.1**
Stddev	4.0	.38	4.2
%RSD	2.186	.4877	1.789
#1	189.5	77.33	240.9
#2	183.8	76.75	234.3
#3	181.7	77.46	233.1
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212107-SRM1 Acquired: 12/14/2012 11:27:41 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091224
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**364.31**	**43.718**	**970.65**
Stddev	6.20	1.039	2.42
%RSD	1.7015	2.3760	.24956
#1	357.26	42.576	973.39
#2	366.81	43.970	969.76
#3	368.87	44.608	968.80

Sample Name: B212107-SRM2 Acquired: 12/14/2012 11:33:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091324
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38.15**	**5496.**	**153.0**	**74.85**	**178.6**	**96.31**	**6187.**	**91.26**	**116.4**
Stddev	.73	270.	7.9	3.84	8.4	4.67	292.	4.70	6.0
%RSD	1.903	4.910	5.172	5.125	4.722	4.852	4.716	5.152	5.170
#1	37.46	5579.	158.2	77.30	181.1	97.69	6287.	94.71	120.6
#2	38.90	5195.	143.9	70.43	169.2	91.11	5858.	85.91	109.5
#3	38.09	5715.	157.0	76.82	185.5	100.1	6415.	93.17	119.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**105.3**	**106.8**	**8949.**	**9597.**	**2336.**	F **2068.**	**2128.**	**287.9**	**61.12**
Stddev	5.5	2.2	156.	468.	101.	91.	98.	5.7	3.18
%RSD	5.257	2.072	1.748	4.875	4.333	4.418	4.604	1.987	5.210
#1	109.2	104.3	8794.	9753.	2382.	2113.	2156.	281.6	63.26
#2	98.99	108.6	9107.	9071.	2219.	1963.	2019.	292.8	57.46
#3	107.8	107.5	8946.	9967.	2405.	2128.	2209.	289.2	62.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						3450.			
Low Limit						2110.			

Sample Name: B212107-SRM2 Acquired: 12/14/2012 11:33:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091324
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**295.0**	**63.70**	**66.99**	**192.0**	**115.0**	**748.1**	**133.0**	**114.1**	**129.7**
Stddev	14.0	3.31	3.39	9.9	5.5	25.4	7.1	5.5	2.7
%RSD	4.748	5.194	5.054	5.162	4.820	3.397	5.342	4.851	2.063
#1	301.5	66.01	69.40	198.4	118.3	765.7	137.9	115.6	126.8
#2	278.9	59.91	63.12	180.6	108.6	719.0	124.9	108.0	132.0
#3	304.5	65.17	68.45	197.0	118.0	759.6	136.3	118.7	130.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**186.3**	**77.24**	**240.7**
Stddev	9.9	1.53	12.2
%RSD	5.308	1.986	5.060
#1	193.2	75.61	249.2
#2	175.0	78.66	226.7
#3	190.7	77.46	246.0
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: B212107-SRM2 Acquired: 12/14/2012 11:33:53 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 0.091324
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**359.76**	**42.641**	**983.55**
Stddev	15.48	1.561	16.86
%RSD	4.3026	3.6604	1.7147
#1	348.95	41.792	1002.0
#2	377.50	44.443	968.84
#3	352.85	41.690	979.86

Sample Name: 1212052-01 Acquired: 12/14/2012 11:40:06 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.465**	**64050.**	**43.96**	**17.04**	**499.0**	**1.926**	**48640.**	**1.515**
Stddev	.388	3088.	.53	.60	24.1	.623	2364.	.139
%RSD	11.20	4.821	1.216	3.512	4.832	32.36	4.860	9.195
#1	-3.447	65990.	43.94	17.66	515.2	2.231	50070.	1.624
#2	-3.086	65680.	44.50	16.98	510.5	2.338	49930.	1.358
#3	-3.862	60490.	43.43	16.47	471.3	1.209	45910.	1.562

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**47.81**	**98.00**	**170.0**	**119100.**	**128700.**	**4829.**	**31370.**	**32100.**
Stddev	1.03	1.94	3.1	2071.	6503.	319.	1461.	1554.
%RSD	2.146	1.978	1.801	1.739	5.054	6.613	4.659	4.840
#1	48.99	100.2	166.5	117100.	132600.	5025.	32290.	33110.
#2	47.18	97.23	171.6	119000.	132300.	5001.	32130.	32880.
#3	47.25	96.56	172.0	121200.	121200.	4460.	29680.	30310.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2662.**	**3.952**	**262.2**	**117.7**	**2129.**	**8.227**	**-1.558**	**5731.**
Stddev	60.	.309	18.5	2.7	46.	.780	1.629	206.
%RSD	2.265	7.809	7.063	2.308	2.151	9.487	104.6	3.596
#1	2594.	4.236	262.6	120.8	2181.	9.055	-2.346	5914.
#2	2684.	3.996	280.5	116.6	2106.	8.119	-2.643	5771.
#3	2709.	3.624	243.5	115.8	2098.	7.505	.3158	5508.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.52**	**176.6**	**932.1**	**-1.894**	**184.0**	**827.8**
Stddev	.61	8.6	18.3	1.540	3.7	15.9
%RSD	3.114	4.857	1.963	81.27	1.995	1.925
#1	20.22	182.4	911.1	-.7292	179.9	846.1
#2	19.22	180.7	940.2	-1.314	185.0	820.2
#3	19.12	166.8	944.9	-3.640	187.1	817.0

Sample Name: 1212052-01 Acquired: 12/14/2012 11:40:06 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**369.99**	**42.797**	**979.03**
Stddev	6.04	1.757	22.40
%RSD	1.6317	4.1066	2.2881
#1	363.03	41.847	1003.4
#2	373.10	41.720	974.37
#3	373.83	44.825	959.33

Sample Name: B212107-MS1 Acquired: 12/14/2012 11:46:22 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**173.0**	**87910.**	**204.5**	**190.2**	**676.6**	**166.8**	**107100.**	**162.9**
Stddev	.4	127.	3.1	4.4	1.9	1.1	305.	2.8
%RSD	.2123	.1446	1.520	2.319	.2822	.6294	.2850	1.729
#1	173.3	88060.	208.0	195.3	678.8	167.8	107100.	166.1
#2	172.6	87860.	202.0	188.2	675.2	165.7	107400.	162.1
#3	173.0	87820.	203.6	187.1	675.8	166.8	106800.	160.6

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**207.8**	**284.2**	**329.2**	**119500.**	**131600.**	**11350.**	**70700.**	**70570.**
Stddev	3.4	5.5	3.1	947.	341.	54.	457.	58.
%RSD	1.657	1.943	.9392	.7928	.2591	.4712	.6467	.0819
#1	211.6	290.4	332.1	120600.	131700.	11410.	70910.	70610.
#2	206.8	282.4	326.0	118800.	131900.	11300.	71010.	70600.
#3	205.0	279.9	329.5	119100.	131300.	11350.	70170.	70500.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2701.**	**166.9**	**4722.**	**298.8**	**1727.**	**167.3**	**155.4**	**14990.**
Stddev	15.	3.1	20.	5.7	32.	3.9	3.7	113.
%RSD	.5629	1.842	.4313	1.895	1.832	2.333	2.359	.7505
#1	2718.	170.2	4730.	305.0	1763.	171.7	159.6	14950.
#2	2688.	166.2	4738.	297.3	1718.	166.1	153.8	15120.
#3	2698.	164.2	4699.	294.0	1702.	164.2	152.9	14910.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**183.4**	**357.2**	**1138.**	**166.5**	**368.9**	**756.4**
Stddev	3.3	.3	7.	3.4	1.6	11.9
%RSD	1.775	.0938	.6490	2.043	.4424	1.571
#1	186.1	357.6	1146.	169.8	370.0	769.5
#2	184.3	356.9	1132.	166.7	367.0	753.5
#3	179.8	357.3	1136.	163.0	369.6	746.3

Sample Name: B212107-MS1 Acquired: 12/14/2012 11:46:22 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**369.91**	**42.240**	**980.13**
Stddev	4.38	.426	1.99
%RSD	1.1853	1.0085	.20268
#1	365.24	42.382	977.85
#2	370.58	41.762	981.00
#3	373.93	42.577	981.52

Sample Name: B212107-MSD1 Acquired: 12/14/2012 11:52:36 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**175.9**	**94200.**	**209.7**	**194.1**	**726.5**	**174.6**	**116400.**	**172.8**
Stddev	3.5	1883.	4.8	1.6	18.5	2.9	2334.	.2
%RSD	2.001	1.999	2.268	.8453	2.548	1.662	2.006	.1159
#1	174.1	96200.	215.0	192.2	745.3	177.6	118700.	173.0
#2	180.0	92460.	208.3	194.7	708.3	171.9	114000.	172.6
#3	173.6	93950.	205.8	195.3	725.9	174.3	116400.	172.7

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**219.5**	**300.6**	**320.3**	**149100.**	**145600.**	**11760.**	**76400.**	**77370.**
Stddev	.6	1.0	4.7	1863.	2827.	524.	1337.	1405.
%RSD	.2856	.3244	1.476	1.250	1.942	4.453	1.751	1.815
#1	220.3	299.8	315.7	147200.	148400.	12360.	77860.	78790.
#2	219.1	301.7	325.2	150900.	142800.	11420.	75240.	75990.
#3	219.3	300.2	320.0	149100.	145500.	11500.	76100.	77340.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2871.**	**168.9**	**4806.**	**312.7**	**1809.**	**164.8**	**154.0**	**17570.**
Stddev	41.	.9	114.	1.3	3.	6.6	.8	311.
%RSD	1.415	.5371	2.362	.3996	.1886	4.022	.5194	1.771
#1	2829.	168.8	4910.	313.8	1812.	160.8	154.8	17850.
#2	2910.	169.8	4685.	313.0	1808.	172.5	154.0	17630.
#3	2873.	168.0	4824.	311.3	1806.	161.2	153.2	17240.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**191.4**	**385.6**	**1236.**	**174.8**	**388.3**	**828.1**
Stddev	3.9	8.3	17.	7.5	6.7	.9
%RSD	2.041	2.141	1.361	4.277	1.725	.1030
#1	195.7	394.5	1220.	172.9	382.7	827.1
#2	188.0	378.3	1253.	183.1	395.7	828.7
#3	190.7	384.1	1234.	168.5	386.5	828.6

Sample Name: B212107-MSD1 Acquired: 12/14/2012 11:52:36 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 5.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**372.58**	**40.053**	**976.91**
Stddev	.89	.429	14.46
%RSD	.23924	1.0713	1.4801
#1	371.94	39.606	992.76
#2	372.21	40.462	964.44
#3	373.60	40.090	973.54

Sample Name: 1212052-02 Acquired: 12/14/2012 11:58:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-3.915**	**58720.**	**39.85**	**15.84**	**459.9**	**2.073**	**36730.**	**.7327**
Stddev	.240	581.	.54	.06	4.9	.278	163.	.0470
%RSD	6.143	.9885	1.360	.3978	1.067	13.39	.4433	6.418
#1	-3.715	58650.	40.34	15.91	461.8	1.792	36710.	.7548
#2	-4.181	58180.	39.26	15.80	454.3	2.347	36580.	.6786
#3	-3.848	59340.	39.94	15.81	463.5	2.080	36900.	.7645

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**42.86**	**91.75**	**179.2**	**114300.**	**125100.**	**4357.**	**16490.**	**16740.**
Stddev	.15	.85	3.9	2148.	1580.	40.	219.	177.
%RSD	.3508	.9215	2.173	1.878	1.263	.9212	1.328	1.057
#1	42.96	92.72	183.7	116400.	124600.	4321.	16320.	16730.
#2	42.69	91.26	177.0	114500.	123800.	4351.	16400.	16570.
#3	42.92	91.26	176.9	112100.	126900.	4400.	16740.	16920.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2745.**	**3.388**	**348.4**	**107.0**	**1528.**	**5.658**	**-2.214**	**5603.**
Stddev	50.	.119	5.1	.6	9.	.953	1.044	77.
%RSD	1.825	3.515	1.466	.5277	.5909	16.84	47.16	1.377
#1	2803.	3.395	348.8	107.6	1538.	4.721	-2.662	5518.
#2	2722.	3.265	343.1	106.6	1523.	6.626	-1.021	5621.
#3	2711.	3.503	353.3	106.8	1522.	5.627	-2.959	5670.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**16.91**	**194.8**	**857.1**	**-2.077**	**173.6**	**631.2**
Stddev	1.11	1.9	17.3	.311	3.7	2.7
%RSD	6.574	.9670	2.025	14.97	2.139	.4323
#1	15.79	194.7	877.0	-2.329	177.8	634.4
#2	18.01	192.9	849.2	-2.171	171.3	629.4
#3	16.93	196.7	845.1	-1.730	171.5	629.9

Sample Name: 1212052-02 Acquired: 12/14/2012 11:58:40 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**389.85**	**43.901**	**1020.9**
Stddev	2.07	.119	16.7
%RSD	.53095	.27163	1.6395
#1	387.74	43.967	1004.6
#2	391.87	43.972	1020.0
#3	389.94	43.763	1038.0

Sample Name: 1212052-03 Acquired: 12/14/2012 12:04:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-4.560**	**80120.**	**67.90**	**20.20**	**451.3**	**2.562**	**14400.**	**-.3768**
Stddev	.159	851.	.43	.45	6.0	.279	165.	.1499
%RSD	3.492	1.062	.6372	2.242	1.340	10.90	1.147	39.78
#1	-4.719	80600.	67.52	20.54	455.1	2.617	14490.	-.2083
#2	-4.400	80620.	67.81	20.38	454.3	2.809	14500.	-.4268
#3	-4.562	79140.	68.37	19.69	444.3	2.259	14210.	-.4954

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**68.02**	**126.1**	**90.96**	**157400.**	**191000.**	**5710.**	**16290.**	**16710.**
Stddev	1.03	2.0	1.82	2861.	1986.	30.	191.	176.
%RSD	1.515	1.564	1.997	1.818	1.040	.5230	1.175	1.056
#1	69.09	127.9	89.27	154200.	192000.	5698.	16230.	16840.
#2	67.93	126.2	90.73	158300.	192200.	5744.	16500.	16770.
#3	67.04	124.0	92.88	159700.	188700.	5688.	16130.	16510.

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3223.**	**2.924**	**253.9**	**76.33**	**202.8**	**4.878**	**-2.893**	**5480.**
Stddev	54.	.088	16.1	1.42	3.1	.907	.913	207.
%RSD	1.669	3.003	6.347	1.859	1.532	18.59	31.58	3.768
#1	3180.	2.899	262.3	77.77	205.8	4.146	-1.840	5719.
#2	3206.	2.852	264.1	76.29	203.1	5.892	-3.364	5362.
#3	3283.	3.022	235.3	74.93	199.6	4.595	-3.475	5361.

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.10**	**108.4**	**1273.**	**-3.206**	**259.5**	**308.7**
Stddev	.41	1.1	20.	2.001	4.2	4.2
%RSD	3.696	1.002	1.608	62.42	1.635	1.365
#1	10.81	109.2	1255.	-4.053	255.8	313.0
#2	10.92	108.9	1267.	-4.643	258.6	308.4
#3	11.57	107.2	1295.	-.9203	264.1	304.6

Sample Name: 1212052-03 Acquired: 12/14/2012 12:04:56 Type: Unk
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment: Jewett White (1212052)

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**377.53**	**41.824**	**996.13**
Stddev	4.59	.316	11.13
%RSD	1.2170	.75611	1.1177
#1	373.21	41.824	1008.2
#2	377.02	41.509	993.81
#3	382.35	42.141	986.34

Sample Name: S212052-CCV2 Acquired: 12/14/2012 12:11:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**189.9**	**4704.**	**181.8**	**180.6**	**189.8**	**182.2**	**4785.**	**189.7**
Stddev	2.9	121.	2.8	2.6	5.1	4.7	155.	2.8
%RSD	1.507	2.572	1.531	1.453	2.665	2.577	3.241	1.451
#1	192.5	4774.	181.3	179.6	193.0	184.9	4867.	188.2
#2	190.3	4564.	179.3	178.7	183.9	176.8	4607.	188.1
#3	186.8	4774.	184.8	183.6	192.4	185.0	4883.	192.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.3**	**187.4**	**181.1**	**4846.**	**4518.**	**4632.**	**4705.**	**4720.**
Stddev	2.6	2.3	2.9	79.	119.	135.	206.	96.
%RSD	1.393	1.218	1.597	1.623	2.643	2.908	4.371	2.024
#1	184.1	186.3	183.8	4922.	4596.	4710.	4886.	4756.
#2	183.6	185.9	181.4	4850.	4380.	4477.	4481.	4612.
#3	188.3	190.1	178.0	4765.	4577.	4710.	4750.	4793.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: S212052-CCV2 Acquired: 12/14/2012 12:11:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**185.2**	**183.5**	**4796.**	**189.7**	**186.4**	**182.9**	**180.9**	W **4421.**
Stddev	3.2	3.1	138.	2.9	2.9	2.9	1.5	136.
%RSD	1.712	1.677	2.880	1.541	1.568	1.590	.8026	3.073
#1	188.2	181.7	4875.	188.0	184.5	181.9	179.8	4539.
#2	185.7	181.9	4637.	188.1	184.9	180.6	180.3	4272.
#3	181.9	187.1	4878.	193.1	189.7	186.2	182.5	4451.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value								5000.
Range								-10.00%

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**192.2**	**186.4**	**187.4**	**185.5**	**189.9**	**188.6**
Stddev	3.7	4.5	2.8	1.5	2.7	2.6
%RSD	1.941	2.396	1.503	.7829	1.444	1.370
#1	189.7	188.6	190.1	184.5	192.8	187.6
#2	190.4	181.2	187.7	184.9	189.6	186.8
#3	196.5	189.3	184.5	187.2	187.3	191.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: S212052-CCV2 Acquired: 12/14/2012 12:11:13 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCV SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**366.46**	**39.797**	**973.55**
Stddev	4.36	1.331	8.39
%RSD	1.1885	3.3449	.86172
#1	369.71	38.541	970.44
#2	368.17	41.192	967.16
#3	361.51	39.658	983.05

Sample Name: S212052-CCB2 Acquired: 12/14/2012 12:17:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5918**	**19.02**	**-.4991**	**-.5812**	**.2285**	**-.3127**	**27.23**	**-.0124**	**-.0710**
Stddev	.3712	17.70	1.074	.1175	.3442	.2037	18.99	.0699	.1095
%RSD	62.72	93.10	215.2	20.22	150.7	65.14	69.74	565.4	154.3
#1	-.3729	18.50	.5513	-.7113	.2794	-.4823	47.57	.0105	.0548
#2	-1.020	1.575	-1.595	-.4830	.5444	-.3691	9.957	-.0908	-.1454
#3	-.3822	36.97	-.4538	-.5492	-.1384	-.0867	24.17	.0432	-.1223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1341**	**-1.070**	**4.450**	**7.022**	**-21.54**	**86.88**	**-5.708**	**-.0544**	**-.3790**
Stddev	.1538	.233	.828	29.79	93.85	51.51	11.35	.1270	.0759
%RSD	114.7	21.73	18.61	424.3	435.7	59.28	198.9	233.6	20.02
#1	.1278	-1.093	4.203	-27.24	74.08	98.30	-9.704	.0892	-.3253
#2	.2910	-1.291	5.373	26.87	-25.20	30.63	7.101	-.1518	-.3460
#3	-.0165	-.8274	3.773	21.43	-113.5	131.7	-14.52	-.1005	-.4658
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Sample Name: S212052-CCB2 Acquired: 12/14/2012 12:17:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-10.69**	**-.2921**	**.8920**	**-.3993**	**-1.050**	**-142.9**	**-.6151**	**.0106**	**-.2368**
Stddev	13.34	.2230	.7273	.1516	3.181	135.3	.7572	.0951	.2244
%RSD	124.8	76.36	81.54	37.98	303.0	94.67	123.1	894.4	94.75
#1	-5.525	-.3146	.3165	-.4940	1.229	-143.7	.0366	.1203	.0216
#2	-25.84	-.0586	1.709	-.4795	-4.684	-7.217	-1.446	-.0481	-.3825
#3	-.7062	-.5030	.6500	-.2244	.3048	-277.7	-.4361	-.0403	-.3495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**.7679**	**-.5097**	**-.0182**
Stddev	.8318	.4049	.0464
%RSD	108.3	79.44	254.6
#1	.2771	-.7181	-.0014
#2	1.728	-.0430	.0174
#3	.2983	-.7679	-.0707
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

Sample Name: S212052-CCB2 Acquired: 12/14/2012 12:17:19 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : CCB SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**351.23**	**39.380**	**925.80**
Stddev	3.18	.830	9.31
%RSD	.90513	2.1079	1.0052
#1	347.60	38.462	936.42
#2	352.56	39.600	919.07
#3	353.53	40.077	921.91

Sample Name: S212052-LCV3 Acquired: 12/14/2012 12:23:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.563**	**116.3**	**8.426**	**10.99**	**104.6**	**2.713**	**560.0**	**3.519**	**22.25**
Stddev	.297	15.8	1.546	.35	2.7	.310	21.3	.083	.54
%RSD	6.507	13.60	18.34	3.217	2.566	11.41	3.804	2.369	2.438
#1	4.694	116.3	10.07	11.37	102.4	2.612	546.2	3.613	22.88
#2	4.223	100.5	8.214	10.67	107.6	3.061	584.6	3.490	21.92
#3	4.772	132.1	6.998	10.93	103.8	2.467	549.3	3.454	21.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.585**	**9.161**	**55.53**	F **31.37**	**589.1**	**629.8**	**508.2**	**5.391**	**9.708**
Stddev	.189	.384	.20	28.68	47.0	55.7	8.1	.104	.205
%RSD	3.384	4.192	.3681	91.42	7.973	8.850	1.594	1.936	2.116
#1	5.710	9.571	55.76	12.17	607.3	673.8	501.7	5.485	9.910
#2	5.367	9.103	55.45	64.34	624.3	648.3	517.3	5.279	9.717
#3	5.677	8.809	55.37	17.60	535.8	567.1	505.6	5.409	9.499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				50.00					
Range				-30.00%					

Sample Name: S212052-LCV3 Acquired: 12/14/2012 12:23:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1042.**	**19.83**	**8.821**	**20.31**	**18.67**	F **317.5**	**10.80**	**11.11**	**9.806**
Stddev	23.	.40	.707	1.15	.99	102.6	.45	.09	.089
%RSD	2.245	2.037	8.018	5.680	5.324	32.31	4.206	.8064	.9094
#1	1019.	20.30	8.348	21.44	19.47	288.0	10.63	11.10	9.888
#2	1066.	19.55	9.634	19.13	18.97	232.8	11.32	11.21	9.711
#3	1040.	19.66	8.481	20.35	17.56	431.6	10.46	11.03	9.820
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value						500.0			
Range						-30.00%			

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**18.82**	**20.80**	**22.50**
Stddev	.80	.34	.56
%RSD	4.232	1.616	2.476
#1	19.73	21.19	23.13
#2	18.46	20.59	22.07
#3	18.26	20.62	22.30
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-LCV3 Acquired: 12/14/2012 12:23:29 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV3 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**349.43**	**38.935**	**928.16**
Stddev	5.03	.717	2.86
%RSD	1.4404	1.8410	.30818
#1	343.62	39.585	925.37
#2	352.29	38.167	928.03
#3	352.39	39.054	931.09

Sample Name: S212052-LCV4 Acquired: 12/14/2012 12:29:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144	Co2286
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.455**	**229.5**	**15.81**	**21.52**	**208.1**	**6.028**	**1045.**	**6.818**	**43.11**
Stddev	.505	2.5	1.23	.59	2.9	.660	8.	.048	.14
%RSD	5.345	1.091	7.749	2.761	1.405	10.94	.8082	.6989	.3250
#1	8.976	228.4	15.44	21.46	211.4	6.683	1038.	6.858	43.26
#2	9.984	227.7	17.18	22.13	206.8	6.038	1055.	6.830	43.08
#3	9.406	232.3	14.81	20.95	206.1	5.364	1042.	6.765	42.99
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852	Mn2576	Mo2020
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.89**	**18.52**	**105.9**	**96.65**	**1151.**	**1233.**	**1036.**	**10.54**	**18.98**
Stddev	.16	.48	.8	43.67	96.	80.	7.	.07	.03
%RSD	1.485	2.602	.7205	45.18	8.371	6.522	.6977	.6719	.1342
#1	10.89	17.96	106.6	70.46	1224.	1234.	1027.	10.59	18.99
#2	11.04	18.75	106.0	147.1	1186.	1151.	1041.	10.46	18.96
#3	10.72	18.84	105.1	72.43	1042.	1312.	1039.	10.58	19.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Sample Name: S212052-LCV4 Acquired: 12/14/2012 12:29:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516	Sn1899	Sr4077	Ti3349
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2041.**	**39.12**	**15.44**	**38.58**	**37.86**	**1079.**	**19.39**	**21.82**	**19.32**
Stddev	37.	.14	1.08	.70	1.58	67.	.59	.27	.18
%RSD	1.833	.3639	6.977	1.804	4.175	6.224	3.033	1.218	.9287
#1	2083.	38.96	16.64	38.14	37.21	1142.	19.07	22.12	19.49
#2	2012.	39.23	14.55	39.38	36.71	1088.	20.07	21.72	19.33
#3	2029.	39.17	15.14	38.22	39.67	1008.	19.03	21.62	19.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb
Avg	**35.85**	**41.11**	**41.12**
Stddev	.79	.13	.12
%RSD	2.213	.3111	.2897
#1	35.18	41.26	41.10
#2	35.64	41.04	41.25
#3	36.73	41.04	41.02
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

Sample Name: S212052-LCV4 Acquired: 12/14/2012 12:29:40 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : LCV4 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**355.69**	**38.590**	**931.16**
Stddev	.24	.729	7.21
%RSD	.06684	1.8897	.77415
#1	355.42	37.748	935.05
#2	355.77	39.023	922.84
#3	355.87	38.998	935.59

Sample Name: S212052-IFA2 Acquired: 12/14/2012 12:35:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Ag3280	Al3961	As1890	B2089	Ba4554	Be3131	Ca3179	Cd2144
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.106**	**304100.**	**.3925**	**-3.258**	**.6839**	**.0160**	**287600.**	**.0729**
Stddev	.349	8405.	.6822	.410	.6875	.2974	7433.	.0117
%RSD	31.55	2.764	173.8	12.58	100.5	1856.	2.584	16.01
#1	1.478	309900.	.9642	-3.209	.7858	-.1964	293200.	.0846
#2	.7858	294400.	.5761	-2.874	-.0489	.3560	279200.	.0612
#3	1.055	307800.	-.3628	-3.690	1.315	-.1114	290400.	.0729
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Elem	Co2286	Cr2055	Cu3247	Fe2599A	Fe2599R	K7664	Mg2790	Mg2852
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.724**	**2.013**	**-3.792**	**210900.**	**268700.**	**166.6**	**296300.**	**263500.**
Stddev	.165	.246	.048	2405.	7232.	100.8	8376.	7387.
%RSD	6.060	12.22	1.271	1.141	2.692	60.48	2.827	2.803
#1	-2.914	1.763	-3.847	211400.	274300.	119.2	303100.	269100.
#2	-2.630	2.255	-3.757	213000.	260500.	282.3	287000.	255100.
#3	-2.627	2.020	-3.773	208300.	271300.	98.27	298900.	266400.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
High Limit								
Low Limit								

Sample Name: S212052-IFA2 Acquired: 12/14/2012 12:35:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Elem	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2516
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1850**	**-2.057**	**315500.**	**-8.082**	**3.569**	**2.230**	**-1.450**	**-268.6**
Stddev	.1883	.531	8839.	.325	2.167	1.332	1.098	77.2
%RSD	101.8	25.82	2.802	4.019	60.71	59.71	75.77	28.73
#1	-.3583	-2.332	322800.	-8.343	1.076	.8183	-2.663	-193.4
#2	.0154	-1.445	305700.	-8.184	4.640	2.409	-.5235	-264.8
#3	-.2120	-2.394	317900.	-7.718	4.992	3.463	-1.163	-347.7
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.077**	**-4.108**	**-3.621**	**-3.939**	**5.998**	**4.043**
Stddev	.728	.190	.042	1.560	.416	.158
%RSD	67.58	4.621	1.167	39.61	6.937	3.918
#1	1.889	-3.920	-3.573	-4.067	5.935	4.210
#2	.4828	-4.103	-3.636	-5.432	6.441	4.025
#3	.8602	-4.300	-3.654	-2.319	5.616	3.895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: S212052-IFA2 Acquired: 12/14/2012 12:35:51 Type: QC
Method: EPA-ICP P Mode: CONC Corr. Factor: 1.000000
User: WRickert : IFA2 SOP C-109/DW-5: IRIS Intrepid II XDL S/N12816:
Comment:

Int. Std.	Y2243A	Y3600R	Y3611A
Units	Cts/S	Cts/S	Cts/S
Avg	**321.57**	**37.782**	**873.72**
Stddev	5.46	.948	8.33
%RSD	1.6973	2.5078	.95327
#1	315.53	37.129	874.64
#2	326.15	38.868	864.96
#3	323.03	37.347	881.54

Jewett White

P/N # 1212042

WO 1301011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301053

Jewett White Lead - 1212042
1301011

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/14/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/14/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/14/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/14/2013
ICB < Reporting Limit?	YES	RR	01/14/2013
RL Low Level recovery ±30%?	YES	RR	01/14/2013
2RL Low Level Recovery ±30%?	YES	RR	01/14/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/14/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/14/2013
CCBs < Reporting Limit?	YES	RR	01/14/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/14/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/14/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301053

Jewett White Lead - 1212042
1301011

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA		RR	01/14/2013
Percent Solids Log Book info entries completed?	YES		RR	01/14/2013
pH Log Book Log Book info entries completed?	NA		RR	01/14/2013
Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	RR	01/14/2013
Peer reviewed? Date and person responsible.	YES	*	LEB	01/15/2013

* = Automated Response from Promium

MANUAL CALCULATION PER ANALYTE: **ICP METALS (SOLIDS)**

GENERAL FORMULA :

SOLID SAMPLE : **MG/KG (dry weight)** = $\dfrac{\text{ug/L x D.F x V}}{\text{W x \%TS/100}}$

where:

ug/L = Instrument reading (ave. of three replicates)

D.F = DILUTION FACTOR

V = FINAL VOLUME OF DIGESTATE, Liter

= **0.050 L**

W = WEIGHT OF SAMPLE , grams

= 0.5269 g

% TS = PERCENT TOTAL SOLIDS

note # 1: **D.F = 1 (when no dilution)**

note # 2: **MG/KG = ug / g**

Example calculation on sample # 1301011-03 with (% TS = 98.76)

Dilution Factor = 5

using the above equation : (for solid samples)

Analyte: Pb

MG/KG (ug / g) = $\dfrac{66,850 \text{ ug/L} \times 5 \times 0.050 \text{ L}}{0.5269 \text{ g} \times \cancel{100}\ 98.76/100}$ 1/14/13

= 32,117

MG/KG (ug / g) = **32,000** (ROUNDED VALUE FOR LIMS)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301053

Prepared by: RR
Prepared on: 01/14/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301011-01	N/A	33	Yes	0.5218	50					
	1301011-02	N/A	33	Yes	0.5148	50					
	1301011-03	N/A	33	Yes	0.5269	50					
	1301011-04	N/A	33	Yes	0.5115	50					
	B301053-BLK1	N/A	33	Yes	0.5059	50		0		0	
	B301053-MS1	N/A	33	Yes	0.528	50	D2L0305	200	D2L0306	200	1301011-01
	B301053-MSD1	N/A	33	Yes	0.528	50	D2L0305	200	D2L0306	200	1301011-01
	B301053-SRM1	N/A	33	Yes	0.5027	50	D2H1612	502.7		0	
	B301053-SRM2	N/A	33	Yes	0.5086	50	D2H1612	508.6		0	

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301024

Instrument: Thermo iTEVA

Printed: 1/14/2013 5:55:55PM

Project Name	Lab Number	Analysis	STD ID
	S301024-CAL1	QC	D2K1201
	S301024-CAL2	QC	D2K1202
	S301024-CAL3	QC	D2K1203
	S301024-ICV1	QC	D2K1204
	S301024-ICB1	QC	D2K1201
	S301024-LCV1	QC	D2K1206
	S301024-LCV2	QC	D2K1207
	S301024-IFA1	QC	D2K1208
	B301053-BLK1	QC	
	B301053-SRM1	QC	
	B301053-SRM2	QC	
Jewett White Lead - 1212042	1301011-01	E-Lead ICP	
	B301053-MS1	QC	
	B301053-MSD1	QC	
Jewett White Lead - 1212042	1301011-02	E-Lead ICP	
Jewett White Lead - 1212042	1301011-03	E-Lead ICP	
	S301024-CCV1	QC	D2K1204
	S301024-CCB1	QC	D2K1201
Jewett White Lead - 1212042	1301011-04	E-Lead ICP	
	S301024-CCV2	QC	D2K1204
	S301024-CCB2	QC	D2K1201
	S301024-LCV3	QC	D2K1206
	S301024-LCV4	QC	D2K1207
	S301024-IFA2	QC	D2K1208

	Pos ID	Type	Samplename	Comment	Instrument	Method	CorrFact	Check	Check Table	Fail Action
1	1	QC	B301053-BLK1		ICAP6300	SOP-C-109	1	☒	PBS	None
2	2	QC	B301053-SRM1		ICAP6300	SOP-C-109	1	☒	LCSS	None
3	3	QC	B301053-SRM2		ICAP6300	SOP-C-109	1	☒	LCSS	None
4	4	Unk	1301011-01	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301053-MS1	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301053-MSD1	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301011-02	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
8	8	Unk	1301011-03 X5	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
9	9	Unk	1301011-03 X10	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
10	10	Unk	1301011-03 X25	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---
11	11	Unk	1301011-04	JEWETT WHITE (1301011)	ICAP6300	SOP-C-109	1	☒	LDR	---

Sample Name: Blank Acquired: 1/14/2013 13:06:57 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: S301024-CAL1

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0013**	**.0003**	**.0000**	**.0138**	**.0006**	**.0137**	**.0006**	**.0000**	**-.0003**	**.0392**	**.0007**
Stddev	.0001	.0003	.0001	.0013	.0003	.0004	.0002	.0001	.0004	.0004	.0007
%RSD	9.838	102.2	2303.	9.531	42.30	3.107	31.80	645.5	129.3	.9662	90.79
#1	-.0015	.0000	-.0001	.0125	.0004	.0132	.0007	.0002	-.0008	.0389	.0000
#2	-.0013	.0003	.0000	.0151	.0009	.0139	.0004	-.0001	.0000	.0390	.0010
#3	-.0012	.0006	.0001	.0139	.0005	.0140	.0006	.0000	-.0001	.0396	.0012

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0089**	**.0001**	**.0008**	**-.0045**	**.0002**	**.0006**	**.0004**	**.0002**	**-.0001**	**-.0008**	**.0004**
Stddev	.0023	.0003	.0002	.0010	.0001	.0001	.0000	.0002	.0001	.0002	.0003
%RSD	26.15	270.4	24.11	23.20	80.47	17.67	2.793	83.27	177.8	28.86	64.38
#1	.0074	-.0003	.0008	-.0057	.0000	.0006	.0004	.0001	-.0002	-.0008	.0007
#2	.0116	.0002	.0009	-.0039	.0003	.0004	.0004	.0004	.0000	-.0007	.0003
#3	.0077	.0004	.0006	-.0039	.0002	.0006	.0004	.0001	.0000	-.0011	.0002

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**-.0021**	**.0013**	**.0059**	**.0002**	**.0001**	**.0002**
Stddev	.0001	.0002	.0001	.0002	.0005	.0006	.0001
%RSD	95.27	9.096	8.050	3.255	255.9	758.9	43.89
#1	.0000	-.0022	.0012	.0061	.0006	.0008	.0003
#2	-.0002	-.0022	.0012	.0058	.0004	-.0003	.0003
#3	-.0001	-.0019	.0014	.0058	-.0004	-.0002	.0001

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16317.	39523.	17418.
Stddev	46.	217.	199.
%RSD	.28217	.54907	1.1434
#1	16366.	39675.	17602.
#2	16312.	39620.	17207.
#3	16274.	39275.	17446.

Sample Name: MID STD Acquired: 1/14/2013 13:11:50 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4368**	**.2229**	**.1958**	**11.56**	**10.97**	**.6206**	**6.858**	**3.265**	**3.566**	**5.576**	**.5127**
Stddev	.0032	.0020	.0010	.07	.02	.0039	.030	.011	.038	.052	.0006
%RSD	.7341	.9177	.5258	.5808	.2162	.6284	.4391	.3221	1.057	.9363	.1207
#1	.4402	.2251	.1952	11.50	10.99	.6248	6.834	3.255	3.609	5.636	.5125
#2	.4364	.2226	.1951	11.55	10.94	.6200	6.847	3.264	3.540	5.543	.5122
#3	.4338	.2211	.1970	11.63	10.98	.6170	6.891	3.275	3.548	5.548	.5134

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1207**	**.0747**	**21.81**	**.2710**	**1.872**	**.8401**	**.3405**	**.2113**	**.3360**	**4.012**	**4.701**
Stddev	.0011	.0002	.37	.0022	.006	.0032	.0007	.0010	.0028	.020	.017
%RSD	.9375	.3096	1.710	.8056	.3446	.3834	.2112	.4675	.8322	.4916	.3577
#1	.1216	.0750	22.22	.2734	1.867	.8377	.3397	.2109	.3348	4.033	4.682
#2	.1194	.0746	21.73	.2692	1.868	.8389	.3406	.2106	.3339	4.007	4.704
#3	.1211	.0745	21.48	.2703	1.879	.8438	.3411	.2124	.3391	3.995	4.716

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.037**	**10.88**	**.8946**	**.6852**	**.1084**	**2.989**	**.6241**
Stddev	.008	.25	.0033	.0051	.0012	.028	.0022
%RSD	.4072	2.288	.3706	.7448	1.094	.9466	.3526
#1	2.030	11.10	.8935	.6908	.1070	3.021	.6223
#2	2.034	10.94	.8919	.6808	.1090	2.968	.6234
#3	2.046	10.61	.8983	.6840	.1092	2.977	.6265

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16685.**	**41112.**	**16566.**
Stddev	50.	705.	253.
%RSD	.29977	1.7151	1.5245
#1	16731.	40453.	16858.
#2	16632.	41028.	16407.
#3	16693.	41856.	16435.

Sample Name: HIGH STD Acquired: 1/14/2013 13:16:42 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.8819**	**.4494**	**.4010**	**22.83**	**22.18**	**1.243**	**13.76**	**6.589**	**7.132**	**11.38**	**1.042**
Stddev	.0059	.0027	.0020	.45	.26	.005	.12	.044	.084	.24	.004
%RSD	.6714	.6019	.5094	1.991	1.189	.4381	.8408	.6617	1.172	2.075	.4133
#1	.8886	.4476	.4022	22.47	22.07	1.248	13.81	6.617	7.151	11.62	1.046
#2	.8796	.4525	.4021	23.34	22.48	1.244	13.85	6.612	7.205	11.37	1.041
#3	.8775	.4481	.3986	22.67	21.99	1.237	13.63	6.539	7.041	11.15	1.038

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2389**	**.1519**	**44.33**	**.5629**	**3.794**	**1.702**	**.6904**	**.4276**	**.6763**	**8.061**	**9.412**
Stddev	.0022	.0017	.75	.0027	.026	.012	.0037	.0020	.0023	.040	.051
%RSD	.9384	1.105	1.683	.4831	.6755	.6833	.5361	.4746	.3372	.4914	.5401
#1	.2365	.1534	45.08	.5651	3.812	1.709	.6932	.4291	.6763	8.060	9.448
#2	.2396	.1501	44.32	.5636	3.806	1.707	.6917	.4283	.6740	8.101	9.435
#3	.2408	.1523	43.59	.5598	3.765	1.688	.6862	.4253	.6786	8.022	9.354

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.156**	**22.20**	**1.827**	**1.378**	**.2144**	**6.097**	**1.253**
Stddev	.025	.36	.012	.008	.0014	.054	.006
%RSD	.5961	1.624	.6671	.5577	.6643	.8833	.4699
#1	4.176	22.36	1.835	1.386	.2136	6.156	1.257
#2	4.165	22.46	1.834	1.377	.2160	6.087	1.255
#3	4.128	21.79	1.813	1.370	.2135	6.049	1.246

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16044.**	**39945.**	**16650.**
Stddev	124.	480.	202.
%RSD	.77575	1.2015	1.2155
#1	15957.	39421.	16872.
#2	15988.	40048.	16475.
#3	16187.	40365.	16604.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	-0.001351	0.000879	0.000000	1.000000	0.999993	0.144781	0.434343	1.447808
Al 396.152 { 85}2	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.000282	0.000043	0.000000	1.000000	0.999992	0.521523	1.564569	5.215231
As 189.042 {478}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.000001	0.000040	0.000000	1.000000	0.999937	1.370085	4.110255	13.700849
Ba 455.403 { 74}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.013862	0.002290	0.000000	1.000000	0.999984	0.697910	2.093729	6.979097
Be 313.107 {108}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.000594	0.002210	0.000000	1.000000	0.999987	0.624705	1.874116	6.247053
Ca 317.933 {106}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.013684	0.000122	0.000000	1.000000	0.999983	0.715533	2.146600	7.155332
Cd 226.502 {449}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.000546	0.001387	0.000000	1.000000	0.999999	0.209720	0.629160	2.097201
Co 228.616 {447}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	0.000011	0.000858	0.000000	1.000000	0.999991	0.528797	1.586390	5.287967
Cr 267.716 {126}	1/14/2013 13:22:21	1/14/2013 13:22:21	Linear	1/Conc	-0.000305	0.000713	0.000000	1.000000	1.000000	0.003353	0.010058	0.033528
Cu 324.754 {104}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.039123	0.001125	0.000000	1.000000	0.999936	1.383649	4.150948	13.836495
Fe 259.940 {130}2	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000715	0.000104	0.000000	1.000000	0.999970	0.951794	2.855382	9.517939
K 766.490 { 44}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.008918	0.000023	0.000000	1.000000	0.999909	1.652436	4.957308	16.524362
Mg 279.079 {121}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000121	0.000015	0.000000	1.000000	0.999965	1.021586	3.064759	10.215863
Mn 257.610 {131}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000659	0.004409	0.000000	1.000000	0.999971	0.932357	2.797072	9.323573
Na 589.592 { 57}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	-0.004501	0.000056	0.000000	1.000000	0.999905	1.689786	5.069359	16.897865
Ni 231.604 {445}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000161	0.000378	0.000000	1.000000	0.999979	0.784559	2.353676	7.845585
Pb 220.353 {453}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000549	0.000175	0.000000	1.000000	0.999982	0.721894	2.165683	7.218943
Sb 206.833 {463}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000360	0.000068	0.000000	1.000000	0.999978	0.823316	2.469947	8.233156
Se 196.090 {472}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000208	0.000043	0.000000	1.000000	0.999984	0.701571	2.104712	7.015707
Tl 190.856 {477}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	-0.000077	0.000067	0.000000	1.000000	0.999995	0.368924	1.106772	3.689240
V 292.402 {115}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	-0.000856	0.000807	0.000000	1.000000	0.999998	0.264444	0.793331	2.644437
Zn 206.200 {463}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000398	0.000942	0.000000	1.000000	1.000000	0.069083	0.207250	0.690835
Mo 202.030 {467}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	-0.000111	0.000413	0.000000	1.000000	0.999956	1.154240	3.462719	11.542395
Ti 337.280 {100}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	-0.002142	0.002207	0.000000	1.000000	0.999957	1.130986	3.392958	11.309859
B 208.959 {461}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.001270	0.000172	0.000000	1.000000	0.999947	1.319078	3.957235	13.190785
Si 288.158 {117}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.005912	0.000136	0.000000	1.000000	0.999990	0.555075	1.665224	5.550746
Si 288.158 {117}2	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000191	0.000021	0.000000	1.000000	0.999988	0.597881	1.793642	5.978807
Sr 346.446 { 97}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000061	0.000606	0.000000	1.000000	0.999956	1.141493	3.424479	11.414930
Sn 189.989 {477}	1/14/2013 13:22:22	1/14/2013 13:22:22	Linear	1/Conc	0.000241	0.000125	0.000000	1.000000	0.999998	0.225205	0.675614	2.252047
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

SUMMARY - VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301024-ICV1	S301024-ICB1	S301024-LCV1	S301024-LCV2	S301024-IFA1
	14 Jan 2013 13:06:57	14 Jan 2013 13:11:50	14 Jan 2013 13:16:42	14 Jan 2013 13:22:27	14 Jan 2013 13:27:11	14 Jan 2013 13:32:05	14 Jan 2013 13:36:57	14 Jan 2013 13:41:50
Ag3280	-.0013	.4368	.8819	197.9	1.062	6.286	11.88	.5939
Al3961R	.0003	.2229	.4494	4821.	4.503	109.9	196.8	313700.
As1890	.0000	.1958	.4010	204.5	1.073	F 10.78	19.64	-.1622
B_2089	.0013	.8946	1.827	208.1	2.754	12.48	21.45	6.483
Ba4554R	.0138	11.56	22.83	197.5	.0073	101.8	207.0	.2231
Be3131R	.0006	10.97	22.18	198.6	.1674	3.283	6.276	-.9395
Ca3179R	.0137	.6206	1.243	4994.	-1.859	523.0	1052.	298900.
Cd2265	.0006	6.858	13.76	209.0	.3513	3.232	6.839	-2.478
Co2286	.0000	3.265	6.589	199.1	.0952	20.50	41.64	-1.040
Cr2677	-.0003	3.566	7.132	210.2	.2383	6.018	11.36	1.875
Cu3247	.0392	5.576	11.38	196.1	1.137	11.45	22.41	2.520
Fe2599R	.0007	.5127	1.042	5052.	-3.676	62.18	103.7	292600.
K_7664R	.0089	.1207	.2389	4920.	-134.1	484.5	985.7	25.68
Mg2790R	.0001	.0747	.1519	4975.	11.23	479.2	1014.	298100.
Mn2576	.0008	21.81	44.33	209.0	.2946	5.620	11.00	.0389
Mo2020	-.0001	2.037	4.156	203.1	.6702	10.64	21.10	-2.330
Na5895R	-.0045	.2710	.5629	5007.	-6.210	1021.	2081.	305600.
Ni2316	.0002	1.872	3.794	204.3	.0637	20.06	41.21	1.725
Pb2203	**.0006**	**.8401**	**1.702**	**202.7**	**-.7775**	**7.521**	**15.91**	**-4.217**
Sb2068	.0004	.3405	.6904	202.7	.1091	19.44	42.07	.2579
Se1960	.0002	.2113	.4276	202.7	-4.674	16.06	40.91	4.994
Si2881A	.0059	.6852	1.378	5066.	-3.644	506.8	1037.	-17.76
Si2881R	.0002	.1084	.2144	5030.	26.30	531.9	1044.	32.41
Sn1899	.0002	.6241	1.253	193.6	.6749	11.31	20.90	2.316
Sr3464	.0001	2.989	6.097	200.6	-.0637	10.14	21.25	.5245
Ti3372	-.0021	10.88	22.20	204.7	.2165	10.51	21.51	-.1450
Tl1908	-.0001	.3360	.6763	207.9	-.9841	21.14	42.33	2.675
V_2924	-.0008	4.012	8.061	205.7	.0001	20.99	42.88	-.7309
Y_2243-A	16317.	16685.	16044.	16503.	16963.	16539.	16853.	15148.
Y_3203-A	39523.	41112.	39945.	40147.	39488.	39665.	41011.	36829.
Y_3600-R	17418.	16566.	16650.	16602.	17237.	16047.	16680.	16257.
Zn2062	.0004	4.701	9.412	199.5	.0126	23.32	41.39	3.152

SUMMARY - VERTICAL REPORT

	B301053-BLK1	B301053-SRM1	B301053-SRM2	1301011-01	B301053-MS1	B301053-MSD1	1301011-02
	14 Jan 2013 13:47:06	14 Jan 2013 13:51:57	14 Jan 2013 13:56:49	14 Jan 2013 14:01:32	14 Jan 2013 14:06:19	14 Jan 2013 14:11:00	14 Jan 2013 14:15:47
Ag3280	1.061	410.2	416.9	-.8261	188.1	38.84	-.7434
Al3961R	44.40	103000.	90230.	57770.	61870.	12450.	59460.
As1890	1.118	1610.	1629.	12.75	204.1	43.08	14.90
B_2089	-.0512	826.2	813.0	25.90	215.7	44.89	24.37
Ba4554R	-.1933	2087.	2043.	203.2	401.0	80.78	210.2
Be3131R	-.0516	1073.	1081.	1.899	200.1	39.71	1.782
Ca3179R	12.80	68380.	68090.	5465.	10280.	2091.	5554.
Cd2265	-.0353	1016.	1026.	.6636	196.0	39.79	-.9934
Co2286	-.0312	1256.	1289.	38.98	232.7	47.18	36.53
Cr2677	.4314	1243.	1246.	91.68	288.4	58.79	83.81
Cu3247	1.553	1179.	1200.	51.45	247.5	50.60	47.21
Fe2599R	24.25	146000.	138300.	99050.	103000.	20910.	103900.
K_7664R	-91.05	31790.	30290.	6091.	10870.	2150.	6118.
Mg2790R	19.60	28820.	26660.	21160.	25890.	5224.	22140.
Mn2576	-.0270	3533.	3507.	964.2	1150.	233.1	891.4
Mo2020	-.2489	612.4	663.6	-.1443	193.1	38.64	-.4419
Na5895R	98.68	3599.	3382.	233.9	5102.	1033.	204.1
Ni2316	-.1574	678.1	697.9	98.80	291.2	58.86	93.27
Pb2203	**.6385**	**711.9**	**708.4**	**46.98**	**237.5**	**47.88**	**45.38**
Sb2068	1.562	1189.	2139.	1.195	204.9	43.45	-.3893
Se1960	-.8673	1244.	1338.	-.1862	194.0	39.04	-1.258
Si2881A	133.6	30490.	10630.	6184.	5886.	1368.	4726.
Si2881R	174.5	31100.	10870.	6232.	5966.	1426.	5481.
Sn1899	.4637	1243.	1398.	2.287	186.4	38.89	2.113
Sr3464	.1065	1322.	1306.	58.18	254.0	51.69	52.75
Ti3372	.6782	3331.	2314.	1642.	1819.	369.6	1575.
Tl1908	-.9664	1946.	1952.	-1.697	192.1	38.20	-1.289
V_2924	-.3385	943.7	923.4	99.46	294.8	59.21	92.02
Y_2243-A	16777.	17309.	17496.	17635.	17686.	17079.	17733.
Y_3203-A	41235.	41231.	41578.	42098.	42381.	41208.	43288.
Y_3600-R	16702.	16771.	16842.	16612.	16708.	16240.	16028.
Zn2062	.0359	2673.	2708.	265.1	458.4	93.20	250.8

SUMMARY - VERTICAL REPORT

	1301011-03 @5	1301011-03 @10	1301011-03 @25	S301024-CCV1	S301024-CCB1	1301011-04	S301024-CCV2	S301024-CCB2
	14 Jan 2013 14:20:34	14 Jan 2013 14:25:29	14 Jan 2013 14:30:18	14 Jan 2013 14:35:06	14 Jan 2013 14:39:47	14 Jan 2013 14:44:39	14 Jan 2013 14:49:24	14 Jan 2013 14:54:05
Ag3280	2.539	1.772	.4939	193.7	1.461	1.645	195.0	.7592
Al3961R	10850.	5372.	2156.	4816.	-12.84	30920.	4855.	5.935
As1890	18.40	11.65	2.974	196.2	.4132	41.28	194.7	.2455
B_2089	9.634	3.778	.8246	191.0	-.4513	30.42	191.2	-.0505
Ba4554R	720.6	355.6	145.1	196.4	.0695	831.9	199.0	.2857
Be3131R	.5701	.3030	.0191	190.6	.1653	1.689	190.6	.1662
Ca3179R	45590.	22300.	9085.	5001.	-2.519	54950.	5022.	2.273
Cd2265	3.024	1.315	.5662	205.7	-.1059	5.259	206.7	.1210
Co2286	15.38	7.470	2.957	196.6	.0743	40.31	197.3	-.0419
Cr2677	33.99	16.12	6.713	207.8	.1728	110.1	208.4	-.0605
Cu3247	193.1	96.15	39.02	190.6	1.433	241.1	190.5	.8157
Fe2599R	29470.	14530.	5896.	4978.	1.679	79540.	5019.	-.9356
K_7664R	1949.	863.7	387.0	5012.	-1.163	3747.	4946.	-21.23
Mg2790R	7266.	3590.	1458.	4951.	-9.425	31220.	5008.	1.265
Mn2576	2627.	1323.	535.4	206.3	.1030	1110.	207.7	.1464
Mo2020	1.742	.3594	.1492	194.6	-.3118	3.283	195.4	-.0256
Na5895R	504.7	244.9	82.58	4844.	-19.54	661.7	4809.	-56.30
Ni2316	102.2	50.56	20.54	199.7	-.5541	231.4	199.3	-.3040
Pb2203	**66850.**	**33290.**	**13540.**	**203.0**	**.0190**	**19620.**	**206.9**	**.6676**
Sb2068	10.45	5.367	.4914	197.7	-1.931	8.294	201.5	1.930
Se1960	2.663	-3.501	-2.791	198.1	-3.509	-2.496	198.0	-2.995
Si2881A	831.4	376.6	179.6	5109.	-4.685	3300.	5143.	-4.115
Si2881R	842.0	434.4	164.3	5145.	.3413	3322.	5172.	10.29
Sn1899	37.33	19.53	8.309	193.8	.4791	59.55	194.0	.7645
Sr3464	232.7	113.8	46.91	198.9	.3450	190.9	199.7	.3539
Ti3372	447.7	217.7	87.83	196.1	-.0317	1418.	196.9	.0974
Tl1908	-4.443	-.5769	-.3531	202.3	.9203	-.2881	200.6	-1.757
V_2924	51.93	25.56	10.53	202.5	-.4230	150.3	204.0	-.3523
Y_2243-A	17142.	17469.	17490.	17521.	17426.	17795.	17267.	17145.
Y_3203-A	41379.	42079.	41964.	42047.	42344.	42773.	41337.	40832.
Y_3600-R	16575.	16498.	15850.	15812.	16310.	16744.	15342.	15618.
Zn2062	509.2	255.8	104.6	204.4	-.0496	2295.	206.5	-.1050

SUMMARY - VERTICAL REPORT

	S301024-LCV3	S301024-LCV4	S301024-IFA2
	14 Jan 2013 14:58:56	14 Jan 2013 15:03:49	14 Jan 2013 15:08:40
Ag3280	5.566	10.89	.8169
Al3961R	71.21	200.5	308200.
As1890	8.363	18.99	5.379
B_2089	9.662	20.38	4.476
Ba4554R	102.1	204.3	.4003
Be3131R	3.311	6.138	-.9161
Ca3179R	523.4	1042.	284900.
Cd2265	3.378	6.704	-2.856
Co2286	20.44	41.65	-1.143
Cr2677	5.712	11.38	1.324
Cu3247	11.06	21.33	2.125
Fe2599R	61.95	105.9	282700.
K_7664R	466.1	1158.	197.9
Mg2790R	520.2	1044.	292600.
Mn2576	5.453	11.00	-.1255
Mo2020	9.961	20.34	-2.927
Na5895R	959.7	1989.	282000.
Ni2316	20.43	40.85	.4224
Pb2203	**8.472**	**16.86**	**-5.567**
Sb2068	20.59	42.58	-.2545
Se1960	21.61	39.44	6.708
Si2881A	505.7	1048.	-21.48
Si2881R	545.4	1040.	25.88
Sn1899	10.61	22.14	2.905
Sr3464	11.01	21.10	.7196
Ti3372	10.03	20.47	-.5911
Tl1908	20.22	43.12	3.199
V_2924	20.15	41.94	-.9295
Y_2243-A	17043.	17136.	15746.
Y_3203-A	41043.	40472.	37544.
Y_3600-R	15344.	14997.	14521.
Zn2062	23.96	43.13	3.224

Sample Name: S301024-ICV1 Acquired: 1/14/2013 13:22:27 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**197.9**	**4821.**	**204.5**	**197.5**	**198.6**	**4994.**	**209.0**	**199.1**	**210.2**	**196.1**	**5052.**
Stddev	2.8	89.	3.4	3.4	3.2	82.	3.8	3.7	3.9	3.0	83.
%RSD	1.436	1.843	1.659	1.729	1.613	1.647	1.813	1.846	1.876	1.507	1.645
#1	197.8	4860.	208.3	199.2	200.1	5024.	213.4	203.4	210.7	195.6	5086.
#2	195.1	4719.	202.0	193.6	195.0	4901.	206.3	196.7	206.0	193.5	4957.
#3	200.7	4883.	203.1	199.8	200.8	5058.	207.4	197.3	213.9	199.3	5112.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4920.**	**4975.**	**209.0**	**5007.**	**204.3**	**202.7**	**202.7**	**202.7**	**207.9**	**205.7**	**199.5**
Stddev	146.	81.	3.6	103.	3.4	4.9	4.7	3.7	3.9	3.5	2.6
%RSD	2.958	1.626	1.730	2.060	1.681	2.429	2.298	1.817	1.880	1.722	1.326
#1	5076.	5007.	209.3	5047.	208.0	208.2	207.9	206.5	212.2	205.4	202.5
#2	4787.	4883.	205.3	4890.	201.2	198.6	201.1	199.1	206.9	202.3	197.5
#3	4897.	5034.	212.5	5085.	203.6	201.3	199.0	202.5	204.6	209.4	198.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**203.1**	**204.7**	**208.1**	**5066.**	**5030.**	**200.6**	**193.6**
Stddev	4.2	2.6	3.9	112.	47.	3.0	3.6
%RSD	2.047	1.246	1.856	2.201	.9345	1.520	1.863
#1	207.9	204.8	212.3	5102.	5052.	200.2	197.7
#2	200.0	202.1	204.6	4941.	4976.	197.7	190.8
#3	201.6	207.2	207.5	5155.	5062.	203.8	192.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16503.**	**40147.**	**16602.**
Stddev	301.	359.	212.
%RSD	1.8254	.89473	1.2750
#1	16165.	40017.	16467.
#2	16743.	40553.	16846.
#3	16601.	39870.	16493.

Sample Name: S301024-ICB1 Acquired: 1/14/2013 13:27:11 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.062**	**4.503**	**1.073**	**.0073**	**.1674**	**-1.859**	**.3513**	**.0952**	**.2383**	**1.137**	**-3.676**
Stddev	1.283	17.89	3.098	.1785	.0187	7.342	.0686	.4234	.1638	1.011	2.272
%RSD	120.9	397.3	288.9	2439.	11.19	394.8	19.53	444.7	68.73	88.94	61.83
#1	.9796	-9.816	-2.476	.2120	.1638	-1.323	.2743	-.3355	.1228	1.739	-4.623
#2	-.1784	-1.231	3.242	-.1162	.1507	-9.455	.4059	.5109	.1663	1.701	-1.083
#3	2.384	24.56	2.451	-.0738	.1876	5.199	.3738	.1103	.4258	-.0305	-5.321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-134.1**	**11.23**	**.2946**	**-6.210**	**.0637**	**-.7775**	**.1091**	**-4.674**	**-.9841**	**.0001**	**.0126**
Stddev	53.2	26.94	.1113	13.32	.5654	1.383	3.019	.384	.6798	.3375	.1624
%RSD	39.72	240.0	37.76	214.5	887.5	177.9	2767.	8.211	69.07	379500.	1286.
#1	-115.0	-12.46	.2001	-21.06	-.2680	.3176	-3.359	-5.116	-.2959	.1839	-.1003
#2	-194.2	40.54	.2666	4.678	.7166	-.3185	2.150	-4.478	-1.655	.2057	-.0606
#3	-92.99	5.595	.4172	-2.247	-.2575	-2.331	1.536	-4.428	-1.001	-.3894	.1987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6702**	**.2165**	**2.754**	**-3.644**	**26.30**	**-.0637**	**.6749**
Stddev	.4145	.2752	.733	2.247	6.60	1.203	1.032
%RSD	61.85	127.1	26.62	61.68	25.08	1888.	152.9
#1	.2151	-.0693	2.331	-2.591	24.87	-1.049	1.795
#2	1.026	.2393	3.600	-6.224	20.54	-.4195	-.2356
#3	.7695	.4796	2.330	-2.115	33.49	1.277	.4648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16963.**	**39488.**	**17237.**
Stddev	209.	2147.	167.
%RSD	1.2313	5.4382	.97071
#1	16742.	40620.	17373.
#2	16990.	40832.	17288.
#3	17158.	37011.	17050.

Sample Name: S301024-LCV1 Acquired: 1/14/2013 13:32:05 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.286**	**109.9**	F **10.78**	**101.8**	**3.283**	**523.0**	**3.232**	**20.50**	**6.018**	**11.45**	**62.18**
Stddev	.290	14.1	.30	1.1	.018	3.7	.348	.37	.154	.71	4.24
%RSD	4.619	12.83	2.805	1.062	.5646	.7085	10.76	1.824	2.557	6.178	6.823
#1	6.013	116.3	10.88	100.7	3.264	524.7	2.948	20.08	6.192	12.13	66.83
#2	6.591	119.7	10.44	101.8	3.301	518.7	3.620	20.66	5.962	11.49	61.18
#3	6.255	93.78	11.03	102.8	3.284	525.5	3.129	20.77	5.900	10.72	58.53
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			8.000								
Range			30.00%								

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**484.5**	**479.2**	**5.620**	**1021.**	**20.06**	**7.521**	**19.44**	**16.06**	**21.14**	**20.99**	**23.32**
Stddev	50.4	8.6	.070	8.	.08	1.842	1.69	2.47	2.49	.11	.14
%RSD	10.40	1.784	1.237	.7367	.3774	24.49	8.706	15.40	11.76	.5075	.6054
#1	537.5	484.6	5.605	1016.	20.07	6.650	17.49	18.39	23.99	20.87	23.39
#2	437.2	483.7	5.559	1016.	19.98	6.275	20.51	16.32	19.97	21.06	23.41
#3	478.9	469.4	5.696	1029.	20.13	9.637	20.32	13.47	19.44	21.04	23.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.64**	**10.51**	**12.48**	**506.8**	**531.9**	**10.14**	**11.31**
Stddev	.22	.17	1.16	1.9	22.1	.13	1.08
%RSD	2.071	1.581	9.323	.3661	4.153	1.252	9.588
#1	10.39	10.49	11.17	508.9	506.4	10.22	11.39
#2	10.81	10.69	12.89	505.4	544.0	10.21	12.34
#3	10.72	10.36	13.39	506.1	545.3	9.994	10.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16539.**	**39665.**	**16047.**
Stddev	134.	434.	360.
%RSD	.81163	1.0951	2.2465
#1	16641.	39739.	16320.
#2	16387.	40058.	16181.
#3	16589.	39199.	15638.

Sample Name: S301024-LCV2 Acquired: 1/14/2013 13:36:57 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.88**	**196.8**	**19.64**	**207.0**	**6.276**	**1052.**	**6.839**	**41.64**	**11.36**	**22.41**	**103.7**
Stddev	.15	17.2	2.42	1.0	.160	4.	.139	.24	.18	1.22	2.9
%RSD	1.266	8.750	12.34	.4948	2.555	.4158	2.026	.5760	1.597	5.456	2.767
#1	11.89	210.3	22.22	205.9	6.428	1049.	6.852	41.90	11.52	22.86	105.7
#2	11.72	202.7	17.41	208.0	6.291	1050.	6.970	41.58	11.40	21.03	100.4
#3	12.02	177.4	19.30	207.0	6.108	1057.	6.694	41.43	11.17	23.35	104.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**985.7**	**1014.**	**11.00**	**2081.**	**41.21**	**15.91**	**42.07**	**40.91**	**42.33**	**42.88**	**41.39**
Stddev	24.0	75.	.08	30.	.55	1.46	2.24	2.88	.62	.45	.17
%RSD	2.437	7.410	.7699	1.448	1.346	9.202	5.329	7.049	1.475	1.047	.4082
#1	1002.	1085.	11.02	2046.	41.15	17.42	39.54	43.83	42.84	42.70	41.55
#2	996.8	1022.	11.07	2096.	41.79	15.82	43.79	38.06	41.63	42.55	41.21
#3	958.1	935.5	10.91	2100.	40.68	14.49	42.89	40.84	42.52	43.39	41.40
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.10**	**21.51**	**21.45**	**1037.**	**1044.**	**21.25**	**20.90**
Stddev	.51	.21	.61	6.	4.	.29	.10
%RSD	2.411	.9865	2.859	.5922	.3943	1.343	.4686
#1	20.89	21.27	21.68	1035.	1042.	21.58	20.78
#2	21.68	21.58	21.90	1044.	1042.	21.12	20.94
#3	20.73	21.68	20.75	1033.	1049.	21.05	20.96
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16853.**	**41011.**	**16680.**
Stddev	94.	419.	155.
%RSD	.55874	1.0206	.92657
#1	16918.	40663.	16819.
#2	16745.	40896.	16513.
#3	16897.	41476.	16708.

Sample Name: S301024-IFA1 Acquired: 1/14/2013 13:41:50 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5939	313700.	-.1622	.2231	-.9395	298900.	-2.478	-1.040	1.875	2.520	292600.
Stddev	.1315	3130.	.7065	.5303	.2432	2827.	.650	.262	.214	1.124	4520.
%RSD	22.14	.9976	435.4	237.7	25.88	.9456	26.25	25.19	11.39	44.60	1.545
#1	.4591	312900.	-.8035	-.3698	-.8404	295700.	-2.992	-1.297	1.667	1.262	296100.
#2	.7218	311100.	.5951	.6524	-1.217	301100.	-1.747	-1.050	1.865	2.872	287500.
#3	.6007	317200.	-.2784	.3867	-.7616	299900.	-2.695	-.7734	2.094	3.426	294100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.68	298100.	.0389	305600.	1.725	-4.217	.2579	4.994	2.675	-.7309	3.152
Stddev	85.96	1486.	.0309	1146.	.378	4.479	4.389	.367	2.475	.8269	.244
%RSD	334.7	.4984	79.48	.3751	21.89	106.2	1702.	7.354	92.53	113.1	7.732
#1	123.1	298400.	.0481	306500.	1.293	-7.555	-.3737	4.840	5.301	.2058	3.072
#2	-39.46	296400.	.0044	304300.	1.989	-5.970	4.929	4.729	.3862	-1.360	2.959
#3	-6.602	299400.	.0641	305900.	1.895	.8736	-3.781	5.413	2.336	-1.039	3.426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Tl3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.330	-.1450	6.483	-17.76	32.41	.5245	2.316
Stddev	.234	.1435	1.719	3.25	21.47	.3878	.552
%RSD	10.04	98.99	26.52	18.28	66.24	73.93	23.82
#1	-2.430	-.1033	5.814	-14.22	12.85	.0915	1.714
#2	-2.062	-.0269	8.436	-20.60	29.01	.8396	2.798
#3	-2.496	-.3048	5.199	-18.46	55.38	.6424	2.436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15148.	36829.	16257.
Stddev	39.	280.	86.
%RSD	.25812	.76057	.53020
#1	15193.	36902.	16207.
#2	15127.	37066.	16356.
#3	15125.	36520.	16206.

Sample Name: B301053-BLK1 Acquired: 1/14/2013 13:47:06 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.061**	**44.40**	**1.118**	**-.1933**	**-.0516**	**12.80**	**-.0353**	**-.0312**	**.4314**	**1.553**	**24.25**
Stddev	.705	35.97	1.941	.0803	.1831	9.76	.1057	.0766	.2808	.394	1.43
%RSD	66.46	81.01	173.7	41.54	354.8	76.21	299.5	245.6	65.11	25.37	5.914
#1	1.874	80.69	1.402	-.2684	.0613	3.546	.0762	.0057	.4928	1.159	22.59
#2	.6968	43.73	-.9499	-.2030	.0467	22.99	-.1341	-.1192	.6764	1.553	25.11
#3	.6129	8.766	2.900	-.1086	-.2629	11.87	-.0480	.0200	.1249	1.947	25.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-91.05**	**19.60**	**-.0270**	**98.68**	**-.1574**	**.6385**	**1.562**	**-.8673**	**-.9664**	**-.3385**	**.0359**
Stddev	106.3	10.82	.0898	18.19	.6772	.8955	1.249	6.285	1.950	.3247	.3469
%RSD	116.7	55.19	332.8	18.43	430.2	140.2	79.99	724.6	201.8	95.91	967.4
#1	-184.5	14.11	-.0430	111.7	.3283	-.3941	2.617	-2.955	-3.131	-.1168	-.1941
#2	-113.2	32.06	.0698	106.5	-.9309	1.202	1.886	-5.843	-.4213	-.7112	.4349
#3	24.55	12.62	-.1077	77.90	.1305	1.108	.1823	6.195	.6533	-.1876	-.1332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2489**	**.6782**	**-.0512**	**133.6**	**174.5**	**.1065**	**.4637**
Stddev	.3888	.2716	1.385	10.3	31.6	.7242	.6859
%RSD	156.2	40.05	2706.	7.680	18.12	679.8	147.9
#1	.0282	.9915	1.179	145.4	210.8	.2970	-.3085
#2	-.0816	.5347	.2186	129.0	159.9	-.6938	1.002
#3	-.6934	.5084	-1.551	126.5	152.8	.7164	.6976
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16777.**	**41235.**	**16702.**
Stddev	**69.**	**106.**	**239.**
%RSD	.41059	.25669	1.4292
#1	16719.	41358.	16975.
#2	16759.	41171.	16537.
#3	16853.	41177.	16593.

Sample Name: B301053-SRM1 Acquired: 1/14/2013 13:51:57 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**410.2**	**103000.**	**1610.**	**2087.**	**1073.**	**68380.**	**1016.**	**1256.**	**1243.**	**1179.**	**146000.**
Stddev	2.3	1426.	5.	23.	9.	735.	4.	5.	8.	7.	1291.
%RSD	.5501	1.384	.2895	1.090	.8317	1.074	.4395	.3827	.6231	.5657	.8844
#1	407.8	101400.	1613.	2065.	1063.	67560.	1012.	1251.	1236.	1172.	144600.
#2	412.3	103400.	1612.	2086.	1075.	68630.	1021.	1260.	1252.	1185.	146100.
#3	410.6	104200.	1604.	2111.	1081.	68960.	1016.	1258.	1242.	1178.	147200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31790.**	**28820.**	**3533.**	**3599.**	**678.1**	**711.9**	**1189.**	**1244.**	**1946.**	**943.7**	**2673.**
Stddev	236.	280.	76.	30.	3.5	5.8	7.	7.	10.	2.8	6.
%RSD	.7407	.9720	2.163	.8450	.5175	.8202	.5942	.5724	.5359	.2936	.2250
#1	31520.	28510.	3490.	3579.	674.5	705.2	1181.	1243.	1953.	940.6	2666.
#2	31930.	28880.	3488.	3634.	681.5	716.2	1192.	1238.	1934.	945.8	2676.
#3	31930.	29060.	3621.	3583.	678.1	714.1	1193.	1252.	1951.	944.9	2677.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**612.4**	**3331.**	**826.2**	**30490.**	**31100.**	**1322.**	**1243.**
Stddev	2.5	34.	2.0	209.	451.	5.	3.
%RSD	.4119	1.016	.2427	.6865	1.451	.3789	.2652
#1	609.7	3342.	825.3	30280.	30610.	1317.	1241.
#2	614.6	3293.	828.5	30700.	31190.	1327.	1242.
#3	613.1	3358.	824.8	30480.	31500.	1323.	1247.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17309.**	**41231.**	**16771.**
Stddev	137.	441.	319.
%RSD	.79115	1.0703	1.9031
#1	17467.	41504.	17104.
#2	17240.	41468.	16741.
#3	17221.	40722.	16468.

Sample Name: B301053-SRM2 Acquired: 1/14/2013 13:56:49 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**416.9**	**90230.**	**1629.**	**2043.**	**1081.**	**68090.**	**1026.**	**1289.**	**1246.**	**1200.**	**138300.**
Stddev	4.6	1220.	12.	8.	11.	1058.	1.	1.	22.	19.	1474.
%RSD	1.092	1.352	.7459	.3901	1.055	1.554	.1410	.1001	1.741	1.588	1.066
#1	415.0	88850.	1626.	2034.	1068.	66870.	1025.	1291.	1228.	1184.	136600.
#2	413.6	90660.	1619.	2046.	1088.	68690.	1026.	1288.	1241.	1194.	138900.
#3	422.1	91170.	1643.	2049.	1088.	68700.	1028.	1289.	1270.	1221.	139300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30290.**	**26660.**	**3507.**	**3382.**	**697.9**	**708.4**	**2139.**	**1338.**	**1952.**	**923.4**	**2708.**
Stddev	402.	410.	72.	28.	1.1	1.0	7.	3.	24.	5.9	4.
%RSD	1.325	1.538	2.044	.8167	.1598	.1347	.3084	.2096	1.250	.6366	.1507
#1	29830.	26200.	3459.	3351.	697.3	708.4	2139.	1340.	1969.	918.8	2713.
#2	30550.	26820.	3472.	3392.	697.2	707.4	2132.	1339.	1924.	921.3	2705.
#3	30490.	26980.	3589.	3403.	699.2	709.3	2145.	1335.	1962.	930.0	2707.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**663.6**	**2314.**	**813.0**	**10630.**	**10870.**	**1306.**	**1398.**
Stddev	.7	43.	3.7	384.	160.	21.	3.
%RSD	.1116	1.838	.4611	3.612	1.474	1.575	.2129
#1	663.5	2273.	808.6	10440.	10920.	1292.	1399.
#2	663.0	2311.	815.2	10380.	10690.	1296.	1395.
#3	664.4	2358.	815.1	11070.	10990.	1329.	1401.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17496.	41578.	16842.
Stddev	28.	739.	139.
%RSD	.16161	1.7764	.82744
#1	17499.	42174.	16995.
#2	17522.	41808.	16723.
#3	17466.	40752.	16809.

Sample Name: 1301011-01 Acquired: 1/14/2013 14:01:32 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8261**	**57770.**	**12.75**	**203.2**	**1.899**	**5465.**	**.6636**	**38.98**	**91.68**	**51.45**	**99050.**
Stddev	.9288	193.	.05	1.9	.161	50.	.1446	.32	.69	.86	629.
%RSD	112.4	.3341	.3545	.9452	8.458	.9178	21.79	.8165	.7510	1.667	.6353
#1	-1.822	57870.	12.70	205.0	1.756	5483.	.6806	39.25	91.19	51.81	99370.
#2	-.6718	57900.	12.79	203.6	2.073	5504.	.7990	39.05	92.46	50.47	99440.
#3	.0159	57550.	12.76	201.2	1.868	5409.	.5113	38.63	91.37	52.08	98320.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6091.**	**21160.**	**964.2**	**233.9**	**98.80**	**46.98**	**1.195**	**-.1862**	**-1.697**	**99.46**	**265.1**
Stddev	61.	100.	1.0	12.1	.84	1.41	4.052	2.445	1.709	.29	1.0
%RSD	.9943	.4705	.1034	5.190	.8503	3.002	339.1	1313.	100.7	.2965	.3680
#1	6140.	21270.	963.2	247.9	99.58	48.35	-2.429	-2.619	-3.018	99.42	266.2
#2	6023.	21150.	965.2	226.5	98.92	45.53	.4438	2.271	.2325	99.77	264.5
#3	6109.	21070.	964.1	227.3	97.91	47.06	5.570	-.2104	-2.305	99.19	264.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1443**	**1642.**	**25.90**	**6184.**	**6232.**	**58.18**	**2.287**
Stddev	.3361	13.	.42	22.	95.	.45	.142
%RSD	233.0	.7798	1.607	.3511	1.520	.7770	6.194
#1	.2003	1641.	25.83	6187.	6337.	58.63	2.386
#2	-.4712	1656.	25.52	6204.	6206.	58.18	2.349
#3	-.1619	1631.	26.34	6160.	6153.	57.73	2.124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17635.**	**42098.**	**16612.**
Stddev	134.	320.	85.
%RSD	.75801	.76062	.51291
#1	17537.	42299.	16631.
#2	17581.	41729.	16686.
#3	17787.	42267.	16518.

Sample Name: B301053-MS1 Acquired: 1/14/2013 14:06:19 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**188.1**	**61870.**	**204.1**	**401.0**	**200.1**	**10280.**	**196.0**	**232.7**	**288.4**	**247.5**	**103000.**
Stddev	.4	600.	2.7	5.2	2.6	84.	1.3	.6	2.3	1.1	1052.
%RSD	.2347	.9691	1.314	1.307	1.286	.8178	.6509	.2643	.8067	.4383	1.021
#1	188.5	62530.	202.5	405.3	201.3	10350.	196.6	232.1	289.5	248.3	103900.
#2	188.2	61350.	207.2	395.2	197.2	10180.	194.6	232.7	285.7	246.3	101800.
#3	187.6	61740.	202.6	402.5	201.9	10300.	197.0	233.3	289.9	247.9	103400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10870.**	**25890.**	**1150.**	**5102.**	**291.2**	**237.5**	**204.9**	**194.0**	**192.1**	**294.8**	**458.4**
Stddev	41.	240.	7.	56.	1.7	2.3	1.6	5.9	1.6	.9	1.5
%RSD	.3738	.9250	.5738	1.104	.5927	.9827	.7705	3.054	.8466	.2945	.3197
#1	10910.	26050.	1156.	5124.	291.2	237.5	204.5	187.2	192.1	295.8	458.5
#2	10830.	25610.	1143.	5037.	289.5	235.2	206.6	198.3	193.8	294.1	456.9
#3	10870.	26000.	1151.	5143.	292.9	239.9	203.5	196.4	190.5	294.6	459.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**193.1**	**1819.**	**215.7**	**5886.**	**5966.**	**254.0**	**186.4**
Stddev	1.0	54.	3.4	62.	263.	3.1	.7
%RSD	.5219	2.978	1.559	1.049	4.412	1.222	.3902
#1	192.4	1879.	216.6	5829.	6249.	255.7	185.9
#2	192.7	1774.	212.0	5952.	5728.	250.4	187.2
#3	194.3	1804.	218.6	5878.	5920.	255.8	186.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17686.**	**42381.**	**16708.**
Stddev	5.	364.	67.
%RSD	.02558	.85873	.40026
#1	17681.	42069.	16775.
#2	17690.	42781.	16641.
#3	17686.	42293.	16708.

Sample Name: B301053-MSD1 Acquired: 1/14/2013 14:11:00 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.84	12450.	43.08	80.78	39.71	2091.	39.79	47.18	58.79	50.60	20910.
Stddev	.45	150.	1.76	.68	.38	19.	.06	.06	.53	1.08	55.
%RSD	1.154	1.201	4.089	.8366	.9634	.8937	.1446	.1319	.9032	2.143	.2611
#1	38.96	12280.	43.40	80.02	39.29	2070.	39.75	47.23	58.75	49.35	20840.
#2	39.21	12520.	44.66	81.32	40.02	2105.	39.86	47.11	59.34	51.22	20940.
#3	38.34	12560.	41.18	80.99	39.84	2098.	39.77	47.19	58.28	51.23	20940.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2150.	5224.	233.1	1033.	58.86	47.88	43.45	39.04	38.20	59.21	93.20
Stddev	62.	23.	.9	65.	.20	1.73	1.27	5.96	1.64	.06	.26
%RSD	2.887	.4402	.3685	6.262	.3440	3.621	2.933	15.26	4.301	.1035	.2815
#1	2079.	5238.	233.9	1062.	58.85	49.81	43.38	45.01	39.81	59.15	93.15
#2	2194.	5197.	233.4	959.0	59.07	46.45	44.75	39.02	36.52	59.20	93.49
#3	2176.	5236.	232.2	1078.	58.67	47.39	42.21	33.10	38.27	59.27	92.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.64	369.6	44.89	1368.	1426.	51.69	38.89
Stddev	.06	10.1	.50	15.	149.	.91	.33
%RSD	.1484	2.740	1.106	1.113	10.46	1.755	.8521
#1	38.69	380.9	44.55	1351.	1357.	52.36	39.26
#2	38.58	361.4	44.65	1378.	1324.	52.04	38.76
#3	38.65	366.5	45.46	1376.	1597.	50.66	38.64
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17079.	41208.	16240.
Stddev	67.	62.	185.
%RSD	.39131	.14982	1.1415
#1	17140.	41237.	16214.
#2	17007.	41137.	16437.
#3	17090.	41250.	16069.

Sample Name: 1301011-02 Acquired: 1/14/2013 14:15:47 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7434**	**59460.**	**14.90**	**210.2**	**1.782**	**5554.**	**-.9934**	**36.53**	**83.81**	**47.21**	**103900.**
Stddev	.7942	9799.	.46	34.2	.214	891.	2.171	.17	2.53	1.01	16790.
%RSD	106.8	16.48	3.066	16.27	11.98	16.04	218.6	.4758	3.023	2.148	16.15
#1	-.4379	53860.	14.90	192.5	1.742	5066.	.3077	36.67	86.64	47.96	94730.
#2	-1.645	70780.	15.36	249.7	2.013	6583.	-3.500	36.57	81.76	46.06	123300.
#3	-.1473	53750.	14.45	188.5	1.592	5015.	.2120	36.33	83.02	47.63	93750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6118.**	**22140.**	**891.4**	**204.1**	**93.27**	**45.38**	**-.3893**	**-1.258**	**-1.289**	**92.02**	**250.8**
Stddev	968.	3510.	22.9	88.1	.76	1.22	1.272	2.871	.611	2.90	2.9
%RSD	15.82	15.86	2.567	43.18	.8163	2.696	326.7	228.2	47.37	3.151	1.170
#1	5563.	20250.	916.1	102.5	94.12	44.17	-1.586	-.9690	-.8712	95.05	253.9
#2	7235.	26190.	871.1	259.6	92.64	45.36	-.5275	1.457	-1.990	89.27	248.0
#3	5555.	19980.	886.9	250.3	93.05	46.61	.9459	-4.263	-1.006	91.74	250.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4419**	**1575.**	**24.37**	**4726.**	**5481.**	**52.75**	**2.113**
Stddev	.1194	38.	.92	106.	868.	1.77	.887
%RSD	27.02	2.412	3.776	2.241	15.83	3.352	41.99
#1	-.3472	1619.	24.76	4843.	4998.	54.79	1.418
#2	-.4025	1549.	23.32	4697.	6483.	51.76	1.808
#3	-.5761	1558.	25.04	4637.	4962.	51.70	3.112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17733.**	**43288.**	**16028.**
Stddev	115.	541.	1897.
%RSD	.65110	1.2496	11.837
#1	17645.	42664.	17220.
#2	17864.	43629.	13840.
#3	17690.	43571.	17024.

Sample Name: 1301011-03 @5 Acquired: 1/14/2013 14:20:34 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.539**	**10850.**	**18.40**	**720.6**	**.5701**	**45590.**	**3.024**	**15.38**	**33.99**	**193.1**	**29470.**
Stddev	.356	42.	1.14	4.6	.1086	107.	.148	.17	1.03	1.0	14.
%RSD	14.04	.3844	6.213	.6437	19.05	.2349	4.910	1.073	3.043	.4993	.0482
#1	2.140	10840.	17.17	717.4	.6700	45600.	2.912	15.29	35.18	194.0	29470.
#2	2.647	10820.	19.43	725.9	.5857	45470.	3.192	15.57	33.44	192.1	29450.
#3	2.828	10900.	18.61	718.4	.4545	45680.	2.967	15.28	33.35	193.2	29480.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1949.**	**7266.**	**2627.**	**504.7**	**102.2**	**66850.**	**10.45**	**2.663**	**-4.443**	**51.93**	**509.2**
Stddev	22.	96.	25.	49.6	1.3	123.	1.79	3.262	1.732	.42	2.7
%RSD	1.113	1.323	.9492	9.823	1.240	.1833	17.11	122.5	38.99	.8101	.5344
#1	1936.	7202.	2604.	481.5	103.7	66730.	8.551	4.337	-2.460	52.31	510.4
#2	1974.	7377.	2625.	470.9	101.4	66830.	12.10	-1.096	-5.212	51.47	506.1
#3	1937.	7220.	2653.	561.6	101.6	66980.	10.70	4.747	-5.658	52.00	511.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.742**	**447.7**	**9.634**	**831.4**	**842.0**	**232.7**	**37.33**
Stddev	.248	3.4	.230	22.4	16.9	3.1	.51
%RSD	14.26	.7664	2.389	2.697	2.001	1.329	1.371
#1	1.574	448.7	9.713	822.9	822.6	234.4	37.46
#2	1.625	450.5	9.374	856.9	850.9	229.2	37.77
#3	2.027	443.9	9.813	814.5	852.5	234.6	36.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17142.**	**41379.**	**16575.**
Stddev	110.	94.	94.
%RSD	.64329	.22618	.57010
#1	17207.	41464.	16600.
#2	17204.	41393.	16654.
#3	17014.	41279.	16470.

Sample Name: 1301011-03 @10 Acquired: 1/14/2013 14:25:29 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.772**	**5372.**	**11.65**	**355.6**	**.3030**	**22300.**	**1.315**	**7.470**	**16.12**	**96.15**	**14530.**
Stddev	.361	16.	1.13	2.1	.1980	112.	.084	.116	.77	1.82	105.
%RSD	20.38	.2945	9.735	.5862	65.35	.5040	6.386	1.550	4.761	1.897	.7224
#1	1.576	5362.	11.55	353.9	.5237	22170.	1.263	7.357	15.91	96.00	14410.
#2	1.551	5365.	12.83	358.0	.2444	22340.	1.411	7.465	15.48	94.40	14620.
#3	2.189	5390.	10.57	355.1	.1409	22380.	1.270	7.589	16.98	98.04	14550.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**863.7**	**3590.**	**1323.**	**244.9**	**50.56**	**33290.**	**5.367**	**-3.501**	**-.5769**	**25.56**	**255.8**
Stddev	47.4	18.	18.	69.3	.45	97.	1.770	2.497	2.390	.37	.9
%RSD	5.492	.5047	1.345	28.30	.8848	.2927	32.97	71.32	414.2	1.437	.3487
#1	897.9	3572.	1312.	181.9	50.39	33190.	4.244	-6.356	-.3952	25.37	256.8
#2	883.8	3608.	1313.	233.6	51.07	33390.	4.450	-1.727	1.717	25.33	255.6
#3	809.6	3589.	1343.	319.1	50.23	33290.	7.407	-2.420	-3.052	25.99	255.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3594**	**217.7**	**3.778**	**376.6**	**434.4**	**113.8**	**19.53**
Stddev	.2945	5.1	1.154	13.6	58.7	1.0	.53
%RSD	81.95	2.354	30.55	3.609	13.51	.8925	2.705
#1	.2130	215.0	2.726	385.9	486.9	113.3	20.12
#2	.6984	214.5	5.013	382.9	371.1	113.2	19.09
#3	.1667	223.6	3.596	361.0	445.3	115.0	19.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17469.**	**42079.**	**16498.**
Stddev	60.	498.	170.
%RSD	.34209	1.1828	1.0287
#1	17432.	42590.	16686.
#2	17436.	42050.	16452.
#3	17538.	41596.	16357.

Sample Name: 1301011-03 @25 Acquired: 1/14/2013 14:30:18 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4939	2156.	2.974	145.1	.0191	9085.	.5662	2.957	6.713	39.02	5896.
Stddev	.5366	43.	2.472	1.5	.1295	79.	.0828	.191	.464	.95	54.
%RSD	108.7	2.011	83.12	1.014	676.7	.8660	14.62	6.453	6.913	2.434	.9230
#1	1.104	2149.	.8055	143.6	-.0469	8994.	.6601	3.127	6.368	38.36	5834.
#2	.2836	2202.	5.665	145.1	-.0640	9135.	.5348	2.750	7.241	40.11	5922.
#3	.0943	2117.	2.451	146.5	.1683	9125.	.5037	2.993	6.531	38.59	5933.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	387.0	1458.	535.4	82.58	20.54	13540.	.4914	-2.791	-.3531	10.53	104.6
Stddev	153.6	36.	2.0	25.37	.25	35.	1.298	3.900	1.111	.09	.2
%RSD	39.69	2.463	.3718	30.72	1.208	.2587	264.1	139.7	314.5	.8666	.2213
#1	544.8	1498.	534.0	86.47	20.80	13550.	-.8811	-.8369	-1.513	10.44	104.5
#2	238.1	1431.	537.7	105.8	20.30	13510.	.6571	-7.282	.7008	10.55	104.5
#3	378.0	1444.	534.6	55.48	20.54	13570.	1.698	-.2541	-.2476	10.62	104.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1492	87.83	.8246	179.6	164.3	46.91	8.309
Stddev	.4238	.64	.2579	18.0	20.8	1.22	.914
%RSD	284.1	.7328	31.28	10.05	12.67	2.592	11.00
#1	.5413	87.29	.9698	163.4	177.9	45.51	8.001
#2	.2066	88.54	.5268	199.0	174.6	47.49	9.337
#3	-.3004	87.65	.9772	176.2	140.3	47.72	7.588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17490.	41964.	15850.
Stddev	77.	217.	195.
%RSD	.43850	.51641	1.2285
#1	17556.	42200.	16065.
#2	17507.	41774.	15800.
#3	17406.	41917.	15686.

Sample Name: S301024-CCV1 Acquired: 1/14/2013 14:35:06 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**193.7**	**4816.**	**196.2**	**196.4**	**190.6**	**5001.**	**205.7**	**196.6**	**207.8**	**190.6**	**4978.**
Stddev	.4	67.	5.2	.8	1.4	43.	1.1	.5	.9	1.0	30.
%RSD	.2249	1.396	2.650	.3878	.7512	.8645	.5126	.2297	.4369	.5369	.5956
#1	194.0	4738.	201.8	196.0	189.0	4952.	206.9	197.1	208.4	190.7	4947.
#2	194.0	4855.	191.6	195.9	191.1	5017.	205.0	196.2	208.3	191.5	4981.
#3	193.2	4854.	195.1	197.3	191.7	5035.	205.2	196.4	206.8	189.5	5006.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5012.**	**4951.**	**206.3**	**4844.**	**199.7**	**203.0**	**197.7**	**198.1**	**202.3**	**202.5**	**204.4**
Stddev	115.	48.	.3	25.	.2	.5	1.3	.9	.8	.4	.8
%RSD	2.293	.9652	.1691	.5224	.1049	.2549	.6765	.4539	.4049	.1867	.3939
#1	4882.	4912.	206.6	4825.	199.5	202.6	199.2	198.6	201.5	202.4	205.1
#2	5054.	5005.	206.4	4873.	199.7	202.9	197.0	198.7	203.1	202.1	204.6
#3	5100.	4937.	205.9	4834.	199.9	203.6	196.8	197.1	202.2	202.9	203.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**194.6**	**196.1**	**191.0**	**5109.**	**5145.**	**198.9**	**193.8**
Stddev	.4	.4	.4	5.	45.	.5	.1
%RSD	.2143	.2220	.2188	.0944	.8667	.2706	.0745
#1	194.1	196.5	191.0	5112.	5101.	199.4	193.7
#2	194.5	196.0	191.5	5111.	5144.	198.3	193.7
#3	195.0	195.7	190.7	5103.	5190.	198.9	194.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17521.**	**42047.**	**15812.**
Stddev	72.	195.	182.
%RSD	.40992	.46264	1.1539
#1	17439.	41972.	15605.
#2	17548.	41901.	15950.
#3	17575.	42268.	15880.

Sample Name: S301024-CCB1 Acquired: 1/14/2013 14:39:47 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.461	-12.84	.4132	.0695	.1653	-2.519	-.1059	.0743	.1728	1.433	1.679
Stddev	.983	34.43	.9712	.3964	.2215	3.171	.0535	.0808	.3535	.717	1.325
%RSD	67.23	268.2	235.0	570.0	134.0	125.9	50.53	108.8	204.5	50.05	78.91
#1	.3302	-5.286	-.5713	-.3873	.4210	-4.189	-.1677	-.0162	.2978	1.172	1.991
#2	2.102	17.19	.4404	.2742	.0338	1.137	-.0739	.0997	.4468	2.244	2.820
#3	1.952	-50.41	1.371	.3218	.0410	-4.506	-.0762	.1394	-.2262	.8833	.2258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.163	-9.425	.1030	-19.54	-.5541	.0190	-1.931	-3.509	.9203	-.4230	-.0496
Stddev	70.66	58.21	.0439	13.88	.3922	1.238	2.546	.546	.3863	.0593	.0145
%RSD	6075.	617.6	42.66	71.00	70.79	6502.	131.9	15.56	41.98	14.03	29.11
#1	-71.72	24.12	.1428	-33.27	-.9636	-1.329	-.4786	-3.005	1.145	-.3926	-.0530
#2	69.59	-76.64	.1102	-5.521	-.1818	.2823	-4.871	-3.432	.4742	-.3850	-.0621
#3	-1.358	24.25	.0559	-19.84	-.5169	1.104	-.4427	-4.089	1.142	-.4913	-.0338
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3118	-.0317	-.4513	-4.685	.3413	.3450	.4791
Stddev	.1633	.1737	.9848	2.079	30.12	.0880	.8718
%RSD	52.38	548.3	218.2	44.37	8825.	25.52	182.0
#1	-.1233	.1629	.5181	-7.081	-21.99	.2734	1.297
#2	-.4114	-.0869	-1.451	-3.611	34.60	.4433	.5788
#3	-.4007	-.1710	-.4211	-3.362	-11.59	.3183	-.4382
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17426.	42344.	16310.
Stddev	67.	432.	314.
%RSD	.38504	1.0214	1.9261
#1	17413.	42170.	16670.
#2	17366.	42837.	16170.
#3	17499.	42026.	16092.

Sample Name: 1301011-04 Acquired: 1/14/2013 14:44:39 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301011)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.645**	**30920.**	**41.28**	**831.9**	**1.689**	**54950.**	**5.259**	**40.31**	**110.1**	**241.1**	**79540.**
Stddev	.434	862.	2.74	20.3	.231	1384.	.433	.50	1.0	1.8	2070.
%RSD	26.41	2.787	6.637	2.436	13.67	2.519	8.226	1.250	.9063	.7518	2.602
#1	1.337	30980.	43.78	831.5	1.620	54920.	4.939	40.06	109.2	239.4	79440.
#2	2.142	30030.	41.70	811.9	1.501	53580.	5.752	40.89	110.0	240.9	77520.
#3	1.455	31750.	38.35	852.4	1.947	56340.	5.088	39.98	111.2	243.0	81650.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3747.**	**31220.**	**1110.**	**661.7**	**231.4**	**19620.**	**8.294**	**-2.496**	**-.2881**	**150.3**	**2295.**
Stddev	156.	797.	8.	63.1	2.4	149.	1.510	2.717	1.111	.5	16.
%RSD	4.167	2.553	.6803	9.536	1.026	.7578	18.21	108.8	385.5	.3507	.6897
#1	3927.	31260.	1102.	691.4	230.5	19530.	7.422	-2.437	-.4985	149.7	2293.
#2	3657.	30400.	1111.	589.2	234.1	19790.	7.422	-5.242	-1.279	150.7	2312.
#3	3656.	31990.	1117.	704.5	229.6	19540.	10.04	.1900	.9128	150.5	2280.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.283**	**1418.**	**30.42**	**3300.**	**3322.**	**190.9**	**59.55**
Stddev	.301	15.	.42	73.	216.	1.9	.84
%RSD	9.169	1.083	1.389	2.209	6.514	.9711	1.411
#1	3.520	1402.	30.83	3219.	3366.	189.0	58.59
#2	3.386	1420.	29.98	3361.	3088.	191.0	59.99
#3	2.945	1432.	30.44	3320.	3514.	192.7	60.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17795.**	**42773.**	**16744.**
Stddev	105.	203.	248.
%RSD	.59236	.47483	1.4783
#1	17893.	42974.	16645.
#2	17684.	42777.	17025.
#3	17809.	42568.	16561.

Sample Name: S301024-CCV2 Acquired: 1/14/2013 14:49:24 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**195.0**	**4855.**	**194.7**	**199.0**	**190.6**	**5022.**	**206.7**	**197.3**	**208.4**	**190.5**	**5019.**
Stddev	1.1	40.	4.7	4.2	1.8	55.	2.0	1.1	1.9	1.3	77.
%RSD	.5676	.8292	2.399	2.109	.9680	1.090	.9580	.5537	.9342	.7044	1.528
#1	195.3	4809.	195.1	194.2	188.6	4960.	207.1	197.8	210.3	191.6	4930.
#2	195.9	4879.	199.2	200.8	192.2	5063.	208.4	198.0	208.7	190.9	5064.
#3	193.8	4878.	189.9	201.9	191.0	5043.	204.5	196.0	206.4	189.0	5062.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4946.**	**5008.**	**207.7**	**4809.**	**199.3**	**206.9**	**201.5**	**198.0**	**200.6**	**204.0**	**206.5**
Stddev	165.	55.	1.6	92.	2.0	2.6	3.5	4.3	3.4	1.8	1.7
%RSD	3.332	1.101	.7603	1.923	1.021	1.250	1.724	2.175	1.703	.8887	.8168
#1	4784.	4956.	209.0	4711.	199.8	205.3	199.7	199.0	202.0	203.4	206.1
#2	4940.	5000.	208.1	4895.	201.0	209.9	205.5	201.7	203.1	206.1	208.4
#3	5113.	5066.	206.0	4820.	197.0	205.5	199.4	193.2	196.7	202.6	205.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**195.4**	**196.9**	**191.2**	**5143.**	**5172.**	**199.7**	**194.0**
Stddev	2.0	2.3	2.4	28.	63.	2.1	1.5
%RSD	1.002	1.143	1.264	.5375	1.218	1.046	.7980
#1	195.4	198.6	193.2	5140.	5100.	202.1	194.4
#2	197.3	197.7	191.8	5172.	5213.	198.9	195.4
#3	193.4	194.3	188.5	5117.	5203.	198.2	192.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17267.**	**41337.**	**15342.**
Stddev	87.	413.	365.
%RSD	.50514	.99834	2.3819
#1	17344.	40877.	15680.
#2	17172.	41457.	15390.
#3	17285.	41676.	14954.

Sample Name: S301024-CCB2 Acquired: 1/14/2013 14:54:05 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7592	5.935	.2455	.2857	.1662	2.273	.1210	-.0419	-.0605	.8157	-.9356
Stddev	.3920	4.602	5.154	.1762	.0510	8.820	.1017	.1663	.5768	.7396	5.026
%RSD	51.64	77.53	2099.	61.66	30.71	388.1	84.05	397.3	953.2	90.67	537.2
#1	1.197	9.309	-5.673	.2749	.1091	-6.552	.2045	-.2193	.1007	1.562	-5.036
#2	.4393	.6933	2.668	.1152	.1821	2.281	.0077	-.0166	.4185	.8023	-2.443
#3	.6418	7.804	3.742	.4670	.2073	11.09	.1508	.1104	-.7007	.0829	4.672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-21.23	1.265	.1464	-56.30	-.3040	.6676	1.930	-2.995	-1.757	-.3523	-.1050
Stddev	92.48	10.23	.0427	25.94	.7485	.4376	3.189	3.521	.670	.1107	.2918
%RSD	435.5	809.0	29.19	46.08	246.2	65.55	165.3	117.6	38.10	31.41	277.9
#1	-115.1	-6.964	.1341	-30.11	-1.141	.5516	.2302	.7894	-2.467	-.4129	.2171
#2	-18.32	12.72	.1939	-81.99	-.0724	1.151	5.608	-3.601	-1.136	-.2246	-.1805
#3	69.75	-1.963	.1111	-56.82	.3013	.2997	-.0498	-6.173	-1.669	-.4195	-.3517
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0256	.0974	-.0505	-4.115	10.29	.3539	.7645
Stddev	.3648	.1634	.3949	2.621	23.05	.6226	.8136
%RSD	1425.	167.8	782.5	63.70	223.9	175.9	106.4
#1	-.0257	.1549	-.4844	-3.675	-1.825	-.0932	1.153
#2	.3392	-.0870	.2878	-1.742	36.88	1.065	1.311
#3	-.3903	.2244	.0453	-6.929	-4.170	.0899	-.1705
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17145.	40832.	15618.
Stddev	78.	81.	225.
%RSD	.45310	.19924	1.4426
#1	17189.	40895.	15874.
#2	17055.	40740.	15451.
#3	17191.	40862.	15529.

Sample Name: S301024-LCV3 Acquired: 1/14/2013 14:58:56 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.566**	**71.21**	**8.363**	**102.1**	**3.311**	**523.4**	**3.378**	**20.44**	**5.712**	**11.06**	**61.95**
Stddev	.734	41.58	.535	1.1	.223	6.0	.235	.14	.050	.70	.87
%RSD	13.19	58.39	6.395	1.097	6.725	1.149	6.973	.6965	.8786	6.316	1.402
#1	6.120	118.5	8.799	101.1	3.517	524.4	3.547	20.36	5.699	11.87	61.08
#2	4.733	54.96	7.766	101.9	3.075	528.9	3.109	20.35	5.670	10.59	61.94
#3	5.846	40.21	8.523	103.3	3.342	517.0	3.478	20.61	5.768	10.73	62.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**466.1**	**520.2**	**5.453**	**959.7**	**20.43**	**8.472**	**20.59**	**21.61**	**20.22**	**20.15**	**23.96**
Stddev	77.0	36.7	.058	24.1	.43	2.746	1.13	2.89	1.52	.58	.42
%RSD	16.52	7.061	1.059	2.508	2.087	32.41	5.464	13.36	7.512	2.888	1.770
#1	528.0	478.7	5.482	952.0	20.72	5.919	19.31	22.43	19.24	20.77	24.45
#2	379.9	532.9	5.489	940.4	19.94	8.120	21.07	24.00	21.97	19.61	23.73
#3	490.5	548.8	5.386	986.7	20.63	11.38	21.40	18.40	19.45	20.08	23.69
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.961**	**10.03**	**9.662**	**505.7**	**545.4**	**11.01**	**10.61**
Stddev	.295	.07	.507	7.0	9.9	.53	.49
%RSD	2.965	.7397	5.247	1.389	1.824	4.852	4.626
#1	10.08	9.956	9.094	502.4	540.0	10.40	11.13
#2	10.18	10.04	10.07	500.8	556.9	11.37	10.15
#3	9.625	10.10	9.826	513.7	539.3	11.27	10.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17043.	41043.	15344.
Stddev	28.	131.	264.
%RSD	.16445	.31931	1.7235
#1	17066.	41194.	15223.
#2	17012.	40955.	15648.
#3	17050.	40981.	15162.

Sample Name: S301024-LCV4 Acquired: 1/14/2013 15:03:49 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.89**	**200.5**	**18.99**	**204.3**	**6.138**	**1042.**	**6.704**	**41.65**	**11.38**	**21.33**	**105.9**
Stddev	.42	10.3	2.07	.7	.138	15.	.083	.26	.31	.80	3.0
%RSD	3.878	5.156	10.93	.3527	2.244	1.457	1.240	.6357	2.715	3.757	2.829
#1	11.37	191.4	16.65	203.6	6.109	1030.	6.738	41.44	11.26	21.13	108.1
#2	10.68	211.7	20.61	204.4	6.018	1059.	6.609	41.95	11.73	20.65	102.5
#3	10.62	198.3	19.71	205.0	6.288	1036.	6.764	41.56	11.14	22.21	107.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1158.**	**1044.**	**11.00**	**1989.**	**40.85**	**16.86**	**42.58**	**39.44**	**43.12**	**41.94**	**43.13**
Stddev	136.	56.	.12	22.	.27	2.72	1.47	3.93	1.60	.46	.40
%RSD	11.75	5.323	1.127	1.106	.6716	16.11	3.462	9.962	3.705	1.102	.9321
#1	1017.	1026.	11.09	1970.	41.11	18.26	40.95	42.27	44.89	42.23	42.67
#2	1168.	1000.0	10.86	1984.	40.87	18.60	42.94	34.95	42.69	42.18	43.26
#3	1288.	1107.	11.06	2013.	40.56	13.73	43.83	41.09	41.78	41.41	43.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.34**	**20.47**	**20.38**	**1048.**	**1040.**	**21.10**	**22.14**
Stddev	.20	.35	1.58	10.	49.	1.14	1.09
%RSD	1.001	1.709	7.738	.9412	4.734	5.401	4.903
#1	20.11	20.63	19.27	1059.	992.7	21.70	21.98
#2	20.45	20.71	22.18	1041.	1037.	21.83	23.30
#3	20.48	20.07	19.68	1044.	1091.	19.79	21.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17136.**	**40472.**	**14997.**
Stddev	74.	363.	222.
%RSD	.43216	.89761	1.4793
#1	17121.	40065.	15195.
#2	17216.	40764.	14757.
#3	17070.	40587.	15039.

Sample Name: S301024-IFA2 Acquired: 1/14/2013 15:08:40 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.8169**	**308200.**	**5.379**	**.4003**	**-.9161**	**284900.**	**-2.856**	**-1.143**	**1.324**	**2.125**	**282700.**
Stddev	1.051	2972.	.411	.1443	.1745	3715.	.682	.432	.474	.668	2404.
%RSD	128.7	.9642	7.647	36.05	19.05	1.304	23.87	37.83	35.81	31.41	.8502
#1	.6768	311600.	5.839	.3359	-.7285	280700.	-2.825	-1.610	1.851	2.125	283600.
#2	1.931	305900.	5.046	.5655	-1.074	287800.	-3.552	-1.063	1.187	2.793	284500.
#3	-.1573	307200.	5.251	.2993	-.9462	286200.	-2.190	-.7564	.9329	1.458	280000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**197.9**	**292600.**	**-.1255**	**282000.**	**.4224**	**-5.567**	**-.2545**	**6.708**	**3.199**	**-.9295**	**3.224**
Stddev	66.1	1691.	.1196	4869.	.5250	3.096	4.337	3.798	1.387	.3091	.161
%RSD	33.42	.5779	95.30	1.727	124.3	55.61	1704.	56.61	43.34	33.25	5.000
#1	130.1	294600.	.0105	287000.	.2825	-4.370	.2604	10.17	4.135	-1.023	3.368
#2	262.2	291600.	-.1728	281700.	-.0185	-3.249	3.802	2.644	3.857	-1.181	3.256
#3	201.3	291700.	-.2142	277300.	1.003	-9.083	-4.826	7.313	1.606	-.5846	3.050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.927**	**-.5911**	**4.476**	**-21.48**	**25.88**	**.7196**	**2.905**
Stddev	.230	.3193	.100	3.51	20.56	.6017	1.563
%RSD	7.848	54.02	2.240	16.32	79.44	83.62	53.80
#1	-3.092	-.9356	4.524	-17.50	22.17	.1093	2.325
#2	-2.665	-.3051	4.544	-22.86	48.04	1.312	4.676
#3	-3.025	-.5326	4.361	-24.09	7.425	.7372	1.715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15746.**	**37544.**	**14521.**
Stddev	29.	124.	183.
%RSD	.18122	.33064	1.2607
#1	15778.	37533.	14417.
#2	15737.	37674.	14413.
#3	15724.	37426.	14732.

SOP-G-23 PERCENT SOLIDS/MOISTURE Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Page # : 141

Oven#: D-92

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:

(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)

(A) For Organic analyses, except VOA,: decant any standing water.

(B) For other analyses: mix the sample thoroughly.

Name of Survey(s): Jewett white

Work Order Number: 1301011

Date placed in oven at 103-105degC: 1/14/2013 Time: 7:30 (AM)/PM

Date removed from oven at 103-105degC: 1/14/2013 Time: 7:35 AM/(PM)

SAMPLE ID	WT OF DISH	WT OF DISH + WET/AIR-DRIED SAMPLE	WT OF DISH + DRIED SAMPLE	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
	(grams) -A-	(grams) -B-	(grams) -C-			
1301011-01	1.1084	8.6880	8.6877	100.00%	0.00%	
1301011-01 Dup	1.0630	8.6358	8.6355	100.00%	0.00%	
1301011-02	1.0903	9.3040	9.3036	100.00%	0.00%	
1301011-03	1.3024	7.6874	7.6083	98.76%	1.24%	
1301011-04	1.3100	8.9481	8.9451	99.96%	0.04%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!

Jewett White
P 12 12042
W.O.# 1301016

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301061

Jewett White Lead - 1212042
1301016

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/16/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/16/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/16/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/16/2013
ICB < Reporting Limit?	YES	RR	01/16/2013
RL Low Level recovery ±30%?	YES	RR	01/16/2013
2RL Low Level Recovery ±30%?	YES	RR	01/16/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/16/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/16/2013
CCBs < Reporting Limit?	YES	RR	01/16/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/16/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/16/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301061

Jewett White Lead - 1212042
1301016

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Blank data			Analyst Initials	Date
Prep Blank < Reporting Limit?	YES	*	RR	01/16/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		RR	01/16/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	RR	01/16/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	RR	01/16/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	RR	01/16/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		RR	01/16/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	RR	01/16/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		RR	01/16/2013
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	RR	01/16/2013
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	YES		RR	01/16/2013

1301016-04 was initially ran at two different dilutions (10X, 25X) due to digestate's intense color and suspected matrix effects. True it was the sample was so high in Pb concentration that a detector saturation would result if a straight analysis was done. This sample was reported at 25X dilution.

Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		RR	01/16/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301061

Jewett White Lead - 1212042
1301016

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA	RR	01/16/2013
Percent Solids Log Book info entries completed?	YES	RR	01/16/2013
pH Log Book Log Book info entries completed?	NA	RR	01/16/2013

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	RR	01/16/2013
Peer reviewed? Date and person responsible.	YES	*	LEB	01/16/2013

* = Automated Response from Promium

MANUAL CALCULATION : **MERCURY (solids)**

GENERAL FORMULA :

SOLID SAMPLE : **MG/KG (dry weight)** = $\dfrac{\text{ug/L x D.F x V}}{\text{W x \%TS/100}}$

where:

ug/L = Instrument reading (ave. of three replicates)

D.F = DILUTION FACTOR

V = FINAL VOLUME OF DIGESTATE, Liter

= **0.025 L**

W = WEIGHT OF SAMPLE, gram(s)

= 0.5110 **g**

% TS = PERCENT TOTAL SOLIDS

note # 1: **D.F = 1 (when no dilution)**

note # 2: **MG/KG = ug / g**

Example calculation on sample # 1301016-04 with (% TS = 79.68)

Dilution Factor = 25

using the above equation : (for solid samples)

Analyte: Hg

MG/KG (ug / g) = $\dfrac{3\,1060 \text{ mg/L} \times 25 \times 0.050\text{L}}{0.5110 \text{ g} \times 79.68/100}$

= 95354.5

MG/KG (ug / g) = **95,000** (ROUNDED VALUE FOR LIMS)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301061

Prepared by: RR
Prepared on: 01/15/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301016-01	N/A	33	Yes	0.5357	50					
	1301016-02	N/A	33	Yes	0.55	50					
	1301016-03	N/A	33	Yes	0.5286	50					
	1301016-04	N/A	33	Yes	0.511	50					
	1301016-05	N/A	33	Yes	0.5095	50					
	B301061-BLK1	N/A	33	Yes	0.5034	50		0		0	
	B301061-MS1	N/A	33	Yes	0.536	50	D2L0305	200	D2L0306	200	1301016-01
	B301061-MSD1	N/A	33	Yes	0.536	50	D2L0305	200	D2L0306	200	1301016-01
	B301061-SRM1	N/A	33	Yes	0.5011	50	D2H1612	501.1		0	
	B301061-SRM2	N/A	33	Yes	0.5028	50	D2H1612	502.8		0	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301061

Prepared by: RR
Prepared on: 01/15/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301027

Instrument: Thermo iTEVA

Printed: 1/16/2013 9:59:07AM

Project Name	Lab Number	Analysis	STD ID
	S301027-CAL1	QC	D3A1531
	S301027-CAL2	QC	D2K1202
	S301027-CAL3	QC	D2K1203
	S301027-ICV1	QC	D2K1204
	S301027-ICB1	QC	D3A1531
	S301027-LCV1	QC	D2K1206
	S301027-LCV2	QC	D2K1207
	S301027-IFA1	QC	D2K1208
	B301061-BLK1	QC	
	B301061-SRM1	QC	
	B301061-SRM2	QC	
Jewett White Lead - 1212042	1301016-01	E-Lead ICP	
	B301061-MS1	QC	
	B301061-MSD1	QC	
Jewett White Lead - 1212042	1301016-02	E-Lead ICP	
Jewett White Lead - 1212042	1301016-03	E-Lead ICP	
Jewett White Lead - 1212042	1301016-04	E-Lead ICP	
Jewett White Lead - 1212042	1301016-04RE1	E-Lead ICP	
Jewett White Lead - 1212042	1301016-05	E-Lead ICP	
	S301027-CCV1	QC	D2K1204
	S301027-CCB1	QC	D3A1531
	S301027-CCV2	QC	D2K1204
	S301027-CCB2	QC	D3A1531
	S301027-LCV3	QC	D2K1206
	S301027-LCV4	QC	D2K1207
	S301027-IFA2	QC	D2K1208

	Pos ID	Type	Samplename	Comment	Instrument	Method	CorrFact	Check	Check Table	Fail Action
1	1	QC	B301061-BLK1		ICAP6300	SOP-C-109	1	☒	PBS	None
2	2	QC	B301061-SRM1		ICAP6300	SOP-C-109	1	☒	LCSS	None
3	3	QC	B301061-SRM2		ICAP6300	SOP-C-109	1	☒	LCSS	None
4	4	Unk	1301016-01	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301061-MS1	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301061-MSD1@5	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301016-02	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
8	8	Unk	1301016-03	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
9	9	Unk	1301016-04@10	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
10	10	Unk	1301016-04@25	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---
11	11	Unk	1301016-05	JEWETT WHITE (1301016)	ICAP6300	SOP-C-109	1	☒	LDR	---

Sample Name: Blank Acquired: 1/15/2013 16:16:15 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**.0003**	**.0001**	**.0099**	**.0008**	**.0073**	**.0010**	**.0001**	**.0000**	**.0132**	**.0010**
Stddev	.0003	.0003	.0000	.0004	.0005	.0005	.0002	.0001	.0002	.0004	.0001
%RSD	43.31	109.3	21.35	4.530	69.67	7.147	15.81	70.76	347.6	2.899	11.46
#1	-.0003	.0006	.0001	.0104	.0005	.0078	.0008	.0001	-.0001	.0128	.0011
#2	-.0008	-.0001	.0001	.0095	.0005	.0072	.0010	.0000	.0002	.0132	.0010
#3	-.0008	.0003	.0002	.0097	.0014	.0068	.0011	.0001	.0001	.0136	.0009

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**.0004**	**.0013**	**-.0006**	**.0000**	**.0006**	**.0002**	**.0002**	**.0000**	**-.0008**	**.0005**
Stddev	.0006	.0005	.0002	.0016	.000	.0002	.0002	.0002	.0001	.0001	.0001
%RSD	35380.	135.6	12.09	277.6	213.5	30.91	95.23	116.6	380.8	17.68	23.06
#1	-.0005	.0003	.0014	-.0005	.0000	.0006	.0001	.0001	.0000	-.0007	.0004
#2	.0007	-.0001	.0011	.0010	-.0001	.0008	.0001	.0000	-.0001	-.0007	.0006
#3	-.0002	.0009	.0012	-.0022	.0000	.0004	.0003	.0004	.0001	-.0009	.0006

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-.0004**	**.0005**	**.0015**	**.0003**	**-.0003**	**.0003**
Stddev	.0001	.0002	.0001	.0002	.0001	.0001	.0000
%RSD	75.65	50.81	15.46	10.44	22.71	29.25	17.30
#1	.0002	-.0002	.0006	.0014	.0004	-.0004	.0002
#2	.0000	-.0004	.0005	.0017	.0003	-.0002	.0003
#3	.0002	-.0007	.0006	.0014	.0004	-.0003	.0002

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15431.	50032.	19473.
Stddev	48.	392.	209.
%RSD	.31375	.78318	1.0743
#1	15375.	50311.	19239.
#2	15464.	50200.	19539.
#3	15453.	49584.	19642.

Sample Name: MID STD Acquired: 1/15/2013 16:21:09 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3170**	**.2177**	**.2218**	**10.98**	**12.30**	**.6451**	**7.402**	**3.210**	**2.584**	**4.088**	**.5099**
Stddev	.0010	.0008	.0010	.12	.09	.0059	.031	.013	.009	.020	.0050
%RSD	.3252	.3540	.4314	1.094	.7262	.9120	.4133	.4123	.3429	.4969	.9787
#1	.3162	.2169	.2215	10.85	12.20	.6390	7.433	3.225	2.594	4.106	.5041
#2	.3167	.2177	.2210	11.07	12.36	.6508	7.372	3.200	2.579	4.092	.5133
#3	.3182	.2185	.2229	11.04	12.34	.6456	7.400	3.205	2.580	4.066	.5121

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1445**	**.0861**	**14.98**	**.1756**	**1.617**	**.7798**	**.3519**	**.1996**	**.2908**	**3.098**	**4.396**
Stddev	.0020	.0010	.12	.0032	.005	.0050	.0022	.0010	.0038	.008	.016
%RSD	1.370	1.148	.7926	1.841	.2884	.6391	.6266	.5242	1.310	.2670	.3640
#1	.1422	.0854	15.01	.1723	1.620	.7825	.3543	.1989	.2865	3.101	4.412
#2	.1456	.0872	14.85	.1758	1.612	.7741	.3499	.1991	.2922	3.089	4.380
#3	.1456	.0857	15.08	.1788	1.619	.7828	.3515	.2008	.2937	3.105	4.398

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.908**	**9.568**	**1.018**	**.2883**	**.0566**	**2.661**	**.5172**
Stddev	.006	.137	.004	.0030	.0004	.012	.0021
%RSD	.3225	1.435	.3452	1.054	.7491	.4465	.4046
#1	1.909	9.678	1.022	.2907	.0565	2.666	.5166
#2	1.902	9.414	1.015	.2893	.0570	2.647	.5154
#3	1.915	9.613	1.019	.2849	.0562	2.669	.5195

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15472.**	**51301.**	**19240.**
Stddev	117.	416.	304.
%RSD	.75391	.81163	1.5788
#1	15374.	50996.	19502.
#2	15441.	51775.	18907.
#3	15601.	51132.	19311.

Sample Name: HIGH STD Acquired: 1/15/2013 16:26:01 Type: Cal
Method: PROM-2013(v2) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6287**	**.4413**	**.4516**	**21.94**	**24.41**	**1.285**	**14.68**	**6.471**	**5.149**	**8.007**	**1.012**
Stddev	.0027	.0021	.0042	.34	.47	.005	.15	.053	.020	.076	.004
%RSD	.4370	.4707	.9404	1.561	1.930	.4128	1.008	.8177	.3810	.9521	.4097
#1	.6318	.4396	.4468	22.17	23.88	1.281	14.59	6.423	5.169	7.945	1.010
#2	.6268	.4436	.4531	21.55	24.78	1.291	14.60	6.463	5.130	7.984	1.017
#3	.6274	.4407	.4550	22.10	24.58	1.282	14.85	6.528	5.149	8.092	1.009

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2929**	**.1719**	**29.96**	**.3620**	**3.243**	**1.567**	**.7133**	**.4030**	**.5861**	**6.101**	**8.923**
Stddev	.0016	.0012	.26	.0048	.028	.012	.0053	.0040	.0093	.062	.083
%RSD	.5333	.6829	.8764	1.315	.8481	.7858	.7456	.9994	1.582	1.014	.9249
#1	.2913	.1710	30.23	.3581	3.216	1.554	.7074	.3985	.5755	6.151	8.846
#2	.2944	.1732	29.70	.3673	3.244	1.567	.7148	.4044	.5899	6.121	8.914
#3	.2931	.1714	29.96	.3607	3.271	1.579	.7177	.4061	.5928	6.032	9.010

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.849**	**19.09**	**2.039**	**.5652**	**.1099**	**5.335**	**1.035**
Stddev	.039	.16	.013	.0031	.0007	.008	.012
%RSD	1.013	.8500	.6542	.5503	.6414	.1545	1.132
#1	3.807	19.28	2.025	.5643	.1096	5.336	1.023
#2	3.855	19.04	2.041	.5686	.1106	5.343	1.037
#3	3.885	18.97	2.051	.5626	.1093	5.326	1.046

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15252.	51064.	19072.
Stddev	152.	237.	228.
%RSD	.99913	.46509	1.1953
#1	15393.	50946.	19257.
#2	15272.	51337.	19141.
#3	15090.	50908.	18817.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000637	0.000630	0.000000	1.000000	0.999990	0.174773	0.524318	1.747727
Al 396.152 { 85}2	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000291	0.000042	0.000000	1.000000	0.999978	0.843499	2.530498	8.434994
As 189.042 {478}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000133	0.000045	0.000000	1.000000	0.999964	1.043694	3.131081	10.436937
Ba 455.403 { 74}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.009874	0.002193	0.000000	1.000000	1.000000	0.049601	0.148802	0.496006
Be 313.107 {108}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000802	0.002447	0.000000	1.000000	0.999993	0.442738	1.328215	4.427385
Ca 317.933 {106}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.007280	0.000128	0.000000	1.000000	1.000000	0.077545	0.232636	0.775454
Cd 226.502 {449}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000992	0.001485	0.000000	1.000000	0.999992	0.473106	1.419317	4.731055
Co 228.616 {447}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000066	0.000646	0.000000	1.000000	0.999993	0.461005	1.383015	4.610049
Cr 267.716 {126}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000050	0.000515	0.000000	1.000000	0.999998	0.214884	0.644651	2.148836
Cu 324.754 {104}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.013232	0.000804	0.000000	1.000000	0.999959	1.115186	3.345559	11.151863
Fe 259.940 {130}2	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000972	0.000101	0.000000	1.000000	0.999995	0.397833	1.193500	3.978335
K 766.490 { 44}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000001	0.000029	0.000000	1.000000	0.999979	0.790560	2.371681	7.905602
Mg 279.079 {121}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000375	0.000017	0.000000	1.000000	1.000000	0.002246	0.006738	0.022460
Mn 257.610 {131}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.001252	0.002996	0.000000	1.000000	1.000000	0.007416	0.022247	0.074156
Na 589.592 { 57}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000575	0.000036	0.000000	1.000000	0.999911	1.636946	4.910838	16.369461
Ni 231.604 {445}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000024	0.000324	0.000000	1.000000	0.999999	0.168693	0.506080	1.686932
Pb 220.353 {453}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000600	0.000161	0.000000	1.000000	0.999997	0.278258	0.834774	2.782579
Sb 206.833 {463}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000156	0.000071	0.000000	1.000000	0.999979	0.787369	2.362106	7.873687
Se 196.090 {472}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000150	0.000040	0.000000	1.000000	0.999990	0.560541	1.681623	5.605411
Tl 190.856 {477}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000017	0.000058	0.000000	1.000000	0.999994	0.439090	1.317269	4.390897
V 292.402 {115}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000763	0.000615	0.000000	1.000000	0.999973	0.897505	2.692516	8.975054
Zn 206.200 {463}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000507	0.000889	0.000000	1.000000	0.999976	0.854197	2.562591	8.541969
Mo 202.030 {467}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000112	0.000384	0.000000	1.000000	0.999992	0.481575	1.444725	4.815749
Ti 337.280 {100}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000436	0.001911	0.000000	1.000000	0.999999	0.130444	0.391331	1.304438
B 208.959 {461}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000543	0.000194	0.000000	1.000000	1.000000	0.078369	0.235107	0.783691
Si 288.158 {117}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.001512	0.000057	0.000000	1.000000	0.999966	1.015140	3.045420	10.151401
Si 288.158 {117}2	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000342	0.000011	0.000000	1.000000	0.999918	1.568193	4.704580	15.681933
Sr 346.446 { 97}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	-0.000329	0.000533	0.000000	1.000000	0.999999	0.141754	0.425263	1.417542
Sn 189.989 {477}	1/15/2013 16:31:41	1/15/2013 16:31:41	Linear	1/Conc	0.000266	0.000103	0.000000	1.000000	1.000000	0.058111	0.174333	0.581109
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301027-ICV1 Acquired: 1/15/2013 16:31:46 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**194.4**	**4894.**	**198.8**	**196.6**	**199.4**	**5093.**	**208.3**	**196.6**	**212.6**	**201.0**	**5125.**
Stddev	1.1	49.	1.7	.9	2.0	55.	.3	.7	.8	2.2	63.
%RSD	.5901	1.002	.8539	.4355	.9820	1.090	.1657	.3614	.3627	1.102	1.235
#1	195.4	4855.	199.4	195.9	197.8	5038.	208.7	197.2	213.2	202.5	5054.
#2	194.7	4949.	200.2	197.6	201.6	5149.	208.2	195.8	211.7	198.5	5176.
#3	193.2	4877.	196.9	196.3	198.9	5091.	208.1	196.7	213.0	202.1	5146.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5138.**	**5106.**	**210.0**	**4973.**	**204.7**	**201.5**	**202.6**	**202.4**	**205.9**	**206.8**	**199.6**
Stddev	43.	45.	.5	9.	.9	1.0	1.1	1.9	1.3	.6	.6
%RSD	.8296	.8762	.2443	.1877	.4329	.5040	.5233	.9633	.6440	.2860	.2855
#1	5114.	5058.	210.5	4982.	205.7	202.3	201.4	202.9	207.4	206.6	199.8
#2	5113.	5146.	209.5	4973.	204.4	200.4	203.0	204.1	205.1	207.5	200.0
#3	5187.	5114.	210.1	4964.	204.0	201.8	203.3	200.2	205.2	206.4	198.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.1**	**207.8**	**204.1**	**5285.**	**5143.**	**203.5**	**192.6**
Stddev	.9	1.3	.7	75.	90.	.2	1.9
%RSD	.4394	.6352	.3611	1.413	1.756	.1131	.9982
#1	203.0	208.9	204.8	5296.	5045.	203.4	192.8
#2	201.2	206.4	203.3	5206.	5223.	203.2	190.6
#3	202.1	208.3	204.2	5354.	5159.	203.7	194.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15987.**	**51778.**	**18882.**
Stddev	125.	72.	207.
%RSD	.78115	.13890	1.0976
#1	15881.	51706.	19089.
#2	15956.	51850.	18675.
#3	16125.	51778.	18881.

Sample Name: S301027-ICB1 Acquired: 1/15/2013 16:36:32 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7254	13.58	-1.996	-.4112	.2459	1.414	-.0474	.0183	.1124	-.4385	-4.363
Stddev	.2709	14.85	1.841	.3976	.1274	3.953	.1168	.0640	.1688	.4851	1.764
%RSD	37.34	109.3	92.23	96.70	51.81	279.5	246.5	348.8	150.1	110.6	40.43
#1	.5270	23.46	-2.925	-.8511	.1120	-1.552	-.1723	.0706	.0643	-.7715	-4.401
#2	.6152	-3.493	.1242	-.0776	.3657	5.903	-.0289	-.0530	.3001	-.6620	-6.108
#3	1.034	20.79	-3.189	-.3047	.2601	-.1081	.0590	.0375	-.0271	.1181	-2.580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-55.51	-5.062	-.1385	-71.88	.7058	-1.015	-.7546	2.871	1.533	.0593	.0014
Stddev	60.95	36.83	.0741	76.17	.6551	1.582	.5889	1.951	.654	.4760	.1008
%RSD	109.8	727.4	53.50	106.0	92.81	155.9	78.04	67.96	42.67	803.0	7115.
#1	-112.8	34.73	-.2015	-129.8	.4378	-.5708	-1.335	1.055	.8075	-.4697	-.0298
#2	-62.29	-37.95	-.0569	-100.2	.2272	.2974	-.7707	4.933	1.713	.4528	-.0801
#3	8.552	-11.97	-.1573	14.40	1.452	-2.771	-.1578	2.624	2.078	.1948	.1142
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1996	.2213	2.386	12.03	38.81	-.1251	.6722
Stddev	.1483	.3049	.398	4.42	28.19	.7867	.6034
%RSD	74.29	137.8	16.68	36.77	72.63	628.9	89.77
#1	.0740	.0663	2.253	11.23	8.646	.5830	1.353
#2	.1616	.5726	2.071	16.79	64.48	-.9720	.2037
#3	.3632	.0251	2.833	8.056	43.30	.0137	.4597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15780.	51241.	18656.
Stddev	78.	626.	216.
%RSD	.49727	1.2209	1.1593
#1	15820.	51914.	18885.
#2	15689.	51134.	18456.
#3	15830.	50676.	18626.

Sample Name: S301027-LCV1 Acquired: 1/15/2013 16:41:26 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.754**	**92.76**	**5.763**	**99.09**	**3.309**	**539.4**	**3.169**	**20.43**	**5.632**	**10.50**	**58.63**
Stddev	.112	4.46	2.205	.51	.259	7.9	.172	.18	.416	.26	2.92
%RSD	1.949	4.810	38.26	.5132	7.833	1.457	5.425	.8722	7.387	2.489	4.990
#1	5.624	88.26	4.676	98.50	3.507	531.1	3.260	20.50	5.258	10.57	56.14
#2	5.818	97.19	8.300	99.42	3.016	540.2	3.277	20.23	6.080	10.21	61.85
#3	5.819	92.83	4.312	99.35	3.405	546.8	2.971	20.56	5.557	10.72	57.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**552.3**	**532.1**	**5.350**	**986.1**	**21.15**	**6.807**	**21.46**	**18.38**	**20.35**	**20.98**	**21.99**
Stddev	87.2	29.1	.124	24.9	.14	2.989	2.85	2.53	1.07	.29	.17
%RSD	15.78	5.468	2.316	2.528	.6761	43.92	13.30	13.77	5.242	1.388	.7665
#1	653.0	514.6	5.272	1003.	21.29	6.957	21.51	15.69	21.20	20.65	21.91
#2	503.5	565.7	5.285	997.5	21.17	9.718	18.59	20.71	19.15	21.07	22.18
#3	500.6	516.1	5.493	957.5	21.01	3.745	24.29	18.76	20.71	21.21	21.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.28**	**10.80**	**11.43**	**540.4**	**528.1**	**10.42**	**10.84**
Stddev	.20	.26	.41	9.7	31.1	.73	1.22
%RSD	1.982	2.453	3.613	1.797	5.888	7.045	11.24
#1	10.39	10.65	11.14	543.9	519.9	9.788	9.442
#2	10.41	11.10	11.90	547.9	502.0	11.23	11.67
#3	10.05	10.64	11.24	529.4	562.5	10.25	11.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15783.**	**50953.**	**18525.**
Stddev	64.	226.	303.
%RSD	.40507	.44284	1.6367
#1	15709.	50984.	18806.
#2	15815.	51162.	18204.
#3	15824.	50714.	18564.

Sample Name: S301027-LCV2 Acquired: 1/15/2013 16:46:20 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.52**	**191.5**	**17.20**	**201.4**	**6.342**	**1069.**	**6.421**	**41.09**	**11.47**	**21.41**	**104.0**
Stddev	.99	24.2	2.17	1.9	.136	16.	.132	.10	.29	.10	1.8
%RSD	9.405	12.63	12.61	.9273	2.148	1.518	2.054	.2353	2.492	.4647	1.737
#1	9.704	164.0	15.87	199.3	6.416	1051.	6.534	41.11	11.76	21.34	102.1
#2	10.22	201.1	16.02	202.8	6.425	1073.	6.453	40.99	11.48	21.36	105.7
#3	11.62	209.4	19.70	202.3	6.185	1082.	6.276	41.18	11.18	21.53	104.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**987.7**	**1037.**	**10.74**	**2005.**	**42.14**	**14.46**	**39.83**	**41.38**	**42.06**	**42.56**	**41.47**
Stddev	12.1	35.	.08	74.	.45	.56	2.00	8.36	1.23	.65	.08
%RSD	1.221	3.363	.7476	3.696	1.079	3.900	5.017	20.20	2.934	1.527	.1944
#1	998.8	1006.	10.69	1979.	42.51	14.46	38.50	32.05	41.18	43.30	41.50
#2	974.9	1074.	10.83	1946.	41.63	15.02	38.85	48.19	41.53	42.09	41.53
#3	989.4	1029.	10.69	2088.	42.28	13.89	42.12	43.90	43.47	42.28	41.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.14**	**21.53**	**21.56**	**1085.**	**1058.**	**21.55**	**20.77**
Stddev	.36	.15	.65	11.	40.	.31	.78
%RSD	1.721	.7068	3.007	1.025	3.799	1.424	3.750
#1	21.22	21.57	20.82	1097.	1089.	21.26	20.21
#2	20.74	21.67	22.02	1084.	1012.	21.53	20.45
#3	21.45	21.37	21.85	1075.	1072.	21.87	21.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15969.**	**51029.**	**18708.**
Stddev	38.	398.	312.
%RSD	.23884	.78084	1.6664
#1	15997.	50996.	19064.
#2	15986.	50648.	18577.
#3	15926.	51443.	18484.

Sample Name: S301027-IFA1 Acquired: 1/15/2013 16:51:11 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.724**	**313100.**	**-.0363**	**-.5445**	**-.3065**	**302100.**	F **-6.853**	**-1.154**	**-.6222**	**3.024**	**293900.**
Stddev	.537	2942.	3.676	.1777	.0576	4192.	.167	.544	.4328	.361	920.
%RSD	31.18	.9396	10130.	32.63	18.78	1.388	2.430	47.15	69.55	11.92	.3131
#1	1.581	310000.	3.544	-.4073	-.3699	306800.	-6.694	-1.380	-1.056	3.428	293700.
#2	1.271	313500.	-3.801	-.4810	-.2922	300600.	-6.840	-.5332	-.1903	2.908	293000.
#3	2.318	315900.	.1481	-.7453	-.2575	298800.	-7.026	-1.548	-.6205	2.735	294800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							3.000				
Low Limit							-3.000				

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-34.66**	**298900.**	**-.0213**	**287900.**	**1.816**	**4.331**	**-5.951**	**1.842**	**1.100**	**-1.690**	**3.267**
Stddev	100.6	1975.	.0217	470.	.808	1.736	2.214	4.352	2.267	.516	.306
%RSD	290.2	.6608	101.8	.1632	44.49	40.08	37.20	236.3	206.1	30.56	9.381
#1	-128.1	297000.	-.0430	287500.	2.044	4.045	-4.795	-1.344	3.593	-1.564	3.496
#2	-47.72	298800.	-.0213	287700.	.9186	2.757	-8.503	.0682	-.8377	-1.248	2.919
#3	71.81	301000.	.0004	288400.	2.485	6.193	-4.554	6.801	.5447	-2.258	3.386
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.700**	**1.533**	**2.725**	**-36.87**	**-34.28**	**1.653**	**2.001**
Stddev	.350	.113	.630	3.21	31.16	.917	.681
%RSD	12.96	7.351	23.12	8.697	90.92	55.46	34.04
#1	-2.511	1.492	2.779	-40.02	-53.92	1.738	1.226
#2	-2.486	1.660	3.327	-36.98	-50.57	2.524	2.273
#3	-3.104	1.446	2.070	-33.61	1.656	.6968	2.504
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**14478.**	**46732.**	**18102.**
Stddev	81.	292.	80.
%RSD	.56166	.62445	.44362
#1	14563.	46401.	18056.
#2	14401.	46949.	18054.
#3	14470.	46848.	18194.

Sample Name: B301061-BLK1 Acquired: 1/15/2013 16:56:23 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2827	58.41	-2.939	-.2599	-.2004	38.94	-.2652	-.2041	-.0691	-.3631	35.75
Stddev	.2571	2.12	.800	.1604	.0503	7.06	.2415	.1937	.2388	.6362	10.34
%RSD	90.97	3.628	27.22	61.72	25.09	18.13	91.07	94.87	345.5	175.2	28.93
#1	.4475	60.03	-2.157	-.3722	-.2569	46.00	-.0397	-.3003	-.1338	-1.087	46.55
#2	.4141	59.18	-3.756	-.0762	-.1605	38.93	-.2359	-.3309	.1954	-.1119	34.75
#3	-.0136	56.01	-2.903	-.3314	-.1838	31.88	-.5199	.0188	-.2690	.1092	25.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.402	3.540	-.2668	61.77	.3133	-1.358	-.0860	2.728	-1.037	.2062	.1255
Stddev	98.60	18.80	.0370	18.35	.3583	2.881	.9824	4.920	1.097	.3437	.0425
%RSD	1174.	531.2	13.86	29.71	114.4	212.1	1142.	180.3	105.7	166.7	33.89
#1	81.99	24.53	-.3069	59.16	.7195	-2.994	-1.209	7.221	.2273	.3418	.0833
#2	-113.5	-2.141	-.2342	44.86	.1780	-3.049	.6135	-2.530	-1.615	-.1846	.1683
#3	6.356	-11.77	-.2591	81.29	.0423	1.968	.3375	3.494	-1.725	.4614	.1249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4316	.5331	1.001	175.5	124.2	.0131	-.8232
Stddev	.2005	.0367	1.362	6.2	31.7	.2530	.2268
%RSD	46.46	6.882	136.1	3.546	25.50	1937.	27.55
#1	-.5190	.5740	-.5001	179.7	136.1	.0375	-1.085
#2	-.2022	.5220	1.345	178.5	88.26	.2530	-.7010
#3	-.5737	.5032	2.158	168.4	148.1	-.2513	-.6837
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15794.	51361.	19202.
Stddev	54.	234.	489.
%RSD	.34251	.45641	2.5467
#1	15743.	51130.	19685.
#2	15790.	51356.	18707.
#3	15851.	51599.	19215.

Sample Name: B301061-SRM1 Acquired: 1/15/2013 17:01:15 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**400.9**	**87620.**	**1627.**	**1921.**	**1057.**	**67920.**	**1018.**	**1275.**	**1233.**	**1221.**	**135700.**
Stddev	6.1	2966.	21.	81.	39.	2252.	11.	17.	17.	17.	4993.
%RSD	1.525	3.386	1.310	4.198	3.710	3.316	1.114	1.294	1.343	1.431	3.679
#1	401.9	91030.	1650.	2012.	1102.	70510.	1030.	1292.	1237.	1225.	141400.
#2	394.4	86100.	1609.	1888.	1039.	66800.	1008.	1260.	1215.	1202.	133500.
#3	406.4	85710.	1620.	1862.	1031.	66440.	1015.	1272.	1247.	1236.	132200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29290.**	**25990.**	**3355.**	**3118.**	**701.5**	**707.8**	**2099.**	**1331.**	**1986.**	**892.6**	**2663.**
Stddev	908.	969.	40.	153.	6.6	9.9	26.	17.	27.	14.8	30.
%RSD	3.101	3.729	1.185	4.916	.9404	1.393	1.247	1.257	1.338	1.654	1.133
#1	30340.	27110.	3385.	3293.	708.0	718.8	2127.	1349.	2004.	892.4	2695.
#2	28790.	25520.	3370.	3051.	694.8	699.7	2075.	1317.	1955.	878.0	2635.
#3	28750.	25340.	3310.	3009.	701.7	705.0	2096.	1327.	1998.	907.5	2659.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**667.3**	**2193.**	**806.1**	**4099.**	**4173.**	**1289.**	**1401.**
Stddev	7.6	34.	10.7	43.	97.	19.	20.
%RSD	1.143	1.553	1.328	1.049	2.333	1.483	1.399
#1	672.9	2196.	818.4	4125.	4283.	1290.	1419.
#2	658.6	2158.	798.6	4050.	4138.	1269.	1380.
#3	670.4	2226.	801.5	4123.	4097.	1307.	1403.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16300.	53114.	**19813.**
Stddev	104.	361.	253.
%RSD	.63829	.67913	1.2751
#1	16192.	52968.	19584.
#2	16399.	53524.	20084.
#3	16308.	52848.	19772.

Sample Name: B301061-SRM2 Acquired: 1/15/2013 17:05:59 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 402.0	^F *****	k 1601.	^F *****	k 1081.	^F *****	k 984.9	k 1235.	k 1223.	1196.	^F *****
Stddev	4.3	-----	33.	-----	20.	-----	9.1	20.	5.	6.	-----
%RSD	1.063	-----	2.067	-----	1.805	-----	.9256	1.613	.4125	.5141	-----
#1	k 406.7	^ -----	k 1564.	^ -----	k 1102.	^ -----	k 974.9	k 1213.	k 1225.	1196.	^ -----
#2	400.6	102500.	1628.	1998.	1064.	68650.	992.7	1250.	1226.	1203.	139600.
#3	398.5	103900.	1611.	2036.	1078.	69500.	987.2	1244.	1217.	1190.	146300.
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit		142000.		2490.		80400.					194000.
Low Limit		44700.		1770.		57000.					65600.

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32020.	28520.	3343.	3457.	k 683.6	k 701.6	k 1157.	k 1238.	k 1945.	k 904.0	k 2615.
Stddev	536.	487.	18.	96.	11.1	22.4	12.	21.	42.	6.9	42.
%RSD	1.674	1.706	.5494	2.765	1.620	3.199	1.028	1.663	2.181	.7677	1.624
#1	32540.	29020.	3341.	3567.	k 671.0	k 675.8	k 1144.	k 1214.	k 1902.	k 911.7	k 2566.
#2	31470.	28050.	3362.	3412.	691.9	716.7	1166.	1254.	1987.	902.2	2646.
#3	32040.	28480.	3325.	3393.	688.0	712.4	1161.	1245.	1945.	898.2	2632.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 622.4	k 3387.	k 820.6	k 31440.	k 32670.	k 1288.	1264.
Stddev	10.8	20.	7.7	236.	634.	6.	22.
%RSD	1.728	.5799	.9411	.7503	1.939	.4518	1.728
#1	k 610.4	k 3379.	k 828.5	k 31220.	k 33390.	k 1294.	1239.
#2	631.2	3409.	820.5	31690.	32210.	1289.	1280.
#3	625.6	3373.	813.0	31420.	32410.	1282.	1273.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16476.	54265.	20074.
Stddev	202.	277.	254.
%RSD	1.2243	.51022	1.2653
#1	16709.	54080.	19902.
#2	16359.	54131.	20366.
#3	16360.	54583.	19955.

Sample Name: 1301016-01 Acquired: 1/15/2013 17:10:53 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.812**	**61810.**	**14.19**	**376.9**	**1.464**	**11390.**	**-.9675**	**34.51**	**83.35**	**104.1**	**78530.**
Stddev	.102	1479.	2.70	8.9	.125	280.	.3766	.54	2.68	2.8	2068.
%RSD	5.613	2.393	19.03	2.363	8.501	2.457	38.92	1.560	3.210	2.698	2.633
#1	-1.714	60750.	16.59	371.7	1.608	11170.	-.5478	35.12	86.44	107.2	77050.
#2	-1.917	63500.	14.71	387.2	1.383	11710.	-1.079	34.31	81.86	102.0	80890.
#3	-1.803	61180.	11.27	371.8	1.403	11300.	-1.276	34.11	81.75	102.9	77650.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6817.**	**19470.**	**1116.**	**346.9**	**82.11**	**73.76**	**-.6410**	**1.958**	**-2.418**	**81.84**	**258.4**
Stddev	185.	467.	30.	26.2	1.26	1.46	2.275	2.255	1.635	1.92	3.4
%RSD	2.711	2.399	2.721	7.546	1.536	1.985	355.0	115.2	67.61	2.340	1.317
#1	6794.	19160.	1152.	359.0	83.44	74.83	-.2422	-.3827	-.8800	84.03	261.7
#2	7012.	20010.	1099.	316.8	81.95	74.37	-3.089	4.117	-2.240	80.47	258.5
#3	6644.	19250.	1099.	364.8	80.93	72.09	1.408	2.140	-4.136	81.02	254.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.1882**	**1773.**	**22.01**	**14320.**	**14390.**	**98.14**	**-.6473**
Stddev	.0996	48.	.70	485.	547.	3.13	.5969
%RSD	52.90	2.709	3.199	3.386	3.801	3.186	92.21
#1	-.1113	1821.	21.73	14790.	14110.	101.7	-1.249
#2	-.3007	1725.	21.50	14350.	15020.	96.27	-.6377
#3	-.1527	1774.	22.82	13820.	14040.	96.40	-.0553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17055.**	**53699.**	**20115.**
Stddev	134.	1148.	262.
%RSD	.78402	2.1371	1.3040
#1	16936.	52438.	20207.
#2	17028.	53976.	19819.
#3	17200.	54682.	20319.

Sample Name: B301061-MS1 Acquired: 1/15/2013 17:15:40 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**176.8**	**66940.**	**201.1**	**572.6**	**201.8**	**16540.**	**189.8**	**218.8**	**281.8**	**301.1**	**84020.**
Stddev	2.3	1844.	3.8	15.6	5.4	458.	2.5	2.8	3.8	4.5	2225.
%RSD	1.298	2.754	1.868	2.730	2.669	2.771	1.314	1.288	1.349	1.490	2.648
#1	179.4	68950.	196.9	590.5	207.9	17030.	187.0	215.6	286.1	306.0	86500.
#2	175.2	65330.	204.2	561.7	197.8	16130.	191.7	220.9	280.7	300.3	82210.
#3	175.6	66560.	202.1	565.6	199.7	16450.	190.8	219.9	278.7	297.2	83350.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11660.**	**24660.**	**1268.**	**5087.**	**271.2**	**261.8**	**194.9**	**193.4**	**189.4**	**268.3**	**441.9**
Stddev	232.	646.	25.	108.	3.5	2.6	3.3	1.7	4.3	6.2	5.7
%RSD	1.992	2.619	1.986	2.115	1.274	.9770	1.699	.8981	2.262	2.328	1.279
#1	11920.	25380.	1297.	5207.	267.3	258.8	191.3	191.5	186.4	275.4	435.7
#2	11460.	24140.	1250.	5001.	274.0	263.0	197.7	194.8	194.3	264.0	446.8
#3	11610.	24460.	1258.	5052.	272.2	263.5	195.8	193.9	187.4	265.3	443.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**191.5**	**1879.**	**205.7**	**12670.**	**13000.**	**291.0**	**181.5**
Stddev	2.9	48.	2.2	261.	341.	6.1	2.2
%RSD	1.515	2.556	1.092	2.057	2.627	2.098	1.186
#1	188.6	1933.	203.1	12860.	13360.	298.0	179.5
#2	194.4	1840.	207.1	12770.	12680.	288.2	183.8
#3	191.6	1864.	206.9	12370.	12950.	286.8	181.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16984.**	**54198.**	**19073.**
Stddev	173.	800.	323.
%RSD	1.0183	1.4759	1.6915
#1	17129.	53299.	18778.
#2	16792.	54833.	19417.
#3	17030.	54460.	19023.

Sample Name: B301061-MSD1@5 Acquired: 1/15/2013 17:20:22 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.23**	**13130.**	**38.95**	**111.4**	**39.29**	**3275.**	**37.98**	**44.14**	**59.01**	**62.95**	**16510.**
Stddev	1.67	724.	2.00	7.2	2.24	165.	.74	.47	3.02	4.13	961.
%RSD	4.490	5.516	5.122	6.454	5.707	5.029	1.938	1.071	5.124	6.555	5.821
#1	37.65	13680.	37.54	116.7	40.94	3402.	38.07	44.36	58.66	62.92	17240.
#2	35.39	12310.	41.23	103.2	36.74	3089.	38.66	44.46	56.17	58.83	15420.
#3	38.65	13400.	38.07	114.3	40.20	3335.	37.20	43.60	62.19	67.08	16880.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2251.**	**4841.**	**269.8**	**981.4**	**54.76**	**51.17**	**40.72**	**38.20**	**38.68**	**57.04**	**89.73**
Stddev	136.	291.	15.1	30.0	1.15	1.48	.93	3.22	3.45	2.88	1.27
%RSD	6.038	6.001	5.581	3.062	2.099	2.894	2.281	8.424	8.930	5.047	1.410
#1	2343.	5101.	272.6	1015.	54.32	51.29	40.53	39.43	35.69	58.17	89.71
#2	2095.	4527.	253.6	957.2	56.06	52.59	41.73	40.62	42.46	53.77	91.00
#3	2316.	4896.	283.4	972.1	53.89	49.64	39.91	34.55	37.88	59.18	88.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.85**	**403.7**	**41.80**	**2679.**	**2575.**	**61.23**	**36.89**
Stddev	.58	37.0	1.69	150.	162.	2.60	.51
%RSD	1.534	9.153	4.041	5.611	6.280	4.248	1.380
#1	37.66	441.2	42.30	2688.	2629.	61.62	36.33
#2	38.50	367.3	43.19	2524.	2393.	58.46	37.33
#3	37.38	402.7	39.92	2824.	2703.	63.62	37.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16869.**	**51284.**	**18836.**
Stddev	232.	2401.	720.
%RSD	1.3735	4.6808	3.8215
#1	17007.	50808.	18310.
#2	16602.	53887.	19656.
#3	16999.	49157.	18541.

Sample Name: 1301016-02 Acquired: 1/15/2013 17:25:10 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.783	64310.	12.24	389.0	1.753	12010.	-1.363	35.26	82.91	104.1	82610.
Stddev	.688	600.	.88	5.5	.148	84.	.005	.24	.38	.4	788.
%RSD	38.58	.9331	7.221	1.420	8.457	.6962	.3601	.6699	.4538	.3497	.9538
#1	-2.010	64720.	13.26	393.4	1.628	12070.	-1.367	35.09	83.33	104.5	83120.
#2	-2.328	64580.	11.78	390.8	1.713	12050.	-1.358	35.53	82.60	103.8	83010.
#3	-1.010	63620.	11.68	382.8	1.916	11920.	-1.365	35.16	82.79	104.1	81700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7002.	20460.	1109.	384.0	83.92	75.15	.1973	-1.599	-.0145	81.32	263.6
Stddev	84.	192.	3.	29.2	.24	.63	2.404	1.284	1.707	.41	.4
%RSD	1.198	.9373	.2958	7.610	.2826	.8333	1219.	80.30	11780.	.4992	.1591
#1	7080.	20600.	1112.	408.4	84.19	74.48	2.935	-.8510	.1545	81.77	263.9
#2	7013.	20550.	1106.	392.1	83.83	75.72	-.7763	-.8639	1.602	80.98	263.1
#3	6913.	20240.	1111.	351.6	83.75	75.25	-1.567	-3.081	-1.800	81.20	263.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1533	1707.	22.35	11960.	12480.	98.36	-.8645
Stddev	.3003	26.	.49	319.	216.	.57	.8974
%RSD	196.0	1.545	2.179	2.670	1.732	.5773	103.8
#1	.1935	1734.	22.59	12330.	12700.	99.01	.1356
#2	-.3276	1681.	22.66	11780.	12450.	98.08	-1.600
#3	-.3258	1707.	21.79	11770.	12270.	97.98	-1.130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16992.	54869.	19096.
Stddev	38.	359.	312.
%RSD	.22310	.65358	1.6355
#1	17019.	55151.	18748.
#2	16949.	54990.	19350.
#3	17008.	54465.	19191.

Sample Name: 1301016-03 Acquired: 1/15/2013 17:29:57 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9211**	**59940.**	**20.73**	**359.7**	**2.184**	**17770.**	**-2.359**	**45.25**	**96.48**	**72.85**	**124600.**
Stddev	.8001	853.	3.39	6.3	.219	189.	.303	.48	.56	.17	1692.
%RSD	86.87	1.422	16.36	1.747	10.01	1.065	12.84	1.067	.5755	.2341	1.358
#1	-1.539	59040.	16.94	352.5	2.091	17560.	-2.022	44.83	96.23	73.05	122700.
#2	-.0174	60730.	23.48	362.3	2.027	17920.	-2.610	45.13	96.10	72.73	125400.
#3	-1.207	60050.	21.76	364.2	2.433	17830.	-2.445	45.78	97.12	72.79	125800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6812.**	**20240.**	**1102.**	**445.4**	**88.99**	**195.2**	**1.447**	**.2707**	**-.0369**	**159.5**	**251.1**
Stddev	262.	297.	1.	34.7	.47	2.7	.524	4.775	2.942	.1	1.5
%RSD	3.849	1.466	.0496	7.788	.5241	1.396	36.22	1764.	7962.	.0452	.6107
#1	6532.	19910.	1102.	484.2	88.51	192.1	.9676	4.275	-3.355	159.5	250.1
#2	7052.	20350.	1101.	417.4	89.02	197.4	2.007	1.552	.9889	159.6	250.5
#3	6852.	20470.	1102.	434.7	89.44	196.0	1.368	-5.014	2.255	159.6	252.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.095**	**2504.**	**26.53**	**11630.**	**11530.**	**190.4**	**-1.223**
Stddev	.275	43.	.87	103.	239.	1.2	.687
%RSD	25.07	1.736	3.292	.8833	2.069	.6422	56.12
#1	.8401	2546.	26.53	11530.	11270.	189.9	-1.473
#2	1.386	2507.	25.66	11640.	11740.	189.5	-1.750
#3	1.059	2459.	27.41	11730.	11570.	191.8	-.4468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16918.**	**53491.**	**18998.**
Stddev	81.	298.	182.
%RSD	.48015	.55623	.95945
#1	17011.	53321.	19193.
#2	16882.	53835.	18832.
#3	16862.	53319.	18968.

Sample Name: 1301016-04@10 Acquired: 1/15/2013 17:34:45 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.039**	**952.0**	**-.3178**	**759.8**	**-.0069**	**75050.**	**1.451**	**1.083**	**4.779**	**92.28**	**2912.**
Stddev	.449	11.4	3.204	3.5	.1998	509.	.179	.418	.436	.25	24.
%RSD	22.00	1.192	1008.	.4584	2884.	.6789	12.38	38.64	9.127	.2737	.8201
#1	1.522	944.9	-.7431	756.4	.0691	74460.	1.257	.6000	4.770	92.42	2888.
#2	2.320	946.1	-3.288	763.4	-.2336	75390.	1.482	1.338	5.220	91.99	2936.
#3	2.276	965.1	3.077	759.5	.1437	75290.	1.612	1.310	4.348	92.43	2913.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**376.7**	**803.6**	**2054.**	**158.9**	**5.100**	F **78000.**	**3.797**	**-.3285**	**1.046**	**2.757**	**96.09**
Stddev	37.5	34.3	11.	30.4	.143	92.	.849	3.251	2.054	.305	.16
%RSD	9.965	4.265	.5471	19.13	2.803	.1178	22.37	989.8	196.3	11.06	.1665
#1	354.4	787.5	2063.	129.4	5.066	78090.	2.973	3.112	2.989	2.453	96.06
#2	420.1	843.0	2057.	157.2	5.257	77900.	4.670	-.7474	1.252	2.755	95.94
#3	355.8	780.3	2041.	190.1	4.978	78000.	3.748	-3.350	-1.103	3.063	96.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						67500.					
Low Limit						-8.000					

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0474**	**27.90**	**6.558**	**265.7**	**257.4**	**223.9**	**2.376**
Stddev	.1655	.48	.401	13.6	43.7	1.3	.405
%RSD	348.8	1.736	6.121	5.114	16.97	.5817	17.03
#1	.0855	28.45	6.331	268.6	232.1	225.3	2.077
#2	.0050	27.70	6.321	277.6	232.3	222.7	2.215
#3	-.2328	27.55	7.021	250.9	307.8	223.7	2.837
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15909.**	**50809.**	**18571.**
Stddev	69.	110.	135.
%RSD	.43064	.21619	.72625
#1	15973.	50742.	18641.
#2	15837.	50749.	18657.
#3	15918.	50936.	18416.

Sample Name: 1301016-04@25 Acquired: 1/15/2013 17:39:44 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.234	390.3	-.3966	300.6	.0413	29260.	.3527	.4706	1.990	35.52	1149.
Stddev	.284	7.0	1.687	.6	.0861	135.	.1241	.2400	.123	.40	5.
%RSD	23.00	1.801	425.4	.2026	208.3	.4599	35.19	51.00	6.168	1.139	.4658
#1	1.315	391.7	.7058	300.1	.0478	29190.	.3555	.7326	1.883	35.87	1153.
#2	1.469	396.5	-2.339	300.3	-.0478	29180.	.2272	.2613	2.124	35.08	1143.
#3	.9188	382.6	.4431	301.3	.1240	29420.	.4753	.4180	1.962	35.62	1152.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.92	307.7	811.7	49.48	1.837	31060.	1.349	-2.394	.5791	.8654	38.56
Stddev	43.09	7.6	6.7	34.37	.541	91.	1.191	1.033	1.696	.6458	.10
%RSD	110.7	2.483	.8309	69.46	29.45	.2945	88.23	43.16	292.9	74.63	.2511
#1	13.02	316.5	817.7	22.84	2.378	31160.	1.416	-1.369	-1.377	.4305	38.60
#2	88.66	303.5	804.4	88.27	1.296	31010.	2.505	-3.436	1.482	.5582	38.45
#3	15.08	303.0	813.0	37.33	1.838	31000.	.1270	-2.379	1.632	1.607	38.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3097	10.73	2.348	125.5	118.9	89.23	1.365
Stddev	.1483	.18	.451	13.0	38.0	.47	.929
%RSD	47.87	1.671	19.20	10.33	31.91	.5215	68.01
#1	-.1437	10.87	1.829	120.5	78.06	88.71	2.351
#2	-.3565	10.53	2.646	115.8	153.0	89.39	1.238
#3	-.4290	10.78	2.568	140.3	125.7	89.60	.5070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16404.	52010.	18060.
Stddev	29.	178.	105.
%RSD	.17488	.34161	.58141
#1	16371.	52026.	18066.
#2	16416.	52179.	18161.
#3	16424.	51825.	17952.

Sample Name: S301027-CCV1 Acquired: 1/15/2013 17:44:34 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**189.0**	**5015.**	**195.5**	**192.3**	**198.0**	**5282.**	**207.7**	**192.2**	**217.1**	**198.6**	**5191.**
Stddev	1.7	82.	2.2	1.8	2.1	76.	1.4	1.6	3.9	3.2	68.
%RSD	.8804	1.643	1.104	.9217	1.039	1.444	.6950	.8339	1.795	1.598	1.300
#1	190.1	5097.	193.1	193.9	200.1	5359.	209.2	194.0	219.9	200.6	5258.
#2	190.0	5014.	197.4	192.7	198.0	5279.	207.6	191.2	218.6	200.4	5193.
#3	187.1	4933.	195.8	190.4	196.0	5207.	206.3	191.3	212.6	195.0	5123.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5198.**	**5221.**	**207.3**	**4900.**	**204.1**	**207.0**	**194.0**	**201.3**	**205.3**	**202.6**	**203.7**
Stddev	67.	74.	3.0	113.	1.2	.7	1.0	8.2	2.7	2.2	1.5
%RSD	1.289	1.414	1.447	2.304	.6074	.3605	.4965	4.075	1.319	1.091	.7509
#1	5165.	5300.	209.1	4925.	203.6	207.8	192.9	198.0	202.3	204.4	205.4
#2	5275.	5207.	209.1	4999.	203.2	206.7	194.6	195.2	207.6	203.2	203.0
#3	5153.	5154.	203.9	4777.	205.5	206.5	194.5	210.6	206.1	200.1	202.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.5**	**205.2**	**190.3**	**5440.**	**5489.**	**205.3**	**195.7**
Stddev	.5	2.8	1.2	76.	6.	3.0	.3
%RSD	.2377	1.353	.6342	1.400	.1122	1.484	.1660
#1	199.7	207.2	191.6	5506.	5495.	207.4	195.4
#2	199.9	206.4	189.2	5457.	5490.	206.7	196.0
#3	199.0	202.1	190.0	5357.	5483.	201.8	195.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16587.**	**52099.**	**17540.**
Stddev	93.	1162.	214.
%RSD	.56044	2.2310	1.2199
#1	16508.	51113.	17402.
#2	16689.	51803.	17431.
#3	16564.	53380.	17786.

Sample Name: S301027-CCB1 Acquired: 1/15/2013 17:49:17 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5952	-5.137	-.4732	-.6003	.1742	9.461	-.3044	.1723	-.4145	-.3168	-2.624
Stddev	.4306	12.29	2.032	.4804	.1318	2.626	.0753	.1479	.5015	.4187	1.032
%RSD	72.34	239.2	429.4	80.03	75.66	27.75	24.72	85.84	121.0	132.2	39.33
#1	.3377	-18.72	-1.041	-.2488	.2165	12.21	-.2237	.0016	-.9755	-.0318	-1.511
#2	.3556	-1.905	-2.161	-1.148	.2796	6.983	-.3166	.2606	-.0095	-.1210	-3.549
#3	1.092	5.213	1.782	-.4044	.0264	9.188	-.3727	.2547	-.2587	-.7974	-2.813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.85	2.593	-.1773	5.003	.4702	1.016	-.6209	-1.338	-2.002	-.0916	-.1489
Stddev	60.88	19.87	.0592	25.07	.6450	2.054	1.425	1.228	1.551	.0195	.1148
%RSD	278.6	766.4	33.40	501.1	137.2	202.2	229.5	91.74	77.49	21.30	77.07
#1	23.41	20.44	-.1826	4.063	.1370	-1.159	-2.207	-2.657	-1.705	-.0999	-.1795
#2	81.94	6.163	-.2337	-19.59	.0601	2.922	-.2075	-.2286	-3.681	-.1057	-.2453
#3	-39.79	-18.82	-.1156	30.53	1.214	1.284	.5514	-1.129	-.6206	-.0694	-.0220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1260	-.1979	-.0851	10.96	9.679	-.1187	-.1836
Stddev	.3684	.2534	.3081	1.03	31.24	.5500	.3458
%RSD	292.4	128.1	362.1	9.410	322.7	463.5	188.4
#1	-.3616	-.0586	-.0008	10.01	-5.666	.5144	-.5318
#2	.2986	-.4903	.1720	12.06	-10.92	-.4793	-.1786
#3	-.3150	-.0446	-.4265	10.81	45.62	-.3911	.1597
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16386.	51997.	17570.
Stddev	120.	239.	305.
%RSD	.73328	.46034	1.7370
#1	16248.	52249.	17912.
#2	16469.	51971.	17327.
#3	16441.	51772.	17471.

Sample Name: 1301016-05 Acquired: 1/15/2013 17:54:10 Type: Unk
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301016)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.8873**	**56400.**	**44.66**	**231.1**	**2.005**	**9073.**	**-1.004**	**49.64**	**104.4**	**128.7**	**117300.**
Stddev	.8615	643.	.82	.9	.163	116.	.360	.23	1.1	1.4	1395.
%RSD	97.09	1.140	1.835	.3879	8.148	1.278	35.87	.4636	1.098	1.118	1.189
#1	-1.870	55940.	45.61	230.0	1.873	9004.	-.6992	49.89	105.7	130.4	116000.
#2	-.5302	57140.	44.18	231.6	1.953	9207.	-1.402	49.61	103.9	128.2	118800.
#3	-.2618	56130.	44.20	231.6	2.188	9008.	-.9117	49.43	103.6	127.7	117000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6745.**	**20560.**	**1618.**	**514.8**	**91.11**	**648.5**	**2.761**	**6.279**	**-.5274**	**172.4**	**639.1**
Stddev	80.	181.	17.	26.3	.90	2.9	.810	1.741	1.246	1.6	2.2
%RSD	1.192	.8823	1.073	5.098	.9891	.4457	29.35	27.73	236.3	.9016	.3481
#1	6657.	20390.	1637.	485.1	91.40	650.2	2.075	7.393	-1.865	174.0	641.5
#2	6814.	20750.	1604.	534.6	90.10	645.2	3.655	7.172	-.3187	172.3	637.1
#3	6763.	20550.	1613.	524.8	91.83	650.2	2.551	4.272	.6014	170.9	638.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.872**	**2214.**	**17.91**	**10880.**	**10710.**	**71.82**	**2.646**
Stddev	.092	28.	.41	21.	216.	.33	.327
%RSD	4.893	1.287	2.286	.1903	2.016	.4607	12.37
#1	1.965	2239.	17.78	10900.	10490.	72.16	2.302
#2	1.782	2219.	18.37	10860.	10920.	71.80	2.683
#3	1.870	2183.	17.58	10880.	10740.	71.50	2.954
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17991.**	**55528.**	**18802.**
Stddev	60.	333.	289.
%RSD	.33096	.59998	1.5354
#1	17940.	55144.	19106.
#2	17976.	55732.	18531.
#3	18056.	55709.	18768.

Sample Name: S301027-CCV2 Acquired: 1/15/2013 17:59:05 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**190.9**	**5003.**	**198.1**	**193.0**	**196.7**	**5282.**	**210.1**	**193.6**	**218.7**	**196.9**	**5231.**
Stddev	1.9	30.	2.6	.2	.8	32.	.9	.7	.8	.7	44.
%RSD	.9782	.6026	1.289	.0952	.4041	.6046	.4505	.3485	.3575	.3453	.8393
#1	192.9	5024.	195.4	192.9	197.5	5313.	210.9	194.2	219.0	196.2	5278.
#2	190.7	5017.	200.5	192.9	196.5	5285.	210.5	193.7	219.2	197.1	5221.
#3	189.2	4969.	198.4	193.2	196.0	5249.	209.1	192.9	217.8	197.5	5192.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5212.**	**5262.**	**208.7**	**4865.**	**205.9**	**208.1**	**196.6**	**202.8**	**208.2**	**203.3**	**208.0**
Stddev	53.	29.	1.3	15.	2.4	2.3	2.0	2.4	1.8	.9	1.3
%RSD	1.016	.5463	.6216	.3022	1.165	1.107	1.036	1.167	.8664	.4659	.6444
#1	5252.	5265.	209.7	4881.	207.9	205.5	194.6	204.8	209.4	204.4	209.1
#2	5152.	5290.	209.2	4853.	206.5	209.9	196.5	200.2	206.1	203.2	208.4
#3	5231.	5232.	207.2	4860.	203.2	208.8	198.7	203.5	209.1	202.5	206.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.2**	**204.5**	**189.5**	**5449.**	**5511.**	**206.2**	**198.9**
Stddev	.4	.0	.5	21.	52.	.3	1.1
%RSD	.2214	.0176	.2747	.3799	.9518	.1449	.5601
#1	199.4	204.5	188.9	5435.	5560.	206.4	200.0
#2	199.5	204.5	189.7	5439.	5518.	206.4	199.0
#3	198.7	204.5	189.9	5473.	5456.	205.9	197.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17128.**	**53303.**	**17167.**
Stddev	253.	205.	286.
%RSD	1.4779	.38520	1.6683
#1	16867.	53066.	17103.
#2	17145.	53410.	16918.
#3	17372.	53433.	17480.

Sample Name: S301027-CCB2 Acquired: 1/15/2013 18:03:47 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.075	2.609	-.5109	-.1025	.1033	5.788	-.2760	-.2400	.2875	-.2195	-1.056
Stddev	.064	20.07	1.203	.4837	.2533	4.505	.1723	.4096	.1407	.4594	.417
%RSD	5.940	769.2	235.4	471.6	245.3	77.84	62.41	170.7	48.94	209.3	39.46
#1	1.138	-14.64	-1.093	-.5229	.0743	3.721	-.2977	.2323	.4361	-.6911	-1.433
#2	1.011	24.64	.8721	.4261	-.1343	10.96	-.4365	-.4527	.1563	-.1942	-1.125
#3	1.075	-2.169	-1.312	-.2108	.3697	2.687	-.0940	-.4995	.2701	.2267	-.6088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-46.95	-39.20	-.1946	-39.73	.5479	-1.277	1.442	1.469	.9131	-.3632	-.1015
Stddev	39.49	16.07	.0668	28.72	.5242	1.158	1.691	5.778	1.435	.1484	.0966
%RSD	84.11	41.00	34.34	72.28	95.68	90.67	117.3	393.3	157.1	40.85	95.21
#1	-72.75	-24.10	-.1604	-67.14	1.099	-2.606	-.3510	8.015	2.550	-.5306	-.2129
#2	-1.489	-56.09	-.1518	-9.865	.4888	-.4795	1.666	-.6840	.3187	-.2478	-.0397
#3	-66.61	-37.42	-.2716	-42.19	.0557	-.7470	3.009	-2.923	-.1290	-.3112	-.0519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5736	.0323	.0879	9.864	-2.392	.4391	-.2258
Stddev	.4862	.0871	.7378	4.155	35.26	.5679	.5666
%RSD	84.77	269.4	838.9	42.13	1474.	129.3	250.9
#1	-1.063	-.0573	-.5553	5.175	32.71	.0940	.1228
#2	-.5674	.0377	-.0742	11.33	-37.81	.1288	.0794
#3	-.0904	.1166	.8933	13.09	-2.067	1.095	-.8795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16678.	52476.	17614.
Stddev	36.	314.	127.
%RSD	.21343	.59757	.71905
#1	16667.	52528.	17571.
#2	16649.	52140.	17757.
#3	16717.	52760.	17515.

Sample Name: S301027-LCV3 Acquired: 1/15/2013 18:08:40 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.233**	**86.59**	**9.011**	**98.63**	**3.218**	**544.9**	**2.957**	**20.36**	**5.837**	**10.87**	**54.93**
Stddev	.142	7.64	2.025	.30	.191	4.7	.099	.30	.312	.67	3.12
%RSD	2.722	8.822	22.47	.3030	5.938	.8548	3.345	1.492	5.341	6.148	5.677
#1	5.093	83.85	8.299	98.28	3.267	539.8	2.903	20.05	6.027	11.60	51.38
#2	5.378	95.22	11.30	98.78	3.007	546.0	3.072	20.66	5.477	10.75	57.24
#3	5.228	80.70	7.438	98.82	3.379	548.9	2.898	20.36	6.006	10.28	56.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**517.5**	**535.8**	**5.376**	**1002.**	**21.11**	**6.378**	**19.16**	**21.14**	**21.11**	**20.74**	**23.14**
Stddev	34.4	12.7	.059	42.	.95	1.157	.49	2.79	3.11	.29	.23
%RSD	6.649	2.367	1.099	4.175	4.508	18.14	2.549	13.20	14.74	1.407	.9926
#1	480.6	528.4	5.342	954.7	20.40	7.621	19.13	18.27	17.71	20.74	22.90
#2	548.7	528.6	5.341	1019.	22.19	6.179	18.68	23.84	21.79	20.45	23.36
#3	523.1	550.4	5.444	1034.	20.74	5.333	19.66	21.31	23.82	21.04	23.16
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.15**	**10.82**	**10.05**	**556.8**	**512.6**	**10.64**	**10.94**
Stddev	.14	.16	1.02	6.5	5.8	.67	.76
%RSD	1.360	1.507	10.18	1.174	1.126	6.289	6.911
#1	10.02	10.67	11.05	552.2	515.3	9.905	11.41
#2	10.15	10.99	10.07	564.3	516.5	10.80	10.07
#3	10.29	10.81	9.009	554.0	506.0	11.21	11.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17112.	52734.	17315.
Stddev	70.	444.	88.
%RSD	.40631	.84253	.50710
#1	17040.	52445.	17399.
#2	17119.	52511.	17224.
#3	17178.	53245.	17322.

Sample Name: S301027-LCV4 Acquired: 1/15/2013 18:13:32 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.48**	**224.9**	**16.39**	**213.8**	**6.718**	**1194.**	**6.570**	**41.46**	**11.23**	**20.73**	**112.6**
Stddev	.83	28.1	2.57	28.0	.770	154.	.107	.50	1.02	1.75	18.7
%RSD	7.897	12.48	15.68	13.09	11.46	12.86	1.624	1.212	9.124	8.463	16.65
#1	10.44	197.5	19.25	193.6	6.238	1090.	6.661	41.70	11.86	21.08	99.26
#2	9.677	253.6	14.28	245.7	7.606	1370.	6.452	40.88	10.05	18.82	134.0
#3	11.33	223.6	15.64	202.0	6.310	1121.	6.596	41.79	11.79	22.27	104.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1135.**	**1151.**	**10.52**	**2177.**	**42.84**	**16.05**	**41.52**	**40.78**	**43.83**	**41.00**	**44.02**
Stddev	197.	139.	.89	252.	.30	1.51	.86	2.99	3.20	3.08	.15
%RSD	17.33	12.08	8.430	11.59	.6923	9.404	2.066	7.339	7.311	7.515	.3479
#1	976.2	1029.	10.97	2009.	42.60	17.57	40.82	44.22	40.13	42.65	44.13
#2	1355.	1302.	9.494	2467.	43.17	14.56	41.25	39.40	45.86	37.45	44.08
#3	1074.	1121.	11.08	2054.	42.75	16.02	42.47	38.73	45.49	42.91	43.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.21**	**20.63**	**20.98**	**1077.**	**1148.**	**21.80**	**21.20**
Stddev	.26	1.39	.31	63.	148.	1.39	.31
%RSD	1.242	6.729	1.472	5.870	12.89	6.377	1.467
#1	20.97	21.69	20.92	1110.	1031.	21.90	20.87
#2	21.16	19.06	21.32	1004.	1314.	20.36	21.26
#3	21.49	21.14	20.71	1117.	1099.	23.13	21.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16789.**	**53385.**	**15993.**
Stddev	146.	2823.	1559.
%RSD	.87239	5.2873	9.7495
#1	16649.	51900.	17299.
#2	16779.	56640.	14267.
#3	16941.	51615.	16414.

Sample Name: S301027-IFA2 Acquired: 1/15/2013 18:18:24 Type: QC
Method: PROM-2013(v2) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.041**	**313900.**	**3.050**	**.1105**	**-.5316**	**310600.**	F **-8.672**	**-1.152**	**-1.269**	**3.506**	**297300.**
Stddev	.975	3834.	3.181	.4196	.1464	7992.	.584	.182	.582	.511	4892.
%RSD	93.63	1.222	104.3	379.6	27.54	2.573	6.735	15.81	45.87	14.57	1.645
#1	.5337	313100.	3.020	-.2646	-.6999	311300.	-8.925	-1.111	-1.932	3.688	296500.
#2	2.166	310500.	-.1149	.0326	-.4604	302300.	-8.004	-.9929	-1.036	2.929	292900.
#3	.4250	318100.	6.246	.5637	-.4343	318300.	-9.087	-1.350	-.8399	3.900	302600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							3.000				
Low Limit							-3.000				

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**23.45**	**304800.**	**-.2507**	**288200.**	**1.707**	**1.504**	**-1.780**	**3.360**	**5.871**	**-2.134**	**3.453**
Stddev	76.36	3532.	.0515	3687.	1.011	1.693	1.917	6.250	.248	.187	.201
%RSD	325.7	1.159	20.55	1.280	59.25	112.5	107.7	186.0	4.217	8.739	5.830
#1	50.07	303200.	-.1979	292200.	2.588	2.666	-3.656	10.19	6.087	-2.341	3.268
#2	82.93	302400.	-.2534	284900.	1.930	2.286	-1.861	-2.082	5.926	-1.979	3.423
#3	-62.66	308900.	-.3009	287500.	.6026	-.4382	.1762	1.976	5.601	-2.083	3.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.729**	**1.584**	**1.245**	**-37.53**	**-34.05**	**1.035**	**3.040**
Stddev	.055	.187	1.136	7.34	19.80	.812	1.336
%RSD	2.012	11.77	91.24	19.55	58.16	78.47	43.96
#1	-2.672	1.747	-.0644	-36.10	-43.52	1.063	4.578
#2	-2.733	1.625	1.832	-31.02	-11.29	.2089	2.379
#3	-2.782	1.381	1.966	-45.48	-47.34	1.832	2.163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15435.**	**48204.**	**16267.**
Stddev	133.	260.	178.
%RSD	.85973	.53845	1.0943
#1	15581.	48133.	16230.
#2	15403.	48492.	16461.
#3	15322.	47988.	16110.

SOP-G-23 PERCENT SOLIDS/MOISTURE Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Page # : 142

Oven#: D-92

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.						
Note: Before starting the % Solids determination, an aliquot should be taken as follows:						
(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)						
A. For Organic analyses, except VOA,: decant any standing water.						
(B) For other analyses: mix the sample thoroughly.						
Name of Survey(s):	Jewett white					
Work Order Number:	1301016					
Date placed in oven at 103-105degC:		1/15/2013	Time:	2:50	AM/(PM)	
Date removed from oven at 103-105degC:		1/16/2013	Time:	7:00	(AM)/PM	
SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1301016-01	1.1722	8.3815	8.0243	95.05%	4.95%	
1301016-01 Dup	1.1848	9.5801	9.1781	95.21%	4.79%	
1301016-02	1.1773	8.7029	8.3373	95.14%	4.86%	
1301016-03	1.1738	9.2097	9.1970	99.84%	0.16%	
1301016-04	1.1796	8.0821	6.6797	79.68%	20.32%	
1301016-05	1.1829	9.5764	9.5763	100.00%	0.00%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
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				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
			Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
					RPD<20%	RPD<20%
			95.13%	4.87%	0.17%	3.41%
*Duplicate Must Be From First Sample Entered on the List for Correct RPD						
PERCENT = SOLIDS	C - A / B - A	(*100)	PERCENT = MOISTURE	B - C / B - A	(*100)	
Analyst RR / CEB			Validated By/Date:		OMS 1/16/13	

Jewett White Lead

W.O.# 1301023

P/N # 1212042

Alion Science & Technology
EPA Region 2 ESAT
2890 Woodbridge Ave, Edison,
NJ 08837

January 18, 2013

Mr. Ness Tirol
EPA Task Order Project Officer
U.S. EPA Region II
2890 Woodbridge Avenue
Building 209
Edison, NJ 08837

RE: Jewett White Lead, P-1212042 (W.O. 1301023)
Contract: EP-W-07-083
Task Order: 037
DC# 0237-102-0118
TDF: 13-0013

Dear Mr. Tirol:

Please find enclosed the results and supporting data of Lead analysis of three (3) soil samples.

Note: This is a partial report.

If you have any questions or comments, please contact me.

Respectfully submitted,
ALION

John Johnson
Program Manager
Region II ESAT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301068

Jewett White Lead - 1212042
1301023

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/17/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/17/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/17/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/17/2013
ICB < Reporting Limit?	YES	RR	01/17/2013
RL Low Level recovery ±30%?	YES	RR	01/17/2013
2RL Low Level Recovery ±30%?	YES	RR	01/17/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/17/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/17/2013
CCBs < Reporting Limit?	YES	RR	01/17/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/17/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/17/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301068

Jewett White Lead - 1212042
1301023

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

			Analyst Initials	Date
Blank data				
Prep Blank < Reporting Limit?	YES	*	RR	01/17/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		RR	01/17/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	RR	01/17/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	RR	01/17/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	RR	01/17/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		RR	01/17/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	RR	01/17/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		RR	01/17/2013
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	RR	01/17/2013
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	YES		RR	01/17/2013
1301023-03 was reported at 10X dilution since the original analysis was above the LDR.				
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		RR	01/17/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301068

Jewett White Lead - 1212042
1301023

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA	RR	01/17/2013
Percent Solids Log Book info entries completed?	YES	RR	01/17/2013
pH Log Book Log Book info entries completed?	NA	RR	01/17/2013

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	RR	01/17/2013
Peer reviewed? Date and person responsible.	YES	*	LEB	01/18/2013

* = Automated Response from Promium

MANUAL CALCULATION PER ANALYTE: **ICP METALS (SOLIDS)**

GENERAL FORMULA :

$$\text{SOLID SAMPLE : MG/KG (dry weight)} = \frac{\text{ug/L x D.F x V}}{\text{W x \%TS/100}}$$

where:

- ug/L = Instrument reading (ave. of three replicates)
- D.F = DILUTION FACTOR
- V = FINAL VOLUME OF DIGESTATE, Liter
  - = 0.050 L
- W = WEIGHT OF SAMPLE , grams
  - = 0.5069 g
- % TS = PERCENT TOTAL SOLIDS

note # 1: D.F = 1 (when no dilution)

note # 2: MG/KG = ug / g

Example calculation on sample # 1301023-03 with (% TS = 95.02)

Dilution Factor = 10

using the above equation : (for solid samples)

Analyte: Pb

$$\text{MG/KG (ug / g)} = \frac{12450\ \text{ug/L} * 10 * 0.050\text{L}}{0.5069\text{g} * \frac{95.02\%}{100}}$$

$$= 12924\ \text{mg/kg}$$

MG/KG (ug / g) = **13,000** (ROUNDED VALUE FOR LIMS)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301068

Prepared by: RR
Prepared on: 01/17/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301023-01	N/A	33	Yes	0.5752	50					
	1301023-02	N/A	33	Yes	0.5684	50					
	1301023-03	N/A	33	Yes	0.5069	50					
	B301068-BLK1	N/A	33	Yes	0.5102	50		0		0	
	B301068-MS1	N/A	33	Yes	0.5742	50	D2L0305	200	D2L0306	200	1301023-01
	B301068-MSD1	N/A	33	Yes	0.5742	50	D2L0305	200	D2L0306	200	1301023-01
	B301068-SRM1	N/A	33	Yes	0.5008	50	D2H1612	500.8		0	
	B301068-SRM2	N/A	33	Yes	0.5013	50	D2H1612	501.3		0	

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301031

Instrument: Thermo iTEVA

Printed: 1/17/2013 3:57:23PM

Project Name	Lab Number	Analysis	STD ID
	S301031-CAL1	QC	D3A1531
	S301031-CAL2	QC	D2K1202
	S301031-CAL3	QC	D2K1203
	S301031-ICV1	QC	D2K1204
	S301031-ICB1	QC	D3A1531
	S301031-LCV1	QC	D2K1206
	S301031-LCV2	QC	D2K1207
	S301031-IFA1	QC	D2K1208
	B301068-BLK1	QC	
	B301068-SRM1	QC	
	B301068-SRM2	QC	
Jewett White Lead - 1212042	1301023-01	E-Lead ICP	
	B301068-MS1	QC	
	B301068-MSD1	QC	
Jewett White Lead - 1212042	1301023-02	E-Lead ICP	
Jewett White Lead - 1212042	1301023-03	E-Lead ICP	
Jewett White Lead - 1212042	1301023-03RE1	E-Lead ICP	
	S301031-CCV1	QC	D2K1204
	S301031-CCB1	QC	D3A1531
	S301031-LCV3	QC	D2K1206
	S301031-LCV4	QC	D2K1207
	S301031-IFA2	QC	D2K1208

SUMMARY- VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301031-ICV1	S301031-ICB1	S301031-LCV1	S301031-LCV2	S301031-IFA1
	17 Jan 2013 15:17:10	17 Jan 2013 15:22:04	17 Jan 2013 15:26:57	17 Jan 2013 15:32:41	17 Jan 2013 15:37:26	17 Jan 2013 15:42:20	17 Jan 2013 15:47:12	17 Jan 2013 15:52:04
Ag3280	-.0003	.3449	.6646	192.6	-.5671	4.809	9.774	-.2762
Al3961R	.0006	.1271	.2624	4799.	-5.433	108.2	199.9	313300.
As1890	.0001	.2024	.4306	201.6	-.8891	9.808	18.44	6.014
B_2089	.0005	.8987	1.899	211.6	1.974	12.62	22.71	3.626
Ba4554R	.0106	10.50	21.16	193.8	.3633	97.38	197.8	.8249
Be3131R	.0011	11.07	22.10	199.2	.2779	3.088	5.974	-.4612
Ca3179R	.0076	.6099	1.245	5026.	-1.246	518.7	1054.	305100.
Cd2265	.0004	5.529	11.44	211.4	.3305	3.436	6.814	1.261
Co2286	.0000	2.989	6.337	201.8	.5131	20.73	41.58	-.7602
Cr2677	-.0001	2.651	5.218	208.4	.0308	5.702	11.04	-1.514
Cu3247	.0134	3.939	7.704	194.7	-1.098	9.464	19.08	1.601
Fe2599R	.0012	.3781	.7726	4978.	-9.329	49.09	95.21	286100.
K_7664R	-.0036	.1364	.2893	4992.	-81.06	398.0	999.2	162.3
Mg2790R	.0006	.0835	.1711	5010.	-5.313	512.1	1018.	298000.
Mn2576	.0010	16.95	33.18	204.3	.1050	5.236	10.47	-.1286
Mo2020	.0001	1.633	3.485	208.5	.6099	10.94	21.71	-2.502
Na5895R	-.0033	.2007	.4184	4795.	-57.96	912.6	1896.	283000.
Ni2316	.0000	1.403	2.979	210.5	.5798	21.67	42.74	2.878
Pb2203	**.0003**	**.7057**	**1.491**	**210.3**	**.3181**	**8.428**	**15.30**	**.8929**
Sb2068	.0002	.3193	.6814	206.4	-1.825	19.45	42.54	-3.701
Se1960	.0001	.1767	.3740	212.1	5.948	23.61	48.92	7.803
Si2881A	.0016	.2567	.5041	5227.	6.508	555.1	1095.	-56.90
Si2881R	.0003	.0444	.0912	5289.	34.41	526.5	1104.	-34.94
Sn1899	.0003	.4538	.9561	199.1	.7272	10.63	21.51	3.131
Sr3464	-.0003	2.857	5.604	199.8	1.157	10.79	21.41	1.655
Ti3372	-.0005	9.828	19.20	203.1	.2016	10.63	21.24	1.492
Tl1908	.0001	.2464	.5217	207.3	.7202	21.65	40.91	2.374
V_2924	-.0006	3.307	6.475	200.2	-.3427	20.13	40.22	-2.480
Y_2243-A	16638.	17072.	16168.	16392.	16964.	17407.	17167.	15762.
Y_3203-A	49646.	48381.	48480.	48824.	48719.	49503.	49852.	45470.
Y_3600-R	18264.	17182.	16911.	16767.	17100.	16899.	16603.	16209.
Zn2062	.0002	4.260	9.033	203.9	1.002	21.89	42.65	3.654

SUMMARY- VERTICAL REPORT

	B301068-BLK1	B301068-SRM1	B301068-SRM2	1301023-01	B301068-MS1	B301068-MSD1@5	1301023-02	1301023-03
	17 Jan 2013 15:57:10	17 Jan 2013 16:02:02	17 Jan 2013 16:06:45	17 Jan 2013 16:11:29	17 Jan 2013 16:16:34	17 Jan 2013 16:21:32	17 Jan 2013 16:26:19	17 Jan 2013 16:31:14
Ag3280	-.2865	394.3	402.1	-1.471	174.7	35.51	-1.938	2.173
Al3961R	11.05	94960.	102500.	77250.	84680.	17490.	74650.	26320.
As1890	-.1704	1646.	1653.	21.96	204.6	45.22	26.08	42.78
B_2089	.8588	816.9	816.5	32.81	209.9	44.51	33.86	36.66
Ba4554R	-.4290	1977.	2002.	841.3	1039.	213.6	801.1	1122.
Be3131R	-.2207	1103.	1102.	2.290	196.2	39.69	2.026	1.046
Ca3179R	2.525	71470.	72080.	14340.	19680.	4132.	13970.	200800.
Cd2265	1.463	985.7	982.5	2.392	182.1	38.61	1.607	6.569
Co2286	.0350	1273.	1269.	81.68	261.9	55.77	76.72	26.14
Cr2677	-.0472	1273.	1282.	120.7	326.5	68.65	118.2	79.39
Cu3247	-1.212	1226.	1223.	98.30	290.0	58.54	88.91	480.7
Fe2599R	-10.01	139800.	144000.	132000.	138900.	28970.	130100.	70300.
K_7664R	-44.48	30870.	31750.	8133.	13040.	2675.	7983.	3924.
Mg2790R	-27.67	27650.	28750.	24180.	29540.	6102.	22240.	42610.
Mn2576	.2331	3315.	3380.	4276.	4557.	981.4	3987.	3016.
Mo2020	-.2031	664.6	648.7	.6009	187.6	39.08	.2989	7.046
Na5895R	58.35	3200.	3279.	425.9	4894.	998.9	402.8	801.3
Ni2316	-.1493	720.9	712.9	100.7	293.2	62.22	98.83	122.1
Pb2203	**-1.021**	**733.0**	**735.1**	**78.10**	**265.0**	**55.35**	**73.79**	**F 114700.**
Sb2068	-.6399	1766.	1352.	-.0969	185.1	37.73	.3697	15.51
Se1960	3.449	1351.	1311.	9.834	186.9	40.60	8.503	7.946
Si2881A	13.84	15180.	27590.	11350.	13030.	2743.	11480.	8149.
Si2881R	16.67	16010.	29090.	11570.	13190.	2761.	12210.	8341.
Sn1899	.1664	1407.	1357.	-2.054	179.4	38.71	-1.355	68.43
Sr3464	-.4117	1310.	1331.	148.6	343.8	72.03	141.6	711.2
Ti3372	-.1320	2624.	3201.	3255.	3538.	741.1	3015.	1196.
Tl1908	-1.291	2049.	2044.	1.130	188.0	41.87	2.556	2.982
V_2924	-.5432	881.9	901.2	151.1	333.6	68.43	146.9	114.6
Y_2243-A	17391.	18063.	18123.	18692.	18746.	18127.	18894.	17882.
Y_3203-A	51117.	51568.	51858.	53672.	53125.	50959.	53920.	51174.
Y_3600-R	16465.	16983.	17094.	17352.	17039.	15836.	17191.	16686.
Zn2062	.2670	2732.	2748.	286.4	485.2	104.5	274.2	1242.

SUMMARY- VERTICAL REPORT

	1301023-03 @10	S301031-CCV1	S301031-CCB1	S301031-LCV3	S301031-LCV4	S301031-IFA2
	17 Jan 2013 16:36:24	17 Jan 2013 16:41:11	17 Jan 2013 16:45:54	17 Jan 2013 16:50:46	17 Jan 2013 16:55:39	17 Jan 2013 17:00:31
Ag3280	.4829	180.6	-.0161	3.830	9.133	1.139
Al3961R	2651.	4868.	.5849	85.02	188.6	316000.
As1890	5.009	204.5	.8202	9.745	18.82	2.697
B_2089	3.879	191.1	-.0428	10.34	19.14	1.910
Ba4554R	113.1	185.8	-.5149	95.91	192.7	.0849
Be3131R	-.1446	194.9	-.1826	2.912	5.825	-.6235
Ca3179R	20670.	5244.	5.149	538.6	1083.	313100.
Cd2265	.3446	199.3	-.0643	3.366	6.587	-.1946
Co2286	2.836	194.4	-.0299	20.48	40.76	-.8261
Cr2677	8.058	217.0	-.3091	5.793	11.47	-1.338
Cu3247	47.28	193.6	-.7081	9.160	19.84	2.386
Fe2599R	7227.	4971.	-13.78	47.89	94.12	287900.
K_7664R	369.1	5046.	-81.73	470.0	1033.	187.1
Mg2790R	4367.	5131.	-12.66	503.5	1090.	303500.
Mn2576	314.8	194.4	-.1983	4.977	10.07	-.1806
Mo2020	.5182	204.4	-.3984	11.01	21.44	-1.977
Na5895R	-6.054	4336.	-16.94	811.2	1744.	269600.
Ni2316	13.47	213.5	.1528	21.71	42.81	.6621
Pb2203	**12450.**	**221.0**	**1.262**	**9.819**	**16.64**	**.0252**
Sb2068	1.143	196.1	-.8044	20.84	40.20	-1.094
Se1960	8.708	214.6	5.596	F 26.18	48.65	7.421
Si2881A	851.4	5697.	-.9068	575.9	1144.	-61.64
Si2881R	833.6	5932.	-9.425	567.3	1167.	-31.99
Sn1899	7.952	206.6	.5864	11.89	22.55	4.477
Sr3464	73.46	199.3	.0340	10.86	20.79	2.214
Ti3372	117.9	197.8	-.2600	10.15	20.48	1.396
Tl1908	.7318	213.8	1.921	24.56	42.61	6.938
V_2924	10.76	191.3	-1.174	18.88	38.93	-2.111
Y_2243-A	18187.	18219.	18219.	18135.	18682.	16634.
Y_3203-A	51311.	51656.	50489.	51496.	52444.	47251.
Y_3600-R	15890.	15078.	15278.	15185.	15137.	15300.
Zn2062	135.2	209.7	-.5017	22.85	43.50	4.244

	Pos ID	Type	Samplename	Comment	Instrument	Method	CorrFact	Check	Check Table	Fail Action
1	1	QC	B301068-BLK1		ICAP6300	SOP-C-109	1	☒	PBS	None
2	2	QC	B301068-SRM1		ICAP6300	SOP-C-109	1	☒	LCSS	None
3	3	QC	B301068-SRM2		ICAP6300	SOP-C-109	1	☒	LCSS	None
4	4	Unk	1301023-01	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301068-MS1	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301068-MSD1@5	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301023-02	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---
8	8	Unk	1301023-03	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---
9	9	Unk	1301023-03 @10	JEWETT WHITE (1301023)	ICAP6300	SOP-C-109	1	☒	LDR	---

Sample Name: Blank Acquired: 1/17/2013 15:17:10 Type: Cal
Method: PROM-2013(v4) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0003**	**.0006**	**.0001**	**.0106**	**.0011**	**.0076**	**.0004**	**.0000**	**-.0001**	**.0134**	**.0012**
Stddev	.0004	.0008	.0001	.0004	.0003	.0001	.0001	.000	.0002	.0004	.0003
%RSD	120.1	137.9	55.44	3.781	26.07	1.142	27.16	469.2	225.2	3.317	23.99
#1	.0001	.0014	.0001	.0102	.0009	.0076	.0003	.0002	-.0002	.0136	.0010
#2	-.0004	.0007	.0002	.0109	.0014	.0075	.0004	.0000	.0001	.0136	.0011
#3	-.0007	-.0003	.0001	.0109	.0009	.0076	.0005	-.0003	-.0002	.0129	.0016

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0048**	**.0006**	**.0010**	**-.0033**	**.0000**	**.0006**	**.0002**	**.0001**	**.0001**	**-.0006**	**.0002**
Stddev	.0009	.0003	.0002	.0015	.000	.0003	.0000	.0000	.0000	.0003	.0001
%RSD	19.68	46.80	23.63	44.17	498.9	60.07	15.07	48.55	29.13	44.30	51.00
#1	.0058	.0007	.0007	-.0025	.0000	.0002	.0003	.0000	.0001	-.0004	.0002
#2	.0041	.0009	.0011	-.0024	.0001	.0007	.0002	.0001	.0001	-.0005	.0001
#3	.0044	.0003	.0011	-.0050	-.0002	.0008	.0002	.0001	.0001	-.0009	.0004

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-.0005**	**.0005**	**.0016**	**.0003**	**-.0003**	**.0003**
Stddev	.0001	.0002	.0001	.0000	.0001	.0003	.0001
%RSD	219.3	37.68	16.15	2.561	48.69	78.50	22.38
#1	.0001	-.0003	.0004	.0016	.0003	-.0001	.0003
#2	.0002	-.0005	.0004	.0016	.0003	-.0003	.0002
#3	-.0001	-.0007	.0006	.0015	.0001	-.0006	.0003

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16638.	49646.	18264.
Stddev	135.	841.	349.
%RSD	.81385	1.6940	1.9134
#1	16711.	50606.	18647.
#2	16722.	49295.	18185.
#3	16482.	49038.	17962.

Sample Name: MID STD Acquired: 1/17/2013 15:22:04 Type: Cal
Method: PROM-2013(v4) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3449**	**.1271**	**.2024**	**10.50**	**11.07**	**.6099**	**5.529**	**2.989**	**2.651**	**3.939**	**.3781**
Stddev	.0055	.0052	.0164	.41	.44	.0229	.459	.251	.030	.048	.0151
%RSD	1.597	4.070	8.109	3.861	4.008	3.758	8.301	8.403	1.121	1.220	3.993
#1	.3450	.1212	.2127	10.07	10.59	.5844	5.850	3.160	2.627	3.909	.3616
#2	.3504	.1310	.2110	10.87	11.46	.6287	5.734	3.107	2.685	3.994	.3913
#3	.3394	.1290	.1835	10.57	11.17	.6165	5.004	2.701	2.642	3.913	.3815

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1439**	**.0835**	**16.95**	**.2007**	**1.403**	**.7026**	**.3193**	**.1767**	**.2464**	**3.307**	**4.260**
Stddev	.0051	.0040	.59	.0039	.116	.0568	.0275	.0138	.0203	.049	.347
%RSD	3.572	4.839	3.463	1.963	8.279	8.083	8.628	7.827	8.219	1.465	8.146
#1	.1380	.0790	16.50	.1972	1.480	.7408	.3378	.1850	.2565	3.295	4.487
#2	.1460	.0867	17.62	.2049	1.460	.7296	.3325	.1845	.2596	3.361	4.432
#3	.1476	.0849	16.74	.2000	1.269	.6373	.2876	.1608	.2231	3.267	3.860

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.633**	**9.828**	**.8987**	**.2567**	**.0444**	**2.857**	**.4538**
Stddev	.135	.264	.0750	.0025	.0020	.037	.0373
%RSD	8.274	2.688	8.350	.9572	4.441	1.279	8.218
#1	1.719	9.693	.9489	.2541	.0422	2.839	.4764
#2	1.703	10.13	.9348	.2589	.0459	2.899	.4742
#3	1.477	9.659	.8125	.2571	.0450	2.834	.4107

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17072.	48381.	17182.
Stddev	1203.	665.	662.
%RSD	7.0483	1.3740	3.8511
#1	16269.	48111.	17933.
#2	16490.	47894.	16685.
#3	18455.	49138.	16928.

Sample Name: HIGH STD Acquired: 1/17/2013 15:26:57 Type: Cal
Method: PROM-2013(v4) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6646**	**.2624**	**.4306**	**21.16**	**22.10**	**1.245**	**11.44**	**6.337**	**5.218**	**7.704**	**.7726**
Stddev	.0058	.0170	.0182	1.11	.49	.073	.41	.290	.108	.157	.0500
%RSD	.8757	6.468	4.216	5.253	2.198	5.862	3.591	4.580	2.078	2.038	6.476
#1	.6701	.2491	.4516	20.50	21.85	1.181	11.92	6.672	5.238	7.764	.7334
#2	.6653	.2815	.4206	22.44	22.66	1.325	11.18	6.178	5.315	7.823	.8290
#3	.6585	.2566	.4198	20.54	21.79	1.230	11.24	6.161	5.101	7.526	.7554

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2898**	**.1711**	**33.18**	**.4184**	**2.979**	**1.485**	**.6814**	**.3740**	**.5217**	**6.475**	**9.033**
Stddev	.0159	.0113	.23	.0297	.135	.060	.0303	.0151	.0205	.072	.394
%RSD	5.478	6.632	.7028	7.090	4.513	4.069	4.441	4.030	3.929	1.113	4.357
#1	.2771	.1622	33.31	.3989	3.135	1.555	.7162	.3914	.5453	6.459	9.487
#2	.3076	.1839	33.32	.4525	2.903	1.448	.6668	.3651	.5079	6.554	8.795
#3	.2847	.1673	32.91	.4037	2.900	1.453	.6613	.3655	.5120	6.413	8.817

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.485**	**19.20**	**1.899**	**.5041**	**.0912**	**5.604**	**.9561**
Stddev	.162	.32	.081	.0052	.0047	.025	.0424
%RSD	4.637	1.679	4.271	1.023	5.140	.4536	4.439
#1	3.672	19.19	1.993	.4992	.0866	5.615	1.005
#2	3.397	19.53	1.857	.5036	.0960	5.622	.9302
#3	3.387	18.89	1.848	.5095	.0909	5.575	.9330

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16168.**	**48480.**	**16911.**
Stddev	629.	699.	681.
%RSD	3.8875	1.4423	4.0277
#1	15447.	48363.	17529.
#2	16602.	47847.	16181.
#3	16455.	49231.	17024.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	-0.000315	0.000672	0.000000	1.000000	0.999840	0.694431	2.083293	6.944312
Al 396.152 { 85}2	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.000601	0.000025	0.000000	1.000000	0.999869	2.067579	6.202737	20.675789
As 189.042 {478}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.000103	0.000042	0.000000	1.000000	0.999580	3.552060	10.656179	35.520597
Ba 455.403 { 74}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.010623	0.002109	0.000000	1.000000	0.999994	0.441273	1.323820	4.412733
Be 313.107 {108}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.001067	0.002211	0.000000	1.000000	1.000000	0.117738	0.353214	1.177381
Ca 317.933 {106}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.007553	0.000123	0.000000	1.000000	0.999919	1.555220	4.665659	15.552197
Cd 226.502 {449}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	0.000304	0.001141	0.000000	1.000000	0.999871	1.947666	5.842998	19.476659
Co 228.616 {447}	1/17/2013 15:32:35	1/17/2013 15:32:35	Linear	1/Conc	-0.000107	0.000622	0.000000	1.000000	0.999631	3.324278	9.972835	33.242783
Cr 267.716 {126}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.000062	0.000525	0.000000	1.000000	0.999971	0.926731	2.780193	9.267310
Cu 324.754 {104}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.013389	0.000774	0.000000	1.000000	0.999952	1.195290	3.585869	11.952898
Fe 259.940 {130}2	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.001218	0.000077	0.000000	1.000000	0.999942	1.323021	3.969062	13.230205
K 766.490 { 44}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.004774	0.000028	0.000000	1.000000	0.999936	1.386430	4.159289	13.864297
Mg 279.079 {121}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000642	0.000017	0.000000	1.000000	0.999911	1.630425	4.891276	16.304253
Mn 257.610 {131}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.001120	0.003342	0.000000	1.000000	0.999948	1.251429	3.754286	12.514287
Na 589.592 { 57}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.003327	0.000042	0.000000	1.000000	0.999881	1.888079	5.664237	18.880791
Ni 231.604 {445}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.000056	0.000292	0.000000	1.000000	0.999609	3.426516	10.279548	34.265159
Pb 220.353 {453}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000562	0.000150	0.000000	1.000000	0.999659	3.099392	9.298176	30.993919
Sb 206.833 {463}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000239	0.000066	0.000000	1.000000	0.999536	3.743043	11.229130	37.430434
Se 196.090 {472}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000067	0.000037	0.000000	1.000000	0.999648	3.248094	9.744281	32.480937
Tl 190.856 {477}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000106	0.000051	0.000000	1.000000	0.999642	3.280066	9.840198	32.800659
V 292.402 {115}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.000565	0.000654	0.000000	1.000000	0.999949	1.235840	3.707520	12.358401
Zn 206.200 {463}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000146	0.000887	0.000000	1.000000	0.999627	3.342042	10.026126	33.420419
Mo 202.030 {467}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000024	0.000341	0.000000	1.000000	0.999539	3.716986	11.150957	37.169856
Ti 337.280 {100}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.000445	0.001936	0.000000	1.000000	0.999939	1.356104	4.068312	13.561041
B 208.959 {461}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000467	0.000177	0.000000	1.000000	0.999667	3.319761	9.959284	33.197613
Si 288.158 {117}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.001590	0.000050	0.000000	1.000000	0.999974	0.884746	2.654238	8.847460
Si 288.158 {117}2	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000254	0.000009	0.000000	1.000000	0.999903	1.710385	5.131155	17.103849
Sr 346.446 { 97}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	-0.000327	0.000564	0.000000	1.000000	0.999957	1.134777	3.404331	11.347770
Sn 189.989 {477}	1/17/2013 15:32:36	1/17/2013 15:32:36	Linear	1/Conc	0.000246	0.000094	0.000000	1.000000	0.999700	3.000767	9.002300	30.007668
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301031-ICV1 Acquired: 1/17/2013 15:32:41 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**192.6**	**4799.**	**201.6**	**193.8**	**199.2**	**5026.**	**211.4**	**201.8**	**208.4**	**194.7**	**4978.**
Stddev	4.1	109.	6.5	3.6	4.5	124.	4.4	3.7	6.6	6.6	114.
%RSD	2.123	2.276	3.202	1.849	2.235	2.471	2.075	1.839	3.169	3.365	2.288
#1	188.8	4763.	195.0	191.6	196.6	4977.	206.6	197.8	204.1	190.2	4929.
#2	191.9	4712.	207.9	191.8	196.6	4934.	215.3	205.2	205.2	191.7	4897.
#3	196.9	4921.	201.8	197.9	204.4	5167.	212.4	202.5	216.0	202.2	5109.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5012.**	**5010.**	**204.3**	**4795.**	**210.5**	**209.1**	**206.4**	**212.1**	**207.3**	**200.2**	**203.9**
Stddev	159.	154.	5.0	58.	4.8	5.6	5.3	5.3	8.2	5.1	4.8
%RSD	3.180	3.067	2.465	1.216	2.280	2.682	2.555	2.517	3.979	2.570	2.362
#1	5014.	4932.	200.6	4816.	205.0	203.3	200.5	205.9	198.5	195.5	198.7
#2	4852.	4911.	202.3	4729.	214.0	214.4	210.7	214.4	214.8	199.5	208.2
#3	5171.	5187.	210.1	4840.	212.3	209.6	207.9	215.8	208.7	205.7	204.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**208.5**	**203.1**	**211.6**	**5227.**	**5289.**	**199.8**	**199.1**
Stddev	5.3	5.5	4.5	184.	164.	6.2	4.0
%RSD	2.532	2.729	2.140	3.522	3.103	3.090	2.023
#1	203.2	199.0	206.3	5097.	5199.	194.7	194.9
#2	213.8	200.8	214.4	5147.	5188.	198.0	203.0
#3	208.5	209.4	213.9	5438.	5478.	206.6	199.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16392.**	**48824.**	**16767.**
Stddev	194.	133.	110.
%RSD	1.1811	.27254	.65715
#1	16411.	48967.	16894.
#2	16190.	48801.	16712.
#3	16576.	48704.	16695.

Sample Name: S301031-ICB1 Acquired: 1/17/2013 15:37:26 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.5671**	**-5.433**	**-.8891**	**.3633**	**.2779**	**-1.246**	**.3305**	**.5131**	**.0308**	**-1.098**	**-9.329**
Stddev	.5340	8.381	.7017	.6940	.2978	2.195	.1721	.2539	.3785	.755	7.482
%RSD	94.16	154.3	78.92	191.0	107.1	176.1	52.08	49.48	1227.	68.71	80.21
#1	-1.068	-15.06	-1.620	1.128	.3964	.2733	.2824	.3423	-.3226	-1.737	-14.62
#2	-.0055	.2088	-.8275	-.2257	.4982	-3.762	.1875	.8049	-.0150	-.2654	-.7681
#3	-.6275	-1.445	-.2202	.1873	-.0608	-.2501	.5216	.3922	.4302	-1.293	-12.60
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-55.71**	**-5.313**	**.1050**	**-57.96**	**.5798**	**.2257**	**-1.825**	**5.948**	**.7202**	**-.3427**	**1.002**
Stddev	61.55	27.86	.0807	25.75	.5528	1.947	1.603	4.947	.5691	.3195	.092
%RSD	110.5	524.4	76.79	44.43	95.35	862.5	87.84	83.17	79.01	93.25	9.213
#1	13.61	26.80	.1903	-65.28	.8671	2.057	-3.145	.2933	.2060	-.4479	1.075
#2	-103.9	-19.67	.0948	-29.33	.9298	-1.819	-.0409	9.477	.6229	.0162	1.034
#3	-76.81	-23.07	.0300	-79.25	-.0576	.4399	-2.290	8.074	1.332	-.5962	.8985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6099**	**.2016**	**1.974**	**6.508**	**34.41**	**1.157**	**.7272**
Stddev	.4602	.3178	1.272	2.437	66.26	.503	.6550
%RSD	75.45	157.6	64.42	37.44	192.6	43.50	90.07
#1	.5145	.5597	3.172	7.678	84.51	1.735	1.183
#2	1.110	.0921	.6395	3.707	59.43	.8071	-.0233
#3	.2049	-.0469	2.112	8.140	-40.72	.9307	1.021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16964.**	**48719.**	**17100.**
Stddev	126.	924.	144.
%RSD	.74336	1.8974	.84078
#1	16928.	49070.	17202.
#2	16859.	49417.	16935.
#3	17104.	47671.	17162.

Sample Name: S301031-LCV1 Acquired: 1/17/2013 15:42:20 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.809**	**108.2**	**9.808**	**97.38**	**3.088**	**518.7**	**3.436**	**20.73**	**5.702**	**9.464**	**49.09**
Stddev	.801	25.4	.399	2.02	.195	15.7	.225	.12	.606	.406	2.29
%RSD	16.65	23.44	4.070	2.078	6.326	3.028	6.534	.5656	10.63	4.289	4.675
#1	3.933	84.18	9.531	95.87	2.876	518.2	3.667	20.82	5.079	9.011	49.52
#2	4.987	134.7	9.627	99.68	3.261	534.7	3.218	20.78	6.290	9.586	51.14
#3	5.505	105.8	10.27	96.59	3.126	503.3	3.424	20.60	5.738	9.795	46.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**398.0**	**512.1**	**5.236**	**912.6**	**21.67**	**8.428**	**19.45**	**23.61**	**21.65**	**20.13**	**21.89**
Stddev	59.3	24.9	.075	31.5	.26	.750	.66	7.04	1.29	.44	.06
%RSD	14.89	4.869	1.430	3.450	1.199	8.898	3.417	29.82	5.955	2.187	.2812
#1	458.0	524.8	5.189	892.4	21.37	9.169	20.09	28.44	23.02	19.68	21.82
#2	339.6	483.4	5.322	948.9	21.80	8.448	18.76	26.87	20.47	20.56	21.93
#3	396.4	528.1	5.196	896.6	21.84	7.669	19.51	15.53	21.44	20.17	21.93
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.94**	**10.63**	**12.62**	**555.1**	**526.5**	**10.79**	**10.63**
Stddev	.39	.17	.98	21.8	16.1	.22	.78
%RSD	3.543	1.638	7.768	3.922	3.051	2.056	7.314
#1	11.38	10.59	13.60	537.4	533.5	11.02	11.50
#2	10.80	10.82	12.63	579.4	537.8	10.78	10.01
#3	10.65	10.49	11.64	548.5	508.1	10.57	10.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17407.**	**49503.**	**16899.**
Stddev	171.	788.	292.
%RSD	.98179	1.5909	1.7289
#1	17252.	49448.	17070.
#2	17380.	48744.	16561.
#3	17590.	50316.	17064.

Sample Name: S301031-LCV2 Acquired: 1/17/2013 15:47:12 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.774	199.9	18.44	197.8	5.974	1054.	6.814	41.58	11.04	19.08	95.21
Stddev	.976	41.2	.88	5.3	.147	31.	.278	.06	.67	.40	7.45
%RSD	9.983	20.63	4.774	2.680	2.454	2.931	4.078	.1432	6.039	2.088	7.821
#1	10.86	180.4	19.46	191.7	5.891	1018.	7.040	41.65	10.54	19.37	89.89
#2	9.478	247.3	17.99	200.0	6.143	1071.	6.504	41.57	10.77	18.62	92.02
#3	8.980	172.1	17.88	201.6	5.887	1073.	6.900	41.53	11.79	19.24	103.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	999.2	1018.	10.47	1896.	42.74	15.30	42.54	48.92	40.91	40.22	42.65
Stddev	80.4	33.	.08	4.	.60	2.93	1.46	2.90	1.26	.43	.28
%RSD	8.046	3.207	.7235	.1936	1.394	19.14	3.426	5.923	3.079	1.063	.6495
#1	1068.	980.4	10.51	1892.	42.08	18.61	44.20	45.85	39.77	39.78	42.48
#2	1019.	1039.	10.38	1898.	43.24	14.25	41.47	51.61	40.70	40.25	42.97
#3	910.9	1035.	10.51	1898.	42.91	13.04	41.97	49.30	42.26	40.63	42.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.71	21.24	22.71	1095.	1104.	21.41	21.51
Stddev	.15	.01	.87	11.	56.	.10	1.66
%RSD	.7082	.0323	3.852	.9996	5.055	.4898	7.712
#1	21.64	21.23	21.71	1094.	1054.	21.29	21.54
#2	21.60	21.25	23.35	1084.	1094.	21.47	23.16
#3	21.89	21.24	23.07	1106.	1164.	21.46	19.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17167.	49852.	16603.
Stddev	18.	325.	320.
%RSD	.10425	.65213	1.9263
#1	17151.	49633.	16971.
#2	17164.	50226.	16447.
#3	17186.	49697.	16391.

Sample Name: S301031-IFA1 Acquired: 1/17/2013 15:52:04 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2762**	**313300.**	**6.014**	**.8249**	**-.4612**	**305100.**	**1.261**	**-.7602**	**-1.514**	**1.601**	**286100.**
Stddev	.7980	1753.	1.968	.4305	.2444	7789.	.593	.1770	.360	.247	3205.
%RSD	289.0	.5597	32.72	52.19	52.98	2.553	47.06	23.29	23.80	15.44	1.120
#1	.3561	313700.	7.512	.6581	-.1819	312500.	.5925	-.8921	-1.858	1.670	286700.
#2	-1.173	314700.	3.786	.5027	-.5664	305800.	1.725	-.8295	-1.140	1.806	289000.
#3	-.0117	311300.	6.745	1.314	-.6353	297000.	1.465	-.5590	-1.544	1.326	282700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**162.3**	**298000.**	**-.1286**	**283000.**	**2.878**	**.8929**	**-3.701**	**7.803**	**2.374**	**-2.480**	**3.654**
Stddev	84.7	1289.	.1058	551.	.498	1.159	1.581	3.524	2.574	.178	.206
%RSD	52.20	.4325	82.32	.1947	17.31	129.8	42.72	45.17	108.4	7.183	5.641
#1	90.03	298200.	-.2482	282800.	2.322	2.195	-1.881	11.14	5.310	-2.589	3.664
#2	255.6	299100.	-.0903	282600.	3.285	-.0260	-4.484	8.158	.5021	-2.274	3.856
#3	141.4	296600.	-.0472	283700.	3.027	.5102	-4.737	4.115	1.310	-2.576	3.444
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.502**	**1.492**	**3.626**	**-56.90**	**-34.94**	**1.655**	**3.131**
Stddev	.307	.070	.831	6.49	24.54	.922	.533
%RSD	12.29	4.728	22.93	11.41	70.24	55.70	17.01
#1	-2.166	1.411	2.672	-58.15	-22.55	2.314	3.137
#2	-2.570	1.523	4.010	-49.88	-19.06	2.050	2.596
#3	-2.769	1.542	4.195	-62.68	-63.20	.6016	3.661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15762.**	**45470.**	**16209.**
Stddev	31.	415.	165.
%RSD	.19405	.91343	1.0155
#1	15771.	45025.	16173.
#2	15728.	45540.	16065.
#3	15787.	45847.	16388.

Sample Name: B301068-BLK1 Acquired: 1/17/2013 15:57:10 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2865	11.05	-.1704	-.4290	-.2207	2.525	1.463	.0350	-.0472	-1.212	-10.01
Stddev	1.027	33.94	.5322	.3184	.2665	2.849	.120	.3025	.2064	.517	3.62
%RSD	358.5	307.0	312.4	74.23	120.8	112.9	8.213	865.4	437.3	42.66	36.20
#1	-.1243	34.81	.3539	-.1678	.0587	4.869	1.565	.1972	-.0020	-1.799	-5.946
#2	.6498	26.17	-.7102	-.3355	-.4721	-.6467	1.495	-.3141	-.2725	-1.017	-12.90
#3	-1.385	-27.81	-.1548	-.7837	-.2486	3.352	1.331	.2218	.1328	-.8213	-11.17
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-44.48	-27.67	.2331	58.35	-.1493	-1.021	-.6399	3.449	-1.291	-.5432	.2670
Stddev	49.73	11.16	.0513	29.32	.1000	.967	1.911	5.192	1.340	.3079	.1373
%RSD	111.8	40.34	21.99	50.25	66.98	94.67	298.6	150.6	103.8	56.68	51.42
#1	-72.49	-19.50	.2298	52.70	-.0881	-.0957	1.511	-1.856	-1.585	-.1988	.2263
#2	12.93	-40.39	.1836	90.09	-.2647	-.9431	-1.291	3.681	-2.460	-.7918	.4201
#3	-73.89	-23.13	.2859	32.27	-.0951	-2.024	-2.140	8.521	.1717	-.6390	.1547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2031	-.1320	.8588	13.84	16.67	-.4117	.1664
Stddev	.0984	.0768	1.173	3.83	18.24	.3903	.1418
%RSD	48.46	58.18	136.6	27.65	109.4	94.81	85.24
#1	-.0978	-.2134	.7238	11.42	25.12	.0136	.0320
#2	-.2189	-.1221	2.093	18.25	29.15	-.4952	.1524
#3	-.2927	-.0607	-.2408	11.84	-4.259	-.7535	.3146
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17391.	51117.	16465.
Stddev	33.	360.	214.
%RSD	.18902	.70363	1.2985
#1	17354.	51517.	16515.
#2	17401.	51013.	16650.
#3	17418.	50820.	16231.

Sample Name: B301068-SRM1 Acquired: 1/17/2013 16:02:02 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**394.3**	**94960.**	**1646.**	**1977.**	**1103.**	**71470.**	**985.7**	**1273.**	**1273.**	**1226.**	**139800.**
Stddev	3.1	405.	7.	9.	4.	275.	1.1	1.	16.	12.	758.
%RSD	.7766	.4264	.4233	.4446	.4008	.3853	.1133	.0585	1.281	1.008	.5423
#1	396.8	94710.	1638.	1969.	1098.	71350.	985.2	1274.	1291.	1240.	138900.
#2	395.2	95430.	1649.	1975.	1106.	71780.	987.0	1273.	1266.	1224.	140400.
#3	390.9	94750.	1650.	1986.	1105.	71280.	985.0	1273.	1261.	1216.	140000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30870.**	**27650.**	**3315.**	**3200.**	**720.9**	**733.0**	**1766.**	**1351.**	**2049.**	**881.9**	**2732.**
Stddev	37.	182.	64.	51.	.7	1.8	8.	13.	24.	5.2	3.
%RSD	.1185	.6597	1.922	1.600	.1035	.2412	.4710	.9857	1.151	.5941	.1103
#1	30840.	27450.	3389.	3142.	721.8	734.8	1756.	1336.	2029.	887.2	2735.
#2	30910.	27810.	3283.	3237.	720.6	731.3	1772.	1362.	2044.	881.8	2731.
#3	30850.	27690.	3274.	3221.	720.4	732.9	1769.	1353.	2075.	876.7	2730.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**664.6**	**2624.**	**816.9**	**15180.**	**16010.**	**1310.**	**1407.**
Stddev	2.5	25.	2.5	84.	73.	13.	2.
%RSD	.3779	.9470	.3022	.5561	.4580	1.016	.1730
#1	662.2	2652.	814.3	15250.	16090.	1325.	1407.
#2	664.4	2615.	817.4	15200.	15960.	1305.	1404.
#3	667.2	2604.	819.1	15090.	15980.	1300.	1409.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18063.**	**51568.**	**16983.**
Stddev	175.	1511.	311.
%RSD	.97116	2.9302	1.8299
#1	17861.	49823.	16963.
#2	18164.	52415.	16683.
#3	18165.	52464.	17303.

Sample Name: B301068-SRM2 Acquired: 1/17/2013 16:06:45 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**402.1**	**102500.**	**1653.**	**2002.**	**1102.**	**72080.**	**982.5**	**1269.**	**1282.**	**1223.**	**144000.**
Stddev	6.0	853.	32.	20.	10.	684.	21.3	26.	17.	19.	1438.
%RSD	1.500	.8322	1.918	.9938	.9490	.9493	2.167	2.045	1.329	1.578	.9984
#1	409.0	103100.	1620.	2021.	1112.	72530.	958.6	1241.	1300.	1242.	145300.
#2	398.8	101500.	1656.	1982.	1091.	71290.	989.3	1274.	1282.	1223.	142500.
#3	398.3	102800.	1683.	2003.	1104.	72420.	999.5	1292.	1266.	1204.	144400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**31750.**	**28750.**	**3380.**	**3279.**	**712.9**	**735.1**	**1352.**	**1311.**	**2044.**	**901.2**	**2748.**
Stddev	383.	335.	44.	19.	16.4	17.8	29.	18.	25.	12.2	58.
%RSD	1.208	1.164	1.301	.5925	2.306	2.427	2.170	1.379	1.205	1.356	2.109
#1	32120.	29060.	3431.	3288.	695.3	716.3	1319.	1291.	2016.	914.8	2687.
#2	31350.	28390.	3353.	3292.	715.3	737.4	1362.	1315.	2057.	897.6	2756.
#3	31780.	28800.	3356.	3257.	728.0	751.7	1375.	1326.	2060.	891.2	2802.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**648.7**	**3201.**	**816.5**	**27590.**	**29090.**	**1331.**	**1357.**
Stddev	14.5	44.	13.4	281.	294.	20.	27.
%RSD	2.238	1.388	1.643	1.019	1.009	1.498	2.005
#1	633.8	3248.	802.4	27790.	29330.	1352.	1329.
#2	649.5	3195.	817.8	27710.	28760.	1328.	1358.
#3	662.8	3160.	829.1	27270.	29180.	1313.	1383.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18123.**	**51858.**	**17094.**
Stddev	277.	469.	154.
%RSD	1.5291	.90493	.89870
#1	18429.	51323.	16931.
#2	18053.	52200.	17114.
#3	17888.	52052.	17237.

Sample Name: 1301023-01 Acquired: 1/17/2013 16:11:29 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.471**	**77250.**	**21.96**	**841.3**	**2.290**	**14340.**	**2.392**	**81.68**	**120.7**	**98.30**	**132000.**
Stddev	.431	1320.	1.57	4.6	.273	187.	.334	.42	.3	1.47	1633.
%RSD	29.28	1.709	7.129	.5475	11.91	1.302	13.96	.5187	.2156	1.495	1.237
#1	-1.347	75790.	20.23	836.1	2.113	14140.	2.600	81.54	121.0	99.84	130200.
#2	-1.950	77600.	23.28	843.0	2.604	14400.	2.570	82.16	120.5	96.91	132300.
#3	-1.116	78360.	22.38	844.8	2.153	14500.	2.007	81.34	120.7	98.16	133400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8133.**	**24180.**	**4276.**	**425.9**	**100.7**	**78.10**	**-.0969**	**9.834**	**1.130**	**151.1**	**286.4**
Stddev	125.	313.	34.	14.2	.7	1.17	1.286	2.907	.639	.8	.2
%RSD	1.535	1.293	.8017	3.344	.7061	1.502	1327.	29.56	56.56	.5446	.0805
#1	7989.	23830.	4254.	412.1	101.3	76.88	-.7510	12.05	.5809	151.9	286.3
#2	8214.	24290.	4258.	425.3	99.90	78.20	1.384	10.91	1.831	150.3	286.6
#3	8196.	24430.	4315.	440.5	100.8	79.22	-.9238	6.542	.9772	151.1	286.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.6009**	**3255.**	**32.81**	**11350.**	**11570.**	**148.6**	**-2.054**
Stddev	.3867	34.	1.75	143.	267.	1.5	.397
%RSD	64.35	1.040	5.326	1.257	2.304	1.024	19.32
#1	1.036	3277.	31.87	11210.	11270.	150.0	-2.103
#2	.4693	3271.	34.83	11350.	11760.	147.0	-1.635
#3	.2972	3216.	31.73	11500.	11690.	148.7	-2.424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18692.**	**53672.**	**17352.**
Stddev	61.	349.	328.
%RSD	.32696	.65065	1.8883
#1	18624.	53642.	17694.
#2	18742.	54036.	17324.
#3	18709.	53339.	17040.

Sample Name: B301068-MS1 Acquired: 1/17/2013 16:16:34 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**174.7**	**84680.**	**204.6**	**1039.**	**196.2**	**19680.**	**182.1**	**261.9**	**326.5**	**290.0**	**138900.**
Stddev	2.3	345.	1.2	5.	.6	139.	.6	.3	2.8	2.2	439.
%RSD	1.307	.4071	.6075	.5276	.3178	.7054	.3158	.1291	.8619	.7420	.3163
#1	177.2	84930.	205.5	1044.	196.4	19760.	181.6	261.9	329.7	291.2	139200.
#2	172.8	84290.	203.2	1041.	195.5	19520.	182.0	262.1	324.4	287.5	138400.
#3	174.2	84820.	205.0	1033.	196.7	19770.	182.7	261.5	325.5	291.4	139100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13040.**	**29540.**	**4557.**	**4894.**	**293.2**	**265.0**	**185.1**	**186.9**	**188.0**	**333.6**	**485.2**
Stddev	85.	72.	138.	33.	1.1	3.4	1.7	5.9	4.3	3.3	1.3
%RSD	.6544	.2431	3.020	.6792	.3663	1.298	.9299	3.179	2.302	.9920	.2721
#1	13130.	29610.	4713.	4868.	293.9	262.1	183.2	190.4	185.3	337.3	485.7
#2	12970.	29470.	4454.	4931.	291.9	264.1	186.4	180.0	185.8	332.7	483.8
#3	13000.	29540.	4504.	4882.	293.7	268.8	185.8	190.2	193.0	330.8	486.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**187.6**	**3538.**	**209.9**	**13030.**	**13190.**	**343.8**	**179.4**
Stddev	.8	6.	.3	123.	82.	3.3	1.2
%RSD	.4287	.1818	.1645	.9460	.6235	.9556	.6568
#1	188.4	3540.	209.6	12940.	13120.	347.6	179.1
#2	187.7	3531.	209.7	13170.	13280.	342.2	180.7
#3	186.8	3543.	210.3	12980.	13160.	341.6	178.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18746.**	**53125.**	**17039.**
Stddev	38.	923.	152.
%RSD	.20316	1.7366	.88938
#1	18718.	52071.	16931.
#2	18731.	53519.	17212.
#3	18790.	53785.	16974.

Sample Name: B301068-MSD1@5 Acquired: 1/17/2013 16:21:32 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**35.51**	**17490.**	**45.22**	**213.6**	**39.69**	**4132.**	**38.61**	**55.77**	**68.65**	**58.54**	**28970.**
Stddev	.34	310.	2.61	2.8	.45	43.	.11	.21	.58	.84	367.
%RSD	.9645	1.771	5.780	1.293	1.126	1.040	.2801	.3836	.8485	1.436	1.266
#1	35.87	17130.	42.46	210.5	39.18	4082.	38.60	56.01	68.78	58.89	28550.
#2	35.47	17620.	45.54	214.9	39.87	4156.	38.72	55.62	69.16	57.58	29160.
#3	35.18	17710.	47.66	215.5	40.02	4157.	38.51	55.68	68.01	59.14	29200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2675.**	**6102.**	**981.4**	**998.9**	**62.22**	**55.35**	**37.73**	**40.60**	**41.87**	**68.43**	**104.5**
Stddev	51.	72.	8.6	33.9	.94	.90	2.45	4.86	1.90	.57	.1
%RSD	1.890	1.174	.8725	3.397	1.510	1.632	6.494	11.98	4.527	.8268	.1370
#1	2648.	6026.	984.1	972.7	61.66	56.39	35.51	41.99	44.03	68.76	104.7
#2	2645.	6114.	988.3	986.9	63.30	54.90	37.32	44.61	41.07	68.76	104.4
#3	2734.	6168.	971.8	1037.	61.69	54.77	40.36	35.19	40.50	67.78	104.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.08**	**741.1**	**44.51**	**2743.**	**2761.**	**72.03**	**38.71**
Stddev	.39	6.3	.65	88.	75.	.17	1.25
%RSD	.9911	.8527	1.467	3.224	2.732	.2349	3.218
#1	39.40	745.8	43.82	2709.	2842.	72.11	37.68
#2	39.21	733.9	45.11	2677.	2694.	72.14	38.36
#3	38.65	743.6	44.59	2844.	2747.	71.84	40.09
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18127.**	**50959.**	**15836.**
Stddev	122.	574.	254.
%RSD	.67440	1.1269	1.6015
#1	18126.	51308.	16052.
#2	18249.	50296.	15899.
#3	18004.	51272.	15557.

Sample Name: 1301023-02 Acquired: 1/17/2013 16:26:19 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.938**	**74650.**	**26.08**	**801.1**	**2.026**	**13970.**	**1.607**	**76.72**	**118.2**	**88.91**	**130100.**
Stddev	.446	787.	.87	8.9	.084	140.	.208	.34	.4	1.23	1359.
%RSD	23.02	1.054	3.330	1.107	4.162	1.003	12.92	.4484	.3805	1.387	1.044
#1	-2.434	74030.	25.08	794.1	2.098	13880.	1.776	76.63	117.7	87.69	129000.
#2	-1.570	75540.	26.66	811.1	2.048	14130.	1.375	77.10	118.4	90.15	131600.
#3	-1.810	74390.	26.50	798.0	1.934	13910.	1.671	76.43	118.5	88.90	129700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7983.**	**22240.**	**3987.**	**402.8**	**98.63**	**73.79**	**.3697**	**8.503**	**2.556**	**146.9**	**274.2**
Stddev	53.	248.	35.	61.4	1.39	2.11	2.804	.730	.764	1.3	1.4
%RSD	.6676	1.114	.8842	15.25	1.410	2.856	758.4	8.586	29.91	.8510	.5282
#1	7957.	22000.	4002.	332.2	97.33	75.39	-2.741	9.342	3.322	145.8	273.2
#2	8044.	22490.	3947.	431.5	100.1	71.40	1.148	8.154	2.552	148.3	275.9
#3	7947.	22240.	4012.	444.6	98.46	74.59	2.702	8.014	1.793	146.6	273.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.2989**	**3015.**	**33.86**	**11480.**	**12210.**	**141.6**	**-1.355**
Stddev	.2337	29.	.42	82.	375.	1.3	.715
%RSD	78.19	.9670	1.246	.7115	3.069	.9280	52.77
#1	.0519	2983.	33.44	11430.	11820.	141.3	-2.049
#2	.3283	3022.	33.85	11580.	12570.	143.1	-1.395
#3	.5164	3040.	34.29	11450.	12230.	140.6	-.6206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18894.**	**53920.**	**17191.**
Stddev	37.	597.	246.
%RSD	.19734	1.1071	1.4332
#1	18889.	54573.	17448.
#2	18860.	53786.	16956.
#3	18934.	53402.	17169.

Sample Name: 1301023-03 Acquired: 1/17/2013 16:31:14 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.173**	**26320.**	**42.78**	**1122.**	**1.046**	**200800.**	**6.569**	**26.14**	**79.39**	**480.7**
Stddev	.618	26.	3.76	8.	.347	760.	.179	.26	1.43	10.5
%RSD	28.43	.0994	8.787	.7047	33.15	.3785	2.733	1.011	1.807	2.184
#1	1.479	26320.	46.73	1127.	1.425	200400.	6.489	26.35	78.40	475.3
#2	2.380	26290.	39.24	1113.	.9672	201600.	6.443	25.84	81.03	492.7
#3	2.661	26340.	42.39	1127.	.7451	200200.	6.774	26.22	78.73	473.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Fe2599R	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**70300.**	**3924.**	**42610.**	**3016.**	**801.3**	**122.1**	F **114700.**	**15.51**	**7.946**	**2.982**
Stddev	303.	41.	113.	39.	11.2	.7	2136.	2.62	3.458	1.960
%RSD	.4313	1.032	.2651	1.290	1.402	.5786	1.862	16.88	43.52	65.70
#1	70480.	3953.	42610.	2983.	811.0	121.3	115200.	12.67	5.335	3.011
#2	69950.	3878.	42500.	3059.	803.9	122.3	112400.	17.82	11.87	1.009
#3	70460.	3942.	42730.	3007.	789.0	122.6	116500.	16.03	6.635	4.928
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit							67500.			
Low Limit							-8.000			

Elem	V_2924	Zn2062	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**114.6**	**1242.**	**7.046**	**1196.**	**36.66**	**8149.**	**8341.**	**711.2**	**68.43**
Stddev	2.0	6.	.220	19.	1.04	111.	193.	12.7	.52
%RSD	1.708	.4778	3.118	1.557	2.845	1.365	2.316	1.789	.7536
#1	113.0	1236.	7.136	1184.	36.18	8095.	8140.	702.8	67.86
#2	116.8	1242.	7.207	1218.	35.95	8277.	8360.	725.9	68.57
#3	114.0	1248.	6.796	1188.	37.86	8075.	8525.	704.9	68.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17882.**	**51174.**	**16686.**
Stddev	120.	526.	153.
%RSD	.67140	1.0271	.91772
#1	17948.	51426.	16645.
#2	17954.	50569.	16557.
#3	17743.	51525.	16855.

Sample Name: 1301023-03 @10 Acquired: 1/17/2013 16:36:24 Type: Unk
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1301023)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4829	2651.	5.009	113.1	-.1446	20670.	.3446	2.836	8.058	47.28	7227.
Stddev	.8409	42.	2.385	1.9	.3164	166.	.1429	.153	.057	.36	67.
%RSD	174.1	1.597	47.62	1.669	218.8	.8006	41.46	5.395	.7105	.7617	.9210
#1	.1773	2616.	3.165	111.3	-.0010	20530.	.2315	3.012	8.106	46.99	7155.
#2	1.434	2638.	4.159	115.1	.0746	20850.	.2972	2.759	7.994	47.69	7286.
#3	-.1625	2698.	7.703	113.1	-.5073	20630.	.5051	2.737	8.073	47.17	7240.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	369.1	4367.	314.8	-6.054	13.47	12450.	1.143	8.708	.7318	10.76	135.2
Stddev	74.8	76.	1.2	66.97	.27	28.	.508	3.047	2.017	.93	.1
%RSD	20.27	1.729	.3688	1106.	2.001	.2254	44.45	34.99	275.6	8.648	.1088
#1	389.8	4280.	315.9	43.28	13.75	12480.	.7155	5.393	-1.540	11.51	135.4
#2	431.4	4409.	313.6	-82.29	13.21	12430.	1.705	11.39	2.309	11.06	135.2
#3	286.1	4413.	314.9	20.85	13.45	12430.	1.009	9.344	1.426	9.722	135.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5182	117.9	3.879	851.4	833.6	73.46	7.952
Stddev	.5360	1.0	.966	10.6	50.7	.38	.901
%RSD	103.4	.8348	24.90	1.242	6.082	.5229	11.33
#1	1.026	118.7	2.801	861.5	884.8	73.71	8.975
#2	.5709	118.3	4.667	852.2	832.6	73.02	7.273
#3	-.0422	116.8	4.169	840.4	783.4	73.66	7.609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	18187.	51311.	15690.
Stddev	53.	253.	306.
%RSD	.29205	.49247	1.9506
#1	18126.	51100.	15868.
#2	18210.	51591.	15337.
#3	18224.	51242.	15866.

Sample Name: S301031-CCV1 Acquired: 1/17/2013 16:41:11 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**180.6**	**4868.**	**204.5**	**185.8**	**194.9**	**5244.**	**199.3**	**194.4**	**217.0**	**193.6**	**4971.**
Stddev	1.2	127.	3.1	3.8	3.6	104.	1.3	.3	1.1	1.4	101.
%RSD	.6448	2.600	1.537	2.061	1.829	1.988	.6347	.1322	.4942	.7030	2.032
#1	179.4	4734.	201.8	181.3	190.9	5125.	197.9	194.3	215.8	192.9	4856.
#2	180.7	4886.	203.8	187.8	196.1	5287.	200.1	194.2	217.9	195.1	5009.
#3	181.8	4986.	208.0	188.1	197.8	5319.	200.0	194.7	217.4	192.7	5047.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5046.**	**5131.**	**194.4**	**4336.**	**213.5**	**221.0**	**196.1**	**214.6**	**213.8**	**191.3**	**209.7**
Stddev	110.	79.	.9	103.	.2	1.2	2.0	4.4	4.5	1.0	1.2
%RSD	2.186	1.535	.4677	2.383	.0974	.5417	1.043	2.048	2.114	.5351	.5857
#1	4921.	5041.	193.5	4283.	213.3	221.6	194.0	219.3	213.8	190.3	209.6
#2	5088.	5188.	194.5	4269.	213.7	221.8	198.1	210.6	209.3	191.3	208.5
#3	5130.	5164.	195.3	4455.	213.7	219.7	196.1	213.8	218.3	192.3	211.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**204.4**	**197.8**	**191.1**	**5697.**	**5932.**	**199.3**	**206.6**
Stddev	.8	.8	1.8	40.	93.	.7	.3
%RSD	.3836	.4229	.9527	.7027	1.569	.3508	.1348
#1	205.0	197.1	189.2	5662.	5825.	198.6	206.3
#2	203.6	197.7	191.3	5741.	5975.	200.0	206.5
#3	204.7	198.7	192.8	5690.	5995.	199.4	206.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18219.**	**51656.**	**15078.**
Stddev	125.	549.	262.
%RSD	.68360	1.0628	1.7392
#1	18111.	52259.	15363.
#2	18191.	51523.	14847.
#3	18356.	51186.	15025.

Sample Name: S301031-CCB1 Acquired: 1/17/2013 16:45:54 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.0161**	**.5849**	**.8202**	**-.5149**	**-.1826**	**5.149**	**-.0643**	**-.0299**	**-.3091**	**-.7081**	**-13.78**
Stddev	.9703	31.03	3.675	.2180	.1464	1.391	.0481	.4730	.2376	.2401	7.02
%RSD	6010.	5305.	448.0	42.35	80.18	27.02	74.83	1581.	76.88	33.91	50.92
#1	-1.061	-.0087	2.915	-.4967	-.0961	4.387	-.0562	.1501	-.0517	-.5373	-6.740
#2	.1562	31.90	-3.423	-.3065	-.3515	6.754	-.1160	-.5665	-.3555	-.6044	-13.83
#3	.8565	-30.14	2.969	-.7414	-.1000	4.305	-.0208	.3267	-.5201	-.9827	-20.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-81.73**	**-12.66**	**-.1983**	**-16.94**	**.1528**	**1.262**	**-.8044**	**5.596**	**1.921**	**-1.174**	**-.5017**
Stddev	103.1	24.96	.0381	21.53	.5477	1.815	1.412	4.225	1.341	.383	.2953
%RSD	126.2	197.1	19.20	127.1	358.6	143.8	175.6	75.49	69.83	32.61	58.85
#1	-126.7	16.15	-.1553	-39.26	.7813	2.971	.3449	7.334	3.464	-1.009	-.8377
#2	-154.7	-26.68	-.2277	3.715	-.1004	1.460	-2.381	.7796	1.269	-.9006	-.3838
#3	36.25	-27.46	-.2118	-15.27	-.2226	-.6437	-.3769	8.674	1.030	-1.611	-.2836
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.3984**	**-.2600**	**-.0428**	**-.9068**	**-9.425**	**.0340**	**.5864**
Stddev	.3423	.1453	.3636	9.146	27.48	.7551	1.236
%RSD	85.92	55.89	848.8	1009.	291.6	2221.	210.9
#1	-.0501	-.1118	.3641	2.871	10.83	.0843	1.547
#2	-.7343	-.4022	-.1568	-11.34	1.599	.7627	1.021
#3	-.4107	-.2661	-.3358	5.745	-40.70	-.7450	-.8088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18219.**	**50489.**	**15278.**
Stddev	90.	1881.	364.
%RSD	.49156	3.7259	2.3819
#1	18188.	51784.	15666.
#2	18148.	51352.	15224.
#3	18320.	48331.	14944.

Sample Name: S301031-LCV3 Acquired: 1/17/2013 16:50:46 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.830**	**85.02**	**9.745**	**95.91**	**2.912**	**538.6**	**3.366**	**20.48**	**5.793**	**9.160**	**47.89**
Stddev	.082	41.56	.735	1.10	.305	11.1	.253	.12	.382	.669	9.53
%RSD	2.143	48.89	7.539	1.151	10.48	2.051	7.520	.5916	6.591	7.310	19.89
#1	3.790	47.99	9.070	94.71	2.857	526.4	3.143	20.58	5.831	8.872	55.88
#2	3.775	77.08	10.53	96.15	2.638	547.9	3.642	20.52	5.393	8.682	50.45
#3	3.924	130.0	9.637	96.87	3.241	541.6	3.314	20.35	6.154	9.925	37.35
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**470.0**	**503.5**	**4.977**	**811.2**	**21.71**	**9.819**	**20.84**	F **26.18**	**24.56**	**18.88**	**22.85**
Stddev	102.5	41.4	.062	74.8	.29	.862	4.12	4.13	1.09	.63	.29
%RSD	21.81	8.214	1.246	9.221	1.335	8.780	19.77	15.76	4.444	3.318	1.284
#1	376.5	478.9	4.907	889.1	21.42	10.05	25.03	30.66	24.17	18.57	23.19
#2	579.7	480.4	5.026	804.5	21.70	8.864	20.71	22.53	23.73	18.46	22.68
#3	453.9	551.3	4.997	740.0	22.00	10.54	16.79	25.36	25.80	19.60	22.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value								20.00			
Range								30.00%			

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.01**	**10.15**	**10.34**	**575.9**	**567.3**	**10.86**	**11.89**
Stddev	.29	.08	.38	1.0	40.1	.61	.42
%RSD	2.635	.8231	3.698	.1680	7.072	5.614	3.568
#1	10.73	10.10	10.68	576.7	543.3	11.04	12.35
#2	11.00	10.24	9.922	574.9	613.7	11.36	11.81
#3	11.31	10.10	10.41	576.3	545.1	10.19	11.51
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18135.**	**51496.**	**15185.**
Stddev	131.	636.	267.
%RSD	.72376	1.2355	1.7570
#1	17998.	51883.	15445.
#2	18260.	51842.	15198.
#3	18146.	50761.	14912.

Sample Name: S301031-LCV4 Acquired: 1/17/2013 16:55:39 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.133**	**188.6**	**18.82**	**192.7**	**5.825**	**1083.**	**6.587**	**40.76**	**11.47**	**19.84**	**94.12**
Stddev	.262	21.9	3.66	1.4	.336	5.	.129	.14	.81	.59	3.83
%RSD	2.868	11.64	19.44	.7090	5.760	.4659	1.958	.3384	7.041	2.968	4.070
#1	9.369	206.1	15.27	191.2	6.103	1077.	6.612	40.61	11.30	20.49	91.05
#2	8.851	164.0	22.58	193.0	5.452	1085.	6.447	40.88	12.35	19.67	98.41
#3	9.179	195.7	18.61	193.9	5.921	1087.	6.702	40.80	10.76	19.35	92.89
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1033.**	**1090.**	**10.07**	**1744.**	**42.81**	**16.64**	**40.20**	**48.65**	**42.61**	**38.93**	**43.50**
Stddev	46.	48.	.07	37.	.35	.89	.07	1.21	.96	.28	.22
%RSD	4.463	4.441	.7106	2.148	.8181	5.329	.1668	2.490	2.246	.7230	.4949
#1	1045.	1081.	9.989	1768.	43.04	15.78	40.28	48.32	41.58	38.75	43.42
#2	982.8	1142.	10.13	1701.	42.99	17.55	40.17	47.65	42.78	39.25	43.75
#3	1073.	1046.	10.09	1765.	42.41	16.58	40.16	50.00	43.47	38.79	43.34
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.44**	**20.48**	**19.14**	**1144.**	**1167.**	**20.79**	**22.55**
Stddev	.21	.27	1.01	2.	34.	.69	.24
%RSD	.9847	1.307	5.275	.1938	2.890	3.318	1.054
#1	21.53	20.19	19.47	1146.	1191.	20.56	22.31
#2	21.59	20.72	19.95	1145.	1181.	20.24	22.78
#3	21.19	20.54	18.01	1142.	1128.	21.56	22.55
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18682.**	**52444.**	**15137.**
Stddev	166.	440.	217.
%RSD	.88657	.83974	1.4359
#1	18696.	52910.	15362.
#2	18510.	52387.	15122.
#3	18840.	52034.	14928.

Sample Name: S301031-IFA2 Acquired: 1/17/2013 17:00:31 Type: QC
Method: PROM-2013(v4) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.139	316000.	2.697	.0849	-.6235	313100.	-.1946	-.8261	-1.338	2.386	287900.
Stddev	.616	1268.	6.036	.7482	.2493	5837.	.1225	.1313	.514	.615	3564.
%RSD	54.02	.4011	223.9	881.3	39.98	1.864	62.94	15.89	38.40	25.79	1.238
#1	1.313	317400.	-1.173	-.2733	-.3520	307900.	-.1014	-.9133	-1.832	2.459	292000.
#2	.4556	315000.	-.3899	-.4169	-.8420	312000.	-.3333	-.8900	-.8062	1.738	285800.
#3	1.649	315600.	9.652	.9449	-.6763	319400.	-.1490	-.6751	-1.376	2.962	285900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	187.1	303500.	-.1806	269600.	.6621	.0252	-1.094	7.421	6.938	-2.111	4.244
Stddev	95.5	300.	.0898	2929.	.3394	.6617	1.395	3.269	1.611	.496	.224
%RSD	51.04	.0989	49.72	1.087	51.26	2630.	127.4	44.05	23.22	23.48	5.275
#1	93.36	303800.	-.0891	266600.	.9595	-.6967	-.5051	9.708	7.317	-2.264	4.262
#2	183.7	303200.	-.1843	272500.	.2923	.1692	-.0910	8.878	8.326	-1.557	4.011
#3	284.2	303500.	-.2685	269600.	.7346	.6030	-2.687	3.677	5.171	-2.513	4.458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.977	1.396	1.910	-61.64	-31.99	2.214	4.477
Stddev	.298	.090	1.213	2.78	33.01	.267	1.090
%RSD	15.10	6.458	63.48	4.511	103.2	12.06	24.36
#1	-2.286	1.292	3.200	-58.45	-42.16	2.311	5.599
#2	-1.690	1.442	1.738	-62.92	-58.72	1.912	3.421
#3	-1.955	1.453	.7932	-63.55	4.908	2.419	4.411
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16634.	47251.	15300.
Stddev	49.	323.	86.
%RSD	.29271	.68414	.56522
#1	16632.	47623.	15387.
#2	16684.	47085.	15214.
#3	16587.	47044.	15298.

SOP-G-23 PERCENT SOLIDS/MOISTURE Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Page # : 143

Oven#: D-92

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:
(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)
A. For Organic analyses, except VOA,: decant any standing water.
(B.) For other analyses: mix the sample thoroughly.

Name of Survey(s): Jewett white
Work Order Number: 1301023

Date placed in oven at 103-105degC: 1/17/2013 Time: 2:40 (AM)/PM

Date removed from oven at 103-105degC: 1/18/2013 Time: 7:15 (AM)/PM

SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1301023-01	1.1751	9.8963	9.5561	96.10%	3.90%	
1301023-01 Dup	1.1814	10.1671	9.8140	96.07%	3.93%	
1301023-02	1.1838	10.5975	10.2189	95.98%	4.02%	
1301023-03	1.1725	10.2945	9.8403	95.02%	4.98%	
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			Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
					RPD<20%	RPD<20%
			96.08%	3.92%	0.03%	0.73%

*Duplicate Must Be From First Sample Entered on the List for Correct RPD

PERCENT = SOLIDS	C - A / B - A	(*100)	PERCENT = MOISTURE	B - C / B - A	(*100)

Analyst RR /LEB

Validated By/Date: MS 1/18/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301023

Printed: 1/17/2013 3:31:05PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/18/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due:	01/18/2013 00:00 (1 day TAT)	Tracking No:	
Received By:	Michelle Schwartz	Date Received:	01/17/2013 14:00
Logged In By:	Michelle Schwartz	Date Logged In:	01/17/2013 14:04

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Cooler at Temp of 10 C

Analysis	Analysis Due Date	Hold Time
1301023-01 S-039-7884-001 [Solid] Sampled 01/17/2013 08:27 Eastern [1 Container]		
E-Lead ICP	7/16/2013 12:00:00AM	180
1301023-02 S-039-7884-002 [Solid] Sampled 01/17/2013 08:27 Eastern [1 Container]		
E-Lead ICP	7/16/2013 12:00:00AM	180
1301023-03 S-040-1824-001 [Solid] Sampled 01/17/2013 08:25 Eastern [1 Container]		
E-Lead ICP	7/16/2013 12:00:00AM	180

Reviewed By

Date

USEPA Contract No. EP-W-06-072
Hand delivered: 1/17/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-011713-110545-0030
DESA
John Birri
732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301023-01	S-039-7884-001	S-039	1/17/2013	Soil	08:27	1	4 oz glass jar	Lead	4 C	Y
-02	S-039-7884-002	S-039	1/17/2013	Soil	08:27	1	4 oz glass jar	Lead	4 C	N
-03	S-040-1824-001	S-040	1/17/2013	Soil	08:25	1	4 oz glass jar	Lead	4 C	N

Q. M. 1/17/13

Special Instructions: Please note sample S-040-1824-001 had a screening greater than 13K ppm Pb.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all Sampled	A. Mallon	1/17/13	Mitchell Schwartz	1/17/13	1400						

Cooler @ 9.8°C - hand delivered on ice

Jewett White Lead

W.O.# 1301027

P/N# 1212042

Alion Science & Technology
EPA Region 2 ESAT
2890 Woodbridge Ave, Edison,
NJ 08837

January 22, 2013

Mr. Ness Tirol
EPA Task Order Project Officer
U.S. EPA Region II
2890 Woodbridge Avenue
Building 209
Edison, NJ 08837

RE: Jewett White Lead, P-1212042 (W.O. 1301027)
Contract: EP-W-07-083
Task Order: 037
DC# 0237-102-0119
TDF: 13-0013

Dear Mr. Tirol:

Please find enclosed the results and supporting data of Lead analysis of eight (8) soil samples.

Note: This is a partial report.

If you have any questions or comments, please contact me.

Respectfully submitted,
ALION

John Johnson
Program Manager
Region II ESAT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301080

Jewett White Lead - 1212042
1301027

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/21/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/21/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/21/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/21/2013
ICB < Reporting Limit?	YES	RR	01/21/2013
RL Low Level recovery ±30%?	YES	RR	01/21/2013
2RL Low Level Recovery ±30%?	YES	RR	01/21/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/21/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/21/2013
CCBs < Reporting Limit?	YES	RR	01/21/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/21/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/21/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301080

Jewett White Lead - 1212042
1301027

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

			Analyst Initials	Date
Blank data				
Prep Blank < Reporting Limit?	YES	*	RR	01/21/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		RR	01/21/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	RR	01/21/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	RR	01/21/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	RR	01/21/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		RR	01/21/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	RR	01/21/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		RR	01/21/2013
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	RR	01/21/2013
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	NO		RR	01/21/2013
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		RR	01/21/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301080

Jewett White Lead - 1212042
1301027

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA	RR	01/21/2013
Percent Solids Log Book info entries completed?	YES	RR	01/21/2013
pH Log Book Log Book info entries completed?	NA	RR	01/21/2013

Final Review		Analyst Initials	Date
Example calculation present and correct?	YES *	RR	01/21/2013
Example calculation for the project present in package for W.O. 1301023			
Peer reviewed? Date and person responsible.	YES *	LEB	01/22/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301080

Prepared by: RR
Prepared on: 01/21/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 R

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301027-01	N/A	25B	Yes	0.557	50					
	1301027-02	N/A	25B	Yes	0.5419	50					
	1301027-03	N/A	25B	Yes	0.5495	50					
	1301027-04	N/A	25B	Yes	0.5548	50					
	1301027-05	N/A	25B	Yes	0.5338	50					
	1301027-06	N/A	25B	Yes	0.5265	50					
	1301027-07	N/A	25B	Yes	0.5423	50					
	1301027-08	N/A	25B	Yes	0.543	50					
	B301080-BLK1	N/A	25B	Yes	0.5061	50		0		0	
	B301080-MS1	N/A	25B	Yes	0.556	50	D2L0305	200	D2L0306	200	1301027-01
	B301080-MSD1	N/A	25B	Yes	0.556	50	D2L0305	200	D2L0306	200	1301027-01
	B301080-SRM1	N/A	25B	Yes	0.5022	50	D2H1612	502.2		0	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301080

Prepared by: RR
Prepared on: 01/21/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 R

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID		Balance		Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
	B301080-SRM2	N/A	25B	Yes	0.5015	50	D2H1612	501.5		0	

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301035

Instrument: Thermo iTEVA

Printed: 1/21/2013 3:55:27PM

Project Name	Lab Number	Analysis	STD ID
	S301035-CAL1	QC	D3A1531
	S301035-CAL2	QC	D2K1202
	S301035-CAL3	QC	D2K1203
	S301035-ICV1	QC	D2K1204
	S301035-ICB1	QC	D3A1531
	S301035-LCV1	QC	D2K1206
	S301035-LCV2	QC	D2K1207
	S301035-IFA1	QC	D2K1208
	B301080-BLK1	QC	
	B301080-SRM1	QC	
	B301080-SRM2	QC	
Jewett White Lead - 1212042	1301027-01	E-Lead ICP	
	B301080-MS1	QC	
	B301080-MSD1	QC	
Jewett White Lead - 1212042	1301027-02	E-Lead ICP	
Jewett White Lead - 1212042	1301027-03	E-Lead ICP	
Jewett White Lead - 1212042	1301027-04	E-Lead ICP	
Jewett White Lead - 1212042	1301027-05	E-Lead ICP	
	S301035-CCV1	QC	D2K1204
	S301035-CCB1	QC	D3A1531
Jewett White Lead - 1212042	1301027-06	E-Lead ICP	
Jewett White Lead - 1212042	1301027-07	E-Lead ICP	
Jewett White Lead - 1212042	1301027-08	E-Lead ICP	
	S301035-CCV2	QC	D2K1204
	S301035-CCB2	QC	D3A1531
	S301035-LCV3	QC	D2K1206
	S301035-LCV4	QC	D2K1207
	S301035-IFA2	QC	D2K1208

	Pos ID	Type	Samplename	Comment	Instrument	Method	CorrFact	Check	Check Table	Fail Action
1	1	QC	B301080-BLK1		ICAP6300	SOP-C-109	1	☒	PBS	None
2	2	QC	B301080-SRM1		ICAP6300	SOP-C-109	1	☒	LCSS	None
3	3	QC	B301080-SRM2		ICAP6300	SOP-C-109	1	☒	LCSS	None
4	4	Unk	1301027-01	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301080-MS1	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301080-MSD1@5	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301027-02	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
8	8	Unk	1301027-03	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
9	9	Unk	1301027-04	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
10	10	Unk	1301027-05	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
11	11	Unk	1301027-06	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
12	12	Unk	1301027-07	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---
13	13	Unk	1301027-08	JEWETT WHITE (1212042)	ICAP6300	SOP-C-109	1	☒	LDR	---

SUMMARY - VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301035-ICV1	S301035-ICB1	S301035-LCV1	S301035-LCV2	S301035-IFA1
	21 Jan 2013 14:24:02	21 Jan 2013 14:28:55	21 Jan 2013 14:33:48	21 Jan 2013 14:39:22	21 Jan 2013 14:44:07	21 Jan 2013 14:49:00	21 Jan 2013 14:53:53	21 Jan 2013 14:58:46
Ag3280	.0002	.3699	.7098	203.5	-.0861	6.173	11.55	.7936
Al3961R	.0017	.1365	.2640	4761.	-59.80	F 58.65	146.8	313700.
As1890	.0001	.2392	.4756	196.9	-.4632	9.117	16.96	2.521
B_2089	.0005	.9999	1.982	205.4	2.330	11.14	21.69	2.728
Ba4554R	.0086	10.89	21.00	196.4	.2995	103.0	207.1	.2799
Be3131R	.0004	11.19	21.59	198.4	.2325	3.190	6.231	-.3970
Ca3179R	.0089	.6845	1.325	5022.	-6.535	520.9	1051.	299400.
Cd2265	.0009	8.100	15.59	207.2	.0767	3.146	6.644	-.4445
Co2286	.0001	3.313	6.559	195.8	.2784	20.75	41.61	-.9761
Cr2677	.0001	3.064	5.721	214.3	.1104	5.270	11.49	-1.955
Cu3247	.0114	4.555	8.537	203.4	.2856	10.82	22.60	5.163
Fe2599R	.0015	.4019	.7782	5053.	-10.18	48.38	95.52	296300.
K_7664R	.0074	.1416	.2677	5000.	-17.26	527.0	1106.	102.8
Mg2790R	.0005	.0892	.1731	5043.	1.366	526.8	1056.	302900.
Mn2576	.0013	18.20	34.39	215.3	.0439	5.576	11.27	-.1010
Mo2020	.0003	1.851	3.659	198.8	-.1907	10.22	20.46	-3.277
Na5895R	-.0040	.1821	.3580	5069.	-24.74	1033.	1984.	264700.
Ni2316	.0000	1.615	3.188	199.8	.6238	20.79	41.41	2.225
Pb2203	**.0001**	**.8010**	**1.588**	**199.1**	**.2215**	**8.907**	**16.70**	**.7206**
Sb2068	.0001	.3506	.6965	201.3	2.789	21.24	42.71	-2.272
Se1960	.0001	.2141	.4232	199.7	-1.608	23.27	43.26	.9402
Si2881A	.0059	.5730	1.089	5196.	1.266	531.7	1071.	-21.20
Si2881R	.0009	.1217	.2364	5005.	-7.944	510.8	1026.	1.714
Sn1899	.0002	.5360	1.053	188.5	.5269	10.07	20.84	1.892
Sr3464	-.0005	3.171	6.135	205.1	-.0995	11.30	22.53	1.550
Ti3372	-.0004	10.81	20.62	208.9	.0120	10.95	21.99	1.235
Tl1908	.0000	.2952	.5844	201.1	3.526	21.34	43.15	5.296
V_2924	-.0008	3.511	6.803	208.1	-.5061	21.25	43.78	-1.998
Y_2243-A	16098.	16055.	15828.	16212.	16685.	16374.	16450.	14909.
Y_3203-A	44182.	45276.	45861.	44947.	45875.	45082.	45325.	40539.
Y_3600-R	21433.	20382.	20584.	20642.	21609.	20846.	20575.	20000.
Zn2062	.0006	5.113	10.09	195.2	.4361	21.54	41.39	3.539

SUMMARY - VERTICAL REPORT

	B301080-BLK1	B301080-SRM1	B301080-SRM2	1301027-01	B301080-MS1	B301080-MSD1@5	1301027-02	1301027-03
	21 Jan 2013 15:03:53	21 Jan 2013 15:08:45	21 Jan 2013 15:13:35	21 Jan 2013 15:18:25	21 Jan 2013 15:23:30	21 Jan 2013 15:28:29	21 Jan 2013 15:33:16	21 Jan 2013 15:38:21
Ag3280	.0870	431.5	392.7	-1.535	202.4	41.90	-1.252	-1.344
Al3961R	-49.41	91720.	84960.	71220.	75440.	15650.	68320.	77010.
As1890	-.3592	1713.	1633.	71.34	260.6	55.68	69.51	62.84
B_2089	.3783	878.9	815.6	37.85	225.6	46.56	37.02	27.82
Ba4554R	-.0421	2069.	2053.	331.5	509.1	106.7	301.6	322.0
Be3131R	-.0517	1095.	1078.	3.026	205.3	41.99	2.999	3.604
Ca3179R	-7.282	69380.	66290.	61650.	62240.	12940.	58040.	13340.
Cd2265	-.2535	1092.	987.6	.0253	201.5	42.31	.3812	.6179
Co2286	-.0707	1363.	1276.	61.21	252.8	53.27	55.06	69.39
Cr2677	-.1058	1309.	1167.	127.9	337.9	71.66	128.7	158.8
Cu3247	.4175	1282.	1131.	162.7	366.0	77.59	154.9	216.9
Fe2599R	-13.96	138900.	137100.	186100.	184500.	39650.	173300.	189500.
K_7664R	95.34	30490.	29790.	7750.	12840.	2788.	7395.	10950.
Mg2790R	-10.21	27420.	26810.	18890.	23660.	5017.	18110.	33390.
Mn2576	-.2866	3663.	3260.	2662.	2561.	547.4	2231.	4479.
Mo2020	-.5870	670.8	644.4	1.857	194.8	39.57	1.299	2.432
Na5895R	64.44	3420.	3281.	332.8	5510.	1048.	299.8	429.3
Ni2316	.0928	739.7	682.8	104.0	298.8	62.81	101.3	134.1
Pb2203	**-.0148**	**753.5**	**725.4**	**237.6**	**455.0**	**97.01**	**215.6**	**2339.**
Sb2068	.1610	1861.	2109.	9.683	211.0	46.75	9.967	2.724
Se1960	1.153	1400.	1218.	3.295	190.5	46.24	.6656	-.3511
Si2881A	58.35	15510.	5565.	6885.	6165.	1601.	5320.	4393.
Si2881R	47.08	15260.	5914.	6607.	6043.	1571.	5180.	4378.
Sn1899	.1278	1415.	1438.	3.493	186.5	39.19	1.570	-.3466
Sr3464	.7755	1366.	1218.	287.0	469.7	99.33	270.6	112.8
Ti3372	1.049	2660.	2189.	1858.	2064.	442.3	1727.	4613.
Tl1908	-.1588	2057.	1974.	1.821	189.4	41.97	1.096	2.855
V_2924	-.4062	949.7	850.1	233.8	433.5	91.41	226.5	259.6
Y_2243-A	16367.	16651.	16627.	16842.	16803.	16465.	16712.	17377.
Y_3203-A	45397.	46781.	48451.	46105.	45935.	44777.	46288.	47970.
Y_3600-R	20895.	21610.	21133.	20674.	20870.	19935.	20849.	21072.
Zn2062	-.3977	2830.	2655.	287.7	478.4	102.4	284.8	464.6

SUMMARY - VERTICAL REPORT

	1301027-04	1301027-05	S301035-CCV1	S301035-CCB1	1301027-06	1301027-07	1301027-08
	21 Jan 2013 15:43:33	21 Jan 2013 15:48:34	21 Jan 2013 15:53:37	21 Jan 2013 15:58:20	21 Jan 2013 16:03:12	21 Jan 2013 16:08:14	21 Jan 2013 16:13:18
Ag3280	.1354	-.3380	205.6	.1596	-1.701	-1.402	-1.686
Al3961R	90200.	69240.	4823.	-84.46	63990.	67420.	47800.
As1890	108.4	97.43	203.4	-.4760	36.12	55.51	12.49
B_2089	34.66	36.68	197.8	-1.403	37.27	27.47	16.73
Ba4554R	1076.	643.9	199.3	.0351	142.3	362.5	367.0
Be3131R	4.098	2.938	195.0	-.0328	2.722	1.780	.4866
Ca3179R	18870.	26310.	5099.	-16.36	9330.	10360.	6219.
Cd2265	9.508	.1055	214.9	-.3800	-.4400	.4792	-.0832
Co2286	66.41	59.20	199.4	-.3089	54.70	56.77	38.51
Cr2677	164.3	125.5	222.9	-.7941	103.5	121.0	82.46
Cu3247	529.5	112.0	203.3	.4933	74.90	89.92	65.94
Fe2599R	200600.	204600.	5177.	-10.06	150900.	156300.	103200.
K_7664R	8619.	6873.	5231.	120.6	7167.	6137.	5199.
Mg2790R	18970.	21300.	5183.	17.29	20830.	21920.	19410.
Mn2576	3649.	1941.	221.3	-.2273	2203.	2488.	936.4
Mo2020	3.184	1.096	198.1	-.8218	.4957	.1547	-1.563
Na5895R	999.6	201.0	5067.	-169.0	110.1	94.61	227.3
Ni2316	194.8	100.1	202.7	-.6982	96.13	102.2	85.37
Pb2203	**9031.**	**607.8**	**207.5**	**1.815**	**72.50**	**428.8**	**87.07**
Sb2068	8.817	3.363	207.0	2.310	1.904	1.462	4.995
Se1960	1.351	.8495	205.6	.3790	2.335	2.934	2.973
Si2881A	5348.	5232.	5352.	2.797	5278.	7114.	4034.
Si2881R	5184.	5159.	5033.	21.17	5219.	7006.	3884.
Sn1899	42.40	2.859	193.3	.2672	-.0532	1.623	-.8603
Sr3464	162.6	226.8	211.8	-.1092	104.1	115.1	72.41
Ti3372	1654.	1590.	211.1	-.4686	1646.	1430.	1490.
Tl1908	3.874	1.034	199.8	2.446	2.624	1.644	1.207
V_2924	259.3	219.6	211.9	-.6424	182.2	170.6	93.38
Y_2243-A	17588.	17209.	16618.	16893.	17533.	17203.	17269.
Y_3203-A	48019.	46633.	44599.	45012.	47670.	46387.	46435.
Y_3600-R	21144.	20584.	19126.	19786.	20041.	19980.	19899.
Zn2062	3920.	311.0	206.0	-.9654	283.0	305.2	244.1

SUMMARY - VERTICAL REPORT

	S301035-CCV2	S301035-CCB2	S301035-LCV3	S301035-LCV4	S301035-IFA2
	21 Jan 2013 16:18:05	21 Jan 2013 16:22:48	21 Jan 2013 16:27:40	21 Jan 2013 16:32:32	21 Jan 2013 16:37:25
Ag3280	206.9	.5906	5.615	11.47	.5580
Al3961R	4824.	-67.15	F 10.67	162.6	315900.
As1890	202.8	-1.650	8.662	18.41	-1.462
B_2089	196.2	-1.923	9.746	19.99	1.518
Ba4554R	198.1	-.1103	103.4	207.9	.6408
Be3131R	192.3	.0155	3.396	6.131	-.3047
Ca3179R	5076.	-15.55	523.5	1061.	308500.
Cd2265	215.0	-.3377	3.086	6.780	-1.298
Co2286	198.7	-.0803	20.68	42.07	-.9050
Cr2677	223.1	-.4689	5.610	11.54	-2.053
Cu3247	203.2	.3261	11.07	22.45	4.019
Fe2599R	5135.	-16.96	47.89	93.99	300500.
K_7664R	5187.	110.1	620.7	1183.	197.5
Mg2790R	5118.	-2.875	557.9	1074.	306600.
Mn2576	223.0	-.4065	5.741	11.64	-.3008
Mo2020	196.0	-1.147	9.720	20.46	-3.121
Na5895R	5061.	-176.9	943.3	2053.	269700.
Ni2316	203.3	-.7125	20.68	41.26	1.897
Pb2203	**206.4**	**.8214**	**9.660**	**17.04**	**-2.920**
Sb2068	202.7	-.0772	23.98	44.93	-.1539
Se1960	205.4	2.511	18.48	46.37	4.491
Si2881A	5374.	.1582	541.0	1095.	-29.85
Si2881R	5021.	-4.259	509.1	1032.	12.10
Sn1899	192.7	-.3884	10.37	21.87	2.321
Sr3464	212.3	.0706	11.55	22.64	2.353
Ti3372	211.2	-.4132	10.91	21.92	1.172
Tl1908	198.6	3.767	22.23	41.83	5.018
V_2924	212.7	-.2672	20.92	42.79	-2.195
Y_2243-A	16802.	16976.	16866.	16966.	15591.
Y_3203-A	44827.	46088.	45351.	45822.	40658.
Y_3600-R	19006.	19796.	18881.	18625.	18117.
Zn2062	206.5	-.5904	22.32	43.74	3.892

Sample Name: Blank Acquired: 1/21/2013 14:24:02 Type: Cal
Method: PROM-2013(v6) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**.0017**	**.0001**	**.0086**	**.0004**	**.0089**	**.0009**	**.0001**	**.0001**	**.0114**	**.0015**
Stddev	.0010	.0014	.0001	.0005	.0002	.0006	.0003	.0000	.0001	.0004	.0002
%RSD	478.9	78.16	187.3	5.925	55.93	6.320	28.99	52.08	81.24	3.289	12.15
#1	-.0006	.0002	.0000	.0092	.0007	.0089	.0006	.0000	.0001	.0110	.0015
#2	-.0001	.0025	.0000	.0083	.0002	.0083	.0008	.0000	.0000	.0115	.0017
#3	.0013	.0026	.0002	.0083	.0004	.0094	.0011	.0001	.0001	.0118	.0013

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0074**	**.0005**	**.0013**	**-.0040**	**.0000**	**.0001**	**.0001**	**.0001**	**.0000**	**-.0008**	**.0006**
Stddev	.0012	.0002	.0001	.0011	.0001	.0001	.0001	.0001	.000	.0000	.0001
%RSD	15.72	32.11	7.708	28.02	1481.	97.07	116.2	55.12	38.06	5.088	20.44
#1	.0079	.0006	.0012	-.0030	-.0001	.0001	.0002	.0001	-.0001	-.0007	.0006
#2	.0060	.0005	.0014	-.0052	.0001	.0000	.0000	.0001	.0000	-.0008	.0004
#3	.0081	.0003	.0012	-.0037	.0000	.0003	.0001	.0002	-.0001	-.0008	.0006

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0003**	**-.0004**	**.0005**	**.0059**	**.0009**	**-.0005**	**.0002**
Stddev	.0001	.0002	.0002	.0001	.0004	.0002	.0001
%RSD	29.93	40.03	39.73	1.335	40.23	44.47	52.17
#1	.0004	-.0006	.0003	.0059	.0013	-.0003	.0001
#2	.0002	-.0004	.0005	.0059	.0008	-.0005	.0002
#3	.0003	-.0003	.0007	.0058	.0006	-.0008	.0003

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16098.**	**44182.**	**21433.**
Stddev	70.	373.	292.
%RSD	.43504	.84337	1.3646
#1	16171.	44318.	21594.
#2	16032.	43760.	21610.
#3	16091.	44467.	21096.

Sample Name: MID STD Acquired: 1/21/2013 14:28:55 Type: Cal
Method: PROM-2013(v6) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3699**	**.1365**	**.2392**	**10.89**	**11.19**	**.6845**	**8.100**	**3.313**	**3.064**	**4.555**	**.4019**
Stddev	.0027	.0002	.0003	.03	.05	.0068	.003	.002	.031	.048	.0010
%RSD	.7287	.1712	.1251	.2875	.4706	.9912	.0343	.0474	1.020	1.050	.2467
#1	.3722	.1363	.2390	10.93	11.19	.6817	8.102	3.312	3.100	4.610	.4016
#2	.3706	.1363	.2390	10.89	11.24	.6923	8.097	3.313	3.045	4.525	.4030
#3	.3670	.1367	.2395	10.87	11.13	.6796	8.102	3.315	3.046	4.531	.4011

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1416**	**.0892**	**18.20**	**.1821**	**1.615**	**.8041**	**.3506**	**.2141**	**.2952**	**3.511**	**5.113**
Stddev	.0020	.0009	.36	.0016	.005	.0027	.0008	.0008	.0012	.022	.006
%RSD	1.380	.9888	1.984	.8874	.2931	.3375	.2409	.3702	.3938	.6281	.1167
#1	.1424	.0901	18.62	.1802	1.610	.8011	.3500	.2140	.2965	3.527	5.107
#2	.1394	.0891	17.95	.1831	1.617	.8052	.3516	.2134	.2946	3.521	5.117
#3	.1430	.0883	18.05	.1829	1.619	.8062	.3503	.2150	.2944	3.486	5.117

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.851**	**10.81**	**.9999**	**.5730**	**.1217**	**3.171**	**.5360**
Stddev	.004	.14	.0023	.0061	.0010	.023	.0011
%RSD	.2270	1.308	.2301	1.064	.8487	.7237	.2118
#1	1.846	10.74	.9974	.5797	.1223	3.194	.5350
#2	1.855	10.98	1.000	.5715	.1223	3.171	.5358
#3	1.852	10.72	1.002	.5679	.1205	3.148	.5372

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16055.**	**45276.**	**20382.**
Stddev	147.	508.	213.
%RSD	.91458	1.1214	1.0450
#1	15906.	44750.	20270.
#2	16060.	45315.	20248.
#3	16199.	45764.	20628.

Sample Name: HIGH STD Acquired: 1/21/2013 14:33:46 Type: Cal
Method: PROM-2013(v6) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.7098**	**.2640**	**.4756**	**21.00**	**21.59**	**1.325**	**15.59**	**6.559**	**5.721**	**8.537**	**.7782**
Stddev	.0151	.0021	.0159	.58	.23	.014	.46	.222	.231	.153	.0091
%RSD	2.121	.7979	3.337	2.769	1.084	1.020	2.942	3.382	4.030	1.790	1.174
#1	.7080	.2657	.4767	20.98	21.57	1.336	15.52	6.592	5.748	8.594	.7839
#2	.6957	.2617	.4592	20.43	21.37	1.310	15.17	6.322	5.478	8.364	.7677
#3	.7256	.2647	.4909	21.59	21.84	1.327	16.08	6.762	5.937	8.653	.7830

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2677**	**.1731**	**34.39**	**.3580**	**3.188**	**1.588**	**.6965**	**.4232**	**.5844**	**6.803**	**10.09**
Stddev	.0039	.0020	.54	.0063	.114	.056	.0225	.0135	.0189	.151	.36
%RSD	1.463	1.132	1.560	1.764	3.577	3.537	3.232	3.196	3.226	2.217	3.608
#1	.2701	.1734	34.68	.3642	3.198	1.590	.7007	.4235	.5849	6.779	10.09
#2	.2632	.1711	33.77	.3516	3.069	1.531	.6721	.4095	.5653	6.665	9.732
#3	.2699	.1749	34.71	.3583	3.296	1.643	.7166	.4365	.6030	6.964	10.46

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.659**	**20.62**	**1.982**	**1.089**	**.2364**	**6.135**	**1.053**
Stddev	.124	.18	.059	.017	.0016	.115	.038
%RSD	3.374	.8497	2.998	1.575	.6705	1.872	3.605
#1	3.676	20.63	1.991	1.089	.2369	6.116	1.055
#2	3.528	20.43	1.918	1.072	.2346	6.030	1.013
#3	3.773	20.78	2.036	1.106	.2376	6.258	1.089

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15828.**	**45861.**	**20584.**
Stddev	452.	568.	271.
%RSD	2.8587	1.2379	1.3178
#1	15751.	45648.	20877.
#2	16314.	46504.	20532.
#3	15419.	45430.	20342.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000212	0.000718	0.000000	1.000000	0.999808	0.759982	2.279945	7.599816
Al 396.152 { 85}2	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.001733	0.000025	0.000000	1.000000	0.999918	1.630499	4.891497	16.304990
As 189.042 {478}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000064	0.000048	0.000000	1.000000	0.999997	0.321807	0.965422	3.218074
Ba 455.403 { 74}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.008724	0.002125	0.000000	1.000000	0.999852	2.105855	6.317566	21.058552
Be 313.107 {108}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000551	0.002185	0.000000	1.000000	0.999860	2.048635	6.145906	20.486353
Ca 317.933 {106}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.008888	0.000133	0.000000	1.000000	0.999920	1.549928	4.649785	15.499283
Cd 226.502 {449}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000967	0.001593	0.000000	1.000000	0.999835	2.203264	6.609791	22.032637
Co 228.616 {447}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000069	0.000659	0.000000	1.000000	0.999988	0.595363	1.786089	5.953632
Cr 267.716 {126}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000139	0.000586	0.000000	1.000000	0.999465	4.006442	12.019325	40.064417
Cu 324.754 {104}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.011544	0.000871	0.000000	1.000000	0.999538	3.725642	11.176927	37.256423
Fe 259.940 {130}2	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.001526	0.000078	0.000000	1.000000	0.999895	1.772397	5.317191	17.723969
K 766.490 { 44}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.007358	0.000026	0.000000	1.000000	0.999895	1.775965	5.327896	17.759655
Mg 279.079 {121}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000480	0.000017	0.000000	1.000000	0.999918	1.564510	4.693531	15.645104
Mn 257.610 {131}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.001592	0.003506	0.000000	1.000000	0.999630	3.331670	9.995010	33.316699
Na 589.592 { 57}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	-0.003959	0.000037	0.000000	1.000000	0.999915	1.593190	4.779570	15.931901
Ni 231.604 {445}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000015	0.000320	0.000000	1.000000	0.999980	0.772573	2.317718	7.725727
Pb 220.353 {453}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000138	0.000164	0.000000	1.000000	0.999982	0.705870	2.117609	7.058697
Sb 206.833 {463}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000072	0.000070	0.000000	1.000000	0.999995	0.391976	1.175927	3.919756
Se 196.090 {472}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000150	0.000042	0.000000	1.000000	0.999985	0.673618	2.020853	6.736177
Tl 190.856 {477}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	-0.000049	0.000059	0.000000	1.000000	0.999988	0.592396	1.777187	5.923957
V 292.402 {115}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	-0.000726	0.000689	0.000000	1.000000	0.999885	1.850224	5.550671	18.502237
Zn 206.200 {463}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000572	0.001015	0.000000	1.000000	0.999981	0.748069	2.244207	7.480689
Mo 202.030 {467}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000303	0.000367	0.000000	1.000000	0.999985	0.670903	2.012710	6.709035
Ti 337.280 {100}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	-0.000243	0.002096	0.000000	1.000000	0.999741	2.783843	8.351530	27.838435
B 208.959 {461}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000506	0.000189	0.000000	1.000000	0.999991	0.540415	1.621246	5.404152
Si 288.158 {117}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.005892	0.000110	0.000000	1.000000	0.999761	2.686963	8.060890	26.869632
Si 288.158 {117}2	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000917	0.000024	0.000000	1.000000	0.999928	1.477843	4.433530	14.778434
Sr 346.446 { 97}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	-0.000505	0.000621	0.000000	1.000000	0.999876	1.927759	5.783276	19.277585
Sn 189.989 {477}	1/21/2013 14:39:17	1/21/2013 14:39:17	Linear	1/Conc	0.000225	0.000106	0.000000	1.000000	0.999963	1.052523	3.157569	10.525229
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301035-ICV1 Acquired: 1/21/2013 14:39:22 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**203.5**	**4761.**	**196.9**	**196.4**	**198.4**	**5022.**	**207.2**	**195.8**	**214.3**	**203.4**	**5053.**
Stddev	3.2	40.	3.2	3.3	3.1	68.	3.6	4.4	2.1	2.6	78.
%RSD	1.563	.8385	1.633	1.699	1.583	1.356	1.718	2.234	.9788	1.293	1.544
#1	200.2	4719.	193.9	192.7	195.0	4947.	204.5	192.4	212.4	200.8	4964.
#2	203.6	4768.	196.7	197.4	199.0	5037.	206.0	194.2	213.9	203.2	5085.
#3	206.6	4797.	200.3	199.1	201.2	5081.	211.2	200.7	216.5	206.0	5110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5000.**	**5043.**	**215.3**	**5069.**	**199.8**	**199.1**	**201.3**	**199.7**	**201.1**	**208.1**	**195.2**
Stddev	119.	100.	2.7	128.	4.4	5.3	3.8	.7	5.3	3.0	3.3
%RSD	2.384	1.980	1.272	2.523	2.192	2.649	1.889	.3478	2.646	1.425	1.691
#1	4864.	4937.	212.9	4922.	196.5	197.4	197.0	198.9	199.2	205.0	192.9
#2	5049.	5058.	214.6	5153.	198.2	194.9	202.8	199.7	196.9	208.2	193.7
#3	5087.	5135.	218.3	5132.	204.8	205.0	204.2	200.3	207.1	211.0	199.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**198.8**	**208.9**	**205.4**	**5196.**	**5005.**	**205.1**	**188.5**
Stddev	4.2	2.1	2.3	63.	51.	2.6	3.6
%RSD	2.088	1.023	1.096	1.208	1.022	1.262	1.887
#1	195.8	206.7	203.8	5139.	4951.	202.8	186.1
#2	197.1	209.2	204.3	5185.	5009.	204.5	186.9
#3	203.6	211.0	207.9	5263.	5053.	207.9	192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16212.**	**44947.**	**20642.**
Stddev	142.	280.	101.
%RSD	.87285	.62329	.49167
#1	16323.	45141.	20622.
#2	16261.	44626.	20552.
#3	16053.	45074.	20752.

Sample Name: S301035-ICB1 Acquired: 1/21/2013 14:44:07 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0861	-59.80	-.4632	.2995	.2325	-6.535	.0767	.2784	.1104	.2856	-10.18
Stddev	.3597	12.96	2.442	.4095	.1950	4.484	.1629	.1585	.4814	.6351	4.04
%RSD	417.9	21.67	527.3	136.7	83.85	68.62	212.2	56.94	436.2	222.4	39.72
#1	.2865	-46.17	-2.743	.4139	.1247	-3.305	.1784	.3656	-.4351	-.4403	-6.357
#2	-.1132	-61.28	2.114	-.1550	.4576	-11.65	-.1111	.0954	.2906	.5581	-14.41
#3	-.4315	-71.96	-.7605	.6397	.1152	-4.645	.1629	.3742	.4757	.7389	-9.766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-17.26	1.366	.0439	-24.74	.6238	.2215	2.789	-1.608	3.526	-.5061	.4361
Stddev	96.42	21.12	.0572	23.97	.2812	.2465	1.246	3.132	2.773	.3007	.1439
%RSD	558.7	1546.	130.3	96.89	45.08	111.3	44.68	194.8	78.64	59.43	32.99
#1	92.56	25.57	-.0221	-44.93	.3101	.2564	2.449	-1.167	6.726	-.7725	.3724
#2	-56.32	-13.34	.0738	1.750	.8532	-.0406	1.747	-4.937	2.035	-.1800	.6008
#3	-88.01	-8.132	.0801	-31.03	.7081	.4487	4.169	1.281	1.818	-.5657	.3351
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1907	.0120	2.330	1.266	-7.944	-.0995	.5269
Stddev	.3202	.4110	1.791	4.561	.887	.5220	.5343
%RSD	167.9	3438.	76.87	360.2	11.17	524.6	101.4
#1	-.5530	-.4579	3.826	-2.332	-8.876	-.6586	.4070
#2	-.0738	.1890	2.818	6.395	-7.848	-.0151	1.111
#3	.0546	.3048	.3452	-.2649	-7.109	.3752	.0627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16685.	45875.	21609.
Stddev	548.	656.	819.
%RSD	3.2817	1.4308	3.7892
#1	17316.	46586.	21962.
#2	16408.	45747.	22192.
#3	16332.	45293.	20673.

Sample Name: S301035-LCV1 Acquired: 1/21/2013 14:49:00 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6.173**	F **58.65**	**9.117**	**103.0**	**3.190**	**520.9**	**3.146**	**20.75**	**5.270**	**10.82**	**48.38**
Stddev	.168	12.00	.890	1.1	.081	4.8	.020	.47	.362	.49	.40
%RSD	2.720	20.45	9.766	1.039	2.533	.9227	.6362	2.247	6.871	4.505	.8231
#1	5.980	69.27	10.12	101.8	3.125	519.9	3.169	20.27	5.688	11.06	48.03
#2	6.257	61.03	8.791	103.5	3.280	516.7	3.131	21.20	5.064	11.13	48.82
#3	6.283	45.64	8.436	103.8	3.164	526.1	3.138	20.78	5.058	10.26	48.30
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		100.0									
Range		-30.00%									

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**527.0**	**526.8**	**5.576**	**1033.**	**20.79**	**8.907**	**21.24**	**23.27**	**21.34**	**21.25**	**21.54**
Stddev	48.2	16.3	.049	82.	.93	1.393	2.80	1.10	.18	.56	.46
%RSD	9.153	3.086	.8852	7.907	4.476	15.64	13.17	4.717	.8534	2.651	2.154
#1	472.5	543.7	5.630	1016.	19.75	7.612	19.62	22.53	21.13	21.21	21.03
#2	544.2	511.3	5.533	961.2	21.55	10.38	19.63	22.74	21.41	21.84	21.94
#3	564.3	525.2	5.565	1122.	21.08	8.727	24.47	24.53	21.47	20.72	21.66
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.22**	**10.95**	**11.14**	**531.7**	**510.8**	**11.30**	**10.07**
Stddev	.30	.17	1.02	3.3	24.2	1.05	.96
%RSD	2.972	1.572	9.142	.6295	4.731	9.319	9.576
#1	9.978	11.12	11.15	528.0	485.0	11.87	11.19
#2	10.56	10.96	10.11	532.9	514.5	10.09	9.492
#3	10.12	10.78	12.15	534.3	532.9	11.95	9.539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16374.**	**45082.**	**20846.**
Stddev	**63.**	**484.**	**219.**
%RSD	.38377	1.0743	1.0483
#1	16412.	45017.	21038.
#2	16408.	44633.	20892.
#3	16301.	45595.	20609.

Sample Name: S301035-LCV2 Acquired: 1/21/2013 14:53:53 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.55**	**146.8**	**16.96**	**207.1**	**6.231**	**1051.**	**6.644**	**41.61**	**11.49**	**22.60**	**95.52**
Stddev	.50	20.5	2.36	1.2	.036	17.	.072	.48	.39	.92	2.05
%RSD	4.348	13.99	13.92	.5741	.5782	1.637	1.082	1.155	3.366	4.084	2.151
#1	11.93	130.8	19.65	205.7	6.270	1032.	6.663	41.12	11.93	22.41	93.15
#2	10.98	139.6	15.22	207.7	6.223	1066.	6.564	42.08	11.37	21.78	96.73
#3	11.73	170.0	16.02	207.8	6.199	1055.	6.704	41.62	11.19	23.60	96.68
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1106.**	**1056.**	**11.27**	**1984.**	**41.41**	**16.70**	**42.71**	**43.26**	**43.15**	**43.78**	**41.39**
Stddev	97.	16.	.10	47.	1.37	1.43	1.18	3.43	.23	.04	.25
%RSD	8.732	1.557	.9236	2.357	3.297	8.594	2.773	7.924	.5330	.0944	.6106
#1	1020.	1045.	11.22	1970.	40.07	16.85	43.53	46.84	43.34	43.74	41.10
#2	1087.	1075.	11.20	1945.	42.80	18.06	43.25	42.93	43.22	43.82	41.51
#3	1210.	1048.	11.39	2035.	41.34	15.20	41.35	40.01	42.90	43.77	41.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.46**	**21.99**	**21.69**	**1071.**	**1026.**	**22.53**	**20.84**
Stddev	.11	.27	.98	10.	11.	.69	.61
%RSD	.5172	1.221	4.506	.9758	1.093	3.060	2.918
#1	20.43	22.04	22.81	1082.	1013.	22.40	20.55
#2	20.38	21.70	21.26	1061.	1035.	23.28	21.54
#3	20.58	22.23	21.01	1070.	1030.	21.92	20.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16450.**	**45325.**	**20575.**
Stddev	82.	308.	442.
%RSD	.49730	.67925	2.1464
#1	16372.	45530.	20989.
#2	16535.	44971.	20110.
#3	16442.	45475.	20625.

Sample Name: S301035-IFA1 Acquired: 1/21/2013 14:58:46 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7936	313700.	2.521	.2799	-.3970	299400.	-.4445	-.9761	-1.955	5.163	296300.
Stddev	.1071	3401.	1.023	.3431	.2072	4767.	.1368	.0803	.502	.463	7434.
%RSD	13.50	1.084	40.57	122.6	52.19	1.592	30.78	8.222	25.69	8.963	2.509
#1	.6701	317600.	1.470	.6270	-.4785	298300.	-.4844	-1.065	-1.750	5.681	300800.
#2	.8605	311900.	2.579	-.0591	-.1615	304600.	-.5568	-.9549	-1.589	5.020	300400.
#3	.8504	311500.	3.514	.2717	-.5511	295200.	-.2921	-.9085	-2.528	4.790	287700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.8	302900.	-.1010	264700.	2.225	.7206	-2.272	.9402	5.296	-1.998	3.539
Stddev	18.9	2555.	.0786	7377.	1.321	1.835	1.991	1.236	3.876	.165	.088
%RSD	18.37	.8437	77.81	2.787	59.38	254.7	87.63	131.5	73.18	8.279	2.480
#1	105.8	305400.	-.0128	272800.	3.442	-.2551	-3.079	-.4052	9.256	-2.103	3.632
#2	120.0	302900.	-.1635	262800.	2.414	-.4208	-3.733	2.027	1.510	-2.084	3.526
#3	82.62	300300.	-.1269	258400.	.8199	2.838	-.0043	1.199	5.123	-1.807	3.458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.277	1.235	2.728	-21.20	1.714	1.550	1.892
Stddev	.431	.109	.199	5.27	5.247	.590	.444
%RSD	13.14	8.833	7.305	24.88	306.2	38.05	23.46
#1	-2.829	1.355	2.502	-21.79	-1.102	1.113	2.026
#2	-3.688	1.141	2.880	-26.16	-1.525	2.221	2.254
#3	-3.313	1.208	2.801	-15.65	7.768	1.317	1.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	14909.	40539.	20000.
Stddev	36.	333.	222.
%RSD	.24056	.82133	1.1115
#1	14868.	40472.	19862.
#2	14934.	40245.	19882.
#3	14925.	40901.	20257.

Sample Name: B301080-BLK1 Acquired: 1/21/2013 15:03:53 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0870	-49.41	-.3592	-.0421	-.0517	-7.282	-.2535	-.0707	-.1058	.4175	-13.96
Stddev	.2230	42.65	2.593	.5454	.2103	1.831	.1204	.2055	.1159	.7623	3.32
%RSD	256.2	86.31	721.8	1296.	407.0	25.14	47.48	290.6	109.6	182.6	23.78
#1	.3438	-98.46	2.631	-.6680	-.0684	-6.851	-.2164	-.3034	-.0231	1.261	-11.53
#2	-.0588	-28.75	-1.987	.2111	-.2531	-9.289	-.1560	.0053	-.0559	.2137	-12.61
#3	-.0239	-21.03	-1.722	.3307	.1665	-5.705	-.3880	.0859	-.2383	-.2222	-17.74
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.34	-10.21	-.2866	64.44	.0928	-.0148	.1610	1.153	-.1588	-.4062	-.3977
Stddev	75.95	11.98	.0505	32.00	.4682	.8783	1.145	5.606	1.513	.5849	.2338
%RSD	79.66	117.4	17.63	49.66	504.5	5948.	711.1	486.3	953.3	144.0	58.78
#1	175.8	-17.20	-.3446	61.10	.1106	-.7637	1.011	-3.300	-.3701	-1.078	-.5275
#2	85.30	-17.04	-.2630	97.97	-.3840	.9519	-1.141	7.449	1.449	-.0099	-.1278
#3	24.91	3.624	-.2522	34.24	.5518	-.2325	.6124	-.6899	-1.555	-.1308	-.5379
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5870	1.049	.3783	58.35	47.08	.7755	.1278
Stddev	.1602	.239	1.148	8.94	10.47	.2457	.6411
%RSD	27.29	22.80	303.4	15.32	22.23	31.69	501.7
#1	-.7531	1.042	1.670	57.00	48.41	1.019	.2725
#2	-.5746	.8139	-.5262	67.88	36.01	.5277	.6842
#3	-.4334	1.292	-.0086	50.16	56.81	.7796	-.5733
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16367.	45397.	20895.
Stddev	67.	607.	683.
%RSD	.40905	1.3360	3.2708
#1	16290.	46070.	21683.
#2	16414.	44893.	20455.
#3	16396.	45228.	20548.

Sample Name: B301080-SRM1 Acquired: 1/21/2013 15:08:45 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**431.5**	**91720.**	**1713.**	**2069.**	**1095.**	**69380.**	**1092.**	**1363.**	**1309.**	**1282.**	**138900.**
Stddev	19.8	4456.	106.	107.	56.	3417.	69.	85.	74.	69.	9012.
%RSD	4.576	4.858	6.186	5.159	5.082	4.925	6.318	6.238	5.647	5.411	6.490
#1	454.3	95630.	1819.	2169.	1144.	72400.	1160.	1448.	1394.	1362.	147800.
#2	419.3	92650.	1607.	2082.	1106.	70080.	1022.	1278.	1271.	1245.	138900.
#3	421.0	86870.	1712.	1957.	1035.	65670.	1094.	1364.	1261.	1238.	129800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30490.**	**27420.**	**3663.**	**3420.**	**739.7**	**753.5**	**1861.**	**1400.**	**2057.**	**949.7**	**2830.**
Stddev	1415.	1362.	163.	134.	47.2	45.4	119.	87.	127.	47.4	178.
%RSD	4.640	4.967	4.450	3.915	6.385	6.019	6.412	6.201	6.168	4.994	6.297
#1	31750.	28680.	3850.	3532.	786.5	798.2	1980.	1486.	2181.	1004.	3009.
#2	30760.	27610.	3550.	3456.	692.0	707.5	1741.	1312.	1928.	919.3	2652.
#3	28960.	25970.	3589.	3271.	740.7	754.7	1862.	1401.	2063.	925.5	2830.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**670.8**	**2660.**	**878.9**	**15510.**	**15260.**	**1366.**	**1415.**
Stddev	42.5	142.	53.8	852.	743.	72.	88.
%RSD	6.343	5.346	6.125	5.493	4.868	5.286	6.192
#1	713.2	2825.	933.0	16490.	15890.	1449.	1502.
#2	628.1	2579.	825.3	15070.	15440.	1327.	1327.
#3	671.2	2578.	878.2	14970.	14440.	1322.	1416.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16651.**	**46781.**	**21610.**
Stddev	665.	1693.	1016.
%RSD	3.9961	3.6190	4.6997
#1	15989.	44831.	20562.
#2	17320.	47632.	21678.
#3	16644.	47880.	22590.

Sample Name: B301080-SRM2 Acquired: 1/21/2013 15:13:35 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**392.7**	**84960.**	**1633.**	**2053.**	**1078.**	**66290.**	**987.6**	**1276.**	**1167.**	**1131.**	**137100.**
Stddev	46.3	512.	21.	14.	7.	394.	13.4	17.	147.	141.	2705.
%RSD	11.79	.6029	1.280	.6962	.6508	.5943	1.358	1.336	12.56	12.45	1.974
#1	423.4	85300.	1653.	2063.	1083.	66580.	1002.	1295.	1266.	1229.	138000.
#2	339.4	85210.	1611.	2059.	1082.	66450.	976.2	1261.	998.3	970.0	139200.
#3	415.1	84370.	1634.	2037.	1070.	65840.	984.2	1273.	1235.	1195.	134000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29790.**	**26810.**	**3260.**	**3281.**	**682.8**	**725.4**	**2109.**	**1218.**	**1974.**	**850.1**	**2655.**
Stddev	254.	193.	384.	4.	9.5	12.0	30.	14.	34.	103.1	36.
%RSD	.8535	.7211	11.77	.1129	1.391	1.661	1.406	1.160	1.705	12.13	1.363
#1	29980.	26910.	3472.	3284.	693.5	739.3	2141.	1232.	2011.	920.7	2695.
#2	29890.	26940.	2817.	3282.	675.3	717.3	2083.	1203.	1946.	731.8	2625.
#3	29500.	26590.	3490.	3277.	679.7	719.6	2104.	1219.	1965.	897.9	2645.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**644.4**	**2189.**	**815.6**	**5565.**	**5914.**	**1218.**	**1438.**
Stddev	7.9	274.	9.2	747.	27.	149.	22.
%RSD	1.224	12.50	1.130	13.43	.4635	12.21	1.524
#1	653.4	2380.	825.2	6084.	5933.	1321.	1463.
#2	638.6	1875.	806.8	4709.	5927.	1048.	1424.
#3	641.3	2311.	814.9	5903.	5883.	1287.	1427.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16827.**	**48451.**	**21133.**
Stddev	170.	4373.	215.
%RSD	1.0082	9.0254	1.0191
#1	16631.	45908.	21147.
#2	16931.	53501.	20911.
#3	16919.	45945.	21341.

Sample Name: 1301027-01 Acquired: 1/21/2013 15:18:25 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.535**	**71220.**	**71.34**	**331.5**	**3.026**	**61650.**	**.0253**	**61.21**	**127.9**	**162.7**	**186100.**
Stddev	.150	707.	3.88	3.6	.048	400.	.2422	1.22	3.6	3.8	3289.
%RSD	9.806	.9927	5.445	1.097	1.599	.6491	955.7	1.992	2.777	2.362	1.768
#1	-1.563	72040.	70.54	335.7	2.970	62120.	-.0064	61.45	127.3	162.4	189800.
#2	-1.372	70840.	75.56	329.3	3.046	61400.	-.1994	59.89	124.7	159.0	183600.
#3	-1.669	70780.	67.91	329.5	3.060	61450.	.2818	62.29	131.8	166.7	184800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7750.**	**18890.**	**2662.**	**332.8**	**104.0**	**237.6**	**9.683**	**3.295**	**1.821**	**233.8**	**287.7**
Stddev	121.	144.	78.	63.8	1.4	1.8	1.373	2.881	1.216	5.3	3.8
%RSD	1.558	.7642	2.946	19.17	1.327	.7431	14.18	87.44	66.76	2.281	1.314
#1	7888.	19050.	2690.	267.0	104.2	235.8	10.89	2.301	2.198	233.2	286.5
#2	7664.	18790.	2574.	394.3	102.5	237.7	8.186	6.542	2.803	228.8	284.7
#3	7699.	18810.	2723.	337.2	105.3	239.4	9.976	1.043	.4613	239.4	292.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.857**	**1858.**	**37.85**	**6885.**	**6607.**	**287.0**	**3.493**
Stddev	.394	33.	.61	328.	90.	6.0	1.901
%RSD	21.20	1.780	1.599	4.758	1.357	2.081	54.42
#1	2.273	1848.	37.19	6764.	6699.	285.5	1.973
#2	1.490	1832.	38.38	6635.	6603.	281.9	2.882
#3	1.808	1895.	37.99	7256.	6520.	293.5	5.624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16842.	46105.	20674.
Stddev	221.	862.	286.
%RSD	1.3095	1.8705	1.3824
#1	16816.	46010.	20355.
#2	17074.	47012.	20759.
#3	16635.	45295.	20907.

Sample Name: B301080-MS1 Acquired: 1/21/2013 15:23:30 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.4**	**75440.**	**260.6**	**509.1**	**205.3**	**62240.**	**201.5**	**252.8**	**337.9**	**366.0**	**184500.**
Stddev	1.5	251.	3.7	3.5	1.5	240.	1.0	1.1	2.1	2.3	2116.
%RSD	.7354	.3324	1.438	.6929	.7186	.3854	.5059	.4350	.6202	.6191	1.146
#1	202.8	75670.	259.7	510.4	206.4	62430.	200.4	251.7	340.3	368.4	182100.
#2	200.7	75170.	257.4	505.1	203.6	61970.	202.4	253.9	336.8	363.8	185400.
#3	203.6	75470.	264.7	511.8	205.8	62320.	201.5	252.8	336.6	365.7	186100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**12840.**	**23660.**	**2561.**	**5510.**	**298.8**	**455.0**	**211.0**	**190.5**	**189.4**	**433.5**	**478.4**
Stddev	71.	56.	16.	60.	1.9	1.8	4.9	1.5	2.1	.8	2.3
%RSD	.5563	.2388	.6404	1.082	.6465	.4052	2.330	.7617	1.121	.1892	.4904
#1	12910.	23720.	2556.	5532.	296.7	454.4	205.8	191.6	191.8	434.4	476.4
#2	12770.	23610.	2579.	5442.	299.6	457.1	215.5	188.9	188.9	432.8	481.0
#3	12850.	23660.	2548.	5555.	300.3	453.5	211.7	191.1	187.6	433.2	477.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**194.8**	**2064.**	**225.6**	**6165.**	**6043.**	**469.7**	**186.5**
Stddev	.6	9.	2.2	113.	179.	1.3	.9
%RSD	.2938	.4561	.9927	1.837	2.964	.2765	.4821
#1	194.2	2065.	223.3	6199.	6122.	471.0	186.4
#2	195.4	2073.	225.6	6038.	6169.	468.4	185.6
#3	194.7	2054.	227.8	6257.	5838.	469.6	187.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16803.**	**45935.**	**20870.**
Stddev	141.	218.	22.
%RSD	.83979	.47462	.10752
#1	16879.	45687.	20880.
#2	16640.	46096.	20844.
#3	16890.	46021.	20885.

Sample Name: B301080-MSD1@5 Acquired: 1/21/2013 15:28:29 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**41.90**	**15650.**	**55.68**	**106.7**	**41.99**	**12940.**	**42.31**	**53.27**	**71.66**	**77.59**	**39650.**
Stddev	.74	76.	1.70	.8	.31	71.	.42	.59	.71	.25	197.
%RSD	1.761	.4870	3.043	.7594	.7343	.5450	.9880	1.104	.9960	.3207	.4967
#1	42.58	15640.	54.26	107.2	42.22	12920.	42.75	53.86	72.48	77.56	39750.
#2	41.12	15730.	55.23	107.0	42.12	13020.	42.26	53.26	71.18	77.36	39770.
#3	41.99	15580.	57.56	105.7	41.64	12890.	41.92	52.68	71.33	77.86	39420.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2788.**	**5017.**	**547.4**	**1048.**	**62.81**	**97.01**	**46.75**	**46.24**	**41.97**	**91.41**	**102.4**
Stddev	60.	25.	1.6	19.	.88	2.16	3.35	2.62	1.65	.78	.5
%RSD	2.143	.4913	.2915	1.849	1.399	2.226	7.163	5.660	3.928	.8538	.4580
#1	2722.	4989.	549.2	1070.	63.83	96.90	49.00	45.60	40.36	92.11	103.0
#2	2839.	5030.	546.7	1037.	62.34	99.22	48.36	49.12	43.66	90.57	102.3
#3	2802.	5033.	546.3	1037.	62.27	94.90	42.90	44.00	41.88	91.54	102.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.57**	**442.3**	**46.56**	**1601.**	**1571.**	**99.33**	**39.19**
Stddev	.38	8.9	1.76	42.	40.	.97	1.32
%RSD	.9705	2.022	3.776	2.603	2.522	.9812	3.357
#1	39.63	452.7	47.62	1639.	1617.	98.22	39.55
#2	39.92	436.9	47.53	1608.	1545.	99.70	37.73
#3	39.16	437.5	44.53	1557.	1552.	100.1	40.28
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16465.**	**44777.**	**19935.**
Stddev	116.	70.	71.
%RSD	.70315	.15579	.35756
#1	16335.	44771.	19995.
#2	16557.	44849.	19856.
#3	16504.	44710.	19953.

Sample Name: 1301027-02 Acquired: 1/21/2013 15:33:16 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.252	68320.	69.51	301.6	2.999	58040.	.3812	55.06	128.7	154.9	173300.
Stddev	.684	634.	1.77	2.4	.144	649.	.1814	.24	.7	.5	1379.
%RSD	54.63	.9272	2.545	.7865	4.809	1.119	47.59	.4300	.5611	.3018	.7957
#1	-1.108	69050.	71.55	304.4	3.045	58790.	.4872	54.81	129.5	155.3	172100.
#2	-.6521	67990.	68.41	300.3	3.114	57710.	.1717	55.09	128.6	154.4	174800.
#3	-1.997	67930.	68.57	300.3	2.837	57630.	.4847	55.28	128.0	155.1	173000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7395.	18110.	2231.	299.8	101.3	215.6	9.967	.6656	1.096	226.5	284.8
Stddev	114.	211.	15.	60.2	.8	1.9	1.210	2.292	1.468	.9	1.7
%RSD	1.545	1.164	.6526	20.09	.8015	.8682	12.14	344.4	133.9	.4047	.6036
#1	7526.	18330.	2241.	316.2	101.7	215.9	11.32	-1.903	1.766	225.6	286.5
#2	7319.	18100.	2214.	350.0	100.4	213.5	8.990	1.396	2.110	226.5	283.1
#3	7338.	17900.	2237.	233.0	101.9	217.2	9.589	2.504	-.5873	227.5	284.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.299	1727.	37.02	5320.	5180.	270.6	1.570
Stddev	.116	9.	.70	80.	93.	.4	.334
%RSD	8.946	.5092	1.880	1.501	1.791	.1364	21.28
#1	1.217	1722.	37.82	5272.	5286.	270.1	1.186
#2	1.432	1723.	36.56	5276.	5135.	270.7	1.793
#3	1.247	1738.	36.68	5412.	5118.	270.8	1.732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16712.	46288.	20849.
Stddev	32.	139.	110.
%RSD	.19259	.30027	.52566
#1	16690.	46439.	20798.
#2	16749.	46260.	20774.
#3	16697.	46165.	20975.

Sample Name: 1301027-03 Acquired: 1/21/2013 15:38:21 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.344**	**77010.**	**62.84**	**322.0**	**3.604**	**13340.**	**.6179**	**69.39**	**158.8**	**216.9**	**189500.**
Stddev	.520	420.	1.91	1.0	.146	78.	.1322	.27	2.7	2.6	4256.
%RSD	38.68	.5448	3.035	.3045	4.066	.5829	21.40	.3902	1.730	1.207	2.246
#1	-1.453	77030.	63.82	321.1	3.508	13360.	.7186	69.54	160.0	218.3	185000.
#2	-.7784	77420.	60.64	323.0	3.773	13410.	.4682	69.54	155.6	213.9	193400.
#3	-1.801	76580.	64.05	322.1	3.532	13260.	.6671	69.07	160.7	218.6	190000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10950.**	**33390.**	**4479.**	**429.3**	**134.1**	**2339.**	**2.724**	**-.3511**	**2.855**	**259.6**	**464.6**
Stddev	128.	68.	19.	34.7	1.1	12.	2.444	.8144	1.172	2.5	2.8
%RSD	1.167	.2033	.4328	8.084	.8113	.5159	89.70	232.0	41.06	.9448	.5986
#1	10940.	33310.	4501.	431.7	133.6	2336.	4.572	-.7192	1.661	258.8	465.2
#2	11080.	33430.	4466.	462.8	135.4	2352.	-.0466	.5824	4.005	257.6	467.0
#3	10820.	33420.	4471.	393.5	133.3	2329.	3.648	-.9164	2.900	262.3	461.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.432**	**4613.**	**27.82**	**4393.**	**4378.**	**112.8**	**-.3466**
Stddev	.174	35.	.83	98.	96.	1.9	.8188
%RSD	7.138	.7521	2.996	2.221	2.200	1.666	236.2
#1	2.248	4601.	28.43	4356.	4327.	113.4	.1284
#2	2.593	4585.	28.16	4320.	4489.	110.7	.1237
#3	2.455	4652.	26.87	4504.	4318.	114.3	-1.292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17377.**	**47970.**	**21072.**
Stddev	130.	165.	242.
%RSD	.74643	.34437	1.1481
#1	17352.	47990.	21296.
#2	17262.	48125.	20816.
#3	17518.	47796.	21105.

Sample Name: 1301027-04 Acquired: 1/21/2013 15:43:33 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1354	90200.	108.4	1076.	4.098	18870.	9.508	66.41	164.3	529.5	200600.
Stddev	.3812	396.	4.1	2.	.203	90.	.375	.26	1.6	4.6	4200.
%RSD	281.7	.4387	3.785	.2146	4.966	.4768	3.947	.3963	.9908	.8638	2.094
#1	.5734	90450.	112.4	1077.	3.863	18940.	9.669	66.61	163.0	525.9	196400.
#2	-.1213	89750.	108.5	1074.	4.210	18770.	9.079	66.50	166.1	534.7	204800.
#3	-.0461	90410.	104.2	1078.	4.222	18900.	9.777	66.11	163.8	528.1	200600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8619.	18970.	3649.	999.6	194.8	9031.	8.817	1.351	3.874	259.3	3920.
Stddev	25.	38.	42.	27.8	1.1	18.	1.107	1.124	1.214	.8	9.
%RSD	.2943	.1990	1.142	2.784	.5639	.2025	12.55	83.18	31.35	.3264	.2389
#1	8610.	18960.	3629.	987.6	193.5	9029.	7.774	2.217	4.992	258.4	3912.
#2	8599.	18940.	3697.	979.8	195.6	9014.	9.978	.0810	2.582	259.3	3919.
#3	8647.	19010.	3622.	1031.	195.2	9051.	8.698	1.755	4.047	260.1	3930.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.184	1654.	34.66	5348.	5184.	162.6	42.40
Stddev	.517	15.	.31	69.	133.	.5	1.16
%RSD	16.24	.8943	.8872	1.299	2.570	.2896	2.744
#1	3.028	1641.	34.76	5295.	5338.	162.3	43.29
#2	2.763	1670.	34.32	5427.	5111.	163.2	42.82
#3	3.761	1652.	34.91	5323.	5104.	162.5	41.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17588.	48019.	21144.
Stddev	43.	257.	227.
%RSD	.24266	.53488	1.0724
#1	17632.	48140.	21405.
#2	17587.	47724.	21013.
#3	17546.	48193.	21013.

Sample Name: 1301027-05 Acquired: 1/21/2013 15:48:34 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3380	69240.	97.43	643.9	2.938	26310.	.1055	59.20	125.5	112.0	204600.
Stddev	.0534	274.	1.92	1.0	.228	86.	.0864	.47	.8	1.2	150.
%RSD	15.80	.3950	1.973	.1593	7.773	.3281	81.85	.7945	.6404	1.094	.0731
#1	-.2934	69550.	98.78	642.9	2.676	26410.	.1165	59.71	126.0	113.4	204500.
#2	-.3233	69030.	95.23	644.9	3.044	26240.	.1858	59.11	126.0	111.1	204600.
#3	-.3972	69140.	98.29	643.8	3.095	26300.	.0142	58.78	124.6	111.5	204800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6873.	21300.	1941.	201.0	100.1	607.8	3.363	.8495	1.034	219.6	311.0
Stddev	70.	78.	16.	8.1	.6	3.5	2.751	4.810	.885	1.6	.8
%RSD	1.012	.3660	.8141	4.015	.6028	.5835	81.81	566.2	85.64	.7394	.2663
#1	6804.	21210.	1939.	209.0	100.6	610.2	1.827	4.230	1.131	221.3	311.9
#2	6871.	21330.	1957.	201.0	99.43	609.4	6.539	2.976	1.866	219.3	310.6
#3	6943.	21360.	1926.	192.9	100.1	603.7	1.723	-4.657	.1037	218.1	310.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.096	1590.	36.68	5232.	5159.	226.8	2.859
Stddev	.094	16.	.60	44.	45.	2.0	.777
%RSD	8.595	1.003	1.641	.8478	.8657	.8989	27.20
#1	.9933	1596.	36.19	5237.	5197.	229.1	1.971
#2	1.116	1601.	37.35	5273.	5169.	226.3	3.189
#3	1.178	1572.	36.49	5185.	5110.	225.1	3.416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17209.	46633.	20584.
Stddev	83.	316.	135.
%RSD	.48372	.67712	.65377
#1	17182.	46439.	20707.
#2	17143.	46463.	20440.
#3	17302.	46997.	20606.

Sample Name: S301035-CCV1 Acquired: 1/21/2013 15:53:37 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**205.6**	**4823.**	**203.4**	**199.3**	**195.0**	**5099.**	**214.9**	**199.4**	**222.9**	**203.3**	**5177.**
Stddev	1.2	62.	2.0	1.8	2.9	72.	1.6	1.5	.3	1.2	51.
%RSD	.5925	1.292	.9959	.8915	1.481	1.417	.7311	.7578	.1304	.5742	.9763
#1	207.0	4755.	201.5	197.2	191.9	5021.	213.6	197.9	222.9	204.2	5119.
#2	204.6	4838.	205.5	200.3	195.4	5113.	216.7	200.9	222.6	202.0	5201.
#3	205.3	4877.	203.0	200.4	197.6	5164.	214.4	199.4	223.2	203.8	5212.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5231.**	**5183.**	**221.3**	**5067.**	**202.7**	**207.5**	**207.0**	**205.6**	**199.8**	**211.9**	**206.0**
Stddev	113.	118.	.2	18.	2.9	2.2	3.4	2.4	3.7	.5	1.6
%RSD	2.165	2.284	.1021	.3562	1.448	1.038	1.634	1.181	1.868	.2418	.7572
#1	5191.	5055.	221.5	5069.	200.5	205.5	203.1	203.4	195.6	212.4	204.8
#2	5143.	5205.	221.0	5084.	206.0	209.8	209.0	208.2	202.8	211.4	207.7
#3	5359.	5289.	221.4	5048.	201.7	207.3	208.9	205.2	201.1	211.9	205.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**198.1**	**211.1**	**197.8**	**5352.**	**5033.**	**211.8**	**193.3**
Stddev	2.4	.4	1.5	29.	57.	1.2	2.8
%RSD	1.218	.1960	.7433	.5472	1.130	.5780	1.458
#1	197.0	211.4	196.4	5367.	4968.	212.8	190.3
#2	200.8	210.6	197.5	5318.	5059.	210.5	196.0
#3	196.4	211.2	199.3	5370.	5072.	212.2	193.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16618.**	**44599.**	**19126.**
Stddev	140.	401.	230.
%RSD	.84409	.90006	1.2009
#1	16767.	44139.	19379.
#2	16488.	44880.	18930.
#3	16599.	44778.	19070.

Sample Name: S301035-CCB1 Acquired: 1/21/2013 15:58:20 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1596	-84.46	-.4760	.0351	-.0328	-16.36	-.3800	-.3089	-.7941	.4933	-10.06
Stddev	.5815	13.75	1.771	.2885	.0791	4.22	.0492	.3164	.4270	.9009	5.02
%RSD	364.4	16.28	372.0	822.9	241.2	25.77	12.94	102.4	53.77	182.6	49.89
#1	-.4078	-76.40	.0986	-.0928	-.1203	-16.76	-.4144	-.3568	-1.284	.9037	-7.138
#2	.1323	-76.64	-2.463	-.1674	-.0117	-11.96	-.3237	-.5985	-.5010	-.5397	-7.182
#3	.7542	-100.3	.9361	.3654	.0336	-20.37	-.4020	.0287	-.5973	1.116	-15.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120.6	17.29	-.2273	-169.0	-.6982	1.815	2.310	.3790	2.446	-.6424	-.9654
Stddev	19.7	23.81	.0374	40.2	.8998	.977	2.259	1.234	2.751	.7421	.1900
%RSD	16.34	137.7	16.44	23.76	128.9	53.81	97.81	325.7	112.4	115.5	19.68
#1	102.9	10.90	-.1868	-152.7	-1.623	.9234	.0550	-1.016	3.705	-1.116	-.7462
#2	141.9	-2.676	-.2348	-139.6	-.6459	1.663	2.301	.8236	-.7084	.2128	-1.081
#3	117.2	43.64	-.2605	-214.8	.1743	2.859	4.574	1.330	4.343	-1.024	-1.069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8218	-.4686	-1.403	2.797	21.17	-.1092	.2672
Stddev	.2176	.2643	.496	.772	16.18	.7220	.2778
%RSD	26.48	56.41	35.37	27.59	76.43	661.1	104.0
#1	-.5718	-.7619	-1.339	2.115	13.20	-.6187	.1228
#2	-.9689	-.3949	-1.928	3.635	10.52	-.4260	.0914
#3	-.9247	-.2489	-.9419	2.642	39.78	.7171	.5875
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16893.	45012.	19786.
Stddev	448.	623.	237.
%RSD	2.6548	1.3840	1.1957
#1	16618.	44321.	20020.
#2	17411.	45530.	19792.
#3	16651.	45185.	19547.

Sample Name: 1301027-06 Acquired: 1/21/2013 16:03:12 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.701**	**63990.**	**36.12**	**142.3**	**2.722**	**9330.**	**-.4400**	**54.70**	**103.5**	**74.90**	**150900.**
Stddev	1.158	227.	4.36	1.4	.143	24.	.1583	.21	.8	.30	2225.
%RSD	68.07	.3544	12.08	.9566	5.273	.2621	35.97	.3877	.8164	.3982	1.475
#1	-1.153	64060.	31.65	143.1	2.877	9339.	-.2912	54.94	103.5	74.79	152400.
#2	-3.031	64180.	36.35	143.1	2.697	9349.	-.4225	54.60	102.6	75.24	151900.
#3	-.9191	63740.	40.37	140.7	2.594	9303.	-.6063	54.56	104.3	74.68	148300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**7167.**	**20830.**	**2203.**	**110.1**	**96.13**	**72.50**	**1.904**	**2.335**	**2.624**	**182.2**	**283.0**
Stddev	96.	112.	18.	69.3	.63	1.69	1.257	2.124	1.738	.5	.2
%RSD	1.344	.5382	.8063	62.94	.6521	2.336	66.00	90.95	66.25	.2665	.0799
#1	7097.	20920.	2196.	129.6	96.80	70.93	3.135	1.881	1.590	182.1	283.2
#2	7277.	20850.	2190.	167.6	95.55	74.29	1.955	.4750	1.651	181.7	282.9
#3	7127.	20700.	2223.	33.16	96.04	72.28	.6228	4.649	4.631	182.7	282.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.4957**	**1646.**	**37.27**	**5278.**	**5219.**	**104.1**	**-.0532**
Stddev	.4179	7.	.25	143.	197.	.0	.4987
%RSD	84.31	.4501	.6833	2.713	3.783	.0174	937.7
#1	.0244	1640.	37.36	5395.	5143.	104.1	-.3443
#2	.6418	1644.	36.99	5118.	5443.	104.1	-.3380
#3	.8210	1654.	37.47	5321.	5071.	104.1	.5227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17533.	47670.	20041.
Stddev	93.	188.	308.
%RSD	.52879	.39381	1.5353
#1	17575.	47532.	19957.
#2	17426.	47595.	19784.
#3	17597.	47884.	20382.

Sample Name: 1301027-07 Acquired: 1/21/2013 16:08:14 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.402**	**67420.**	**55.51**	**362.5**	**1.780**	**10360.**	**.4792**	**56.77**	**121.0**	**89.92**	**156300.**
Stddev	.394	44.	2.83	1.3	.179	12.	.1647	.39	.7	.28	1008.
%RSD	28.12	.0657	5.104	.3500	10.07	.1203	34.38	.6786	.5561	.3073	.6449
#1	-1.341	67450.	57.18	362.1	1.614	10350.	.5260	56.76	121.8	90.22	157200.
#2	-1.042	67370.	52.24	361.5	1.970	10370.	.6155	57.15	120.7	89.68	156400.
#3	-1.824	67440.	57.10	363.9	1.756	10350.	.2961	56.38	120.5	89.85	155200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6137.**	**21920.**	**2488.**	**94.61**	**102.2**	**428.8**	**1.462**	**2.934**	**1.644**	**170.6**	**305.2**
Stddev	91.	61.	18.	45.91	.8	1.1	4.679	3.816	1.273	.4	1.0
%RSD	1.486	.2775	.7168	48.52	.8104	.2644	320.0	130.1	77.44	.2606	.3202
#1	6148.	21950.	2468.	89.67	103.2	429.1	5.749	-1.472	.2281	170.8	305.4
#2	6041.	21850.	2499.	51.38	101.8	427.6	2.167	5.060	2.010	170.9	304.2
#3	6222.	21960.	2498.	142.8	101.7	429.8	-3.529	5.213	2.695	170.1	306.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.1547**	**1430.**	**27.47**	**7114.**	**7006.**	**115.1**	**1.623**
Stddev	.6081	8.	.94	105.	101.	.8	.940
%RSD	393.0	.5414	3.415	1.472	1.435	.6556	57.95
#1	.3319	1430.	26.42	7200.	7100.	115.8	1.250
#2	-.5223	1437.	27.77	7145.	6900.	115.3	2.692
#3	.6545	1422.	28.23	6997.	7018.	114.3	.9260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17203.**	**46387.**	**19980.**
Stddev	126.	499.	202.
%RSD	.73374	1.0752	1.0124
#1	17094.	46957.	19747.
#2	17341.	46033.	20095.
#3	17175.	46170.	20099.

Sample Name: 1301027-08 Acquired: 1/21/2013 16:13:18 Type: Unk
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042)

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.686**	**47800.**	**12.49**	**367.0**	**.4866**	**6219.**	**-.0832**	**38.51**	**82.46**	**65.94**	**103200.**
Stddev	.642	510.	1.96	3.8	.1232	71.	.0575	.19	.25	.84	1168.
%RSD	38.11	1.068	15.68	1.036	25.33	1.144	69.13	.4989	.3046	1.269	1.132
#1	-2.391	47310.	11.25	363.1	.3454	6149.	-.0756	38.29	82.40	65.15	101900.
#2	-1.532	48330.	14.75	370.7	.5415	6291.	-.0298	38.64	82.24	66.82	104200.
#3	-1.134	47750.	11.48	367.1	.5728	6217.	-.1441	38.60	82.73	65.83	103300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5199.**	**19410.**	**936.4**	**227.3**	**85.37**	**87.07**	**4.995**	**2.973**	**1.207**	**93.38**	**244.1**
Stddev	53.	267.	1.2	15.1	.29	2.47	2.431	4.343	1.398	.32	1.0
%RSD	1.018	1.375	.1254	6.642	.3440	2.834	48.67	146.1	115.8	.3399	.4100
#1	5147.	19140.	936.9	243.2	85.68	89.55	2.685	5.227	-.3537	93.43	245.2
#2	5253.	19680.	937.2	213.1	85.10	87.06	4.768	-2.034	2.344	93.67	243.7
#3	5197.	19410.	935.0	225.5	85.33	84.61	7.531	5.725	1.632	93.04	243.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.563**	**1490.**	**16.73**	**4034.**	**3884.**	**72.41**	**-.8603**
Stddev	.401	5.	.64	25.	70.	.47	.4588
%RSD	25.67	.3371	3.854	.6086	1.803	.6488	53.33
#1	-1.145	1487.	17.07	4033.	3803.	72.73	-1.125
#2	-1.600	1487.	15.99	4060.	3924.	72.63	-1.125
#3	-1.945	1496.	17.14	4011.	3925.	71.87	-.3305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17269.	46435.	19899.
Stddev	57.	313.	143.
%RSD	.33178	.67416	.71990
#1	17234.	46288.	19833.
#2	17238.	46795.	20063.
#3	17336.	46223.	19801.

Sample Name: S301035-CCV2 Acquired: 1/21/2013 16:18:05 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**206.9**	**4824.**	**202.8**	**198.1**	**192.3**	**5076.**	**215.0**	**198.7**	**223.1**	**203.2**	**5135.**
Stddev	1.0	104.	2.8	2.9	3.1	98.	1.9	2.1	1.0	2.8	89.
%RSD	.4820	2.146	1.399	1.470	1.618	1.921	.9022	1.060	.4606	1.360	1.727
#1	205.7	4719.	205.7	195.7	188.8	4974.	215.7	199.2	222.0	200.1	5040.
#2	207.6	4926.	202.5	201.3	194.9	5168.	216.4	200.5	223.3	204.7	5216.
#3	207.2	4826.	200.1	197.3	193.0	5086.	212.8	196.4	224.0	205.0	5149.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5187.**	**5118.**	**223.0**	**5061.**	**203.3**	**206.4**	**202.7**	**205.4**	**198.6**	**212.7**	**206.5**
Stddev	65.	120.	.8	39.	1.7	1.8	3.3	.2	2.4	1.5	2.1
%RSD	1.254	2.350	.3407	.7656	.8408	.8687	1.607	.0760	1.197	.6911	1.022
#1	5158.	5004.	222.1	5072.	202.9	207.3	203.8	205.2	198.6	211.0	206.8
#2	5262.	5244.	223.5	5018.	205.1	207.5	205.3	205.5	201.0	213.5	208.5
#3	5142.	5106.	223.4	5093.	201.8	204.3	199.1	205.4	196.2	213.6	204.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**196.0**	**211.2**	**196.2**	**5374.**	**5021.**	**212.3**	**192.7**
Stddev	1.5	.7	1.8	38.	117.	1.2	1.3
%RSD	.7877	.3426	.9402	.7132	2.326	.5840	.6846
#1	196.4	210.6	197.3	5330.	4906.	210.9	193.6
#2	197.4	211.0	197.3	5402.	5140.	212.6	193.4
#3	194.3	212.0	194.1	5390.	5017.	213.3	191.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16802.**	**44827.**	**19006.**
Stddev	42.	606.	198.
%RSD	.24806	1.3526	1.0423
#1	16828.	45521.	19234.
#2	16754.	44400.	18887.
#3	16825.	44559.	18896.

Sample Name: S301035-CCB2 Acquired: 1/21/2013 16:22:48 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5906	-67.15	-1.650	-.1103	.0155	-15.55	-.3377	-.0803	-.4689	.3261	-16.96
Stddev	.0630	29.82	2.042	.5740	.0866	3.73	.1956	.2119	.6051	.6314	1.83
%RSD	10.67	44.41	123.7	520.4	560.2	24.01	57.92	263.8	129.1	193.7	10.77
#1	.5566	-77.88	-3.957	-.4679	.0344	-11.27	-.5468	.0120	.0596	.2103	-17.89
#2	.6633	-33.45	-.9212	-.4148	.0910	-18.12	-.1592	-.3227	-1.129	-.2395	-18.14
#3	.5518	-90.11	-.0735	.5518	-.0790	-17.27	-.3071	.0697	-.3373	1.007	-14.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	110.1	-2.875	-.4065	-176.9	-.7125	.8214	-.0772	2.511	3.767	-.2672	-.5904
Stddev	80.8	7.545	.0351	69.8	.3731	1.623	1.202	2.035	1.522	.3312	.0762
%RSD	73.40	262.4	8.644	39.48	52.37	197.6	1556.	81.05	40.40	124.0	12.91
#1	28.33	3.856	-.3739	-134.3	-1.016	.2547	-1.254	1.573	5.450	-.2366	-.6728
#2	190.0	-1.451	-.4437	-138.8	-.8259	-.4421	-.1263	4.846	2.487	.0477	-.5225
#3	112.1	-11.03	-.4019	-257.5	-.2957	2.652	1.148	1.114	3.365	-.6126	-.5758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.147	-.4132	-1.923	.1582	-4.259	.0706	-.3884
Stddev	.310	.1929	.785	1.233	19.45	.0074	.4033
%RSD	27.05	46.69	40.81	779.2	456.8	10.43	103.8
#1	-1.428	-.1923	-1.868	1.311	-25.05	.0622	-.3333
#2	-.8138	-.4987	-2.733	-1.142	-1.235	.0738	-.8164
#3	-1.201	-.5487	-1.167	.3056	13.51	.0759	-.0156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16976.	46088.	19796.
Stddev	256.	313.	136.
%RSD	1.5093	.67972	.68511
#1	17115.	45848.	19940.
#2	17133.	46443.	19780.
#3	16681.	45973.	19670.

Sample Name: S301035-LCV3 Acquired: 1/21/2013 16:27:40 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.615**	F **10.67**	**8.662**	**103.4**	**3.396**	**523.5**	**3.086**	**20.68**	**5.610**	**11.07**	**47.89**
Stddev	.543	13.58	2.281	.4	.109	2.1	.090	.43	.120	.34	3.97
%RSD	9.669	127.3	26.33	.4165	3.205	.3929	2.919	2.060	2.134	3.054	8.283
#1	5.537	-1.398	9.350	103.6	3.441	521.2	3.176	20.96	5.492	11.35	51.77
#2	6.193	8.029	6.116	103.7	3.272	525.0	2.995	20.88	5.607	10.70	43.84
#3	5.115	25.37	10.52	102.9	3.476	524.4	3.087	20.19	5.731	11.17	48.08
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		100.0									
Range		-30.00%									

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**620.7**	**557.9**	**5.741**	**943.3**	**20.68**	**9.660**	**23.98**	**18.48**	**22.23**	**20.92**	**22.32**
Stddev	59.5	30.5	.079	12.0	.57	.989	1.42	1.33	.66	.35	.17
%RSD	9.591	5.473	1.382	1.276	2.771	10.24	5.937	7.171	2.965	1.665	.7542
#1	592.5	591.7	5.656	945.6	20.96	8.561	25.45	18.68	22.51	21.16	22.45
#2	689.1	532.3	5.814	930.3	21.05	9.942	23.87	19.69	22.71	21.08	22.38
#3	580.5	549.8	5.753	954.0	20.02	10.48	22.61	17.07	21.48	20.53	22.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.720**	**10.91**	**9.746**	**541.0**	**509.1**	**11.55**	**10.37**
Stddev	.863	.20	.935	1.8	12.0	.62	.41
%RSD	8.874	1.833	9.596	.3339	2.366	5.347	3.937
#1	9.720	10.86	10.82	541.0	523.0	11.92	10.82
#2	10.58	11.13	9.101	542.8	502.4	10.83	10.25
#3	8.857	10.74	9.318	539.2	501.9	11.88	10.04
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16866.**	**45351.**	**18881.**
Stddev	134.	839.	123.
%RSD	.79350	1.8490	.65196
#1	17003.	45681.	18906.
#2	16735.	44398.	18990.
#3	16860.	45975.	18747.

Sample Name: S301035-LCV4 Acquired: 1/21/2013 16:32:32 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.47**	**162.6**	**18.41**	**207.9**	**6.131**	**1061.**	**6.780**	**42.07**	**11.54**	**22.45**	**93.99**
Stddev	.83	17.4	1.02	5.5	.221	22.	.062	.47	.48	.05	3.07
%RSD	7.264	10.68	5.570	2.652	3.604	2.041	.9202	1.118	4.129	.2068	3.265
#1	11.91	173.2	18.81	213.8	6.320	1083.	6.739	41.57	11.98	22.43	96.91
#2	11.99	172.2	19.17	207.1	5.888	1060.	6.749	42.14	11.60	22.51	94.25
#3	10.51	142.6	17.24	202.9	6.185	1040.	6.852	42.50	11.04	22.43	90.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1183.**	**1074.**	**11.64**	**2053.**	**41.26**	**17.04**	**44.93**	**46.37**	**41.83**	**42.79**	**43.74**
Stddev	113.	49.	.15	82.	.53	2.68	3.19	3.89	1.90	.33	.14
%RSD	9.541	4.566	1.293	4.018	1.294	15.70	7.109	8.386	4.533	.7715	.3222
#1	1308.	1105.	11.77	2148.	41.80	16.60	44.96	45.42	44.01	43.14	43.62
#2	1088.	1098.	11.66	2006.	40.73	19.91	48.10	43.04	40.59	42.75	43.71
#3	1153.	1017.	11.47	2004.	41.24	14.61	41.72	50.64	40.88	42.49	43.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**20.46**	**21.92**	**19.99**	**1095.**	**1032.**	**22.64**	**21.87**
Stddev	.40	.60	.69	26.	38.	1.55	.95
%RSD	1.953	2.759	3.435	2.333	3.709	6.859	4.337
#1	20.13	22.17	20.70	1101.	1073.	20.89	21.79
#2	20.35	22.36	19.33	1118.	996.8	23.86	20.96
#3	20.90	21.23	19.95	1067.	1026.	23.17	22.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16966.**	**45822.**	**18625.**
Stddev	185.	685.	193.
%RSD	1.0923	1.4939	1.0378
#1	17131.	45430.	18405.
#2	17001.	45423.	18704.
#3	16765.	46612.	18766.

Sample Name: S301035-IFA2 Acquired: 1/21/2013 16:37:25 Type: QC
Method: PROM-2013(v6) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5580	315900.	-1.462	.6408	-.3047	308500.	-1.298	-.9050	-2.053	4.019	300500.
Stddev	.3245	1526.	3.351	.0917	.2872	769.	.538	.4260	.151	.201	5298.
%RSD	58.15	.4830	229.1	14.32	94.24	.2493	41.42	47.07	7.353	5.001	1.763
#1	.1947	315900.	.5293	.6150	-.5677	308500.	-.8429	-.4189	-2.028	3.985	295400.
#2	.6604	317500.	.4143	.7427	.0017	309300.	-1.891	-1.083	-2.216	3.837	306000.
#3	.8190	314400.	-5.331	.5648	-.3480	307700.	-1.160	-1.213	-1.917	4.235	300200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	197.5	306600.	-.3008	269700.	1.897	-2.920	-.1539	4.491	5.018	-2.195	3.892
Stddev	127.0	930.	.0150	8645.	1.279	2.380	1.850	1.063	3.276	.790	.237
%RSD	64.31	.3032	4.973	3.205	67.39	81.48	1202.	23.67	65.29	35.98	6.094
#1	52.72	306000.	-.3042	279100.	1.600	-3.197	.7158	5.575	3.491	-1.374	4.102
#2	290.2	307700.	-.2844	268000.	.7939	-.4147	1.101	3.450	8.778	-2.261	3.635
#3	249.6	306100.	-.3137	262000.	3.299	-5.150	-2.279	4.449	2.784	-2.949	3.939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.121	1.172	1.518	-29.85	12.10	2.353	2.321
Stddev	.435	.082	1.240	3.96	16.31	.510	.375
%RSD	13.94	6.994	81.66	13.27	134.8	21.70	16.15
#1	-2.647	1.090	2.786	-26.28	28.98	2.784	1.918
#2	-3.212	1.172	1.459	-34.11	10.90	2.484	2.385
#3	-3.503	1.253	.3091	-29.16	-3.582	1.789	2.659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	15591.	40658.	18117.
Stddev	76.	299.	225.
%RSD	.48600	.73662	1.2421
#1	15678.	40957.	18277.
#2	15544.	40657.	17860.
#3	15550.	40358.	18215.

SOP-G-23 PERCENT SOLIDS/MOISTURE Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Oven#: D-92

Page # : 144

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:
(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)
A. For Organic analyses, except VOA,: decant any standing water.
B. For other analyses: mix the sample thoroughly.

Name of Survey(s): Jewett white
Work Order Number: 1301027

Date placed in oven at 103-105degC: 1/21/2013 Time: 11:01 AM/PM

Date removed from oven at 103-105degC: 1/22/2013 Time: 7:15 AM/PM

SAMPLE ID	WT OF DISH	WT OF DISH + WET/AIR-DRIED SAMPLE	WT OF DISH + DRIED SAMPLE	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
	(grams) -A-	(grams) -B-	(grams) -C-			
1301027-01	1.1764	8.1213	8.0682	99.24%	0.76%	
1301027-01 Dup	1.1727	8.3572	8.3054	99.28%	0.72%	
1301027-02	1.1704	9.5607	9.5038	99.32%	0.68%	
1301027-03	1.1784	9.5228	9.5027	99.76%	0.24%	
1301027-04	1.1674	9.5310	9.4465	98.99%	1.01%	
1301027-05	1.1750	9.6242	9.5927	99.63%	0.37%	
1301027-06	1.1713	9.3142	9.3141	100.00%	0.00%	
1301027-07	1.1826	9.5858	9.5192	99.21%	0.79%	
1301027-08	1.1776	9.5738	9.5728	99.99%	0.01%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
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				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
			Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
					RPD<20%	RPD<20%
			99.26%	0.74%	0.04%	5.87%

***Duplicate Must Be From First Sample Entered on the List for Correct RPD**

PERCENT = SOLIDS	C - A / B - A	(*100)	PERCENT = MOISTURE	B - C / B - A	(*100)

Analyst RR / CEB

Validated By/Date: MS 1/22/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301027

Printed: 1/21/2013 9:00:54AM

Project: Jewett White Lead - 1212042
Project Number: 1212042

Client: Weston Solutions Inc.
Project Due Date: 01/22/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due:	01/22/2013 00:00 (4 day TAT)	Tracking No:	
Received By:	Erica McNally	Date Received:	01/18/2013 16:27
Logged In By:	Erica McNally	Date Logged In:	01/18/2013 16:33

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 6 C

Analysis	Analysis Due Date	Hold Time
1301027-01 S-041-3642-001 [Solid] Sampled 01/18/2013 09:15 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-02 S-041-3642-002 [Solid] Sampled 01/18/2013 09:15 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-03 S-042-3642-001 [Solid] Sampled 01/18/2013 09:20 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-04 S-043-1824-001 [Solid] Sampled 01/18/2013 09:25 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-05 S-044-4854-001 [Solid] Sampled 01/18/2013 12:11 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301027

Printed: 1/21/2013 9:00:54AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/22/2013

Analysis	Analysis Due Date	Hold Time
1301027-06 S-045-4854-001 [Solid] Sampled 01/18/2013 12:15 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-07 S-046-5460-001 [Solid] Sampled 01/18/2013 13:55 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180
1301027-08 S-047-6672-001 [Solid] Sampled 01/18/2013 14:00 Eastern [1 Container]		
E-Lead ICP	7/17/2013 12:00:00AM	180

WorkOrder Comments

Per E-mail from N. Tirol, samples delivered 1/18/13 will be provided on 1/22/13 at 8am (see Other Documents for pdf).

Reviewed By

Date

USEPA Contract No. EP-W-06-072
Hand delivered: 1/18/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead
Contact Name: Sasha Malloy
Contact Phone: 732-570-4997

No: 2-011813-132850-0032
DESA
Lab Contact: John Bini
732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1310221-01	S-041-3842-001	S-041	1/18/2013	Soil	9:15	1	4 oz glass jar	Lead	4 C	Y
-02	S-041-3842-002	S-041	1/18/2013	Soil	9:15	1	4 oz glass jar	Lead	4 C	N
-03	S-042-3842-001	S-042	1/18/2013	Soil	9:20	1	4 oz glass jar	Lead	4 C	N
-04	S-043-1824-001	S-043	1/18/2013	Soil	09:25	1	4 oz glass jar	Lead	4 C	N
-05	S-044-4854-001	S-044	1/18/2013	Soil	12:11	1	4 oz glass jar	Lead	4 C	N
-06	S-045-4854-001	S-045	1/18/2013	Soil	12:15	1	4 oz glass jar	Lead	4 C	N
-07	S-046-5460-001	S-046	1/18/2013	Soil	13:55	1	4 oz glass jar	Lead	4 C	N
-08	S-047-6872-001	S-047	1/18/2013	Soil	14:00	1	4 oz glass jar	Lead	4 C	N
Rel 1/18/13										

A. M. 1/18/13

Special Instructions: Red Cooler 1 = 5.6°C on 1/18/13

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all samples	A. Malloy	1/18/13	Erin McKelly	1/18/13	16:27						

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		Date Received by RSCC:		Date Cancelled:	
Site Name:	Jewett White Lead Site	CERCLIS ID:	NYD980531545	Sampling Dates:	
City/Town:	Staten Island	Op Unit:	00	Site Spill ID:	A218
State:	NY	Action Code:	Removal - RV	Start:	~~10/3/2012~~ 12/10/12
				Finish:	~~11/3/2012~~ 1/3/12

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:	
First Name:	Mark
Last Name:	Gallo

Analytical Services Requestor:	
First Name:	Smita
Last Name:	Sumbaly
Phone #:	7325854410
Organization:	RST 2

Proposed Shipping Dates:
Start: ~~10/3/2012~~ 12/10/12
Finish: ~~11/3/2012~~ 1/3/12

Saturday Delivery? ☐ Yes

EPA Approved QAPP?: ☐ Yes
Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used: (PRP/FF)

E-mail for Lab Assignments:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

E-mail for Data:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

Address for Hard Copy:
Weston Solutions, Inc.
1090 King Georges Post Road
Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data
14 days TAT for validated data package require.
approximately 10 soils samples will be submitted per day.

J. Bin 11/27/12

FILE

** Shaded area for RSCC use only **

Jewett White

W.O. # 1301035

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301097

Jewett White Lead - 1212042
1301035

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/24/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/24/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/24/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/24/2013
ICB < Reporting Limit?	YES	RR	01/24/2013
RL Low Level recovery ±30%?	YES	RR	01/24/2013
2RL Low Level Recovery ±30%?	YES	RR	01/24/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/24/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/24/2013
CCBs < Reporting Limit?	YES	RR	01/24/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/24/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/24/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301097

Jewett White Lead - 1212042
1301035

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

			Analyst Initials	Date
Blank data				
Prep Blank < Reporting Limit?	YES	*	RR	01/24/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		RR	01/24/2013
Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	RR	01/24/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	RR	01/24/2013
Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	YES	*	RR	01/24/2013
If no, is analyte concentration > 1.0 X the spike concentration?	NA		RR	01/24/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	RR	01/24/2013
Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		RR	01/24/2013
Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	RR	01/24/2013
Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	NO		RR	01/24/2013
Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		RR	01/24/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301097

Jewett White Lead - 1212042
1301035

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA	RR	01/24/2013
Percent Solids Log Book info entries completed?	YES	RR	01/24/2013
pH Log Book Log Book info entries completed?	NA	RR	01/24/2013

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	RR	01/24/2013
Example calculation for Jewett White P-1212042 present in package from W.O. # 1301023				
Peer reviewed? Date and person responsible.	YES	*	LEB	01/24/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301097

Prepared by: RR
Prepared on: 01/23/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 R

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301035-01	N/A	25B	Yes	0.546	50					
	1301035-02	N/A	25B	Yes	0.532	50					
	B301097-BLK1	N/A	25B	Yes	0.5034	50		0		0	
	B301097-MS1	N/A	25B	Yes	0.557	50	D2L0305	200	D2L0306	200	1301035-01
	B301097-MSD1	N/A	25B	Yes	0.557	50	D2L0305	200	D2L0306	200	1301035-01
	B301097-SRM1	N/A	25B	Yes	0.5008	50	D2H1612	500.8		0	
	B301097-SRM2	N/A	25B	Yes	0.5014	50	D2H1612	501.4		0	

Comments:

	Pos ID	Type	Samplename	Comment	Instrument	Method	ConFact	Check	Check Table	Fail Action
1	1	QC	B301097-BLK1		ICAP6300	SOP-C-109	1	☒	PBS	None
2	2	QC	B301097-SRM1		ICAP6300	SOP-C-109	1	☒	LCSS	None
3	3	QC	B301097-SRM2		ICAP6300	SOP-C-109	1	☒	LCSS	None
4	4	Unk	1301035-01	JEWETT WHITE (1212042	ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301097-MS1	JEWETT WHITE (1212042	ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301097-MSD1 @5	JEWETT WHITE (1212042	ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301035-02	JEWETT WHITE (1212042	ICAP6300	SOP-C-109	1	☒	LDR	---

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301044

Instrument: Thermo iTEVA

Printed: 1/24/2013 9:58:42AM

Project Name	Lab Number	Analysis	STD ID
	S301044-CAL1	QC	D3A1531
	S301044-CAL2	QC	D2K1202
	S301044-CAL3	QC	D2K1203
	S301044-ICV1	QC	D2K1204
	S301044-ICB1	QC	D3A1531
	S301044-LCV1	QC	D2K1206
	S301044-LCV2	QC	D2K1207
	S301044-IFA1	QC	D2K1208
	B301097-BLK1	QC	
	B301097-SRM1	QC	
	B301097-SRM2	QC	
Jewett White Lead - 1212042	1301035-01	E-Lead ICP	
	B301097-MS1	QC	
	B301097-MSD1	QC	
Jewett White Lead - 1212042	1301035-02	E-Lead ICP	
	S301044-CCV1	QC	D2K1204
	S301044-CCB1	QC	D3A1531
	S301044-LCV3	QC	D2K1206
	S301044-LCV4	QC	D2K1207
	S301044-IFA2	QC	D2K1208

SUMMARY - VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301044-ICV1	S301044-ICB1	S301044-LCV1	S301044-LCV2	S301044-IFA1
	23 Jan 2013 19:07:23	23 Jan 2013 19:12:16	23 Jan 2013 19:17:08	23 Jan 2013 19:22:49	23 Jan 2013 19:27:33	23 Jan 2013 19:32:27	23 Jan 2013 19:37:19	23 Jan 2013 19:42:10
Ag3280	.0005	.3622	.7030	199.4	-.7490	4.407	10.51	-.2990
Al3961R	.0003	.2001	.4016	4891.	-10.33	122.4	209.6	323400.
As1890	.0000	.2296	.4644	200.0	1.948	F 11.08	18.93	3.426
B_2089	.0012	.8325	1.672	204.9	1.865	9.200	17.88	-1.196
Ba4554R	.0090	11.26	21.74	196.6	-.0406	99.06	198.1	.0374
Be3131R	.0010	10.89	21.67	198.6	.5353	3.453	6.681	1.149
Ca3179R	.0083	.6022	1.200	5138.	-10.40	538.8	1102.	312700.
Cd2265	.0001	6.358	12.64	208.3	.4132	3.452	6.683	.5105
Co2286	-.0001	3.201	6.439	196.6	-.0043	20.62	41.31	-.7731
Cr2677	.0004	2.617	5.158	F 221.5	.5988	6.483	11.90	-1.551
Cu3247	.0154	3.978	7.803	207.2	-1.461	10.04	21.78	-1.681
Fe2599R	.0015	.3820	.7548	5066.	-15.50	45.10	95.11	286600.
K_7664R	-.0025	.1267	.2529	5096.	78.96	502.1	1052.	-62.06
Mg2790R	.0001	.0847	.1663	5050.	8.588	520.5	1059.	300600.
Mn2576	.0000	17.15	33.42	214.2	.3229	5.688	11.43	.2023
Mo2020	.0000	1.760	3.568	205.5	1.353	10.96	21.68	-2.507
Na5895R	.0027	.3958	.7883	5030.	-59.76	1002.	2037.	271600.
Ni2316	.0009	1.401	2.812	201.4	-.0052	20.80	41.97	2.452
Pb2203	**.0002**	**.7581**	**1.525**	**201.7**	**.9254**	**9.060**	**18.13**	**-2.044**
Sb2068	.0001	.2222	.4527	199.5	-3.048	17.93	44.55	2.773
Se1960	.0000	.2013	.4066	206.0	9.792	23.16	47.81	8.034
Si2881A	.0048	.4834	.9538	5390.	8.168	559.5	1146.	-15.38
Si2881R	-.0001	.0824	.1666	5185.	-5.865	540.6	1073.	-1.494
Sn1899	.0001	.4604	.9209	192.2	2.349	12.34	22.60	4.570
Sr3464	-.0005	2.863	5.689	209.6	.6357	11.54	22.99	1.260
Ti3372	-.0012	9.774	19.42	213.4	.4183	11.67	23.09	1.698
Tl1908	-.0004	.3638	.7292	200.4	.9479	21.52	41.99	1.536
V_2924	-.0005	3.414	6.683	210.2	-.1362	21.76	43.59	-2.516
Y_2243-A	16173.	16200.	16164.	16854.	16734.	16867.	16885.	15186.
Y_3203-A	48710.	48402.	49202.	48730.	47874.	47713.	47105.	41979.
Y_3600-R	22995.	22152.	22364.	22404.	22352.	21743.	21638.	21103.
Zn2062	-.0001	4.727	9.520	199.2	.4424	22.06	42.77	4.229

SUMMARY - VERTICAL REPORT

	B301097-BLK1	B301097-SRM1	B301097-SRM2	1301035-01	B301097-MS1	B301097-MSD1 @5	1301035-02
	23 Jan 2013 19:47:26	23 Jan 2013 19:52:18	23 Jan 2013 19:57:08	23 Jan 2013 20:01:58	23 Jan 2013 20:06:54	23 Jan 2013 20:11:42	23 Jan 2013 20:16:29
Ag3280	-.2427	401.6	399.7	-2.373	183.8	37.91	-2.993
Al3961R	70.96	89050.	94180.	72090.	79210.	16730.	76830.
As1890	1.471	1639.	1654.	122.6	314.1	68.55	118.4
B_2089	-2.513	760.5	765.3	31.71	190.4	36.15	29.15
Ba4554R	.0273	1950.	1971.	142.9	334.5	69.76	152.9
Be3131R	.2878	1079.	1094.	4.523	209.3	42.86	4.136
Ca3179R	10.12	70940.	73110.	12520.	18440.	3895.	13250.
Cd2265	.1342	1014.	1051.	.2791	208.6	42.63	-.2345
Co2286	.2141	1254.	1269.	27.52	220.8	44.82	28.52
Cr2677	.4226	1351.	1369.	200.4	434.2	91.76	208.2
Cu3247	-1.344	1297.	1320.	87.86	316.2	64.98	90.41
Fe2599R	10.65	132800.	138300.	264900.	261700.	56070.	254400.
K_7664R	85.74	30180.	30870.	8376.	13630.	2986.	8869.
Mg2790R	13.13	26760.	27420.	13950.	19250.	4042.	15210.
Mn2576	.2848	3360.	3414.	766.0	985.5	207.1	852.7
Mo2020	.3134	649.7	656.5	5.650	208.5	41.75	5.198
Na5895R	188.4	3297.	3379.	252.3	5356.	1069.	356.9
Ni2316	2.717	679.0	693.3	61.96	257.0	54.10	63.90
Pb2203	**-.0394**	**742.0**	**742.2**	**78.22**	**322.9**	**65.21**	**84.10**
Sb2068	-1.634	1856.	1747.	5.546	218.1	41.46	2.416
Se1960	2.286	1254.	1338.	5.751	199.8	45.73	7.243
Si2881A	286.0	16690.	21540.	9000.	9178.	2350.	9377.
Si2881R	273.4	16500.	21560.	9050.	8913.	2359.	9132.
Sn1899	2.347	1418.	1374.	8.536	195.3	42.21	7.680
Sr3464	.6171	1351.	1364.	141.5	363.1	75.44	154.3
Ti3372	.1682	2613.	2793.	2265.	2531.	530.9	2571.
Tl1908	-.3331	1911.	1906.	3.340	183.7	38.74	1.099
V_2924	-.0249	898.4	903.6	302.7	507.1	104.3	323.3
Y_2243-A	16491.	17117.	17367.	17454.	17621.	17509.	17899.
Y_3203-A	47500.	48238.	48467.	47902.	48042.	46457.	47306.
Y_3600-R	22251.	22133.	21897.	21393.	21352.	20041.	20465.
Zn2062	4.437	2688.	2725.	219.5	420.7	87.61	241.5

SUMMARY - VERTICAL REPORT

	S301044-CCV1	S301044-CCB1	S301044-LCV3	S301044-LCV4	S301044-IFA2
	23 Jan 2013 20:21:23	23 Jan 2013 20:26:05	23 Jan 2013 20:30:57	23 Jan 2013 20:35:49	23 Jan 2013 20:40:40
Ag3280	189.2	-1.743	3.590	8.720	-1.129
Al3961R	5954.	.0413	91.56	232.0	327900.
As1890	208.7	2.016	8.150	F 22.02	2.634
B_2089	178.6	-4.968	F 5.099	F 12.97	-3.547
Ba4554R	215.5	.1355	96.82	197.0	.4485
Be3131R	227.7	.5533	3.831	6.786	1.141
Ca3179R	F 6403.	-5.750	575.4	1182.	332700.
Cd2265	222.7	.1513	3.735	7.223	.9449
Co2286	196.7	.4537	20.89	42.16	-.2107
Cr2677	F 244.1	.2011	F 6.669	F 14.32	-.6980
Cu3247	218.1	-1.867	10.81	23.56	-1.258
Fe2599R	5905.	-16.53	49.73	100.2	299300.
K_7664R	5712.	-260.3	F 303.2	843.0	-97.75
Mg2790R	5994.	17.58	560.4	1132.	310400.
Mn2576	210.1	.0232	5.828	11.48	-.0582
Mo2020	211.1	-.0983	11.22	22.70	-2.245
Na5895R	F 6140.	56.25	1137.	2271.	311600.
Ni2316	206.0	.6135	21.97	43.08	1.948
Pb2203	**214.5**	**-.2071**	**6.555**	**17.32**	**-2.089**
Sb2068	213.8	-5.130	21.34	36.86	-1.954
Se1960	221.1	7.359	F 27.26	51.89	9.214
Si2881A	5669.	6.821	583.9	1191.	-23.28
Si2881R	F 6261.	-20.80	559.8	1129.	-16.68
Sn1899	203.6	1.574	12.04	25.40	4.397
Sr3464	216.9	-.8048	12.67	24.22	2.430
Ti3372	220.4	-.2418	11.46	23.63	1.336
Tl1908	200.9	1.086	19.24	37.92	-3.369
V_2924	204.6	-1.376	21.17	42.89	-2.882
Y_2243-A	17262.	17086.	17402.	17426.	16001.
Y_3203-A	47175.	45930.	46744.	46474.	41953.
Y_3600-R	18081.	18689.	18761.	18383.	17999.
Zn2062	212.4	-.1503	23.15	45.54	4.832

Sample Name: Blank Acquired: 1/23/2013 19:07:23 Type: Cal
Method: PROM-2013(v7) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0005**	**.0003**	**.0000**	**.0090**	**.0010**	**.0083**	**.0001**	**-.0001**	**.0004**	**.0154**	**.0015**
Stddev	.0005	.0003	.0003	.0004	.0003	.0006	.0001	.0000	.0002	.0003	.0004
%RSD	96.58	117.1	618.3	4.044	24.82	7.089	90.02	46.32	42.33	1.686	26.76
#1	.0000	.0002	.0000	.0087	.0007	.0085	.0001	-.0000	.0005	.0151	.0018
#2	.0009	.0000	-.0002	.0088	.0012	.0076	.0003	-.0001	.0005	.0155	.0017
#3	.0004	.0007	.0003	.0094	.0010	.0087	.0001	-.0001	.0002	.0156	.0011

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0025**	**.0001**	**.0000**	**.0027**	**.0009**	**.0002**	**.0001**	**.0000**	**-.0004**	**-.0005**	**-.0001**
Stddev	.0014	.0006	.000	.0021	.0001	.0003	.0001	.000	.0001	.0002	.0000
%RSD	54.84	727.0	3572.	79.25	9.267	129.9	74.71	390.5	25.43	35.73	83.54
#1	-.0040	.0008	.0004	.0034	.0008	-.0001	.0001	-.0002	-.0003	-.0003	.0000
#2	-.0015	-.0004	-.0002	.0043	.0009	.0004	.0000	-.0001	-.0003	-.0007	.0000
#3	-.0019	-.0001	-.0002	.0003	.0009	.0004	.0001	.0002	-.0005	-.0005	-.0001

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0000**	**-.0012**	**.0012**	**.0048**	**-.0001**	**-.0005**	**.0001**
Stddev	.0001	.0002	.0002	.0002	.0001	.0002	.0000
%RSD	816.5	19.43	19.31	4.808	220.4	42.02	19.48
#1	.0000	-.0009	.0011	.0046	.0001	-.0006	.0001
#2	-.0001	-.0012	.0014	.0051	.0000	-.0003	.0001
#3	.0001	-.0014	.0009	.0047	-.0002	-.0005	.0001

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16173.	48710.	22995.
Stddev	230.	379.	165.
%RSD	1.4195	.77899	.71601
#1	15945.	48766.	22817.
#2	16168.	48306.	23026.
#3	16404.	49059.	23142.

Sample Name: MID STD Acquired: 1/23/2013 19:12:16 Type: Cal
Method: PROM-2013(v7) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3622**	**.2001**	**.2296**	**11.26**	**10.89**	**.6022**	**6.358**	**3.201**	**2.617**	**3.978**	**.3820**
Stddev	.0012	.0013	.0003	.06	.07	.0036	.023	.004	.028	.020	.0016
%RSD	.3260	.6525	.1298	.5727	.6426	.6015	.3639	.1098	1.070	.4976	.4117
#1	.3616	.1987	.2292	11.25	10.80	.5981	6.335	3.200	2.607	3.973	.3804
#2	.3635	.2011	.2297	11.33	10.92	.6039	6.381	3.204	2.649	4.000	.3836
#3	.3614	.2006	.2297	11.20	10.93	.6047	6.358	3.197	2.595	3.961	.3819

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1267**	**.0847**	**17.15**	**.3958**	**1.401**	**.7581**	**.2222**	**.2013**	**.3638**	**3.414**	**4.727**
Stddev	.0006	.0004	.07	.0020	.001	.0044	.0010	.0004	.0008	.016	.027
%RSD	.4446	.4440	.3920	.4939	.0710	.5850	.4284	.2176	.2268	.4574	.5795
#1	.1261	.0846	17.21	.3939	1.400	.7536	.2211	.2008	.3631	3.411	4.697
#2	.1267	.0851	17.17	.3978	1.402	.7625	.2226	.2015	.3647	3.430	4.751
#3	.1272	.0844	17.08	.3957	1.400	.7582	.2228	.2015	.3636	3.399	4.732

Elem	Mo2020	Tl3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.760**	**9.774**	**.8325**	**.4834**	**.0824**	**2.863**	**.4604**
Stddev	.004	.154	.0032	.0042	.0004	.027	.0013
%RSD	.2252	1.573	.3835	.8630	.5150	.9402	.2724
#1	1.755	9.730	.8362	.4812	.0828	2.852	.4595
#2	1.761	9.945	.8304	.4882	.0820	2.894	.4618
#3	1.763	9.647	.8309	.4807	.0823	2.844	.4598

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16200.**	**48402.**	**22152.**
Stddev	146.	450.	596.
%RSD	.90279	.92993	2.6914
#1	16129.	48338.	21845.
#2	16102.	47987.	21771.
#3	16368.	48880.	22839.

Sample Name: HIGH STD Acquired: 1/23/2013 19:17:08 Type: Cal
Method: PROM-2013(v7) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.7030**	**.4016**	**.4644**	**21.74**	**21.67**	**1.200**	**12.64**	**6.439**	**5.158**	**7.803**	**.7548**
Stddev	.0016	.0023	.0028	.49	.47	.008	.10	.036	.087	.062	.0031
%RSD	.2306	.5822	.6077	2.259	2.182	.6896	.7757	.5560	1.679	.7921	.4058
#1	.7040	.4012	.4615	21.74	21.61	1.196	12.53	6.401	5.067	7.733	.7536
#2	.7012	.3995	.4646	22.24	21.24	1.194	12.71	6.445	5.167	7.828	.7525
#3	.7040	.4041	.4671	21.25	22.18	1.209	12.68	6.472	5.239	7.848	.7582

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2529**	**.1663**	**33.42**	**.7883**	**2.812**	**1.525**	**.4527**	**.4066**	**.7292**	**6.683**	**9.520**
Stddev	.0020	.0000	.48	.0056	.015	.008	.0011	.0023	.0034	.013	.064
%RSD	.8041	.0196	1.448	.7041	.5248	.5092	.2438	.5540	.4693	.1945	.6733
#1	.2508	.1664	32.88	.7863	2.797	1.519	.4519	.4043	.7252	6.685	9.460
#2	.2548	.1663	33.82	.7840	2.812	1.524	.4522	.4068	.7311	6.695	9.514
#3	.2532	.1664	33.57	.7946	2.826	1.534	.4540	.4088	.7313	6.669	9.588

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.568**	**19.42**	**1.672**	**.9538**	**.1666**	**5.689**	**.9209**
Stddev	.020	.29	.011	.0049	.0014	.026	.0051
%RSD	.5486	1.485	.6405	.5127	.8584	.4658	.5562
#1	3.547	19.10	1.660	.9483	.1652	5.658	.9158
#2	3.570	19.65	1.678	.9553	.1665	5.701	.9210
#3	3.586	19.50	1.679	.9577	.1680	5.707	.9260

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16164.**	**49202.**	**22364.**
Stddev	22.	323.	103.
%RSD	.13307	.65557	.45887
#1	16144.	49553.	22422.
#2	16187.	49135.	22426.
#3	16161.	48919.	22246.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/23/2013 19:22:43	1/23/2013 19:22:43	Linear	1/Conc	0.000471	0.000707	0.000000	1.000000	0.999904	0.539054	1.617162	5.390539
Al 396.152 { 85}2	1/23/2013 19:22:43	1/23/2013 19:22:43	Linear	1/Conc	0.000286	0.000038	0.000000	1.000000	0.999998	0.250871	0.752612	2.508706
As 189.042 {478}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000043	0.000046	0.000000	1.000000	0.999985	0.666276	1.998829	6.662764
Ba 455.403 { 74}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.009091	0.002199	0.000000	1.000000	0.999865	2.010872	6.032616	20.108720
Be 313.107 {108}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.001026	0.002170	0.000000	1.000000	0.999998	0.250391	0.751174	2.503912
Ca 317.933 {106}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.008271	0.000119	0.000000	1.000000	0.999999	0.173130	0.519389	1.731297
Cd 226.502 {449}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000153	0.001266	0.000000	1.000000	0.999996	0.356544	1.069632	3.565439
Co 228.616 {447}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000076	0.000642	0.000000	1.000000	0.999996	0.343406	1.030217	3.434056
Cr 267.716 {126}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000436	0.000518	0.000000	1.000000	0.999976	0.849673	2.549019	8.496730
Cu 324.754 {104}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.015394	0.000784	0.000000	1.000000	0.999966	1.013768	3.041304	10.137679
Fe 259.940 {130}2	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.001517	0.000076	0.000000	1.000000	0.999989	0.583259	1.749778	5.832594
K 766.490 { 44}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.002475	0.000026	0.000000	1.000000	0.999986	0.653760	1.961279	6.537597
Mg 279.079 {121}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000087	0.000017	0.000000	1.000000	0.999966	1.010387	3.031161	10.103868
Mn 257.610 {131}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000139	0.003372	0.000000	1.000000	0.999923	1.517653	4.552958	15.176527
Na 589.592 { 57}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.002680	0.000079	0.000000	1.000000	1.000000	0.047298	0.141893	0.472975
Ni 231.604 {445}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000862	0.000280	0.000000	1.000000	0.999998	0.230316	0.690949	2.303163
Pb 220.353 {453}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000226	0.000152	0.000000	1.000000	0.999996	0.358518	1.075555	3.585182
Sb 206.833 {463}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000070	0.000045	0.000000	1.000000	0.999961	1.089893	3.269678	10.898928
Se 196.090 {472}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000049	0.000040	0.000000	1.000000	0.999989	0.580420	1.741260	5.804200
Tl 190.856 {477}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000362	0.000073	0.000000	1.000000	1.000000	0.100766	0.302298	1.007659
V 292.402 {115}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000455	0.000673	0.000000	1.000000	0.999949	1.237044	3.711133	12.370442
Zn 206.200 {463}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000063	0.000951	0.000000	1.000000	0.999994	0.407174	1.221522	4.071741
Mo 202.030 {467}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000003	0.000355	0.000000	1.000000	0.999980	0.779113	2.337339	7.791130
Ti 337.280 {100}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.001134	0.001947	0.000000	1.000000	0.999995	0.388956	1.166869	3.889562
B 208.959 {461}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.001157	0.000164	0.000000	1.000000	0.999997	0.290503	0.871508	2.905028
Si 288.158 {117}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.004817	0.000093	0.000000	1.000000	0.999992	0.505341	1.516024	5.053413
Si 288.158 {117}2	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000052	0.000016	0.000000	1.000000	0.999987	0.623113	1.869338	6.231126
Sr 346.446 { 97}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	-0.000473	0.000570	0.000000	1.000000	0.999995	0.388487	1.165461	3.884870
Sn 189.989 {477}	1/23/2013 19:22:44	1/23/2013 19:22:44	Linear	1/Conc	0.000093	0.000092	0.000000	1.000000	1.000000	0.016570	0.049711	0.165703
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301044-ICV1 Acquired: 1/23/2013 19:22:49 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.4**	**4891.**	**200.0**	**196.6**	**198.6**	**5138.**	**208.3**	**196.6**	F **221.5**	**207.2**	**5066.**
Stddev	1.1	58.	.2	.5	.6	14.	1.1	.6	3.3	2.7	14.
%RSD	.5362	1.189	.1149	.2420	.2800	.2704	.5221	.3155	1.503	1.313	.2788
#1	198.4	4833.	200.0	196.1	198.1	5135.	207.4	195.9	218.4	204.1	5050.
#2	200.5	4949.	199.8	197.1	198.6	5127.	208.0	197.1	221.1	208.6	5075.
#3	199.3	4893.	200.2	196.6	199.2	5154.	209.5	196.7	225.1	209.0	5074.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value									200.0		
Range									10.00%		

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5096.**	**5050.**	**214.2**	**5030.**	**201.4**	**201.7**	**199.5**	**206.0**	**200.4**	**210.2**	**199.2**
Stddev	68.	38.	.7	8.	1.0	1.9	7.0	5.0	3.1	1.1	1.7
%RSD	1.334	.7449	.3457	.1633	.4802	.9367	3.525	2.432	1.549	.5138	.8761
#1	5058.	5011.	213.4	5021.	201.4	200.0	191.7	208.1	198.3	209.2	197.7
#2	5174.	5052.	214.3	5034.	200.5	201.3	201.6	200.2	204.0	210.0	198.8
#3	5055.	5087.	214.9	5035.	202.4	203.7	205.3	209.5	198.9	211.3	201.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**205.5**	**213.4**	**204.9**	**5390.**	**5185.**	**209.6**	**192.2**
Stddev	.7	2.1	2.3	39.	16.	2.4	.7
%RSD	.3568	.9809	1.110	.7156	.3173	1.125	.3410
#1	204.7	211.0	207.2	5347.	5201.	207.3	192.6
#2	205.8	214.5	204.7	5403.	5168.	209.5	191.4
#3	206.1	214.8	202.7	5421.	5186.	212.0	192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16854.**	**48730.**	**22404.**
Stddev	53.	391.	204.
%RSD	.31270	.80191	.90875
#1	16830.	48578.	22524.
#2	16915.	48438.	22169.
#3	16817.	49174.	22520.

Sample Name: S301044-ICB1 Acquired: 1/23/2013 19:27:33 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7490**	**-10.33**	**1.948**	**-.0406**	**.5353**	**-10.40**	**.4132**	**-.0043**	**.5988**	**-1.461**	**-15.50**
Stddev	.4369	3.73	2.587	.0845	.0718	2.44	.2299	.0803	.5956	.718	3.00
%RSD	58.33	36.08	132.8	208.2	13.41	23.41	55.63	1858.	99.48	49.16	19.32
#1	-.2563	-12.47	.4425	-.0472	.5520	-7.717	.2378	-.0238	.2456	-1.635	-12.21
#2	-.9014	-6.029	4.935	.0470	.5972	-12.47	.3284	-.0731	1.286	-.6718	-18.07
#3	-1.089	-12.50	.4663	-.1215	.4566	-11.02	.6735	.0839	.2642	-2.076	-16.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**78.96**	**8.588**	**.3229**	**-59.76**	**-.0052**	**.9254**	**-3.048**	**9.792**	**.9479**	**-.1362**	**.4424**
Stddev	80.89	13.18	.0774	12.43	.8957	.1780	5.213	1.180	.7528	.4161	.3210
%RSD	102.4	153.5	23.96	20.80	17280.	19.23	171.1	12.05	79.41	305.6	72.55
#1	-4.273	-5.834	.2666	-45.50	.4122	1.059	-8.815	9.247	.3798	-.0148	.8054
#2	157.3	11.59	.2909	-68.36	.6057	.7235	1.329	8.983	.6623	-.5994	.3258
#3	83.87	20.01	.4111	-65.41	-1.033	.9935	-1.657	11.15	1.802	.2058	.1960
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.353**	**.4183**	**1.865**	**8.168**	**-5.865**	**.6357**	**2.349**
Stddev	.257	.0583	1.296	3.174	22.74	1.333	.745
%RSD	19.01	13.95	69.50	38.86	387.7	209.8	31.72
#1	1.495	.4266	3.204	11.70	-6.183	2.170	1.939
#2	1.507	.4720	.6157	7.262	-28.44	-.2416	3.210
#3	1.056	.3562	1.776	5.545	17.03	-.0214	1.900
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16734.**	**47874.**	**22352.**
Stddev	**49.**	**324.**	**368.**
%RSD	**.29266**	**.67644**	**1.6484**
#1	16747.	48163.	22633.
#2	16680.	47524.	21935.
#3	16776.	47935.	22489.

Sample Name: S301044-LCV1 Acquired: 1/23/2013 19:32:27 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.407	122.4	F 11.08	99.06	3.453	538.8	3.452	20.62	6.483	10.04	45.10
Stddev	.670	13.4	1.99	.28	.098	6.0	.182	.34	.378	.72	3.78
%RSD	15.21	10.94	17.99	.2808	2.833	1.116	5.267	1.629	5.822	7.194	8.377
#1	5.028	136.9	10.95	99.04	3.490	539.2	3.265	21.00	6.379	9.214	45.52
#2	4.496	119.8	9.162	98.79	3.528	532.6	3.628	20.37	6.169	10.36	41.13
#3	3.696	110.5	13.14	99.34	3.343	544.6	3.462	20.49	6.902	10.55	48.65
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			8.000								
Range			30.00%								

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.1	520.5	5.688	1002.	20.80	9.060	17.93	23.16	21.52	21.76	22.06
Stddev	117.3	26.4	.016	25.	.99	1.440	7.96	2.69	3.35	.22	.12
%RSD	23.36	5.071	.2854	2.507	4.764	15.90	44.40	11.59	15.58	1.020	.5445
#1	377.5	501.6	5.677	992.3	19.69	10.50	13.87	22.78	24.51	21.87	22.01
#2	518.5	550.7	5.706	1031.	21.13	7.623	12.81	20.69	17.89	21.90	21.97
#3	610.3	509.2	5.679	983.5	21.59	9.054	27.10	26.02	22.15	21.50	22.20
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.96	11.67	9.200	559.5	540.6	11.54	12.34
Stddev	.23	.10	.866	2.0	27.9	.64	.64
%RSD	2.068	.8966	9.415	.3530	5.169	5.520	5.182
#1	10.84	11.63	8.858	559.9	572.9	11.49	12.16
#2	10.82	11.59	10.19	557.4	524.4	10.92	13.06
#3	11.22	11.79	8.557	561.3	524.6	12.20	11.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16867.	47713.	21743.
Stddev	92.	160.	191.
%RSD	.54631	.33490	.87931
#1	16790.	47608.	21523.
#2	16841.	47897.	21838.
#3	16969.	47633.	21868.

Sample Name: S301044-LCV2 Acquired: 1/23/2013 19:37:19 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.51**	**209.6**	**18.93**	**198.1**	**6.681**	**1102.**	**6.683**	**41.31**	**11.90**	**21.78**	**95.11**
Stddev	.34	21.6	1.80	2.5	.136	27.	.181	.46	.30	.62	2.65
%RSD	3.278	10.30	9.500	1.271	2.031	2.465	2.714	1.104	2.540	2.842	2.790
#1	10.38	213.5	17.74	195.3	6.670	1071.	6.879	41.23	11.56	21.97	92.23
#2	10.25	186.4	18.04	198.9	6.821	1117.	6.522	41.80	12.04	22.28	97.47
#3	10.90	229.0	21.00	200.1	6.551	1118.	6.648	40.90	12.11	21.09	95.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1052.**	**1059.**	**11.43**	**2037.**	**41.97**	**18.13**	**44.55**	**47.81**	**41.99**	**43.59**	**42.77**
Stddev	28.	20.	.19	51.	.46	2.67	4.06	2.34	3.84	.28	.35
%RSD	2.661	1.847	1.664	2.481	1.086	14.74	9.110	4.900	9.141	.6352	.8131
#1	1052.	1056.	11.41	1980.	41.92	21.20	40.49	49.53	45.13	43.45	42.87
#2	1023.	1041.	11.25	2077.	42.44	16.34	48.61	45.14	43.12	43.41	43.06
#3	1079.	1080.	11.63	2054.	41.54	16.85	44.54	48.76	37.71	43.91	42.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**21.68**	**23.09**	**17.88**	**1146.**	**1073.**	**22.99**	**22.60**
Stddev	.34	.12	.93	10.	30.	.63	.79
%RSD	1.553	.5203	5.200	.9043	2.793	2.746	3.488
#1	21.34	23.02	17.09	1134.	1039.	23.54	22.11
#2	21.69	23.01	17.64	1148.	1082.	23.12	23.51
#3	22.01	23.23	18.90	1155.	1097.	22.30	22.18
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16885.**	**47105.**	**21638.**
Stddev	148.	378.	568.
%RSD	.87881	.80271	2.6255
#1	17055.	47489.	22291.
#2	16817.	47094.	21260.
#3	16782.	46733.	21363.

Sample Name: S301044-IFA1 Acquired: 1/23/2013 19:42:10 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2990**	**323400.**	**3.426**	**.0374**	**1.149**	**312700.**	**.5105**	**-.7731**	**-1.551**	**-1.681**	**286600.**
Stddev	.3097	2176.	4.447	.1489	.282	6275.	.3757	.3020	.191	.825	7277.
%RSD	103.6	.6729	129.8	398.0	24.57	2.006	73.59	39.07	12.33	49.09	2.539
#1	-.2192	325600.	8.057	-.1113	1.475	310900.	.5062	-1.047	-1.336	-1.895	284400.
#2	-.6408	323300.	-.8098	.0371	.9957	319700.	.1370	-.4494	-1.700	-.7696	294700.
#3	-.0370	321200.	3.031	.1865	.9760	307600.	.8883	-.8227	-1.618	-2.378	280700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-62.06**	**300600.**	**.2023**	**271600.**	**2.452**	**-2.044**	**2.773**	**8.034**	**1.536**	**-2.516**	**4.229**
Stddev	73.26	1427.	.1154	13370.	.568	.853	7.651	4.239	1.546	.454	.315
%RSD	118.1	.4746	57.05	4.924	23.18	41.72	275.9	52.76	100.7	18.04	7.443
#1	-113.7	301600.	.0690	286100.	2.868	-2.795	-5.919	9.073	1.561	-2.007	3.896
#2	-94.28	301300.	.2700	268900.	2.684	-1.117	8.493	3.372	3.069	-2.879	4.522
#3	21.80	299000.	.2679	259700.	1.805	-2.218	5.744	11.66	-.0234	-2.662	4.269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.507**	**1.698**	**-1.196**	**-15.38**	**-1.494**	**1.260**	**4.570**
Stddev	.316	.127	1.016	1.96	12.17	.563	2.608
%RSD	12.61	7.462	84.94	12.74	814.4	44.69	57.06
#1	-2.843	1.564	-2.209	-13.16	12.02	.8417	2.169
#2	-2.462	1.816	-1.202	-16.86	-4.914	1.900	4.197
#3	-2.216	1.714	-.1772	-16.12	-11.59	1.038	7.344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15186.**	**41979.**	**21103.**
Stddev	24.	271.	26.
%RSD	.15963	.64636	.12401
#1	15158.	41699.	21091.
#2	15198.	42241.	21085.
#3	15202.	41995.	21133.

Sample Name: B301097-BLK1 Acquired: 1/23/2013 19:47:26 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2427**	**70.96**	**1.471**	**.0273**	**.2878**	**10.12**	**.1342**	**.2141**	**.4226**	**-1.344**	**10.65**
Stddev	.2060	13.56	3.239	.0860	.1210	4.29	.2005	.3672	.2268	.729	2.91
%RSD	84.90	19.11	220.1	315.4	42.04	42.44	149.5	171.5	53.66	54.20	27.29
#1	-.4775	75.46	3.707	.1195	.2444	12.67	.2768	.4090	.2480	-2.185	8.605
#2	-.0919	81.70	-2.243	.0130	.1945	12.53	.2209	.4429	.6789	-.9567	13.97
#3	-.1587	55.72	2.951	-.0507	.4245	5.160	-.0951	-.2095	.3409	-.8914	9.361
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**85.74**	**13.13**	**.2848**	**188.4**	**2.717**	**-.0394**	**-1.634**	**2.286**	**-.3331**	**-.0249**	**4.437**
Stddev	104.7	20.50	.0512	24.8	.595	.6060	11.55	3.525	3.607	.2586	.514
%RSD	122.1	156.2	17.98	13.16	21.91	1540.	706.9	154.2	1083.	1039.	11.58
#1	3.094	33.07	.2416	212.3	2.177	.5879	-7.730	6.113	3.557	-.0452	4.224
#2	203.4	14.20	.3413	190.1	3.355	-.6216	-8.859	-.8274	-.9895	.2433	5.023
#3	50.68	-7.886	.2714	162.8	2.618	-.0844	11.69	1.574	-3.567	-.2728	4.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**.3134**	**.1682**	**-2.513**	**286.0**	**273.4**	**.6171**	**2.347**
Stddev	.2037	.1678	.999	6.5	13.4	.1716	1.462
%RSD	65.02	99.71	39.76	2.256	4.904	27.81	62.27
#1	.2096	.3473	-2.116	290.9	288.3	.8086	2.075
#2	.5481	.1427	-3.649	278.7	262.4	.5655	1.041
#3	.1824	.0147	-1.773	288.5	269.6	.4771	3.925
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16491.**	**47500.**	**22251.**
Stddev	**1194.**	**322.**	**282.**
%RSD	**7.2389**	**.67717**	**1.2693**
#1	17279.	47211.	22539.
#2	15118.	47847.	22241.
#3	17077.	47443.	21974.

Sample Name: B301097-SRM1 Acquired: 1/23/2013 19:52:18 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**401.6**	**89050.**	**1639.**	**1950.**	**1079.**	**70940.**	**1014.**	**1254.**	**1351.**	**1297.**	**132800.**
Stddev	1.3	1136.	22.	13.	10.	818.	8.	13.	14.	11.	1344.
%RSD	.3142	1.276	1.333	.6677	.9026	1.154	.7876	1.059	1.020	.8484	1.013
#1	402.9	87950.	1663.	1941.	1070.	70110.	1023.	1269.	1364.	1307.	134300.
#2	401.4	90220.	1633.	1965.	1089.	71750.	1012.	1250.	1353.	1300.	131700.
#3	400.4	88990.	1620.	1943.	1077.	70960.	1008.	1244.	1336.	1285.	132300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30180.**	**26760.**	**3360.**	**3297.**	**679.0**	**742.0**	**1856.**	**1254.**	**1911.**	**898.4**	**2688.**
Stddev	383.	259.	22.	52.	7.8	7.2	4.	7.	20.	4.4	24.
%RSD	1.268	.9692	.6551	1.583	1.148	.9645	.2309	.5849	1.041	.4899	.9094
#1	29770.	26470.	3369.	3265.	688.0	748.2	1856.	1261.	1934.	903.2	2716.
#2	30520.	26980.	3376.	3358.	674.9	743.7	1852.	1253.	1897.	897.2	2681.
#3	30260.	26820.	3335.	3270.	674.0	734.2	1861.	1246.	1903.	894.6	2668.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**649.7**	**2613.**	**760.5**	**16690.**	**16500.**	**1351.**	**1418.**
Stddev	1.7	16.	13.1	128.	235.	10.	19.
%RSD	.2608	.6210	1.724	.7666	1.425	.7712	1.365
#1	651.6	2627.	775.4	16830.	16250.	1361.	1440.
#2	648.4	2616.	755.8	16650.	16710.	1352.	1411.
#3	649.1	2595.	750.4	16590.	16550.	1340.	1403.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17117.**	**48238.**	**22133.**
Stddev	38.	317.	194.
%RSD	.22371	.65723	.87638
#1	17078.	47957.	22356.
#2	17154.	48175.	21999.
#3	17119.	48582.	22045.

Sample Name: B301097-SRM2 Acquired: 1/23/2013 19:57:08 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**399.7**	**94180.**	**1654.**	**1971.**	**1094.**	**73110.**	**1051.**	**1269.**	**1369.**	**1320.**	**138300.**
Stddev	8.3	694.	8.	17.	7.	626.	6.	2.	30.	32.	1380.
%RSD	2.088	.7373	.4770	.8388	.5991	.8566	.5269	.1303	2.225	2.453	.9976
#1	405.5	94640.	1662.	1989.	1101.	73550.	1056.	1270.	1382.	1332.	139900.
#2	403.5	93380.	1655.	1968.	1088.	72390.	1051.	1269.	1392.	1344.	137800.
#3	390.2	94530.	1646.	1957.	1093.	73380.	1045.	1267.	1335.	1283.	137400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30870.**	**27420.**	**3414.**	**3379.**	**693.3**	**742.2**	**1747.**	**1338.**	**1906.**	**903.6**	**2725.**
Stddev	95.	165.	64.	25.	2.7	2.6	22.	13.	1.	19.4	11.
%RSD	.3066	.6000	1.880	.7300	.3829	.3492	1.249	.9599	.0503	2.152	.4182
#1	30970.	27590.	3479.	3402.	693.5	744.9	1769.	1352.	1905.	916.8	2733.
#2	30830.	27270.	3411.	3353.	695.9	741.9	1747.	1337.	1906.	912.6	2730.
#3	30800.	27400.	3351.	3381.	690.6	739.7	1726.	1326.	1907.	881.2	2712.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**656.5**	**2793.**	**765.3**	**21540.**	**21560.**	**1364.**	**1374.**
Stddev	4.9	61.	4.3	524.	137.	30.	3.
%RSD	.7531	2.198	.5567	2.432	.6331	2.180	.2432
#1	662.0	2824.	766.6	21790.	21700.	1381.	1376.
#2	655.0	2833.	760.5	21890.	21420.	1382.	1376.
#3	652.4	2722.	768.7	20940.	21570.	1330.	1370.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17367.**	**48467.**	**21897.**
Stddev	126.	998.	320.
%RSD	.72673	2.0588	1.4605
#1	17458.	47912.	21939.
#2	17223.	47871.	22194.
#3	17420.	49619.	21558.

Sample Name: 1301035-01 Acquired: 1/23/2013 20:01:58 Type: Unk
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.373**	**72090.**	**122.6**	**142.9**	**4.523**	**12520.**	**.2791**	**27.52**	**200.4**	**87.86**	**264900.**
Stddev	.919	354.	.8	.6	.069	90.	.3151	.63	.6	.43	6198.
%RSD	38.74	.4912	.6695	.4418	1.524	.7173	112.9	2.292	.3058	.4865	2.340
#1	-2.022	72360.	123.5	142.5	4.581	12600.	.4157	28.14	201.0	88.20	260500.
#2	-3.416	71690.	122.3	143.6	4.447	12420.	-.0812	27.55	200.4	87.38	272000.
#3	-1.681	72210.	122.0	142.6	4.542	12530.	.5029	26.88	199.8	88.00	262100.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8376.**	**13950.**	**766.0**	**252.3**	**61.96**	**78.22**	**5.546**	**5.751**	**3.340**	**302.7**	**219.5**
Stddev	55.	46.	3.4	.4	.34	1.97	5.559	.458	2.350	1.3	.8
%RSD	.6543	.3323	.4484	.1668	.5468	2.522	100.2	7.969	70.34	.4374	.3574
#1	8400.	13970.	769.3	251.8	62.21	80.49	11.59	6.274	2.754	304.1	220.3
#2	8313.	13900.	766.2	252.5	62.10	76.93	4.389	5.423	5.927	302.4	219.4
#3	8415.	13980.	762.5	252.5	61.57	77.24	.6568	5.555	1.339	301.5	218.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.650**	**2265.**	**31.71**	**9000.**	**9050.**	**141.5**	**8.536**
Stddev	.513	14.	1.93	140.	20.	.2	.260
%RSD	9.074	.6209	6.093	1.550	.2261	.1283	3.043
#1	5.850	2279.	30.22	9151.	9074.	141.7	8.240
#2	6.032	2251.	31.02	8971.	9040.	141.5	8.728
#3	5.067	2265.	33.90	8877.	9037.	141.3	8.640
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17454.**	**47902.**	**21393.**
Stddev	89.	241.	40.
%RSD	.51219	.50389	.18703
#1	17516.	48149.	21435.
#2	17352.	47666.	21389.
#3	17495.	47891.	21355.

Sample Name: B301097-MS1 Acquired: 1/23/2013 20:06:54 Type: Unk
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**183.8**	**79210.**	**314.1**	**334.5**	**209.3**	**18440.**	**208.6**	**220.8**	**434.2**	**316.2**	**261700.**
Stddev	8.0	1431.	14.0	6.8	4.6	332.	9.8	11.3	21.2	15.3	11840.
%RSD	4.333	1.806	4.465	2.036	2.188	1.802	4.698	5.128	4.879	4.839	4.526
#1	192.9	77620.	299.8	327.2	204.3	18080.	197.5	208.0	457.9	333.6	249000.
#2	177.9	79590.	327.8	335.7	210.1	18510.	216.2	229.5	417.2	304.8	263500.
#3	180.7	80400.	314.7	340.7	213.4	18740.	212.0	224.8	427.4	310.3	272500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**13630.**	**19250.**	**985.5**	**5356.**	**257.0**	**322.9**	**218.1**	**199.8**	**183.7**	**507.1**	**420.7**
Stddev	217.	384.	48.9	98.	11.5	14.8	11.2	10.9	9.6	24.3	18.6
%RSD	1.590	1.995	4.959	1.825	4.484	4.595	5.130	5.428	5.238	4.794	4.432
#1	13390.	18810.	1041.	5256.	244.4	306.1	208.3	187.3	174.0	534.5	399.8
#2	13690.	19390.	947.2	5362.	266.9	334.1	230.3	205.9	193.2	488.3	435.8
#3	13820.	19540.	968.7	5451.	259.7	328.5	215.8	206.3	183.8	498.4	426.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**208.5**	**2531.**	**190.4**	**9178.**	**8913.**	**363.1**	**195.3**
Stddev	9.9	120.	9.4	378.	246.	16.9	10.1
%RSD	4.754	4.750	4.959	4.115	2.762	4.653	5.161
#1	197.3	2667.	179.8	9541.	8802.	382.3	183.9
#2	216.0	2440.	198.0	8787.	8742.	350.5	202.8
#3	212.3	2486.	193.4	9206.	9195.	356.4	199.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17621.	48042.	21352.
Stddev	643.	1787.	305.
%RSD	3.6518	3.7186	1.4273
#1	18330.	46084.	21701.
#2	17074.	49583.	21140.
#3	17460.	48459.	21215.

Sample Name: B301097-MSD1 @5 Acquired: 1/23/2013 20:11:42 Type: Unk
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**37.91**	**16730.**	**68.55**	**69.76**	**42.86**	**3895.**	**42.63**	**44.82**	**91.76**	**64.98**	**56070.**
Stddev	.79	445.	4.46	2.29	1.36	126.	2.33	2.40	1.73	1.47	1517.
%RSD	2.090	2.660	6.498	3.277	3.179	3.230	5.455	5.350	1.881	2.266	2.706
#1	37.82	17140.	69.88	72.18	44.27	4012.	44.33	46.63	93.66	66.43	57610.
#2	37.17	16810.	72.19	69.45	42.75	3912.	43.57	45.72	90.29	63.48	56050.
#3	38.75	16260.	63.58	67.64	41.55	3762.	39.98	42.10	91.32	65.02	54570.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2986.**	**4042.**	**207.1**	**1069.**	**54.10**	**65.21**	**41.46**	**45.73**	**38.74**	**104.3**	**87.61**
Stddev	64.	141.	3.4	17.	2.80	3.39	4.92	3.11	5.93	1.4	4.19
%RSD	2.141	3.486	1.659	1.550	5.177	5.198	11.87	6.811	15.31	1.305	4.788
#1	3000.	4196.	210.8	1087.	55.81	67.65	42.28	46.94	42.82	105.8	90.76
#2	3042.	4013.	206.4	1055.	55.63	66.65	45.91	48.05	41.46	103.9	89.22
#3	2917.	3918.	204.0	1064.	50.87	61.34	36.18	42.19	31.94	103.2	82.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**41.75**	**530.9**	**36.15**	**2350.**	**2359.**	**75.44**	**42.21**
Stddev	2.25	6.5	2.17	137.	99.	.88	3.47
%RSD	5.390	1.232	6.015	5.817	4.184	1.164	8.220
#1	43.58	538.4	38.18	2503.	2473.	76.35	44.41
#2	42.42	526.1	36.43	2304.	2307.	75.35	44.01
#3	39.23	528.2	33.85	2241.	2297.	74.60	38.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17509.**	**46457.**	**20041.**
Stddev	671.	613.	216.
%RSD	3.8340	1.3199	1.0772
#1	17172.	45807.	19820.
#2	17073.	46539.	20052.
#3	18282.	47025.	20251.

Sample Name: 1301035-02 Acquired: 1/23/2013 20:16:29 Type: Unk
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment: JEWETT WHITE (1212042

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.993	76830.	118.4	152.9	4.136	13250.	-.2345	28.52	208.2	90.41	254400.
Stddev	.683	1922.	5.2	3.4	.167	321.	.1103	1.39	15.4	7.69	12800.
%RSD	22.81	2.502	4.358	2.210	4.036	2.418	47.01	4.866	7.375	8.509	5.030
#1	-2.330	74960.	113.8	150.0	4.012	12960.	-.2726	27.04	225.7	99.26	240000.
#2	-3.694	78800.	124.0	156.6	4.326	13600.	-.1103	29.80	197.1	85.26	258700.
#3	-2.955	76730.	117.5	152.1	4.071	13200.	-.3208	28.71	201.7	86.73	264500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8869.	15210.	852.7	356.9	63.90	84.10	2.416	7.243	1.099	323.3	241.5
Stddev	139.	271.	59.8	13.9	2.53	1.60	2.449	3.592	4.693	23.4	9.8
%RSD	1.561	1.782	7.011	3.906	3.955	1.905	101.4	49.59	427.2	7.226	4.045
#1	8765.	14970.	921.6	369.4	61.04	82.31	1.113	4.909	4.927	350.3	230.4
#2	9026.	15500.	814.1	341.9	65.84	84.60	.8932	11.38	2.506	308.7	248.6
#3	8815.	15160.	822.4	359.4	64.82	85.40	5.241	5.441	-4.137	311.0	245.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.198	2571.	29.15	9377.	9132.	154.3	7.680
Stddev	.464	178.	1.91	832.	293.	10.8	.887
%RSD	8.934	6.920	6.553	8.877	3.210	6.992	11.55
#1	4.765	2775.	27.05	10320.	9029.	166.6	7.551
#2	5.689	2450.	30.79	8748.	9462.	146.6	8.625
#3	5.140	2487.	29.59	9063.	8904.	149.6	6.864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17899.	47306.	20465.
Stddev	512.	2432.	555.
%RSD	2.8595	5.1402	2.7122
#1	18490.	44725.	21106.
#2	17603.	49553.	20140.
#3	17604.	47639.	20149.

Sample Name: S301044-CCV1 Acquired: 1/23/2013 20:21:23 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**189.2**	**5954.**	**208.7**	**215.5**	**227.7**	F **6403.**	**222.7**	**196.7**	F **244.1**	**218.1**	**5905.**
Stddev	10.1	1279.	1.6	46.3	48.4	1347.	.7	.6	12.8	11.1	1237.
%RSD	5.312	21.49	.7530	21.47	21.27	21.03	.3274	.3222	5.252	5.110	20.94
#1	195.4	5186.	209.7	188.5	198.7	5590.	223.5	197.2	250.2	223.0	5157.
#2	177.6	7431.	209.4	268.9	283.6	7958.	222.6	197.0	229.4	205.4	7332.
#3	194.6	5246.	206.9	189.1	200.8	5662.	222.0	196.0	252.7	226.0	5225.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value						5000.			200.0		
Range						20.00%			20.00%		

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5712.**	**5994.**	**210.1**	F **6140.**	**206.0**	**214.5**	**213.8**	**221.1**	**200.9**	**204.6**	**212.4**
Stddev	1172.	1315.	10.8	1295.	.1	2.1	2.0	3.3	1.2	10.7	.9
%RSD	20.52	21.94	5.154	21.08	.0649	.9996	.9442	1.508	.5822	5.211	.4359
#1	5047.	5227.	216.4	5401.	205.9	216.4	211.9	217.2	200.9	211.7	212.1
#2	7066.	7512.	197.6	7635.	206.1	214.9	215.9	223.1	199.7	192.3	213.5
#3	5023.	5243.	216.3	5384.	205.9	212.2	213.7	222.9	202.1	209.7	211.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				5000.							
Range				20.00%							

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**211.1**	**220.4**	**178.6**	**5669.**	F **6261.**	**216.9**	**203.6**
Stddev	.6	11.6	1.9	287.	1303.	11.3	.8
%RSD	.2844	5.252	1.087	5.068	20.81	5.187	.4039
#1	211.8	226.3	177.0	5815.	5491.	221.8	204.5
#2	211.0	207.1	178.1	5338.	7765.	204.0	202.9
#3	210.6	227.8	180.8	5853.	5527.	224.8	203.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value					5000.		
Range					20.00%		

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17262.	47175.	18081.
Stddev	218.	1654.	2867.
%RSD	1.2641	3.5050	15.856
#1	17130.	46676.	19860.
#2	17142.	49020.	14774.
#3	17514.	45828.	19608.

Sample Name: S301044-CCB1 Acquired: 1/23/2013 20:26:05 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.743	.0413	2.016	.1355	.5533	-5.750	.1513	.4537	.2011	-1.867	-16.53
Stddev	.112	22.73	1.488	.1697	.1637	11.12	.1150	.3682	.6477	1.067	4.55
%RSD	6.405	55100.	73.78	125.2	29.58	193.4	76.04	81.15	322.0	57.15	27.50
#1	-1.640	26.14	3.358	.3246	.7417	-16.52	.2341	.5412	.4586	-3.034	-17.07
#2	-1.862	-10.56	2.274	-.0035	.4723	5.688	.0199	.7703	-.5357	-.9423	-11.74
#3	-1.726	-15.46	.4167	.0854	.4459	-6.419	.1998	.0497	.6805	-1.624	-20.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-260.3	17.58	.0232	56.25	.6135	-.2071	-5.130	7.359	1.086	-1.376	-.1503
Stddev	53.6	44.77	.0678	21.32	.3327	1.544	3.103	6.510	1.710	.315	.2192
%RSD	20.57	254.6	292.3	37.90	54.23	745.6	60.49	88.47	157.5	22.92	145.8
#1	-242.3	-14.58	.0323	39.68	.4611	1.575	-1.567	11.35	1.399	-1.675	.0009
#2	-218.1	68.71	-.0487	48.76	.3843	-1.031	-7.244	-.1535	2.617	-1.406	-.4017
#3	-320.6	-1.389	.0861	80.31	.9950	-1.165	-6.578	10.88	-.7591	-1.047	-.0502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0983	-.2418	-4.968	6.821	-20.80	-.8048	1.574
Stddev	.4867	.1968	1.702	2.303	28.86	.3645	.760
%RSD	494.9	81.36	34.26	33.76	138.8	45.29	48.29
#1	.1273	-.3951	-3.033	9.477	-41.84	-.8710	1.765
#2	.2346	-.0199	-5.639	5.597	12.11	-.4118	2.220
#3	-.6569	-.3105	-6.232	5.388	-32.66	-1.132	.7367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17086.	45930.	18689.
Stddev	52.	458.	337.
%RSD	.30388	.99794	1.8014
#1	17034.	45615.	19071.
#2	17138.	45719.	18558.
#3	17087.	46456.	18437.

Sample Name: S301044-LCV3 Acquired: 1/23/2013 20:30:57 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.590**	**91.56**	**8.150**	**96.82**	**3.831**	**575.4**	**3.735**	**20.89**	F **6.669**	**10.81**	**49.73**
Stddev	.816	23.18	3.497	.79	.053	5.8	.021	.22	.806	.64	1.06
%RSD	22.73	25.31	42.90	.8169	1.386	1.013	.5695	1.067	12.09	5.880	2.132
#1	4.083	118.2	11.83	95.96	3.800	574.3	3.725	20.82	7.070	10.08	48.76
#2	4.040	80.86	7.738	96.98	3.892	581.7	3.760	20.71	7.196	11.19	49.55
#3	2.648	75.66	4.877	97.51	3.801	570.2	3.721	21.14	5.740	11.17	50.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value									5.000		
Range									30.00%		

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F **303.2**	**560.4**	**5.828**	**1137.**	**21.97**	**6.555**	**21.34**	F **27.26**	**19.24**	**21.17**	**23.15**
Stddev	106.7	25.6	.092	6.	.67	1.326	10.02	2.96	5.73	.63	.42
%RSD	35.19	4.559	1.574	.4923	3.065	20.24	46.97	10.86	29.78	2.983	1.820
#1	426.4	589.8	5.908	1131.	22.74	5.456	11.43	23.96	21.88	21.79	22.84
#2	243.2	548.0	5.849	1142.	21.51	6.181	31.47	29.69	12.66	21.18	23.63
#3	240.0	543.4	5.728	1138.	21.66	8.028	21.11	28.12	23.17	20.53	22.98
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	500.0							20.00			
Range	-30.00%							30.00%			

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**11.22**	**11.46**	F **5.099**	**583.9**	**559.8**	**12.67**	**12.04**
Stddev	.21	.12	1.282	12.3	25.3	.58	.82
%RSD	1.914	1.081	25.15	2.110	4.512	4.567	6.778
#1	11.31	11.60	6.273	587.9	588.7	12.11	11.77
#2	11.39	11.37	5.292	593.6	542.3	13.27	12.95
#3	10.98	11.40	3.730	570.0	548.2	12.62	11.39
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			10.00				
Range			-30.00%				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17402.**	**46744.**	**18761.**
Stddev	130.	341.	106.
%RSD	.74702	.72863	.56747
#1	17550.	46384.	18743.
#2	17310.	46789.	18664.
#3	17345.	47060.	18875.

Sample Name: S301044-LCV4 Acquired: 1/23/2013 20:35:49 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**8.720**	**232.0**	F **22.02**	**197.0**	**6.786**	**1182.**	**7.223**	**42.16**	F **14.32**	**23.56**	**100.2**
Stddev	.805	21.7	1.89	1.4	.077	2.	.187	.29	.43	.68	4.2
%RSD	9.238	9.353	8.569	.7243	1.137	.1417	2.586	.6978	3.026	2.901	4.188
#1	9.636	218.7	23.71	198.5	6.875	1181.	7.329	42.16	13.95	23.35	98.36
#2	8.124	257.0	22.37	196.8	6.745	1181.	7.333	41.87	14.80	24.33	97.15
#3	8.399	220.2	19.98	195.7	6.738	1184.	7.008	42.46	14.20	23.01	104.9
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
Value			16.00						10.00		
Range			30.00%						30.00%		

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**843.0**	**1132.**	**11.48**	**2271.**	**43.08**	**17.32**	**36.86**	**51.89**	**37.92**	**42.89**	**45.54**
Stddev	54.4	26.	.05	24.	.45	1.56	3.34	7.09	.61	.22	.29
%RSD	6.454	2.264	.4666	1.053	1.036	8.981	9.057	13.67	1.597	.5119	.6330
#1	814.9	1110.	11.52	2298.	42.59	15.57	36.82	56.44	37.26	42.64	45.87
#2	905.7	1125.	11.42	2254.	43.46	17.84	33.54	43.72	38.08	43.05	45.35
#3	808.4	1160.	11.51	2260.	43.21	18.55	40.22	55.50	38.44	42.97	45.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**22.70**	**23.63**	F **12.97**	**1191.**	**1129.**	**24.22**	**25.40**
Stddev	.39	.10	1.74	15.	36.	.77	.45
%RSD	1.720	.4060	13.40	1.265	3.150	3.167	1.771
#1	23.06	23.62	12.65	1185.	1134.	25.08	25.29
#2	22.29	23.73	11.41	1208.	1091.	23.97	25.02
#3	22.76	23.54	14.84	1181.	1162.	23.61	25.90
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			20.00				
Range			-30.00%				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17426.**	**46474.**	**18383.**
Stddev	55.	150.	78.
%RSD	.31613	.32235	.42632
#1	17480.	46512.	18350.
#2	17369.	46601.	18472.
#3	17428.	46309.	18326.

Sample Name: S301044-IFA2 Acquired: 1/23/2013 20:40:40 Type: QC
Method: PROM-2013(v7) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.129**	**327900.**	**2.634**	**.4485**	**1.141**	**332700.**	**.9449**	**-.2107**	**-.6980**	**-1.258**	**299300.**
Stddev	.598	4214.	2.920	.1718	.174	2437.	.1667	.2998	.8519	1.219	2773.
%RSD	52.94	1.285	110.9	38.31	15.22	.7325	17.64	142.3	122.1	96.91	.9267
#1	-.5166	323900.	-.5950	.6141	.9410	331300.	1.049	-.3065	.0731	-2.477	296900.
#2	-1.711	332300.	5.091	.4604	1.254	335500.	1.033	.1252	-1.613	-.0399	298700.
#3	-1.160	327400.	3.406	.2710	1.227	331200.	.7526	-.4509	-.5546	-1.255	302300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-97.75**	**310400.**	**-.0582**	**311600.**	**1.948**	**-2.089**	**-1.954**	**9.214**	**-3.369**	**-2.882**	**4.832**
Stddev	132.5	3515.	.1374	3166.	.969	.747	2.986	4.465	3.873	.693	.194
%RSD	135.5	1.132	236.2	1.016	49.75	35.74	152.8	48.46	115.0	24.04	4.023
#1	-226.0	306400.	-.1826	310200.	2.941	-1.846	1.296	14.30	-7.755	-3.577	4.708
#2	38.57	313200.	-.0812	315200.	1.900	-1.493	-4.577	7.415	-.4175	-2.880	5.056
#3	-105.8	311600.	.0893	309400.	1.004	-2.926	-2.583	5.929	-1.935	-2.191	4.732
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.245**	**1.336**	**-3.547**	**-23.28**	**-16.68**	**2.430**	**4.397**
Stddev	.589	.079	.167	5.99	27.77	.809	1.232
%RSD	26.24	5.932	4.713	25.72	166.4	33.30	28.02
#1	-1.761	1.424	-3.422	-26.74	-40.84	1.759	5.754
#2	-2.901	1.270	-3.737	-16.37	13.65	3.329	4.090
#3	-2.074	1.314	-3.482	-26.73	-22.85	2.204	3.348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16001.	41953.	17999.
Stddev	263.	903.	334.
%RSD	1.6434	2.1525	1.8541
#1	15740.	40923.	17654.
#2	15996.	42329.	18024.
#3	16266.	42607.	18320.

SOP-G-23

PERCENT SOLIDS/MOISTURE

Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Oven#: D-92

Page # : 145

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:
(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)

A. For Organic analyses, except VOA,: decant any standing water.
(B) For other analyses: mix the sample thoroughly.

Name of Survey(s): Jewett white

Work Order Number: 1301035

Date placed in oven at 103-105degC: 1/23/2013 Time: 18:10 AM/(PM)

Date removed from oven at 103-105degC: 1/24/2013 Time: 7:15 (AM)/PM

SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1301035-01	1.1766	9.1387	9.0770	99.23%	0.77%	
1301035-01 Dup	1.1606	9.7882	9.7222	99.24%	0.76%	
1301035-02	1.1861	9.3444	9.2823	99.24%	0.76%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301035

Printed: 1/24/2013 8:00:02AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/24/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due:	01/24/2013 00:00 (1 day TAT)	Tracking No:	
Received By:	Erica McNally	Date Received:	01/23/2013 17:46
Logged In By:	Erica McNally	Date Logged In:	01/23/2013 17:54

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 9 C

Analysis	Analysis Due Date	Hold Time
1301035-01 S-048-4854-001 [Solid] Sampled 01/23/2013 11:27 Eastern [1 Container]		
E-Lead ICP	7/22/2013 12:00:00AM	180
1301035-02 S-048-4854-002 [Solid] Sampled 01/23/2013 11:27 Eastern [1 Container]		
E-Lead ICP	7/22/2013 12:00:00AM	180

WorkOrder Comments
24 hr TAT per N. Tirol (see email).

Reviewed By

Date

USEPA Contract No. EP-W-06-072
Carrier: Hand delivered
Delivered: 1/23/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-012313-162723-0036
DESA
Contact: John Bini
Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301035-01	S-048-4854-001	S-048	1/23/2013	Soil	11:27	1	4 oz glass jar	Lead	4 C	Y
-02	S-048-4854-002	S-048	1/23/2013	Soil	11:27	1	4 oz glass jar	Lead	4 C	N

ELL 1/23/13

A. Mallon 1/23/13

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Samples	A. Mallon	1/23/13	Linda McKelly	1/23/13	1746						

Cooler 1 - 8.5°C ELL 1/23/13, received on ice delivered same day as sampled

USEPA Contract No. EP-W-06-072
Carrier: Hand delivered
Delivered: 1/23/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-012313-162723-0036

DESA
Contact: John Birri
Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301035-01	S-048-4854-001	S-048	1/23/2013	Soil	11:27	1	4 oz glass jar	Lead	4 C	Y
-02	S-048-4854-002	S-048	1/23/2013	Soil	11:27	1	4 oz glass jar	Lead	4 C	N

EM 1/23/13

A. M. 1/23/13

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Samples	A. Mallon	1/23/13	Linda McKelly	1/23/13	17:46						

Cooler 1 - 8.5°C EM 1/23/13

Jewett White

W.O.# 1301038

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301103

Jewett White Lead - 1212042
1301038

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

		Analyst Initials	Date
Sample result data			
Minimum of 1 Standard + Blank?	YES	RR	01/24/2013
Continuing Calibration		Analyst Initials	Date
Correlation Coefficients > 0.995 for each element for > 2 point calibration?	YES	RR	01/24/2013
Initial Calibration check		Analyst Initials	Date
ICV and ICB run immediately after Calibration Standards?	YES	RR	01/24/2013
ICV recoveries within ±5% DW/NPDES, ±10% other programs?	YES	RR	01/24/2013
ICB < Reporting Limit?	YES	RR	01/24/2013
RL Low Level recovery ±30%?	YES	RR	01/24/2013
2RL Low Level Recovery ±30%?	YES	RR	01/24/2013
Continuing Calibration		Analyst Initials	Date
CCV and CCB run at least after every ten samples & at end of run?	YES	RR	01/24/2013
CCV recoveries within ±10% DW;NPDES; ± 20% other programs?	YES	RR	01/24/2013
CCBs < Reporting Limit?	YES	RR	01/24/2013
Sample result data		Analyst Initials	Date
IOS < Reporting Limit for all elements?	YES	RR	01/24/2013
Performance check		Analyst Initials	Date
RSD for all QC results > Reporting Limit within 20%?	YES	RR	01/24/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301103

Jewett White Lead - 1212042
1301038

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Blank data			Analyst Initials	Date
Prep Blank < Reporting Limit?	YES	*	RR	01/24/2013
If no, is sample analyte concentration > 10X the Prep Blank concentration?	NA		RR	01/24/2013

Laboratory control sample			Analyst Initials	Date
Average Recovery of 2 Aqueous LCSs within ± 15% DW; NPDES, ± 20% other programs, ±25% or within vendor specs for Solid LCSs, ±50% for tissue matrix?	YES	*	RR	01/24/2013
RPD of the 2 LCSs <20% for Aqueous matrix, <25% for Solid matrix, <50% for tissue matrix?	YES	*	RR	01/24/2013

Matrix Spike, Matrix Spike Dup data			Analyst Initials	Date
Recovery of the MS ±20% for aqueous matrix; ± 25% for solid matrix; ± 50% for sludge and tissue matrix?	NO	*	RR	01/24/2013
Matrix Spike Recovery for Lead (1280%) was outside acceptance limits (75-125) in B301103-MS1 for E-Lead ICP				
If no, is analyte concentration > 1.0 X the spike concentration?	YES		RR	01/24/2013
RPD between the MS & Serial Dilution < 10%?	YES	*	RR	01/24/2013

Sample result data			Analyst Initials	Date
% RSD for all sample results > Reporting Limit within 20%?	YES		RR	01/24/2013

Holding time check			Analyst Initials	Date
All samples analyzed within the prescribed holding time?	YES	*	RR	01/24/2013

Sample result data			Analyst Initials	Date
Any QA/QC qualifiers or special comments required?	NA		RR	01/24/2013

Documentation			Analyst Initials	Date
Sample Preparation Log Book entries completed?	NA		RR	01/24/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ICP-AES QA/QC Checklist for BATCH B301103

Jewett White Lead - 1212042
1301038

Analysis	Matrix	Method
E-Lead ICP	Solid	EPA 200.7 / SOP C-109 Rev3.2

Instrument Analysis Log Book entries completed?	NA	RR	01/24/2013
Percent Solids Log Book info entries completed?	YES	RR	01/24/2013
pH Log Book Log Book info entries completed?	NA	RR	01/24/2013

Final Review			Analyst Initials	Date
Example calculation present and correct?	YES	*	RR	01/24/2013
Example calculation for Jewett White P-1212042 present in package from W.O. # 1301023				
Peer reviewed? Date and person responsible.	YES	*	LEB	01/25/2013

* = Automated Response from Promium

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301103

Prepared by: RR
Prepared on: 01/24/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	pH<2	Balance	Filtered	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID
Jewett White Lead - 1212042	1301038-01	N/A	25B	Yes	0.5283	50					
	1301038-02	N/A	25B	Yes	0.5225	50					
	1301038-03	N/A	25B	Yes	0.5111	50					
	1301038-04	N/A	25B	Yes	0.5388	50					
	1301038-05	N/A	25B	Yes	0.544	50					
	1301038-06	N/A	25B	Yes	0.5438	50					
	1301038-07	N/A	25B	Yes	0.5393	50					
	B301103-BLK1	N/A	25B	Yes	0.5009	50		0		0	
	B301103-MS1	N/A	25B	Yes	0.528	50	D2L0305	200	D2L0306	200	1301038-01
	B301103-MSD1	N/A	25B	Yes	0.528	50	D2L0305	200	D2L0306	200	1301038-01
	B301103-SRM1	N/A	25B	Yes	0.5006	50	D2H1612	500		0	
	B301103-SRM2	N/A	25B	Yes	0.5015	50	D2H1612	500		0	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Metals Sample Prep
Batch ID: B301103

Prepared by: RR
Prepared on: 01/24/2013

Matrix Type: Solid
Method (SOP)
EPA 200.7 / SOP C-109 F

DigiBloc ID: 1
Temp(Deg C) Start/Final: 95/95

Standards and Reagents

Standard	Description	Expiration Date
D2C0708	HNO3, Concentrated	03/05/2016
D2H1612	Metals in Soil Certified Reference Material	10/31/2015
D2H2417	HCL, Concentrated	07/31/2017
D2L0305	ICP Spike Mix #1, Trace 50 mg/L	12/03/2013
D2L0306	ICP Spike Mix #2, Salts + Sn	12/03/2013

Project Name	Sample ID	Balance	Initial Wt(g)/ Vol(ml)	Final Vol(ml)	Spike 1 ID	Spike 1 Wt(mg)/ Vol(ul)	Spike 2 ID	Spike 2 Wt(mg)/ Vol(ul)	Source ID

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301049

Instrument: ICAP 6300

Printed: 1/25/2013 7:32:25AM

Project Name	Lab Number	Analysis	STD ID
	S301049-CAL1	QC	D3A1531
	S301049-CAL2	QC	D2K1202
	S301049-CAL3	QC	D2K1203
	S301049-ICV1	QC	D2K1204
	S301049-ICB1	QC	D3A1531
	S301049-LCV1	QC	D2K1206
	S301049-LCV2	QC	D2K1207
	S301049-IFA1	QC	D2K1208
	B301095-BLK1	QC	
	B301095-BS1	QC	
Metaltec Aerosystems - 1301029	1301029-03	E-Metals ICP TAL	
	B301095-MS1	QC	
	B301095-MSD1	QC	
Metaltec Aerosystems - 1301029	1301029-01	E-Metals ICP TAL	
Metaltec Aerosystems - 1301029	1301029-02	E-Metals ICP TAL	
Metaltec Aerosystems - 1301029	1301029-04	E-Metals ICP TAL	
Mohonk Road - 1301014	L301020-03	E-Metals ICP TAL	
	B301095-BSD1	QC	
	S301049-CCV1	QC	D2K1204
	S301049-CCB1	QC	D3A1531
	B301095-MS2	QC	
	B301095-MSD2	QC	
Mohonk Road - 1301014	1301020-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301020-04	E-Metals ICP TAL	
Mohonk Road - 1301014	1301020-05	E-Metals ICP TAL	
Mohonk Road - 1301014	1301014-01	E-Metals ICP TAL	
Mohonk Road - 1301014	1301018-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301018-03	E-Metals ICP TAL	
Mohonk Road - 1301014	1301026-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301026-03	E-Metals ICP TAL	
	S301049-CCV2	QC	D2K1204
	S301049-CCB2	QC	D3A1531
Mohonk Road - 1301014	1301028-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301028-03	E-Metals ICP TAL	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

ANALYSIS SEQUENCE
S301049

Instrument: ICAP 6300

Printed: 1/25/2013 7:32:25AM

Project Name	Lab Number	Analysis	STD ID
Mohonk Road - 1301014	1301030-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301030-03	E-Metals ICP TAL	
Mohonk Road - 1301014	1301031-02	E-Metals ICP TAL	
Mohonk Road - 1301014	1301031-03	E-Metals ICP TAL	
	B301103-BLK1	QC	
	B301103-SRM1	QC	
	B301103-SRM2	QC	
	S301049-CCV3	QC	D2K1204
	S301049-CCB3	QC	D3A1531
Jewett White Lead - 1212042	1301038-01	E-Lead ICP	
	B301103-MS1	QC	
	B301103-MSD1	QC	
Jewett White Lead - 1212042	1301038-02	E-Lead ICP	
Jewett White Lead - 1212042	1301038-03	E-Lead ICP	
Jewett White Lead - 1212042	1301038-04	E-Lead ICP	
Jewett White Lead - 1212042	1301038-05	E-Lead ICP	
Jewett White Lead - 1212042	1301038-06	E-Lead ICP	
Jewett White Lead - 1212042	1301038-07	E-Lead ICP	
	S301049-CCV4	QC	D2K1204
	S301049-CCB4	QC	D3A1531
	S301049-CCV5	QC	D2K1204
	S301049-CCB5	QC	D3A1531
	S301049-LCV3	QC	D2K1206
	S301049-LCV4	QC	D2K1207
	S301049-IFA2	QC	D2K1208

	Pos ID	Type	Samplename	Comment	Cu	Instrument	Method	CorrFact	Check	Check Table	Fail Action
1	1	QC	B301095-BLK1			ICAP6300	SOP-C-109	1	☒	PBW	None
2	2	QC	B301095-BS1			ICAP6300	SOP-C-109	1	☒	LCSW	None
3	3	QC	B301095-BSD1			ICAP6300	SOP-C-109	1	☒	LCSW	None
4	4	Unk	1301029-03	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
5	5	Unk	B301095-MS1	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
6	6	Unk	B301095-MSD1	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
7	7	Unk	1301029-01	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
8	8	Unk	1301029-02	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
9	9	Unk	1301029-04	METALTEC (1301029)		ICAP6300	SOP-C-109	1	☒	LDR	---
10	10	Unk	1301020-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
11	11	Unk	B301095-MS2	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
12	12	Unk	B301095-MSD2	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
13	13	Unk	1301020-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
14	14	Unk	1301020-04	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
15	15	Unk	1301020-05	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
16	16	Unk	1301014-01	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
17	17	Unk	1301018-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
18	18	Unk	1301018-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
19	19	Unk	1301026-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
20	20	Unk	1301026-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
21	21	Unk	1301028-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
22	22	Unk	1301028-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
23	23	Unk	1301030-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
24	24	Unk	1301030-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
25	25	Unk	1301031-02	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
26	26	Unk	1301031-03	MOHONK RD. (1301014)		ICAP6300	SOP-C-109	1	☒	LDR	---
27	27	Unk	RINSE			ICAP6300	SOP-C-109	1	☒	LDR	---
28	28	QC	B301103-BLK1	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	PBS	None
29	29	QC	B301103-SRM1	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LCSS	None
30	30	QC	B301103-SRM2	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LCSS	None
31	31	Unk	BLANK	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
32	32	Unk	1301038-01	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
33	33	Unk	B301103-MS1	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
34	34	Unk	B301103-MSD1 @5	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
35	35	Unk	1301038-02	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
36	36	Unk	1301038-03	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
37	37	Unk	1301038-04	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
38	38	Unk	1301038-05	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
39	39	Unk	1301038-06	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---
40	40	Unk	1301038-07	JEWETT WHITE (1212042)		ICAP6300	SOP-C-109	1	☒	LDR	---

SUMMARY - VERTICAL REPORT

	Blank	MID STD	HIGH STD	S301049-ICV1	S301049-ICB1	S301049-LCV1	S301049-LCV2	S301049-IFA1
	24 Jan 2013 11:57:44	24 Jan 2013 12:02:16	24 Jan 2013 12:06:48	24 Jan 2013 12:12:14	24 Jan 2013 12:16:39	24 Jan 2013 12:21:12	24 Jan 2013 12:25:44	24 Jan 2013 12:30:15
Ag3280	-.0004	.3317	.6469	202.0	.2021	5.709	10.43	1.323
Al3961R	-.0001	.2117	.4107	4767.	9.189	103.6	204.0	311600.
As1890	.0001	.2349	.4738	196.5	2.251	9.773	18.28	-1.940
Ba4554R	.0071	10.68	20.66	197.7	.5166	98.04	194.0	.2746
Be3131R	.0014	11.38	22.07	196.6	.4550	3.377	6.154	.8038
Ca3179R	.0072	.6671	1.288	4954.	-.5494	495.9	990.0	298600.
Cd2265	.0002	6.760	13.26	205.8	.4474	3.254	6.237	.3682
Co2286	.0001	3.111	6.253	193.0	.0582	19.80	39.02	-1.211
Cr2677	.0006	2.947	5.719	213.0	-.1519	4.939	10.59	-2.001
Cu3247	.0384	4.207	8.116	200.7	.1740	10.51	21.05	-1.934
Fe2599R	.0000	.3869	.7534	5004.	2.407	45.15	98.51	300700.
K_7664R	-.0028	.1310	.2589	5009.	14.24	481.0	986.9	3.839
Mg2790R	.0002	.0865	.1694	4994.	.4240	492.5	1023.	304600.
Mn2576	.0006	15.91	30.90	216.2	-.0122	5.373	10.75	-.1568
Na5895R	.0069	.4157	.8052	4904.	-15.30	963.3	1939.	303300.
Ni2316	.0011	1.056	2.119	198.2	.8333	19.38	39.50	-1.487
Pb2203	.0000	.7966	1.596	200.2	1.126	9.788	17.24	-1.429
Sb2068	-.0003	.2561	.5171	197.6	1.702	25.07	40.58	5.142
Se1960	.0001	.2175	.4375	197.1	1.301	20.59	40.67	5.946
Tl1908	-.0001	.3271	.6584	196.8	.3208	19.73	36.78	-2.031
V_2924	-.0007	3.299	6.404	212.1	.1780	21.21	41.51	-2.413
Zn2062	-.0001	4.817	9.639	194.3	.2818	19.72	39.14	4.610
Mo2020	.0002	1.662	3.349	201.6	1.512	10.39	19.84	-2.447
Ti3372	-.0016	10.54	20.15	208.3	.1416	10.49	20.77	1.415
B_2089	.0005	.7191	1.458	206.2	4.882	12.76	19.59	2.780
Si2881A	.0055	.5050	.9708	5248.	-5.385	513.3	1019.	-30.25
Si2881R	.0002	.0871	.1709	4991.	-3.745	478.2	962.0	-31.02
Sn1899	.0001	.3626	.7257	188.0	1.318	10.73	20.74	4.495
Sr3464	-.0005	2.955	5.817	205.6	.2148	10.57	20.77	1.330
Y_2243-A	16950.	16667.	16534.	17154.	17142.	17148.	17251.	15740.
Y_3203-A	47466.	48199.	48933.	47293.	47565.	47743.	47972.	43001.
Y_3600-R	21571.	20909.	21341.	20874.	21158.	20727.	20390.	19818.

SUMMARY - VERTICAL REPORT

	B301095-BLK1	B301095-BS1	B301095-BSD1	1301029-03	B301095-MS1	B301095-MSD1 @5	1301029-01	1301029-02
	24 Jan 2013 12:35:10	24 Jan 2013 12:39:41	24 Jan 2013 12:44:02	24 Jan 2013 12:48:24	24 Jan 2013 12:52:54	24 Jan 2013 12:57:15	24 Jan 2013 13:01:44	24 Jan 2013 13:06:14
Ag3280	-.6130	214.9	211.9	.5084	214.0	42.02	.6816	-.2548
Al3961R	21.82	5207.	5122.	69.02	5321.	1049.	78.29	65.94
As1890	2.685	212.8	206.3	1.468	206.9	41.68	1.002	4.950
Ba4554R	-.0309	210.5	209.3	15.24	224.0	44.44	5.546	18.58
Be3131R	.0520	209.5	207.9	.2978	210.0	41.03	.2222	.2924
Ca3179R	13.18	5279.	5203.	67670.	73110.	14310.	69450.	67350.
Cd2265	.0063	217.1	214.6	.0767	209.8	42.34	.0743	-.0048
Co2286	.0246	208.2	207.4	-.1001	205.0	40.96	-.2113	.0316
Cr2677	-.7670	223.4	220.0	2.875	220.6	43.92	.4898	3.078
Cu3247	-.1673	220.6	218.0	.9352	218.0	42.59	.0801	1.463
Fe2599R	2.122	5225.	5180.	2.555	5221.	1029.	7.877	10.85
K_7664R	26.84	5220.	5152.	1770.	6996.	1351.	1414.	1732.
Mg2790R	.2309	5282.	5212.	30310.	35380.	7049.	30100.	29800.
Mn2576	-.0906	227.0	225.1	-.2256	224.8	44.79	33.94	-.1276
Na5895R	221.5	5317.	5212.	37310.	42870.	8459.	14890.	36220.
Ni2316	.5316	209.7	210.4	1.627	204.8	41.32	2.013	1.235
Pb2203	-.4909	212.8	209.2	.9161	204.3	41.23	.1303	2.374
Sb2068	4.620	216.3	217.7	-.7724	220.7	43.39	-1.202	6.961
Se1960	-.7914	211.1	207.6	2.361	209.0	41.22	3.106	.9645
Tl1908	-2.751	203.7	204.9	-.5988	199.9	28.56	6.822	-6.509
V_2924	-.1839	221.0	219.5	.6211	220.3	43.11	.1838	.3718
Zn2062	.3452	212.9	210.9	2.918	209.7	43.16	.6129	2.898
Mo2020	-.6185	208.0	208.2	.3894	209.7	41.06	.5836	.6291
Ti3372	.0248	222.4	219.2	-.2299	218.1	43.25	-.5248	-.3678
B_2089	-1.252	207.0	207.7	22.08	232.4	45.02	23.75	19.51
Si2881A	-1.750	258.4	258.8	7579.	7957.	1610.	8276.	7418.
Si2881R	-20.59	200.2	205.6	7273.	7710.	1488.	7942.	7251.
Sn1899	-.2792	201.3	201.3	1.004	199.5	42.41	1.593	.1956
Sr3464	.0184	222.1	218.6	93.47	306.9	62.24	78.63	91.11
Y_2243-A	17616.	17474.	17282.	17128.	16980.	17083.	17111.	17124.
Y_3203-A	47950.	48345.	47590.	47356.	46962.	47024.	47308.	47489.
Y_3600-R	20915.	20312.	20257.	20100.	20317.	19209.	20076.	20147.

SUMMARY - VERTICAL REPORT

	1301029-04	1301020-03	S301049-CCV1	S301049-CCB1	B301095-MS2	B301095-MSD2 @5	1301020-02	1301020-04
	24 Jan 2013 13:10:44	24 Jan 2013 13:15:14	24 Jan 2013 13:19:44	24 Jan 2013 13:24:05	24 Jan 2013 13:28:36	24 Jan 2013 13:32:57	24 Jan 2013 13:37:26	24 Jan 2013 13:41:56
Ag3280	.2958	.5636	202.2	-.4113	213.2	42.28	.1914	-.5817
Al3961R	82.04	91.64	4795.	-5.906	5238.	1045.	56.30	81.99
As1890	2.533	1.280	199.2	2.678	210.5	43.95	8.233	.4809
Ba4554R	15.42	131.6	197.3	.2447	340.6	67.91	4103.	161.4
Be3131R	.2412	.3271	192.7	.3357	204.5	40.98	.1964	.2704
Ca3179R	67020.	86990.	5001.	1.435	94060.	18570.	41630.	86730.
Cd2265	.0654	.0011	207.5	.0704	211.5	43.14	.1360	.2807
Co2286	-.3243	-.1644	194.2	.3389	206.0	41.50	-.0667	.1735
Cr2677	3.254	.5086	213.2	.3901	220.9	45.17	2.138	.0338
Cu3247	1.371	2.702	198.8	.2735	220.4	43.78	.7898	7.025
Fe2599R	2.344	.6396	5040.	4.479	5171.	1030.	2134.	36.32
K_7664R	1721.	732.1	5005.	-66.85	5968.	1214.	1592.	950.4
Mg2790R	30090.	15750.	5088.	4.221	21510.	4278.	9681.	13880.
Mn2576	-.1688	-.0438	216.6	-.2913	227.2	45.14	329.9	.1505
Na5895R	37100.	8380.	4978.	16.69	13680.	2736.	57260.	21210.
Ni2316	.9572	1.697	200.6	1.468	206.8	42.57	2.946	2.266
Pb2203	.0642	3.639	202.0	.1374	210.3	41.88	1.066	4.115
Sb2068	8.984	-.9653	200.0	-.7583	214.3	51.11	3.372	-2.041
Se1960	1.993	2.090	201.1	-1.635	211.9	42.10	-1.381	6.715
Tl1908	-9.217	7.696	196.7	.8360	192.5	37.52	-3.936	-19.76
V_2924	-.0618	-.5852	210.7	-.6412	219.7	43.12	-.7630	-.4175
Zn2062	3.319	22.87	199.3	-.1883	234.4	48.07	2.784	45.45
Mo2020	.3246	.0306	194.1	-.6479	209.4	41.37	.7578	.1913
Ti3372	-.3393	-.4477	204.7	-.2207	217.5	42.76	-.5833	-.1019
B_2089	20.04	30.56	194.1	-1.518	239.0	45.79	173.9	19.53
Si2881A	7543.	4503.	5252.	-3.616	4992.	1004.	3686.	4492.
Si2881R	7250.	4284.	5028.	-49.00	4773.	942.8	3262.	4466.
Sn1899	.3954	1.138	193.1	2.747	203.0	42.09	1.786	1.143
Sr3464	92.29	302.1	206.3	.2348	526.5	105.5	1793.	251.5
Y_2243-A	17123.	17226.	17221.	17186.	16948.	17233.	17091.	16824.
Y_3203-A	46945.	47516.	48006.	47402.	46296.	47062.	44985.	47894.
Y_3600-R	19483.	20153.	19055.	19767.	18911.	18971.	19557.	19199.

SUMMARY - VERTICAL REPORT

	1301020-05	1301014-01	1301018-02	1301018-03	1301026-02	1301026-03	S301049-CCV2	S301049-CCB2
	24 Jan 2013 13:46:26	24 Jan 2013 13:50:57	24 Jan 2013 13:55:27	24 Jan 2013 13:59:57	24 Jan 2013 14:04:28	24 Jan 2013 14:09:03	24 Jan 2013 14:13:32	24 Jan 2013 14:17:53
Ag3280	.5904	-.0071	.4069	-.3234	.4819	-.2552	202.7	-.2956
Al3961R	81.75	108.1	202.9	62.76	180.0	154.3	4761.	.5375
As1890	-.7851	.8454	2.610	4.353	1.581	3.682	198.9	3.366
Ba4554R	156.5	168.4	183.3	85.22	65.34	102.0	193.6	.4485
Be3131R	.3883	.1421	.3486	.3212	-.0029	.4001	189.6	-.0042
Ca3179R	85670.	90180.	44990.	33780.	113200.	83300.	5006.	3.838
Cd2265	.1954	-.1262	.6598	.0512	.1343	.0737	208.4	.1750
Co2286	-.0176	.4007	7.863	-.1300	.5251	.6365	193.5	-.0681
Cr2677	.2600	-.4168	5.270	1.827	28.48	22.91	215.6	-.0619
Cu3247	3.905	3.409	4.074	2.164	6.693	3.301	198.4	.8939
Fe2599R	6.521	9.655	1647.	168.1	232.1	614.6	4997.	2.422
K_7664R	1038.	841.7	1846.	516.9	916.1	853.3	4941.	35.80
Mg2790R	13640.	14220.	8413.	4941.	19480.	15020.	5069.	-25.94
Mn2576	-.1607	-.1576	472.2	8.472	40.03	7.165	217.5	-.2055
Na5895R	20980.	11470.	12690.	2827.	12580.	8044.	4947.	28.32
Ni2316	1.924	1.309	5.865	3.966	22.94	16.02	200.0	1.276
Pb2203	.8356	1.721	32.50	1.717	2.460	2.831	204.1	.8159
Sb2068	.4400	.4128	.2789	-2.652	3.457	.2537	198.1	-.5064
Se1960	3.487	2.417	.4879	3.388	.4813	.6349	202.3	-2.146
Tl1908	-12.74	-11.79	-12.13	-2.440	-14.87	-10.95	197.1	-1.999
V_2924	-.3857	-1.113	-.3937	-.5759	-.5683	-.3309	211.4	-.3194
Zn2062	32.72	19.86	42.24	27.77	77.63	29.47	201.7	-.3340
Mo2020	.3177	-.1266	10.62	-.2642	3.598	2.928	192.0	-.4900
Ti3372	-.4362	.6568	2.903	-.1575	1.050	.5820	205.5	-.1339
B_2089	19.46	41.08	56.72	4.147	262.5	73.20	190.6	.1114
Si2881A	4688.	4625.	4017.	4322.	5269.	4942.	5322.	-5.185
Si2881R	4437.	4371.	3789.	4055.	4991.	4756.	5060.	-19.15
Sn1899	3.974	1.390	.7706	.4958	2.580	.1115	195.6	4.166
Sr3464	261.7	291.2	859.2	232.6	491.4	241.8	207.4	-.0477
Y_2243-A	16987.	16974.	17365.	17239.	16897.	17308.	17183.	17186.
Y_3203-A	46628.	46183.	47009.	47450.	46136.	46349.	46724.	47274.
Y_3600-R	19185.	18881.	18994.	19011.	19276.	18704.	18999.	19011.

SUMMARY - VERTICAL REPORT

	1301028-02	1301028-03	1301030-02	1301030-03	1301031-02	1301031-03	RINSE	B301103-BLK1
	24 Jan 2013 14:22:25	24 Jan 2013 14:26:57	24 Jan 2013 14:31:28	24 Jan 2013 14:35:58	24 Jan 2013 14:40:28	24 Jan 2013 14:44:59	24 Jan 2013 14:49:30	24 Jan 2013 14:54:03
Ag3280	-.0701	.1560	.1709	-.1237	.0839	.2833	-.1365	.2569
Al3961R	218.4	327.9	156.9	124.6	108.9	62.04	13.85	67.75
As1890	1.320	-.9228	3.252	10.30	2.894	5.344	2.381	2.258
Ba4554R	96.63	115.1	1075.	159.8	106.0	433.3	.4095	.9570
Be3131R	.3306	.0651	.2117	.1943	.2457	.5781	.6009	.2030
Ca3179R	74320.	29180.	97580.	90020.	83510.	53710.	16.33	24.05
Cd2265	.2178	.1585	.0562	.0203	.2016	-.1638	.0383	-.0523
Co2286	2.011	.6660	.4785	1.026	.3278	1.625	.1558	-.0712
Cr2677	9.721	32.83	8.428	6.355	3.895	.8654	-.1936	-.2350
Cu3247	4.875	6.722	4.954	2.032	2.620	1.105	.6902	1.333
Fe2599R	255.9	299.8	948.5	8716.	717.8	8540.	2.757	28.19
K_7664R	961.6	481.6	1174.	1533.	1217.	2117.	7.035	-.7742
Mg2790R	14470.	3455.	15910.	15910.	12010.	11960.	-36.41	26.97
Mn2576	4.115	8.656	43.63	39.88	20.81	553.9	-.1260	.1361
Na5895R	4851.	2121.	12450.	7069.	25830.	24990.	2.187	115.5
Ni2316	8.996	21.48	7.010	5.685	2.422	1.335	.9308	3.526
Pb2203	4.351	1.452	3.713	2.251	1.840	.4539	2.186	.6487
Sb2068	.0087	-.2086	1.666	-1.901	3.703	3.568	.0144	2.241
Se1960	1.511	1.550	2.607	.3429	-.0765	1.915	3.936	.3165
Tl1908	-3.033	-1.628	-4.180	-3.144	-15.41	F -23.10	-.7990	-3.291
V_2924	.1880	-.0590	-.3434	-.6259	.1887	-.5269	-.3259	-.1012
Zn2062	42.19	58.05	58.63	20.98	46.81	19.13	.0984	4.146
Mo2020	2.591	3.462	1.939	3.742	.0262	-.1647	-.7843	-.1151
Ti3372	2.620	6.084	.2743	.4258	.0303	-.2148	-.0404	.0682
B_2089	16.62	4.142	16.69	16.92	37.42	25.67	-.7630	-2.202
Si2881A	4202.	4824.	4062.	4046.	4470.	3385.	-4.216	266.9
Si2881R	4005.	4491.	3867.	3996.	4227.	3198.	-24.08	208.1
Sn1899	1.654	2.321	.8040	1.590	2.303	.9883	1.922	3.182
Sr3464	405.7	65.62	728.1	2455.	575.5	1183.	.7467	.2117
Y_2243-A	17386.	17605.	16883.	17125.	17346.	17412.	17576.	17794.
Y_3203-A	47587.	47798.	46771.	47007.	47095.	47185.	47470.	48633.
Y_3600-R	19068.	19405.	18930.	18934.	19626.	19172.	19001.	19413.

SUMMARY - VERTICAL REPORT

	B301103-SRM1	B301103-SRM2	S301049-CCV3	S301049-CCB3	BLANK	1301038-01	B301103-MS1	B301103-MSD1 @5
	24 Jan 2013 14:58:36	24 Jan 2013 15:03:03	24 Jan 2013 15:07:30	24 Jan 2013 15:11:52	24 Jan 2013 15:16:25	24 Jan 2013 15:20:58	24 Jan 2013 15:25:32	24 Jan 2013 15:30:05
Ag3280	428.9	415.7	200.9	.0806	.3052	-.9905	202.7	39.78
Al3961R	91930.	84760.	4745.	28.01	24.53	61080.	68320.	13630.
As1890	1694.	1648.	202.1	3.416	1.597	62.79	268.5	53.30
Ba4554R	2076.	2031.	193.5	.7480	-.2801	238.8	519.0	103.7
Be3131R	1074.	1042.	190.7	.2670	-.0960	2.901	202.1	40.13
Ca3179R	69440.	65950.	4992.	7.374	-8.163	24210.	52670.	10520.
Cd2265	1063.	999.3	209.8	.1379	.0135	3.341	219.0	42.90
Co2286	1311.	1263.	193.0	-.1280	-.2980	59.00	263.3	51.03
Cr2677	1295.	1229.	217.4	.3342	-.4679	179.9	365.7	72.01
Cu3247	1225.	1155.	196.2	.5063	6.694	194.4	428.4	84.42
Fe2599R	141300.	135400.	5006.	3.561	2.656	155200.	151700.	30360.
K_7664R	30630.	29610.	5050.	13.82	40.65	4856.	10590.	2097.
Mg2790R	28020.	26930.	5080.	.2529	-.3088	25950.	31140.	6213.
Mn2576	3657.	3423.	214.9	-.1624	-.1892	1748.	1923.	384.2
Na5895R	3373.	3232.	4875.	-5.665	-26.15	316.0	5445.	1076.
Ni2316	715.7	679.1	199.3	.5352	-1.159	249.0	423.9	84.19
Pb2203	752.4	737.2	202.3	1.294	-.1892	2429.	4995.	982.1
Sb2068	1568.	1651.	199.4	1.283	3.243	10.44	211.6	42.74
Se1960	1348.	1231.	204.5	-.5149	-1.300	.7481	205.9	41.51
Tl1908	2035.	1975.	195.3	-2.785	.0526	-4.080	200.5	38.84
V_2924	954.4	916.2	209.8	-.7692	-.0228	151.7	372.6	73.57
Zn2062	2832.	2723.	201.3	-.1909	-.1496	1407.	1848.	364.9
Mo2020	630.1	607.0	191.1	-.4784	-.6075	2.023	201.3	38.04
Ti3372	2793.	2514.	205.2	.0228	1.944	1300.	1620.	332.4
B_2089	836.5	802.9	186.2	-1.097	-1.691	14.42	209.7	39.35
Si2881A	23370.	20350.	5287.	-8.160	-18.70	8093.	8876.	2425.
Si2881R	23000.	20240.	5017.	-22.29	15.29	8126.	8674.	2292.
Sn1899	1406.	1435.	192.9	1.466	-.5259	13.81	218.1	44.51
Sr3464	1370.	1306.	207.7	-.5501	.1291	129.4	445.5	87.76
Y_2243-A	17673.	17954.	17345.	17426.	32230.	17984.	17566.	17578.
Y_3203-A	49033.	50073.	47753.	47494.	85715.	49154.	48536.	48462.
Y_3600-R	19816.	20228.	18922.	18780.	33091.	19186.	19148.	18458.

SUMMARY - VERTICAL REPORT

	1301038-02	1301038-03	1301038-04	1301038-05	1301038-06	1301038-07	S301049-CCV4	S301049-CCB4
	24 Jan 2013 15:34:32	24 Jan 2013 15:39:07	24 Jan 2013 15:43:47	24 Jan 2013 15:48:29	24 Jan 2013 15:53:13	24 Jan 2013 15:57:54	24 Jan 2013 16:02:35	24 Jan 2013 16:06:57
Ag3280	-1.757	-.7138	-.4190	-1.537	.3225	1.787	199.6	-.4910
Al3961R	61640.	63390.	71190.	86230.	58550.	80420.	4703.	15.20
As1890	63.26	74.73	544.2	128.4	145.4	211.5	204.7	1.890
Ba4554R	257.0	481.1	2646.	756.5	388.9	1115.	191.1	.6262
Be3131R	3.209	3.735	4.232	5.816	2.941	5.148	184.3	.3356
Ca3179R	20990.	45600.	26890.	21220.	28710.	56320.	4971.	7.647
Cd2265	2.998	5.517	7.047	1.514	44.74	11.13	210.6	.0633
Co2286	61.32	71.47	64.32	58.17	88.57	64.28	191.5	.1708
Cr2677	143.5	218.7	192.2	150.0	214.6	195.5	217.2	.4683
Cu3247	193.5	467.4	595.3	367.0	790.9	1052.	193.4	2.813
Fe2599R	150800.	176200.	208000.	195600.	204200.	214800.	4973.	12.19
K_7664R	5167.	6102.	6359.	5919.	5538.	6952.	4894.	-29.93
Mg2790R	23620.	28280.	30820.	19980.	25750.	29800.	5037.	3.722
Mn2576	1811.	2198.	2413.	3446.	2421.	3716.	214.5	-.0690
Na5895R	327.5	552.0	485.4	528.1	864.8	1103.	4787.	-14.08
Ni2316	214.8	354.0	220.4	116.4	199.0	231.0	196.9	1.675
Pb2203	2517.	5539.	3452.	1928.	2301.	58420.	214.3	2.483
Sb2068	9.789	16.26	22.97	33.18	41.73	127.4	202.2	-3.233
Se1960	3.861	4.445	.9270	-.7676	6.004	4.692	205.1	-.0780
Tl1908	-4.004	-6.764	-5.313	-3.961	-6.043	-8.956	191.4	-1.061
V_2924	151.5	228.1	217.2	223.7	261.6	319.9	208.7	-1.523
Zn2062	1373.	4213.	6650.	1888.	19290.	9223.	205.1	.2207
Mo2020	1.521	4.223	2.991	3.139	7.722	5.219	186.8	-.6766
Ti3372	1387.	1726.	1600.	1519.	2228.	2083.	202.5	-.4086
B_2089	19.28	22.99	20.16	21.67	67.56	45.44	186.2	-.7321
Si2881A	10040.	6348.	6453.	7529.	5064.	8142.	5257.	-4.504
Si2881R	9900.	6449.	6420.	7187.	5228.	7946.	4982.	-20.52
Sn1899	15.85	46.08	253.4	80.41	154.3	261.7	192.3	1.760
Sr3464	140.1	236.8	239.7	214.8	187.8	285.5	206.5	.5876
Y_2243-A	18173.	17983.	18144.	19350.	17789.	18223.	17712.	17716.
Y_3203-A	49435.	49463.	49764.	50459.	50549.	49103.	47910.	48050.
Y_3600-R	18942.	18939.	19052.	19383.	19347.	19300.	17928.	17819.

SUMMARY - VERTICAL REPORT

	S301049-CCV5	S301049-CCB5	S301049-LCV3	S301049-LCV4	S301049-IFA2
	24 Jan 2013 16:11:28	24 Jan 2013 16:15:51	24 Jan 2013 16:20:22	24 Jan 2013 16:24:54	24 Jan 2013 16:29:25
Ag3280	200.1	.0997	5.523	9.498	1.385
Al3961R	4767.	-8.119	105.7	203.4	315200.
As1890	206.0	1.794	9.020	17.37	-.5187
Ba4554R	193.9	.9839	96.53	188.1	1.205
Be3131R	186.9	.6614	3.278	6.020	.9668
Ca3179R	5069.	5.414	497.6	981.3	308700.
Cd2265	214.8	.0856	3.063	6.415	.7086
Co2286	192.9	.0022	19.68	38.33	-1.150
Cr2677	223.5	.3552	5.874	11.60	-1.445
Cu3247	194.5	.8137	12.12	21.31	-1.777
Fe2599R	5035.	2.030	52.05	95.85	307300.
K_7664R	4973.	-97.76	383.3	1002.	131.1
Mg2790R	5138.	22.50	518.9	1016.	318300.
Mn2576	216.2	-.1118	5.335	10.57	-.3741
Na5895R	4835.	2.210	963.3	1879.	302200.
Ni2316	199.8	2.386	21.99	39.44	-.9957
Pb2203	211.5	1.536	10.33	14.70	-1.468
Sb2068	205.1	3.243	24.23	40.90	1.525
Se1960	211.4	2.361	22.36	39.41	1.725
Tl1908	194.2	-.9156	15.34	33.13	-.8969
V_2924	210.5	-1.082	20.70	40.73	-3.767
Zn2062	208.2	-.2216	20.87	40.34	4.294
Mo2020	187.8	-.5437	9.108	18.04	-2.845
Ti3372	205.3	-.2304	10.14	20.17	1.313
B_2089	183.6	-1.916	F 6.786	16.21	-.0413
Si2881A	5351.	-3.992	515.1	1013.	-36.26
Si2881R	5097.	-5.934	477.5	928.2	-57.61
Sn1899	198.0	1.566	12.79	21.94	3.566
Sr3464	210.0	-.2288	11.08	20.29	1.382
Y_2243-A	17518.	17821.	17864.	17825.	16013.
Y_3203-A	47190.	47364.	48117.	47854.	41824.
Y_3600-R	17463.	17429.	17503.	17406.	16159.

Sample Name: Blank Acquired: 1/24/2013 11:57:44 Type: Cal
Method: PROM-2013(v9) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0004**	**-.0001**	**.0001**	**.0071**	**.0014**	**.0072**	**.0002**	**.0001**	**.0006**	**.0384**	**.0000**
Stddev	.0005	.0006	.0001	.0005	.0003	.0004	.0003	.0001	.0003	.0005	.0003
%RSD	120.6	661.5	145.1	7.015	19.97	5.104	129.4	77.90	43.06	1.430	37310.
#1	.0001	.0005	.0000	.0065	.0011	.0068	.0005	.0002	.0004	.0382	-.0001
#2	-.0004	.0000	.0001	.0073	.0015	.0075	.0002	.0002	.0006	.0390	.0003
#3	-.0009	-.0007	.0002	.0074	.0016	.0073	-.0001	.0000	.0009	.0380	-.0002

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0028**	**.0002**	**.0006**	**.0069**	**.0011**	**.0000**	**-.0003**	**.0001**	**-.0001**	**-.0007**	**-.0001**
Stddev	.0004	.0006	.0001	.0018	.0001	.0002	.0001	.0001	.0001	.0005	.0002
%RSD	14.77	276.8	25.21	26.85	5.069	2302.	33.33	145.3	80.00	62.26	371.8
#1	-.0024	-.0003	.0007	.0084	.0011	.0002	-.0002	.0000	-.0001	-.0003	.0000
#2	-.0029	.0000	.0005	.0073	.0011	.0000	-.0004	.0000	-.0002	-.0008	.0001
#3	-.0032	.0009	.0004	.0048	.0010	-.0001	-.0004	.0002	.0000	-.0012	-.0003

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0002**	**-.0016**	**.0005**	**.0055**	**.0002**	**-.0005**	**.0001**
Stddev	.0002	.0009	.0001	.0002	.0003	.0004	.0000
%RSD	100.5	55.86	29.67	3.012	120.8	80.57	28.33
#1	.0002	-.0010	.0003	.0057	.0006	-.0003	.0001
#2	.0004	-.0026	.0005	.0055	.0001	-.0002	.0002
#3	.0000	-.0012	.0006	.0054	.0001	-.0009	.0001

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16950.**	**47466.**	**21571.**
Stddev	**88.**	**727.**	**532.**
%RSD	**.51682**	**1.5308**	**2.4648**
#1	16943.	47828.	22183.
#2	17041.	47940.	21313.
#3	16866.	46630.	21219.

Sample Name: MID STD Acquired: 1/24/2013 12:02:16 Type: Cal
Method: PROM-2013(v9) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3317**	**.2117**	**.2349**	**10.68**	**11.38**	**.6671**	**6.760**	**3.111**	**2.947**	**4.207**	**.3869**
Stddev	.0019	.0044	.0030	.31	.27	.0116	.080	.034	.021	.027	.0084
%RSD	.5858	2.086	1.259	2.909	2.415	1.737	1.187	1.081	.7161	.6345	2.178
#1	.3327	.2166	.2324	11.04	11.70	.6804	6.698	3.089	2.958	4.237	.3966
#2	.3329	.2105	.2342	10.55	11.24	.6617	6.730	3.095	2.923	4.192	.3824
#3	.3294	.2080	.2382	10.46	11.21	.6592	6.850	3.150	2.960	4.191	.3816

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1310**	**.0865**	**15.91**	**.4157**	**1.056**	**.7966**	**.2561**	**.2175**	**.3271**	**3.299**	**4.817**
Stddev	.0038	.0012	.31	.0097	.011	.0101	.0024	.0027	.0037	.014	.067
%RSD	2.865	1.418	1.944	2.342	1.067	1.264	.9532	1.238	1.135	.4348	1.394
#1	.1354	.0879	16.08	.4266	1.050	.7884	.2542	.2153	.3246	3.315	4.767
#2	.1292	.0855	15.55	.4127	1.050	.7937	.2553	.2167	.3252	3.295	4.791
#3	.1286	.0861	16.10	.4078	1.069	.8079	.2589	.2205	.3313	3.287	4.894

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.662**	**10.54**	**.7191**	**.5050**	**.0871**	**2.955**	**.3626**
Stddev	.018	.13	.0087	.0040	.0019	.015	.0046
%RSD	1.081	1.248	1.207	.7927	2.224	.4966	1.258
#1	1.649	10.54	.7124	.5091	.0893	2.967	.3595
#2	1.654	10.41	.7161	.5011	.0862	2.938	.3604
#3	1.682	10.68	.7289	.5050	.0857	2.959	.3678

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	16667.	48199.	20909.
Stddev	45.	660.	298.
%RSD	.26758	1.3686	1.4237
#1	16619.	47984.	20623.
#2	16707.	48939.	21217.
#3	16675.	47674.	20888.

Sample Name: HIGH STD Acquired: 1/24/2013 12:06:48 Type: Cal
Method: PROM-2013(v9) Mode: IR Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6469**	**.4107**	**.4738**	**20.66**	**22.07**	**1.288**	**13.26**	**6.253**	**5.719**	**8.116**	**.7534**
Stddev	.0024	.0016	.0008	.30	.51	.005	.14	.017	.025	.076	.0061
%RSD	.3694	.3945	.1763	1.461	2.331	.3591	1.063	.2671	.4377	.9344	.8143
#1	.6495	.4099	.4747	20.62	22.31	1.284	13.27	6.273	5.748	8.116	.7494
#2	.6466	.4126	.4730	20.98	22.42	1.293	13.11	6.243	5.704	8.041	.7604
#3	.6447	.4097	.4738	20.38	21.48	1.288	13.40	6.244	5.705	8.192	.7503

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2589**	**.1694**	**30.90**	**.8052**	**2.119**	**1.596**	**.5171**	**.4375**	**.6584**	**6.404**	**9.639**
Stddev	.0027	.0014	.39	.0022	.009	.002	.0015	.0004	.0031	.059	.032
%RSD	1.032	.8190	1.259	.2777	.4200	.1501	.2830	.0925	.4743	.9271	.3335
#1	.2560	.1681	30.55	.8043	2.129	1.597	.5183	.4379	.6620	6.432	9.641
#2	.2613	.1709	30.84	.8078	2.113	1.593	.5155	.4372	.6569	6.335	9.606
#3	.2595	.1693	31.32	.8036	2.114	1.598	.5175	.4373	.6563	6.443	9.670

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3.349**	**20.15**	**1.458**	**.9708**	**.1709**	**5.817**	**.7257**
Stddev	.011	.26	.008	.0042	.0011	.009	.0027
%RSD	.3254	1.297	.5530	.4325	.6285	.1467	.3688
#1	3.361	20.13	1.467	.9745	.1697	5.826	.7285
#2	3.344	19.89	1.456	.9717	.1713	5.809	.7232
#3	3.341	20.41	1.452	.9662	.1717	5.815	.7254

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16534.**	**48933.**	**21341.**
Stddev	130.	175.	203.
%RSD	.78568	.35684	.95306
#1	16534.	49121.	21506.
#2	16664.	48904.	21114.
#3	16405.	48775.	21402.

Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)	Correlation	Std Error of Est	MDL	MQL
Ag 328.068 {103}	1/24/2013 12:12:08	1/24/2013 12:12:08	Linear	1/Conc	-0.000422	0.000650	0.000000	1.000000	0.999926	0.473843	1.421529	4.738431
Al 396.152 { 85}2	1/24/2013 12:12:08	1/24/2013 12:12:08	Linear	1/Conc	-0.000087	0.000040	0.000000	1.000000	0.999895	1.856047	5.568142	18.560472
As 189.042 {478}	1/24/2013 12:12:08	1/24/2013 12:12:08	Linear	1/Conc	0.000086	0.000047	0.000000	1.000000	0.999992	0.498767	1.496302	4.987673
Ba 455.403 { 74}	1/24/2013 12:12:08	1/24/2013 12:12:08	Linear	1/Conc	0.007177	0.002089	0.000000	1.000000	0.999876	1.926535	5.779604	19.265345
Be 313.107 {108}	1/24/2013 12:12:08	1/24/2013 12:12:08	Linear	1/Conc	0.001493	0.002229	0.000000	1.000000	0.999890	1.812659	5.437977	18.126591
Ca 317.933 {106}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.007204	0.000129	0.000000	1.000000	0.999899	1.737188	5.211565	17.371884
Cd 226.502 {449}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000253	0.001335	0.000000	1.000000	0.999958	1.116052	3.348156	11.160520
Co 228.616 {447}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000135	0.000623	0.000000	1.000000	0.999997	0.288038	0.864115	2.880383
Cr 267.716 {126}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000675	0.000578	0.000000	1.000000	0.999898	1.746568	5.239705	17.465682
Cu 324.754 {104}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.038437	0.000817	0.000000	1.000000	0.999888	1.828134	5.484403	18.281344
Fe 259.940 {130}2	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000004	0.000076	0.000000	1.000000	0.999920	1.545829	4.637487	15.458291
K 766.490 { 44}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.002839	0.000026	0.000000	1.000000	0.999943	1.303835	3.911504	13.038348
Mg 279.079 {121}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000223	0.000017	0.000000	1.000000	0.999957	1.131469	3.394408	11.314695
Mn 257.610 {131}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000711	0.003121	0.000000	1.000000	0.999903	1.702451	5.107353	17.024511
Na 589.592 { 57}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.006859	0.000080	0.000000	1.000000	0.999936	1.389437	4.168311	13.894371
Ni 231.604 {445}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.001106	0.000211	0.000000	1.000000	0.999999	0.192446	0.577338	1.924460
Pb 220.353 {453}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000006	0.000160	0.000000	1.000000	1.000000	0.099973	0.299919	0.999729
Sb 206.833 {463}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.000324	0.000051	0.000000	1.000000	0.999991	0.508835	1.526506	5.088353
Se 196.090 {472}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000087	0.000044	0.000000	1.000000	0.999996	0.344190	1.032570	3.441899
Tl 190.856 {477}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.000104	0.000066	0.000000	1.000000	0.999995	0.366808	1.100425	3.668085
V 292.402 {115}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.000693	0.000647	0.000000	1.000000	0.999899	1.739449	5.218347	17.394489
Zn 206.200 {463}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.000059	0.000965	0.000000	1.000000	1.000000	0.025688	0.077064	0.256879
Mo 202.030 {467}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000175	0.000334	0.000000	1.000000	0.999993	0.443015	1.329045	4.430151
Ti 337.280 {100}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.001430	0.002047	0.000000	1.000000	0.999763	2.662747	7.988242	26.627474
B 208.959 {461}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000466	0.000143	0.000000	1.000000	0.999978	0.826742	2.480227	8.267424
Si 288.158 {117}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.005541	0.000096	0.000000	1.000000	0.999867	2.031409	6.094226	20.314086
Si 288.158 (117)2	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000232	0.000017	0.000000	1.000000	0.999965	1.035483	3.106449	10.354831
Sr 346.446 { 97}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	-0.000471	0.000585	0.000000	1.000000	0.999972	0.917461	2.752382	9.174606
Sn 189.989 {477}	1/24/2013 12:12:09	1/24/2013 12:12:09	Linear	1/Conc	0.000144	0.000073	0.000000	1.000000	1.000000	0.053033	0.159098	0.530325
Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000
Y 320.332 {105}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000
Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000	0.000000	111.803399	0.000000	0.000000

Sample Name: S301049-ICV1 Acquired: 1/24/2013 12:12:14 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.0**	**4767.**	**196.5**	**197.7**	**196.6**	**4954.**	**205.8**	**193.0**	**213.0**	**200.7**	**5004.**
Stddev	2.5	37.	2.5	2.1	1.5	40.	1.3	.9	.7	1.0	51.
%RSD	1.212	.7729	1.295	1.079	.7866	.7981	.6417	.4886	.3438	.5218	1.013
#1	204.2	4726.	196.5	195.7	194.9	4925.	206.7	194.1	212.3	201.9	4959.
#2	199.4	4798.	199.0	197.5	197.0	4938.	206.3	192.6	213.0	199.9	4995.
#3	202.6	4777.	193.9	200.0	197.8	4999.	204.3	192.3	213.8	200.4	5059.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5009.**	**4994.**	**216.2**	**4904.**	**198.2**	**200.2**	**197.6**	**197.1**	**196.8**	**212.1**	**194.3**
Stddev	34.	66.	1.5	15.	2.0	3.0	5.3	4.2	1.0	2.4	.4
%RSD	.6806	1.322	.6839	.3056	.9913	1.498	2.668	2.118	.5300	1.140	.2142
#1	4969.	4921.	217.8	4887.	198.6	203.5	196.7	192.6	195.6	214.9	194.7
#2	5026.	5013.	214.9	4916.	199.9	199.3	203.3	197.8	197.6	210.4	194.2
#3	5031.	5049.	215.8	4910.	196.1	197.7	192.9	200.9	197.3	211.1	193.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**201.6**	**208.3**	**206.2**	**5248.**	**4991.**	**205.6**	**188.0**
Stddev	3.0	1.0	5.2	38.	48.	.6	1.3
%RSD	1.493	.4610	2.538	.7198	.9603	.3045	.7109
#1	204.4	208.8	210.2	5273.	4942.	204.9	189.5
#2	202.0	207.2	208.3	5205.	5037.	205.7	187.1
#3	198.4	208.8	200.3	5267.	4995.	206.1	187.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17154.	47293.	20874.
Stddev	75.	204.	448.
%RSD	.43728	.43170	2.1443
#1	17069.	47083.	21384.
#2	17211.	47490.	20695.
#3	17183.	47306.	20544.

Sample Name: S301049-ICB1 Acquired: 1/24/2013 12:16:39 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2021	9.189	2.251	.5166	.4550	-.5494	.4474	.0582	-.1519	.1740	2.407
Stddev	.7263	17.90	1.989	.4327	.3025	1.851	.1559	.2192	.2260	1.274	2.049
%RSD	359.4	194.8	88.39	83.76	66.47	337.0	34.84	376.7	148.8	732.1	85.14
#1	-.3906	-11.40	2.801	.5569	.2059	-.2628	.4153	.0281	.0248	1.645	4.581
#2	1.012	21.03	3.907	.9277	.7915	-2.527	.3101	-.1444	-.0739	-.5759	.5116
#3	-.0154	17.94	.0442	.0652	.3675	1.142	.6168	.2909	-.4065	-.5470	2.127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.24	.4240	-.0122	-15.30	.8333	1.126	1.702	1.301	.3208	.1780	.2818
Stddev	88.28	35.79	.0362	25.79	1.492	.266	1.801	2.277	.7751	.6275	.1358
%RSD	619.8	8441.	296.8	168.6	179.1	23.61	105.8	175.0	241.6	352.5	48.20
#1	-66.47	-40.52	.0231	-25.24	-.3868	1.267	-.0046	-1.035	1.025	.7447	.1310
#2	108.5	16.06	-.0494	-34.64	2.497	.8194	1.527	3.515	.4478	-.4963	.3944
#3	.6757	25.74	-.0103	13.98	.3898	1.292	3.585	1.424	-.5099	.2856	.3199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.512	.1416	4.882	-5.385	-3.745	.2148	1.318
Stddev	.549	.2008	1.916	2.535	18.02	.0605	.491
%RSD	36.33	141.8	39.25	47.08	481.1	28.15	37.28
#1	2.053	.3616	3.543	-8.018	16.18	.2679	1.738
#2	.9543	-.0320	7.077	-2.960	-18.90	.1490	.7778
#3	1.530	.0953	4.026	-5.178	-8.517	.2277	1.439
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17142.	47565.	21158.
Stddev	160.	223.	116.
%RSD	.93607	.46807	.54824
#1	17265.	47817.	21214.
#2	16960.	47394.	21024.
#3	17199.	47485.	21235.

Sample Name: S301049-LCV1 Acquired: 1/24/2013 12:21:12 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.709**	**103.6**	**9.773**	**98.04**	**3.377**	**495.9**	**3.254**	**19.80**	**4.939**	**10.51**	**45.15**
Stddev	.284	4.2	1.888	1.68	.316	10.9	.207	.27	.480	.58	2.55
%RSD	4.977	4.085	19.32	1.709	9.350	2.196	6.359	1.354	9.728	5.480	5.655
#1	5.591	108.3	11.10	96.65	3.525	485.1	3.415	19.52	4.423	10.25	43.76
#2	6.033	102.4	7.612	97.58	3.591	506.9	3.326	20.05	5.373	11.17	43.59
#3	5.503	100.1	10.61	99.90	3.014	495.7	3.020	19.82	5.021	10.11	48.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**481.0**	**492.5**	**5.373**	**963.3**	**19.38**	**9.788**	**25.07**	**20.59**	**19.73**	**21.21**	**19.72**
Stddev	45.2	12.8	.124	7.4	.77	1.132	3.28	3.24	.92	.83	.28
%RSD	9.392	2.596	2.301	.7732	3.982	11.56	13.09	15.73	4.663	3.909	1.433
#1	463.8	480.9	5.258	956.4	19.65	9.465	28.70	17.10	20.58	20.38	19.42
#2	446.9	506.2	5.358	962.3	18.51	8.852	24.20	23.50	19.84	22.04	19.98
#3	532.2	490.3	5.503	971.2	19.98	11.05	22.31	21.17	18.75	21.19	19.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.39**	**10.49**	**12.76**	**513.3**	**478.2**	**10.57**	**10.73**
Stddev	.34	.23	.47	6.7	47.7	.57	.58
%RSD	3.312	2.151	3.668	1.308	9.982	5.388	5.417
#1	10.05	10.28	12.64	506.2	437.5	10.67	10.85
#2	10.73	10.45	12.37	514.4	530.7	9.963	11.24
#3	10.39	10.73	13.28	519.5	466.3	11.09	10.10
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17148.**	**47743.**	**20727.**
Stddev	**57.**	**354.**	**314.**
%RSD	**.32955**	**.74066**	**1.5143**
#1	17160.	48129.	21087.
#2	17087.	47435.	20505.
#3	17198.	47665.	20590.

Sample Name: S301049-LCV2 Acquired: 1/24/2013 12:25:44 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10.43**	**204.0**	**18.28**	**194.0**	**6.154**	**990.0**	**6.237**	**39.02**	**10.59**	**21.05**	**98.51**
Stddev	.66	12.5	1.89	2.6	.199	3.2	.079	.76	.30	.62	6.72
%RSD	6.282	6.128	10.35	1.355	3.228	.3260	1.266	1.950	2.861	2.964	6.824
#1	9.675	204.8	16.12	191.5	6.318	989.6	6.150	39.53	10.26	20.47	95.08
#2	10.81	191.1	19.63	193.8	5.933	993.4	6.256	39.38	10.66	21.72	94.20
#3	10.81	216.0	19.10	196.7	6.212	986.9	6.305	38.14	10.86	20.97	106.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**986.9**	**1023.**	**10.75**	**1939.**	**39.50**	**17.24**	**40.58**	**40.67**	**36.78**	**41.51**	**39.14**
Stddev	59.7	30.	.05	18.	.98	1.31	6.02	4.47	.17	.68	.21
%RSD	6.044	2.973	.5077	.9360	2.479	7.585	14.82	10.99	.4489	1.628	.5276
#1	1037.	1001.	10.78	1919.	38.47	17.87	43.31	44.53	36.73	40.85	39.24
#2	1003.	1011.	10.78	1945.	40.42	18.11	44.74	41.71	36.97	41.47	39.27
#3	920.8	1058.	10.69	1954.	39.60	15.74	33.68	35.77	36.65	42.20	38.90
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**19.84**	**20.77**	**19.59**	**1019.**	**962.0**	**20.77**	**20.74**
Stddev	.65	.17	.96	5.	17.0	.21	.91
%RSD	3.300	.8337	4.925	.4708	1.763	.9924	4.382
#1	19.71	20.78	20.69	1015.	981.2	20.87	19.71
#2	20.55	20.94	19.14	1024.	949.0	20.53	21.08
#3	19.26	20.60	18.92	1016.	955.8	20.90	21.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17251.	47972.	20390.
Stddev	83.	358.	157.
%RSD	.47939	.74620	.77054
#1	17266.	47559.	20561.
#2	17162.	48171.	20253.
#3	17326.	48187.	20356.

Sample Name: S301049-IFA1 Acquired: 1/24/2013 12:30:15 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.323**	**311600.**	**-1.940**	**.2746**	**.8038**	**298600.**	**.3682**	**-1.211**	**-2.001**	**-1.934**	**300700.**
Stddev	.623	4878.	3.483	.2217	.2679	2479.	.1675	.117	.395	.306	3793.
%RSD	47.06	1.565	179.6	80.76	33.34	.8302	45.49	9.694	19.75	15.83	1.261
#1	1.313	306100.	2.063	.0728	.4990	296800.	.3474	-1.131	-2.296	-1.788	305100.
#2	.7058	313600.	-3.598	.5120	1.002	297600.	.2121	-1.346	-1.552	-2.286	298800.
#3	1.951	315300.	-4.284	.2389	.9102	301400.	.5452	-1.156	-2.155	-1.729	298200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.839**	**304600.**	**-.1568**	**303300.**	**-1.487**	**-1.429**	**5.142**	**5.946**	**-2.031**	**-2.413**	**4.610**
Stddev	25.30	3012.	.0039	1207.	1.181	1.544	3.714	3.119	2.662	.267	.134
%RSD	659.0	.9888	2.493	.3980	79.40	108.1	72.22	52.45	131.1	11.06	2.901
#1	-19.28	301100.	-.1523	302100.	-2.040	.0806	1.845	2.624	-5.015	-2.569	4.455
#2	30.86	306500.	-.1583	303200.	-2.289	-1.362	4.416	8.811	-1.174	-2.105	4.680
#3	-.0727	306200.	-.1596	304500.	-.1312	-3.006	9.166	6.403	.0970	-2.565	4.693
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.447**	**1.415**	**2.780**	**-30.25**	**-31.02**	**1.330**	**4.495**
Stddev	.626	.175	.448	6.95	33.83	.541	2.160
%RSD	25.57	12.37	16.10	22.99	109.1	40.69	48.06
#1	-2.918	1.555	2.298	-37.01	4.800	1.469	2.986
#2	-1.737	1.472	3.182	-30.61	-35.43	1.788	6.969
#3	-2.687	1.219	2.861	-23.12	-62.42	.7329	3.530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**15740.**	**43001.**	**19818.**
Stddev	76.	252.	110.
%RSD	.48298	.58652	.55658
#1	15790.	43292.	19770.
#2	15778.	42850.	19740.
#3	15653.	42860.	19944.

Sample Name: S301049-CCV1 Acquired: 1/24/2013 13:19:44 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.2**	**4795.**	**199.2**	**197.3**	**192.7**	**5001.**	**207.5**	**194.2**	**213.2**	**198.8**	**5040.**
Stddev	2.1	92.	2.6	3.4	3.2	84.	.3	.2	2.8	1.5	89.
%RSD	1.040	1.922	1.322	1.701	1.681	1.672	.1450	.0846	1.291	.7304	1.773
#1	202.6	4888.	197.3	201.0	196.4	5096.	207.1	194.0	213.2	198.4	5140.
#2	199.9	4791.	198.1	194.6	191.5	4968.	207.7	194.3	210.4	197.5	5012.
#3	204.0	4704.	202.2	196.3	190.3	4939.	207.6	194.3	215.9	200.4	4968.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5005.**	**5088.**	**216.6**	**4978.**	**200.6**	**202.0**	**200.0**	**201.1**	**196.7**	**210.7**	**199.3**
Stddev	109.	77.	1.4	97.	2.0	1.4	2.0	3.7	4.5	.6	.8
%RSD	2.176	1.511	.6268	1.958	.9936	.6925	.9862	1.845	2.275	.2891	.4060
#1	5123.	5174.	217.0	5084.	198.5	203.4	199.6	204.9	197.2	210.2	198.4
#2	4982.	5026.	215.1	4956.	200.8	202.0	202.2	200.9	192.0	211.4	199.8
#3	4909.	5065.	217.6	4893.	202.4	200.6	198.3	197.5	201.0	210.5	199.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**194.1**	**204.7**	**194.1**	**5252.**	**5028.**	**206.3**	**193.1**
Stddev	.3	1.8	2.9	54.	120.	1.7	2.1
%RSD	.1330	.9030	1.474	1.029	2.383	.8458	1.072
#1	193.8	204.9	196.7	5258.	5166.	206.3	192.2
#2	194.2	202.8	194.6	5196.	4963.	204.6	195.5
#3	194.3	206.5	191.1	5303.	4955.	208.1	191.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17221.**	**48006.**	**19055.**
Stddev	80.	779.	99.
%RSD	.46490	1.6233	.51848
#1	17128.	47486.	19082.
#2	17267.	48902.	18945.
#3	17266.	47629.	19137.

Sample Name: S301049-CCB1 Acquired: 1/24/2013 13:24:05 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4113**	**-5.906**	**2.678**	**.2447**	**.3357**	**1.435**	**.0704**	**.3389**	**.3901**	**.2735**	**4.479**
Stddev	.7896	5.636	1.858	.5116	.3125	4.385	.0570	.0796	.3684	.9825	2.479
%RSD	192.0	95.43	69.36	209.1	93.11	305.7	80.87	23.49	94.43	359.2	55.36
#1	-1.321	-4.050	4.787	-.3416	-.0096	4.445	.0314	.3139	.6449	-.3472	2.233
#2	-.0095	-12.24	1.960	.4748	.4175	-3.597	.0441	.2748	-.0323	-.2385	7.139
#3	.0967	-1.432	1.287	.6008	.5991	3.456	.1358	.4280	.5576	1.406	4.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-66.85**	**4.221**	**-.2913**	**16.69**	**1.468**	**.1374**	**-.7583**	**-1.635**	**.8360**	**-.6412**	**-.1883**
Stddev	64.14	10.23	.0564	20.43	.259	2.260	4.796	1.032	1.853	.7261	.1596
%RSD	95.95	242.4	19.36	122.4	17.64	1645.	632.5	63.13	221.7	113.2	84.79
#1	-91.08	4.947	-.3229	18.50	1.735	.6729	3.833	-1.170	2.687	-.0553	-.3484
#2	-115.3	-6.354	-.3248	36.17	1.218	-2.343	-.3720	-.9170	.8401	-1.454	-.1873
#3	5.876	14.07	-.2262	-4.579	1.453	2.082	-5.736	-2.817	-1.019	-.4148	-.0292
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6479**	**-.2207**	**-1.518**	**-3.616**	**-49.00**	**.2348**	**2.747**
Stddev	.5586	.3550	.762	1.626	20.56	.5022	1.182
%RSD	86.21	160.9	50.23	44.96	41.96	213.9	43.04
#1	-.6010	-.3011	-1.254	-4.631	-25.58	.5662	1.969
#2	-.1143	.1677	-2.377	-1.741	-57.37	-.3431	2.164
#3	-1.228	-.5285	-.9221	-4.477	-64.06	.4812	4.107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17186.	47402.	19767.
Stddev	125.	357.	311.
%RSD	.72669	.75303	1.5754
#1	17325.	47323.	19540.
#2	17084.	47092.	19639.
#3	17149.	47792.	20122.

Sample Name: S301049-CCV2 Acquired: 1/24/2013 14:13:32 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.7**	**4761.**	**198.9**	**193.6**	**189.6**	**5006.**	**208.4**	**193.5**	**215.6**	**198.4**	**4997.**
Stddev	.5	14.	2.9	1.6	1.1	24.	.6	.2	.9	.5	13.
%RSD	.2461	.2969	1.469	.8370	.5647	.4826	.3019	.1242	.4021	.2692	.2688
#1	203.0	4776.	197.8	195.4	190.1	4997.	208.7	193.8	216.2	198.7	5005.
#2	203.0	4760.	202.2	192.5	190.4	5033.	207.7	193.6	214.6	198.8	5004.
#3	202.2	4748.	196.7	192.8	188.4	4987.	208.9	193.3	216.0	197.8	4981.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4941.**	**5069.**	**217.5**	**4947.**	**200.0**	**204.1**	**198.1**	**202.3**	**197.1**	**211.4**	**201.7**
Stddev	69.	24.	.9	2.	1.3	1.1	7.2	3.5	4.6	.5	.1
%RSD	1.387	.4768	.4045	.0311	.6572	.5335	3.657	1.741	2.345	.2382	.0699
#1	5008.	5047.	217.8	4947.	201.3	203.2	191.3	200.4	202.4	211.5	201.8
#2	4945.	5095.	216.5	4948.	200.0	205.3	205.7	200.2	194.5	211.9	201.6
#3	4871.	5065.	218.1	4945.	198.7	203.7	197.4	206.4	194.3	210.9	201.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**192.0**	**205.5**	**190.6**	**5322.**	**5060.**	**207.4**	**195.6**
Stddev	.7	.6	2.0	38.	48.	1.6	.8
%RSD	.3667	.2728	1.032	.7126	.9430	.7590	.3858
#1	192.7	205.8	190.1	5320.	5103.	206.7	196.3
#2	191.8	204.9	189.0	5285.	5069.	206.4	194.8
#3	191.4	205.8	192.8	5361.	5008.	209.2	195.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17183.**	**46724.**	**18999.**
Stddev	79.	257.	228.
%RSD	.46038	.54909	1.2026
#1	17134.	46871.	19250.
#2	17141.	46874.	18943.
#3	17274.	46428.	18804.

Sample Name: S301049-CCB2 Acquired: 1/24/2013 14:17:53 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.2956**	**.5375**	**3.366**	**.4485**	**-.0042**	**3.838**	**.1750**	**-.0681**	**-.0619**	**.8939**	**2.422**
Stddev	.6411	28.07	4.095	.2335	.4257	3.772	.1352	.1917	1.106	.9871	2.879
%RSD	216.9	5223.	121.7	52.07	10190.	98.28	77.29	281.6	1786.	110.4	118.9
#1	.4388	-26.41	2.601	.7123	-.3531	7.187	.1297	-.2580	.7628	1.845	-.5363
#2	-.5825	-1.594	-.2922	.2682	-.1296	-.2487	.0682	-.0715	-1.319	-.1257	2.587
#3	-.7431	29.62	7.789	.3650	.4702	4.577	.3270	.1253	.3701	.9625	5.215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**35.80**	**-25.94**	**-.2055**	**28.32**	**1.276**	**.8159**	**-.5064**	**-2.146**	**-1.999**	**-.3194**	**-.3340**
Stddev	19.68	27.91	.0476	16.19	.460	1.466	2.599	6.836	2.389	.5023	.1812
%RSD	54.98	107.6	23.15	57.19	36.07	179.7	513.3	318.6	119.5	157.3	54.24
#1	19.81	-25.35	-.2161	13.07	1.114	2.507	-3.469	2.178	-4.688	-.6972	-.1346
#2	29.80	1.666	-.1535	45.31	.9185	-.1118	.5609	1.411	-1.184	.2507	-.3789
#3	57.78	-54.14	-.2468	26.57	1.795	.0530	1.389	-10.03	-.1232	-.5116	-.4884
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4900**	**-.1339**	**.1114**	**-5.185**	**-19.15**	**-.0477**	**4.166**
Stddev	.2815	.2580	2.994	4.447	29.99	.2908	5.584
%RSD	57.45	192.6	2687.	85.76	156.6	609.3	134.1
#1	-.6696	-.1525	-1.865	-6.440	14.97	.2014	1.120
#2	-.1656	.1328	-1.356	-.2458	-31.05	.0227	.7666
#3	-.6349	-.3822	3.556	-8.870	-41.37	-.3673	10.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17186.	47274.	19011.
Stddev	499.	883.	264.
%RSD	2.9051	1.8686	1.3866
#1	17573.	47418.	19140.
#2	17362.	48076.	19185.
#3	16622.	46327.	18708.

Sample Name: B301103-BLK1 Acquired: 1/24/2013 14:54:03 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2569	67.75	2.258	.9570	.2030	24.05	-.0523	-.0712	-.2350	1.333	28.19
Stddev	.4688	7.68	1.029	.4780	.1507	5.41	.0921	.3569	.1523	.166	9.79
%RSD	182.5	11.34	45.55	49.94	74.26	22.49	176.1	501.5	64.80	12.48	34.72
#1	-.1017	60.98	2.436	1.403	.1890	27.69	-.0722	.3230	-.0699	1.282	38.28
#2	.7874	76.10	3.186	1.015	.0597	26.63	.0481	-.1640	-.2651	1.519	27.57
#3	.0849	66.17	1.152	.4526	.3602	17.83	-.1329	-.3724	-.3701	1.198	18.73
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7742	26.97	.1361	115.5	3.526	.6487	2.241	.3165	-3.291	-.1012	4.146
Stddev	68.69	26.07	.0911	27.4	.513	1.969	.588	1.857	1.974	.8121	.361
%RSD	8873.	96.67	66.89	23.74	14.54	303.6	26.25	586.8	60.00	802.2	8.714
#1	-28.80	14.53	.2161	141.1	3.119	-1.510	2.440	-1.607	-1.065	.2137	3.731
#2	-51.02	56.93	.1553	118.9	3.358	2.348	1.579	.4562	-4.831	.5063	4.395
#3	77.50	9.454	.0370	86.56	4.102	1.108	2.704	2.100	-3.976	-1.024	4.311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1151	.0682	-2.202	266.9	208.1	.2117	3.182
Stddev	.2939	.2200	1.080	5.8	17.1	.6457	.383
%RSD	255.3	322.5	49.02	2.179	8.215	305.1	12.04
#1	.2127	.2486	-3.401	265.5	223.0	-.1971	3.465
#2	-.2033	.1330	-1.306	273.3	211.9	.9561	2.746
#3	-.3548	-.1769	-1.899	261.9	189.4	-.1240	3.335
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17794.	48633.	19413.
Stddev	289.	748.	2183.
%RSD	1.6251	1.5386	11.243
#1	17954.	49118.	17368.
#2	17967.	47772.	19160.
#3	17460.	49011.	21711.

Sample Name: B301103-SRM1 Acquired: 1/24/2013 14:58:36 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**428.9**	**91930.**	**1694.**	**2076.**	**1074.**	**69440.**	**1063.**	**1311.**	**1295.**	**1225.**	**141300.**
Stddev	1.2	472.	7.	10.	6.	342.	3.	1.	20.	9.	426.
%RSD	.2867	.5138	.4421	.4773	.5173	.4922	.3288	.0591	1.552	.7501	.3013
#1	430.2	91800.	1702.	2065.	1069.	69400.	1066.	1311.	1286.	1218.	140800.
#2	428.8	91550.	1691.	2084.	1072.	69110.	1064.	1312.	1280.	1222.	141200.
#3	427.8	92460.	1688.	2079.	1080.	69790.	1059.	1310.	1317.	1235.	141700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**30630.**	**28020.**	**3657.**	**3373.**	**715.7**	**752.4**	**1568.**	**1348.**	**2035.**	**954.4**	**2832.**
Stddev	168.	77.	48.	13.	.6	3.6	12.	10.	4.	2.1	11.
%RSD	.5491	.2734	1.310	.3908	.0803	.4801	.7339	.7117	.2105	.2250	.3748
#1	30520.	27950.	3640.	3380.	715.8	752.2	1577.	1359.	2037.	956.5	2842.
#2	30540.	28000.	3619.	3381.	715.0	756.1	1571.	1342.	2030.	954.4	2833.
#3	30820.	28100.	3711.	3358.	716.2	748.9	1555.	1343.	2038.	952.2	2821.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**630.1**	**2793.**	**836.5**	**23370.**	**23000.**	**1370.**	**1406.**
Stddev	.9	28.	1.7	301.	91.	9.	3.
%RSD	.1357	1.020	.2000	1.290	.3942	.6240	.2351
#1	630.9	2781.	835.4	23170.	22940.	1367.	1410.
#2	630.1	2773.	835.7	23220.	22960.	1363.	1403.
#3	629.2	2826.	838.4	23720.	23110.	1380.	1406.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17673.**	**49033.**	**19816.**
Stddev	142.	330.	162.
%RSD	.80411	.67266	.81691
#1	17654.	49077.	19815.
#2	17541.	49339.	19978.
#3	17823.	48684.	19654.

Sample Name: B301103-SRM2 Acquired: 1/24/2013 15:03:03 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**415.7**	**84760.**	**1648.**	**2031.**	**1042.**	**65950.**	**999.3**	**1263.**	**1229.**	**1155.**	**135400.**
Stddev	2.8	687.	5.	14.	7.	574.	2.2	7.	2.	8.	1033.
%RSD	.6839	.8106	.3223	.6734	.6638	.8699	.2221	.5764	.1254	.7245	.7627
#1	419.0	85530.	1649.	2046.	1048.	66570.	1002.	1270.	1230.	1165.	136400.
#2	413.8	84530.	1642.	2029.	1044.	65820.	997.2	1256.	1228.	1150.	135400.
#3	414.4	84220.	1652.	2019.	1034.	65450.	999.0	1263.	1227.	1151.	134300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**29610.**	**26930.**	**3423.**	**3232.**	**679.1**	**737.2**	**1651.**	**1231.**	**1975.**	**916.2**	**2723.**
Stddev	211.	209.	26.	10.	5.5	6.8	4.	3.	11.	5.3	16.
%RSD	.7123	.7745	.7702	.3082	.8097	.9275	.2539	.2481	.5483	.5791	.5743
#1	29850.	27150.	3449.	3238.	685.3	744.9	1650.	1230.	1987.	922.0	2740.
#2	29470.	26880.	3396.	3221.	674.8	734.9	1656.	1229.	1967.	911.5	2711.
#3	29490.	26740.	3425.	3238.	677.3	731.9	1648.	1235.	1971.	915.3	2717.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**607.0**	**2514.**	**802.9**	**20350.**	**20240.**	**1306.**	**1435.**
Stddev	4.1	2.	4.7	54.	228.	5.	8.
%RSD	.6836	.0865	.5804	.2644	1.127	.3560	.5844
#1	611.5	2517.	807.3	20400.	20490.	1311.	1444.
#2	603.3	2513.	798.0	20290.	20040.	1302.	1428.
#3	606.2	2513.	803.4	20350.	20180.	1305.	1433.
Check ?	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17954.	50073.	**20228.**
Stddev	116.	227.	110.
%RSD	.64803	.45321	.54421
#1	17830.	50161.	20102.
#2	17969.	50242.	20274.
#3	18061.	49815.	20308.

Sample Name: S301049-CCV3 Acquired: 1/24/2013 15:07:30 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**200.9**	**4745.**	**202.1**	**193.5**	**190.7**	**4992.**	**209.8**	**193.0**	**217.4**	**196.2**	**5006.**
Stddev	.6	60.	2.4	2.1	1.6	27.	.9	1.6	2.5	1.0	56.
%RSD	.2952	1.271	1.190	1.095	.8611	.5506	.4285	.8055	1.141	.5277	1.124
#1	201.4	4812.	202.5	195.8	192.5	5016.	210.6	194.7	215.5	195.0	5068.
#2	200.2	4728.	204.2	193.2	190.3	5000.	210.0	192.9	220.2	196.9	4993.
#3	201.1	4694.	199.5	191.6	189.3	4962.	208.8	191.6	216.5	196.7	4958.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5050.**	**5080.**	**214.9**	**4875.**	**199.3**	**202.3**	**199.4**	**204.5**	**195.3**	**209.8**	**201.3**
Stddev	68.	68.	1.2	54.	2.4	2.9	5.8	4.6	1.4	1.3	.9
%RSD	1.354	1.340	.5515	1.106	1.225	1.425	2.885	2.244	.7340	.6097	.4657
#1	5086.	5159.	213.6	4925.	201.2	205.1	197.0	209.8	196.0	208.5	202.3
#2	5092.	5043.	215.8	4884.	196.5	199.4	195.2	202.2	193.7	209.6	201.0
#3	4971.	5040.	215.3	4818.	200.1	202.5	205.9	201.5	196.3	211.1	200.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**191.1**	**205.2**	**186.2**	**5287.**	**5017.**	**207.7**	**192.9**
Stddev	1.0	1.3	1.7	31.	38.	1.6	1.7
%RSD	.5401	.6320	.8991	.5934	.7502	.7819	.8871
#1	192.1	204.2	188.1	5258.	5060.	205.9	193.3
#2	191.1	206.7	185.3	5320.	5000.	209.1	194.4
#3	190.1	204.7	185.0	5281.	4991.	208.2	191.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17345.	47753.	18922.
Stddev	32.	412.	206.
%RSD	.18495	.86267	1.0870
#1	17356.	48014.	19157.
#2	17309.	47968.	18775.
#3	17371.	47278.	18835.

Sample Name: S301049-CCB3 Acquired: 1/24/2013 15:11:52 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0806	28.01	3.416	.7480	.2670	7.374	.1379	-.1280	.3342	.5063	3.561
Stddev	.9037	22.53	3.651	.2529	.1387	2.189	.1931	.1775	.2471	1.696	3.749
%RSD	1121.	80.43	106.9	33.81	51.95	29.68	140.1	138.7	73.94	335.0	105.3
#1	-.4416	43.61	7.374	.5007	.4002	6.805	.1583	.0362	.0496	-1.451	.8532
#2	1.124	38.24	2.692	.7370	.2774	5.526	.3199	-.1039	.4936	1.546	7.839
#3	-.4407	2.181	.1814	1.006	.1234	9.791	-.0646	-.3164	.4596	1.425	1.990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.82	.2529	-.1624	-5.665	.5352	1.294	1.283	-.5149	-2.785	-.7692	-.1909
Stddev	70.82	7.648	.0696	8.829	.1006	.412	2.048	2.602	1.945	.4909	.1236
%RSD	512.5	3024.	42.83	155.8	18.81	31.84	159.7	505.3	69.86	63.82	64.72
#1	-38.04	-8.440	-.0951	3.002	.6419	1.155	.5002	-1.279	-.5668	-1.334	-.3329
#2	94.51	5.948	-.2340	-5.349	.5216	1.757	3.607	-2.649	-3.586	-.5329	-.1079
#3	-15.01	3.250	-.1581	-14.65	.4420	.9695	-.2587	2.384	-4.202	-.4412	-.1319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4784	.0228	-1.097	-8.160	-22.29	-.5501	1.466
Stddev	.2918	.0632	.684	3.124	34.63	.6227	2.415
%RSD	61.00	277.9	62.39	38.28	155.4	113.2	164.8
#1	-.5611	.0462	-1.390	-11.26	7.018	-.9011	3.822
#2	-.1541	.0710	-.3147	-5.012	-60.50	.1689	1.580
#3	-.7199	-.0488	-1.585	-8.209	-13.38	-.9181	-1.004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17426.	47494.	18780.
Stddev	70.	431.	180.
%RSD	.39943	.90676	.95659
#1	17453.	47893.	18859.
#2	17347.	47551.	18907.
#3	17478.	47038.	18574.

Sample Name: 1301038-01 Acquired: 1/24/2013 15:20:58 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.9905**	**61080.**	**62.79**	**238.8**	**2.901**	**24210.**	**3.341**	**59.00**	**179.9**	**194.4**	**155200.**
Stddev	.5271	1311.	.95	4.3	.164	543.	.366	.32	5.6	4.7	3371.
%RSD	53.22	2.146	1.506	1.790	5.661	2.241	10.94	.5394	3.098	2.422	2.172
#1	-1.041	59950.	61.84	234.4	2.796	23790.	3.762	59.30	184.8	198.8	152000.
#2	-1.490	60780.	63.73	239.2	3.090	24020.	3.164	59.03	181.2	194.9	154800.
#3	-.4399	62520.	62.81	242.9	2.816	24820.	3.098	58.67	173.8	189.4	158700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4856.**	**25950.**	**1748.**	**316.0**	**249.0**	**2429.**	**10.44**	**.7481**	**-4.080**	**151.7**	**1407.**
Stddev	83.	617.	50.	33.6	2.4	20.	3.27	3.546	2.056	4.9	9.
%RSD	1.709	2.378	2.867	10.63	.9806	.8228	31.32	474.0	50.39	3.227	.6515
#1	4816.	25350.	1787.	329.5	248.4	2440.	7.249	-3.293	-5.087	157.1	1409.
#2	4800.	25920.	1764.	340.7	251.7	2442.	10.28	3.342	-5.439	150.5	1414.
#3	4951.	26580.	1691.	277.8	247.0	2406.	13.78	2.195	-1.715	147.5	1397.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.023**	**1300.**	**14.42**	**8093.**	**8126.**	**129.4**	**13.81**
Stddev	.282	12.	1.30	326.	188.	5.0	2.89
%RSD	13.95	.9359	8.996	4.033	2.315	3.848	20.93
#1	2.209	1311.	14.46	8431.	8080.	134.0	10.67
#2	2.161	1303.	15.70	8069.	8333.	130.1	14.38
#3	1.698	1287.	13.11	7779.	7966.	124.1	16.37
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17984.**	**49154.**	**19186.**
Stddev	96.	1688.	447.
%RSD	.53430	3.4342	2.3299
#1	18070.	47659.	19657.
#2	17880.	48819.	19134.
#3	18003.	50985.	18767.

Sample Name: B301103-MS1 Acquired: 1/24/2013 15:25:32 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**202.7**	**68320.**	**268.5**	**519.0**	**202.1**	**52670.**	**219.0**	**263.3**	**365.7**	**428.4**	**151700.**
Stddev	2.2	1615.	8.4	11.5	4.8	1268.	7.1	8.9	5.8	5.0	3637.
%RSD	1.100	2.364	3.139	2.223	2.398	2.407	3.222	3.369	1.582	1.162	2.398
#1	201.1	70090.	277.8	532.0	207.6	54100.	227.0	273.1	359.3	424.0	155700.
#2	205.2	66930.	266.4	510.1	198.6	51690.	216.4	260.9	370.6	433.8	148700.
#3	201.6	67940.	261.4	514.8	200.0	52220.	213.7	255.8	367.2	427.4	150600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**10590.**	**31140.**	**1923.**	**5445.**	**423.9**	**4995.**	**211.6**	**205.9**	**200.5**	**372.6**	**1848.**
Stddev	133.	678.	1.	139.	14.8	155.	2.5	9.2	3.7	4.7	58.
%RSD	1.259	2.177	.0726	2.550	3.502	3.105	1.186	4.485	1.831	1.272	3.164
#1	10740.	31890.	1924.	5602.	439.6	5171.	214.3	216.5	204.7	367.6	1912.
#2	10510.	30580.	1921.	5337.	421.9	4940.	209.4	202.1	198.8	377.0	1833.
#3	10510.	30930.	1924.	5396.	410.1	4876.	211.0	199.3	197.9	373.2	1798.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**201.3**	**1620.**	**209.7**	**8876.**	**8674.**	**445.5**	**218.1**
Stddev	5.8	39.	9.4	367.	296.	6.8	8.2
%RSD	2.882	2.414	4.474	4.130	3.412	1.537	3.745
#1	207.4	1577.	220.0	8609.	8908.	438.9	226.2
#2	200.5	1629.	207.3	9294.	8341.	452.5	218.4
#3	195.9	1654.	201.7	8726.	8774.	445.2	209.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17566.**	**48536.**	**19148.**
Stddev	371.	412.	310.
%RSD	2.1105	.84856	1.6173
#1	17151.	48933.	18829.
#2	17682.	48111.	19448.
#3	17865.	48566.	19168.

Sample Name: B301103-MSD1 @5 Acquired: 1/24/2013 15:30:05 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**39.78**	**13630.**	**53.30**	**103.7**	**40.13**	**10520.**	**42.90**	**51.03**	**72.01**	**84.42**	**30360.**
Stddev	1.11	105.	2.31	.2	.31	120.	.15	.31	1.46	.13	199.
%RSD	2.801	.7704	4.335	.1620	.7709	1.138	.3476	.5983	2.023	.1586	.6560
#1	39.20	13530.	50.69	103.6	39.80	10390.	43.00	50.69	70.39	84.31	30150.
#2	39.08	13610.	55.08	103.9	40.42	10550.	42.73	51.27	72.45	84.38	30390.
#3	41.07	13740.	54.12	103.7	40.18	10620.	42.97	51.12	73.20	84.57	30540.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2097.**	**6213.**	**384.2**	**1076.**	**84.19**	**982.1**	**42.74**	**41.51**	**38.84**	**73.57**	**364.9**
Stddev	124.	45.	4.2	25.	1.51	1.6	4.65	3.37	2.51	.72	.2
%RSD	5.910	.7205	1.098	2.310	1.794	.1649	10.89	8.121	6.451	.9733	.0471
#1	2231.	6170.	379.5	1054.	84.64	983.8	37.64	44.68	40.52	72.85	365.1
#2	1987.	6208.	385.2	1102.	85.43	981.9	43.84	37.97	35.96	73.57	364.9
#3	2074.	6259.	387.7	1071.	82.51	980.5	46.75	41.86	40.05	74.29	364.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**38.04**	**332.4**	**39.35**	**2425.**	**2292.**	**87.76**	**44.51**
Stddev	.33	7.3	.76	97.	144.	.98	.22
%RSD	.8715	2.197	1.940	4.017	6.274	1.117	.5008
#1	38.14	325.9	39.56	2404.	2367.	86.69	44.26
#2	37.67	331.0	39.98	2531.	2383.	87.99	44.67
#3	38.31	340.3	38.50	2340.	2126.	88.61	44.62
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17578.**	**48462.**	**18458.**
Stddev	134.	558.	134.
%RSD	.76006	1.1523	.72587
#1	17430.	48802.	18602.
#2	17612.	48767.	18337.
#3	17691.	47818.	18435.

Sample Name: 1301038-02 Acquired: 1/24/2013 15:34:32 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.757**	**61640.**	**63.26**	**257.0**	**3.209**	**20990.**	**2.998**	**61.32**	**143.5**	**193.5**	**150800.**
Stddev	.756	92.	2.14	1.0	.521	60.	.155	.45	1.6	1.4	750.
%RSD	43.05	.1485	3.377	.3707	16.23	.2841	5.157	.7282	1.148	.7271	.4972
#1	-.8945	61740.	64.23	258.0	3.699	21060.	2.820	61.74	144.7	192.9	151700.
#2	-2.307	61550.	64.73	256.1	3.265	20970.	3.099	61.37	144.2	195.1	150500.
#3	-2.070	61620.	60.81	257.0	2.663	20950.	3.074	60.85	141.6	192.6	150300.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5167.**	**23620.**	**1811.**	**327.5**	**214.8**	**2517.**	**9.789**	**3.861**	**-4.004**	**151.5**	**1373.**
Stddev	30.	150.	5.	47.5	2.8	7.	3.487	2.431	3.759	.4	6.
%RSD	.5882	.6334	.2610	14.50	1.315	.2661	35.62	62.98	93.90	.2894	.4358
#1	5132.	23750.	1816.	277.2	214.7	2524.	6.011	3.302	-4.221	151.8	1375.
#2	5187.	23660.	1810.	371.6	217.7	2516.	12.88	1.757	-7.649	151.7	1378.
#3	5182.	23460.	1807.	333.7	212.1	2511.	10.47	6.522	-.1404	151.0	1366.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.521**	**1387.**	**19.28**	**10040.**	**9900.**	**140.1**	**15.85**
Stddev	.453	24.	1.38	226.	316.	.3	2.00
%RSD	29.79	1.700	7.134	2.251	3.192	.2421	12.63
#1	1.901	1362.	17.71	9779.	10260.	140.4	16.71
#2	1.020	1391.	20.24	10190.	9671.	140.2	13.57
#3	1.641	1409.	19.90	10150.	9768.	139.7	17.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18173.**	**49435.**	**18942.**
Stddev	162.	187.	197.
%RSD	.88911	.37905	1.0389
#1	18109.	49529.	19133.
#2	18054.	49219.	18954.
#3	18357.	49556.	18740.

Sample Name: 1301038-03 Acquired: 1/24/2013 15:39:07 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.7138**	**63390.**	**74.73**	**481.1**	**3.735**	**45600.**	**5.517**	**71.47**	**218.7**	**467.4**	**176200.**
Stddev	.8349	514.	2.05	2.1	.131	484.	.100	.15	1.0	2.1	5081.
%RSD	117.0	.8104	2.750	.4441	3.510	1.062	1.803	.2066	.4680	.4529	2.884
#1	-1.088	63980.	73.85	483.5	3.872	46160.	5.408	71.36	219.9	469.6	180500.
#2	-1.296	63040.	77.08	480.4	3.611	45290.	5.603	71.64	218.2	465.3	170600.
#3	.2427	63150.	73.26	479.5	3.721	45350.	5.539	71.42	218.0	467.3	177600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6102.**	**28280.**	**2198.**	**552.0**	**354.0**	**5539.**	**16.26**	**4.445**	**-6.764**	**228.1**	**4213.**
Stddev	37.	297.	14.	32.0	2.1	9.	3.70	1.477	3.312	.4	10.
%RSD	.6031	1.050	.6390	5.797	.5823	.1664	22.74	33.22	48.97	.1574	.2429
#1	6060.	28600.	2208.	529.0	355.7	5548.	14.28	5.744	-3.439	228.5	4223.
#2	6129.	28020.	2182.	538.5	354.6	5539.	13.98	2.839	-6.791	227.8	4215.
#3	6118.	28210.	2205.	588.6	351.7	5530.	20.53	4.753	-10.06	228.1	4203.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4.223**	**1726.**	**22.99**	**6348.**	**6449.**	**236.8**	**46.08**
Stddev	.381	8.	1.64	250.	49.	2.7	1.35
%RSD	9.023	.4612	7.139	3.937	.7624	1.122	2.919
#1	4.663	1731.	24.72	6630.	6395.	239.7	45.21
#2	4.013	1729.	22.82	6259.	6490.	234.4	45.39
#3	3.994	1717.	21.45	6154.	6463.	236.3	47.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17983.	49463.	18939.
Stddev	33.	51.	494.
%RSD	.18627	.10344	2.6089
#1	17991.	49489.	18591.
#2	17947.	49404.	19505.
#3	18013.	49495.	18722.

Sample Name: 1301038-04 Acquired: 1/24/2013 15:43:47 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4190**	**71190.**	**544.2**	**2646.**	**4.232**	**26890.**	**7.047**	**64.32**	**192.2**	**595.3**	**208000.**
Stddev	.4013	272.	4.8	3.	.314	119.	.356	.55	.3	2.6	5950.
%RSD	95.76	.3820	.8771	.1317	7.414	.4408	5.047	.8605	.1491	.4376	2.860
#1	-.8476	70900.	549.0	2650.	4.256	26770.	7.382	63.86	191.9	596.2	201200.
#2	-.0523	71240.	544.3	2644.	4.533	26890.	6.674	64.94	192.3	597.3	211300.
#3	-.3572	71440.	539.5	2643.	3.907	27000.	7.083	64.18	192.4	592.3	211600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6359.**	**30820.**	**2413.**	**485.4**	**220.4**	**3452.**	**22.97**	**.9270**	**-5.313**	**217.2**	**6650.**
Stddev	122.	51.	13.	26.7	.7	3.	7.42	6.195	3.748	.5	19.
%RSD	1.923	.1647	.5196	5.500	.3017	.0728	32.30	668.3	70.55	.2466	.2906
#1	6229.	30790.	2426.	514.3	219.9	3450.	20.21	7.839	-3.475	217.2	6660.
#2	6472.	30800.	2402.	461.7	220.2	3453.	17.33	-4.125	-2.838	217.7	6663.
#3	6377.	30880.	2410.	480.2	221.1	3454.	31.38	-.9328	-9.626	216.6	6628.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**2.991**	**1600.**	**20.16**	**6453.**	**6420.**	**239.7**	**253.4**
Stddev	.151	1.	.89	311.	204.	1.1	1.7
%RSD	5.043	.0517	4.426	4.816	3.182	.4594	.6606
#1	2.885	1601.	20.26	6161.	6360.	240.0	251.7
#2	3.163	1601.	21.01	6420.	6252.	240.5	255.0
#3	2.924	1599.	19.23	6780.	6647.	238.4	253.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18144.**	**49764.**	**19052.**
Stddev	143.	136.	299.
%RSD	.78922	.27364	1.5714
#1	18308.	49744.	19356.
#2	18081.	49909.	19043.
#3	18044.	49639.	18758.

Sample Name: 1301038-05 Acquired: 1/24/2013 15:48:29 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-1.537**	**86230.**	**128.4**	**756.5**	**5.816**	**21220.**	**1.514**	**58.17**	**150.0**	**367.0**	**195600.**
Stddev	.456	1524.	11.8	9.8	.337	287.	.679	4.18	6.3	14.4	5309.
%RSD	29.69	1.767	9.214	1.298	5.795	1.352	44.87	7.186	4.198	3.930	2.714
#1	-1.701	87050.	136.3	761.0	6.047	21430.	1.960	60.12	146.7	361.3	197100.
#2	-1.021	84470.	114.8	745.2	5.429	20890.	.7321	53.38	157.2	383.4	189700.
#3	-1.888	87170.	134.0	763.3	5.973	21350.	1.849	61.03	146.0	356.2	200000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5919.**	**19980.**	**3446.**	**528.1**	**116.4**	**1928.**	**33.18**	**-.7676**	**-3.961**	**223.7**	**1888.**
Stddev	120.	237.	102.	26.1	7.8	126.	6.22	3.928	.582	9.3	122.
%RSD	2.020	1.187	2.948	4.948	6.711	6.556	18.75	511.7	14.69	4.179	6.464
#1	6003.	20130.	3371.	547.3	120.2	2000.	40.10	-3.996	-3.379	219.2	1955.
#2	5782.	19710.	3562.	538.7	107.4	1782.	28.05	-1.913	-3.961	234.4	1747.
#3	5971.	20110.	3406.	498.3	121.5	2001.	31.39	3.606	-4.543	217.4	1962.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**3.139**	**1519.**	**21.67**	**7529.**	**7187.**	**214.8**	**80.41**
Stddev	.198	61.	2.06	486.	2.	8.4	5.90
%RSD	6.306	3.987	9.515	6.452	.0292	3.906	7.335
#1	2.956	1515.	22.46	7584.	7185.	210.5	83.08
#2	3.112	1582.	19.33	7985.	7187.	224.5	73.65
#3	3.349	1462.	23.22	7018.	7189.	209.4	84.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	19350.	50459.	19383.
Stddev	901.	1723.	238.
%RSD	4.6564	3.4140	1.2269
#1	18728.	50672.	19192.
#2	20384.	48639.	19649.
#3	18939.	52065.	19307.

Sample Name: 1301038-06 Acquired: 1/24/2013 15:53:13 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3225	58550.	145.4	388.9	2.941	28710.	44.74	88.57	214.6	790.9	204200.
Stddev	.3168	114.	16.4	.9	.026	39.	4.52	8.86	1.7	4.9	1942.
%RSD	98.21	.1953	11.30	.2328	.8726	.1363	10.10	10.01	.8032	.6236	.9510
#1	.1197	58470.	134.5	388.0	2.969	28670.	42.03	84.23	216.5	793.5	202700.
#2	.6876	58510.	137.4	388.9	2.935	28730.	42.22	82.71	213.1	785.2	203600.
#3	.1603	58680.	164.3	389.8	2.919	28740.	49.95	98.77	214.3	794.0	206400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5538.	25750.	2421.	864.8	199.0	2301.	41.73	6.004	-6.043	261.6	19290.
Stddev	58.	140.	47.	15.7	18.4	197.	2.69	2.196	.690	1.4	1683.
%RSD	1.053	.5428	1.939	1.814	9.237	8.537	6.443	36.57	11.42	.5272	8.726
#1	5585.	25610.	2462.	870.4	190.0	2193.	38.97	4.806	-5.367	262.5	18330.
#2	5555.	25740.	2370.	847.0	186.9	2183.	41.88	8.539	-6.016	262.3	18310.
#3	5473.	25890.	2430.	876.8	220.2	2528.	44.34	4.668	-6.746	260.0	21230.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.722	2228.	67.56	5064.	5228.	187.8	154.3
Stddev	1.020	8.	6.12	102.	26.	1.1	12.1
%RSD	13.20	.3651	9.064	2.005	.4887	.5808	7.837
#1	7.171	2237.	64.29	4949.	5231.	187.3	147.8
#2	7.097	2222.	63.77	5144.	5201.	187.0	146.8
#3	8.899	2224.	74.63	5098.	5252.	189.0	168.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17789.	50549.	19347.
Stddev	1224.	121.	260.
%RSD	6.8784	.23857	1.3414
#1	18527.	50460.	19263.
#2	18463.	50686.	19638.
#3	16377.	50500.	19140.

Sample Name: 1301038-07 Acquired: 1/24/2013 15:57:54 Type: Unk
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.787**	**80420.**	**211.5**	**1115.**	**5.148**	**56320.**	**11.13**	**64.28**	**195.5**	**1052.**	**214800.**
Stddev	.282	89.	1.8	2.	.089	124.	.09	.16	11.1	56.	1747.
%RSD	15.78	.1113	.8345	.1830	1.730	.2205	.8200	.2418	5.692	5.305	.8132
#1	1.689	80520.	213.5	1115.	5.152	56350.	11.16	64.42	208.3	1116.	214000.
#2	1.567	80340.	210.1	1116.	5.056	56190.	11.03	64.11	189.2	1022.	213700.
#3	2.105	80400.	211.0	1112.	5.234	56430.	11.20	64.31	188.8	1017.	216900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**6952.**	**29800.**	**3716.**	**1103.**	**231.0**	**58420.**	**127.4**	**4.692**	**-8.956**	**319.9**	**9223.**
Stddev	71.	73.	168.	28.	3.1	288.	2.5	6.884	1.413	15.8	66.
%RSD	1.024	.2448	4.515	2.515	1.329	.4925	1.961	146.7	15.77	4.925	.7101
#1	6922.	29730.	3898.	1130.	233.8	58740.	130.2	8.239	-8.762	338.0	9296.
#2	7034.	29790.	3567.	1105.	231.4	58310.	125.9	-3.243	-10.46	310.7	9205.
#3	6902.	29870.	3685.	1074.	227.7	58200.	126.0	9.079	-7.650	310.8	9169.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.219**	**2083.**	**45.44**	**8142.**	**7946.**	**285.5**	**261.7**
Stddev	.410	119.	1.31	639.	318.	14.9	3.8
%RSD	7.861	5.730	2.883	7.852	4.003	5.218	1.461
#1	4.746	2221.	45.31	8880.	8001.	302.6	266.1
#2	5.477	2022.	46.81	7749.	8234.	276.0	259.5
#3	5.434	2006.	44.19	7797.	7605.	277.8	259.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**18223.**	**49103.**	**19300.**
Stddev	217.	1961.	82.
%RSD	1.1901	3.9931	.42422
#1	18175.	46847.	19280.
#2	18034.	50401.	19390.
#3	18460.	50060.	19230.

Sample Name: S301049-CCV4 Acquired: 1/24/2013 16:02:35 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**199.6**	**4703.**	**204.7**	**191.1**	**184.3**	**4971.**	**210.6**	**191.5**	**217.2**	**193.4**	**4973.**
Stddev	.8	26.	1.7	1.2	1.2	29.	.3	1.2	2.9	.5	20.
%RSD	.4116	.5537	.8242	.6074	.6473	.5833	.1485	.6117	1.321	.2619	.4094
#1	198.7	4681.	202.9	189.8	183.0	4938.	210.2	190.7	220.5	194.0	4955.
#2	199.8	4697.	205.1	191.4	184.7	4986.	210.8	192.8	215.1	193.1	4995.
#3	200.3	4732.	206.2	192.1	185.3	4990.	210.7	190.9	216.0	193.2	4971.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4894.**	**5037.**	**214.5**	**4787.**	**196.9**	**214.3**	**202.2**	**205.1**	**191.4**	**208.7**	**205.1**
Stddev	107.	41.	.6	20.	.4	1.2	2.5	4.4	.5	1.8	.2
%RSD	2.189	.8227	.2821	.4102	.2029	.5645	1.237	2.138	.2554	.8452	.1119
#1	5013.	4993.	214.3	4770.	197.2	215.6	200.2	209.4	191.3	208.2	205.2
#2	4864.	5075.	214.0	4782.	196.4	214.0	201.5	205.2	192.0	207.2	205.2
#3	4805.	5044.	215.2	4808.	197.0	213.2	205.0	200.6	191.0	210.6	204.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**186.8**	**202.5**	**186.2**	**5257.**	**4982.**	**206.5**	**192.3**
Stddev	.5	2.0	2.5	62.	52.	1.6	2.0
%RSD	.2928	.9672	1.334	1.174	1.050	.7823	1.028
#1	187.2	204.7	185.5	5321.	5042.	208.4	190.2
#2	187.0	201.1	184.1	5199.	4948.	205.7	194.1
#3	186.1	201.6	188.9	5251.	4955.	205.5	192.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17712.	47910.	17928.
Stddev	105.	195.	30.
%RSD	.59356	.40725	.16741
#1	17814.	48118.	17912.
#2	17604.	47730.	17909.
#3	17718.	47883.	17963.

Sample Name: S301049-CCB4 Acquired: 1/24/2013 16:06:57 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.4910**	**15.20**	**1.890**	**.6262**	**.3356**	**7.647**	**.0633**	**.1708**	**.4683**	**2.813**	**12.19**
Stddev	.4654	15.59	.908	.4021	.1251	5.809	.2586	.2754	.4853	.281	5.50
%RSD	94.78	102.5	48.06	64.21	37.28	75.96	408.5	161.2	103.6	9.987	45.10
#1	-.5076	4.793	1.409	1.002	.2477	9.856	-.0706	.0168	-.0883	2.493	6.028
#2	-.0175	33.12	2.938	.2019	.2803	1.058	-.1009	.4888	.6904	2.922	13.96
#3	-.9478	7.691	1.324	.6751	.4789	12.03	.3615	.0069	.8027	3.022	16.59
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-29.93**	**3.722**	**-.0690**	**-14.08**	**1.675**	**2.483**	**-3.233**	**-.0780**	**-1.061**	**-1.523**	**.2207**
Stddev	35.39	46.60	.0596	12.14	.579	2.931	4.713	3.301	2.738	.829	.1514
%RSD	118.2	1252.	86.33	86.21	34.55	118.1	145.8	4232.	258.0	54.41	68.60
#1	-12.69	56.45	-.0002	-.2935	1.270	5.140	-2.215	-.0178	-3.260	-.6425	.3150
#2	-6.472	-31.92	-.1045	-23.16	2.338	2.970	-8.372	3.193	2.006	-2.288	.0461
#3	-70.64	-13.36	-.1024	-18.79	1.418	-.6614	.8884	-3.409	-1.929	-1.638	.3011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-.6766**	**-.4086**	**-.7321**	**-4.504**	**-20.52**	**.5876**	**1.760**
Stddev	.0958	.2823	1.223	8.918	40.12	.9457	.268
%RSD	14.16	69.07	167.1	198.0	195.5	160.9	15.25
#1	-.5707	-.2538	-2.109	-5.910	-35.90	-.2607	2.042
#2	-.7572	-.2377	-.3173	-12.64	25.01	1.607	1.729
#3	-.7020	-.7344	.2297	5.033	-50.67	.4163	1.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17716.	48050.	17819.
Stddev	35.	69.	220.
%RSD	.19911	.14394	1.2320
#1	17681.	48129.	18014.
#2	17751.	48023.	17862.
#3	17717.	47999.	17581.

Sample Name: S301049-CCV5 Acquired: 1/24/2013 16:11:28 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**200.1**	**4767.**	**206.0**	**193.9**	**186.9**	**5069.**	**214.8**	**192.9**	**223.5**	**194.5**	**5035.**
Stddev	.5	66.	3.5	1.0	1.3	96.	.1	.4	.6	1.1	58.
%RSD	.2256	1.382	1.706	.5303	.7011	1.892	.0558	.2001	.2700	.5566	1.145
#1	200.7	4696.	203.0	193.4	185.4	4958.	214.9	193.2	223.9	194.7	4970.
#2	199.8	4826.	205.3	195.1	188.0	5121.	214.9	193.0	223.8	193.4	5082.
#3	200.0	4780.	209.9	193.2	187.3	5127.	214.7	192.4	222.8	195.5	5053.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**4973.**	**5138.**	**216.2**	**4835.**	**199.8**	**211.5**	**205.1**	**211.4**	**194.2**	**210.5**	**208.2**
Stddev	33.	39.	.3	31.	1.7	2.0	4.8	1.6	4.5	.2	1.0
%RSD	.6549	.7611	.1397	.6494	.8403	.9581	2.361	.7346	2.320	.0751	.4637
#1	4938.	5103.	216.4	4804.	197.9	212.0	208.4	209.6	198.9	210.3	207.1
#2	5002.	5180.	215.8	4867.	200.4	209.3	199.6	211.9	193.8	210.6	208.5
#3	4980.	5132.	216.2	4836.	201.0	213.3	207.4	212.6	189.9	210.5	209.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**187.8**	**205.3**	**183.6**	**5351.**	**5097.**	**210.0**	**198.0**
Stddev	.1	.3	.9	8.	67.	1.1	1.3
%RSD	.0653	.1323	.4966	.1454	1.318	.5058	.6328
#1	187.8	205.0	184.5	5348.	5023.	209.9	196.5
#2	187.7	205.4	183.6	5360.	5114.	211.1	198.5
#3	187.9	205.5	182.7	5345.	5155.	209.0	198.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17518.**	**47190.**	**17463.**
Stddev	10.	257.	491.
%RSD	.05799	.54552	2.8109
#1	17520.	47487.	18029.
#2	17527.	47048.	17208.
#3	17507.	47034.	17152.

Sample Name: S301049-CCB5 Acquired: 1/24/2013 16:15:51 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0997	-8.119	1.794	.9839	.6614	5.414	.0856	.0022	.3552	.8137	2.030
Stddev	.9574	17.41	3.106	1.288	.2347	2.142	.4249	.1477	.3185	.1810	5.175
%RSD	960.3	214.5	173.1	130.9	35.48	39.56	496.4	6645.	89.66	22.24	255.0
#1	-.9247	1.553	-.9616	-.0340	.9320	5.683	.3380	.1604	.7120	1.016	7.893
#2	.9718	2.310	5.160	.5540	.5130	3.150	-.4050	-.0217	.0995	.7575	-1.901
#3	.2520	-28.22	1.185	2.432	.5393	7.408	.3238	-.1320	.2541	.6674	.0970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-97.76	22.50	-.1118	2.210	2.386	1.536	3.243	2.361	-.9156	-1.082	-.2216
Stddev	30.73	34.99	.0462	18.12	1.054	.909	2.656	5.056	1.629	.784	.0719
%RSD	31.43	155.5	41.33	819.7	44.17	59.18	81.90	214.2	178.0	72.50	32.45
#1	-113.9	-.3531	-.0696	-17.58	3.593	2.570	1.893	-3.102	-2.697	-1.979	-.2340
#2	-62.33	62.78	-.1612	17.98	1.912	1.173	1.533	3.309	.5002	-.7410	-.1443
#3	-117.0	5.067	-.1047	6.228	1.652	.8646	6.303	6.875	-.5504	-.5256	-.2865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5437	-.2304	-1.916	-3.992	-5.934	-.2288	1.566
Stddev	.2506	.1227	2.002	6.091	23.95	1.258	1.617
%RSD	46.09	53.25	104.4	152.6	403.6	549.6	103.3
#1	-.3301	-.2714	-3.054	1.760	-6.518	-1.386	.3934
#2	-.4814	-.3274	-3.090	-10.37	-29.58	1.109	3.410
#3	-.8195	-.0925	.3948	-3.363	18.30	-.4093	.8934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17821.	47364.	17429.
Stddev	282.	133.	265.
%RSD	1.5847	.28077	1.5224
#1	18115.	47406.	17299.
#2	17795.	47215.	17735.
#3	17552.	47471.	17255.

Sample Name: S301049-LCV3 Acquired: 1/24/2013 16:20:22 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**5.523**	**105.7**	**9.020**	**96.53**	**3.278**	**497.6**	**3.063**	**19.68**	**5.874**	**12.12**	**52.05**
Stddev	.438	14.4	6.228	2.64	.378	12.7	.109	.15	.973	.51	4.34
%RSD	7.937	13.62	69.05	2.733	11.52	2.561	3.546	.7605	16.56	4.184	8.343
#1	5.998	98.45	3.729	93.48	2.935	486.2	2.955	19.77	5.133	12.65	48.10
#2	5.134	96.29	7.447	98.17	3.217	511.4	3.173	19.76	5.513	12.07	51.35
#3	5.438	122.2	15.88	97.93	3.683	495.1	3.061	19.50	6.975	11.64	56.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**383.3**	**518.9**	**5.335**	**963.3**	**21.99**	**10.33**	**24.23**	**22.36**	**15.34**	**20.70**	**20.87**
Stddev	57.7	32.4	.185	21.2	.89	1.16	2.61	4.18	1.38	.34	.25
%RSD	15.06	6.240	3.473	2.202	4.065	11.24	10.77	18.70	9.023	1.663	1.197
#1	396.6	483.0	5.132	951.3	21.70	9.294	21.26	17.93	14.52	20.52	21.15
#2	320.1	527.7	5.496	950.7	23.00	10.10	25.27	22.91	14.56	21.09	20.67
#3	433.3	545.9	5.377	987.8	21.28	11.58	26.16	26.24	16.93	20.47	20.79
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.108**	**10.14**	F **6.786**	**515.1**	**477.5**	**11.08**	**12.79**
Stddev	.515	.32	.894	2.1	35.4	.47	2.05
%RSD	5.652	3.182	13.17	.4028	7.408	4.197	16.05
#1	8.583	10.14	6.857	513.0	443.0	11.03	10.75
#2	9.612	10.46	7.643	515.1	513.7	10.64	12.77
#3	9.131	9.813	5.859	517.1	475.7	11.57	14.86
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			10.00				
Range			-30.00%				

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	17864.	48117.	17503.
Stddev	95.	350.	285.
%RSD	.53392	.72761	1.6290
#1	17974.	48484.	17820.
#2	17803.	48083.	17423.
#3	17815.	47786.	17267.

Sample Name: S301049-LCV4 Acquired: 1/24/2013 16:24:54 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**9.498**	**203.4**	**17.37**	**188.1**	**6.020**	**981.3**	**6.415**	**38.33**	**11.60**	**21.31**	**95.85**
Stddev	.291	2.7	2.15	2.0	.377	7.4	.198	.42	.57	.73	2.84
%RSD	3.068	1.342	12.37	1.072	6.260	.7523	3.087	1.084	4.926	3.439	2.957
#1	9.423	200.7	19.84	187.2	5.658	975.2	6.493	38.43	11.94	20.88	92.59
#2	9.820	206.2	16.38	186.7	6.410	989.5	6.562	37.88	10.94	22.16	97.70
#3	9.252	203.2	15.89	190.4	5.993	979.3	6.189	38.69	11.93	20.90	97.27
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1002.**	**1016.**	**10.57**	**1879.**	**39.44**	**14.70**	**40.90**	**39.41**	**33.13**	**40.73**	**40.34**
Stddev	94.	18.	.03	14.	.79	1.83	2.42	2.47	1.51	.64	.17
%RSD	9.404	1.758	.2393	.7427	1.993	12.42	5.914	6.256	4.552	1.581	.4162
#1	917.3	1018.	10.60	1865.	38.75	16.34	41.79	41.74	33.46	41.26	40.39
#2	984.9	1033.	10.58	1893.	39.27	15.03	38.16	39.68	34.44	40.01	40.47
#3	1103.	997.8	10.55	1881.	40.30	12.73	42.75	36.83	31.48	40.93	40.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value											
Range											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**18.04**	**20.17**	**16.21**	**1013.**	**928.2**	**20.29**	**21.94**
Stddev	.12	.27	1.94	5.	31.3	.70	1.09
%RSD	.6506	1.327	11.94	.4661	3.367	3.429	4.983
#1	18.15	20.45	14.01	1016.	958.6	21.09	20.71
#2	18.07	20.14	17.66	1008.	929.8	19.79	22.33
#3	17.92	19.92	16.95	1017.	896.2	20.00	22.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**17825.**	**47854.**	**17406.**
Stddev	157.	391.	346.
%RSD	.87940	.81700	1.9891
#1	17965.	47742.	17636.
#2	17854.	48289.	17574.
#3	17656.	47532.	17008.

Sample Name: S301049-IFA2 Acquired: 1/24/2013 16:29:25 Type: QC
Method: PROM-2013(v9) Mode: CONC Corr. Factor: 1.000000
User: RR : Instrument: ICAP6300 Method: SOP-C-109
Comment:

Elem	Ag3280	Al3961R	As1890	Ba4554R	Be3131R	Ca3179R	Cd2265	Co2286	Cr2677	Cu3247	Fe2599R
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**1.385**	**315200.**	**-.5187**	**1.205**	**.9668**	**308700.**	**.7066**	**-1.150**	**-1.445**	**-1.777**	**307300.**
Stddev	.916	1352.	2.420	.655	.1111	5682.	.3202	.399	.506	.534	2371.
%RSD	66.16	.4288	466.5	54.40	11.49	1.841	45.31	34.67	35.00	30.06	.7715
#1	.3631	316300.	.6353	.4544	1.073	315300.	.4351	-1.561	-1.138	-1.811	306800.
#2	1.659	315500.	1.108	1.494	.9759	305200.	.6251	-.7654	-1.168	-2.293	309800.
#3	2.134	313700.	-3.300	1.665	.8515	305600.	1.060	-1.123	-2.029	-1.227	305200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	K_7664R	Mg2790R	Mn2576	Na5895R	Ni2316	Pb2203	Sb2068	Se1960	Tl1908	V_2924	Zn2062
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**131.1**	**318300.**	**-.3741**	**302200.**	**-.9957**	**-1.468**	**1.525**	**1.725**	**-.8969**	**-3.767**	**4.294**
Stddev	119.6	1353.	.0317	2908.	.2587	2.752	3.760	.904	2.160	1.186	.749
%RSD	91.27	.4251	8.463	.9621	25.98	187.4	246.5	52.40	240.8	31.48	17.44
#1	54.67	319000.	-.3917	304400.	-1.171	1.286	-2.164	1.017	.3182	-3.107	4.055
#2	69.60	319200.	-.3375	303400.	-.6986	-4.218	1.387	1.415	.3817	-5.136	5.133
#3	268.9	316800.	-.3930	298900.	-1.117	-1.473	5.352	2.743	-3.391	-3.058	3.694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit											
Low Limit											

Elem	Mo2020	Ti3372	B_2089	Si2881A	Si2881R	Sr3464	Sn1899
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	**-2.845**	**1.313**	**-.0413**	**-36.26**	**-57.61**	**1.382**	**3.566**
Stddev	.339	.179	2.637	2.13	21.68	.662	3.179
%RSD	11.93	13.61	6391.	5.861	37.64	47.89	89.14
#1	-3.226	1.416	-3.084	-33.94	-81.28	1.668	2.323
#2	-2.576	1.415	1.381	-38.11	-52.86	.6253	7.179
#3	-2.733	1.106	1.579	-36.73	-38.70	1.853	1.197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Int. Std.	Y_2243-A	Y_3203-A	Y_3600-R
Units	Cts/S	Cts/S	Cts/S
Avg	**16013.**	**41824.**	**16159.**
Stddev	51.	150.	171.
%RSD	.31754	.35770	1.0559
#1	15958.	41969.	16029.
#2	16025.	41670.	16096.
#3	16058.	41831.	16352.

SOP-G-23 PERCENT SOLIDS/MOISTURE Book # : % S/M -16
Lock# : 0200626

Balance#: 33

Oven#: D-92

Page # : 146

Method: CLP SOW; 5.00-10.00g sample dried at 103-105 degC for 12-24 hours.

Note: Before starting the % Solids determination, an aliquot should be taken as follows:
(PLEASE CIRCLE HOW ALIQUOT WAS OBTAINED)
A. For Organic analyses, except VOA,: decant any standing water.
(B) For other analyses: mix the sample thoroughly.

Name of Survey(s): Jewett white
Work Order Number: 1301038

Date placed in oven at 103-105degC: 1/24/2013 Time: 16:10 AM/(PM)

Date removed from oven at 103-105degC: 1/25/2013 Time: 7:15 (AM)/PM

SAMPLE ID	WT OF DISH (grams) -A-	WT OF DISH + WET/AIR-DRIED SAMPLE (grams) -B-	WT OF DISH + DRIED SAMPLE (grams) -C-	PERCENT SOLIDS	PERCENT MOISTURE	CHECK IF AIR-DRIED
1301038-01	1.1605	9.6170	9.2303	95.43%	4.57%	
1301038-01 Dup	1.1808	9.9914	9.6328	95.93%	4.07%	
1301038-02	1.1763	10.0224	9.7115	96.49%	3.51%	
1301038-03	1.1829	10.2320	10.1407	98.99%	1.01%	
1301038-04	1.1917	9.6501	9.5690	99.04%	0.96%	
1301038-05	1.1836	9.7735	9.6345	98.38%	1.62%	
1301038-06	1.1879	9.3048	9.2549	99.39%	0.61%	
1301038-07	1.1788	9.5221	9.2313	96.51%	3.49%	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
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				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	
				#DIV/0!	#DIV/0!	

Av % Solids	Av % Moisture	RPD % Solids	RPD % Moisture
		RPD<20%	RPD<20%
95.68%	4.32%	0.53%	11.63%

***Duplicate Must Be From First Sample Entered on the List for Correct RPD**

PERCENT = SOLIDS	C - A / B - A	(*100)	PERCENT = MOISTURE	B - C / B - A	(*100)	

Analyst RR / WEB

Validated By/Date: MS 1/25/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301038

Printed: 1/25/2013 7:48:18AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/25/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due:	01/25/2013 00:00 (1 day TAT)	Tracking No:	
Received By:	Zubair Ali	Date Received:	01/24/2013 12:30
Logged In By:	Zubair Ali	Date Logged In:	01/24/2013 12:56

Sample Conditions:

Custody Seals (for Crim. Enf. Sample	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contaminatio	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 2 C

Analysis	Analysis Due Date	Hold Time
1301038-01 S-049-4248-001 [Solid] Sampled 01/24/2013 09:20 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-02 S-049-4248-002 [Solid] Sampled 01/24/2013 09:20 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-03 S-050-1218-001 [Solid] Sampled 01/24/2013 09:27 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-04 S-051-0612-001 [Solid] Sampled 01/24/2013 09:40 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-05 S-052-1218-001 [Solid] Sampled 01/24/2013 09:55 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301038

Printed: 1/25/2013 7:48:18AM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/25/2013

Analysis	Analysis Due Date	Hold Time
1301038-06 S-053-0006-001 [Solid] Sampled 01/24/2013 10:08 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180
1301038-07 S-054-0006-001 [Solid] Sampled 01/24/2013 11:15 Eastern [1 Container]		
E-Lead ICP	7/23/2013 12:00:00AM	180

WorkOrder Comments
24 hr TAT per Ness .

Reviewed By

Date

USEPA Contract No. EP-W-06-072
Hand delivered: 1/24/13

CHAIN OF CUSTODY RECORD
Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-012413-114123-0037
Lab: DESA
Lab Contact: John Birri
Phone: 732-906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301038-01	S-049-4248-001	S-049	1/24/2013	Soil	9:20	1	4 oz glass jar	Lead	4 C	Y
-02	S-049-4248-002	S-049	1/24/2013	Soil	9:20	1	4 oz glass jar	Lead	4 C	N
-03	S-050-1218-001	S-050	1/24/2013	Soil	9:27	1	4 oz glass jar	Lead	4 C	N
-04	S-051-0812-001	S-051	1/24/2013	Soil	9:40	1	4 oz glass jar	Lead	4 C	N
-05	S-052-1218-001	S-052	1/24/2013	Soil	9:55	1	4 oz glass jar	Lead	4 C	N
-06	S-053-0006-001	S-053	1/24/2013	Soil	10:08	1	4 oz glass jar	Lead	4 C	N
-07	S-054-0006-001	S-054	1/24/2013	Soil	11:15	1	4 oz glass jar	Lead	4 C	N

BD 1/24/13

A.M. 1/24/13

Special Instructions:

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
All Samples	A. Mallon	1/24/13								1/24/13	12:30

Temp = 2.1°C ow ICE
BA 1/24/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042 **Report Date:** January 28, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

Comments

* Partial Draft Report generated with wo# 1301048. 1/28/13

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	ZUBAIR F. ALI	1/28/13
	Special Projects Coord.	John Birri	
	Laboratory QAO	Sunny Cherukara	
	Laboratory Branch Chief	John Bourbon	1/29/13

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		**Date Received by RSCC:**		**Date Cancelled:**	

Site Name:	Jewett White Lead Site	**CERCLIS ID:**	NYD980531545	**Sampling Dates:**	
City/Town:	Staten I:sland	**Op Unit:**	00 **Site Spill ID:** A218	**Start:** ~~10/3/2012~~ 12/10/12	
State:	NY	**Action Code:**	Removal - RV	**Finish:** ~~11/3/2012~~ 1/3/13	

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ◉ After 1600 Hrs

EPA Project Manager:

First Name:	Mark
Last Name:	Gallo

Analytical Services Requestor:

First Name:	Smita
Last Name:	Sumbaly
Phone #:	7325854410
Organization:	RST 2

Proposed Shipping Dates:
Start: ~~10/3/2012~~ 12/10/12
Finish: ~~11/3/2012~~ 1/31/13

Saturday Delivery? ☐ Yes

EPA Approved QAPP?: ☐ Yes
Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used:
(PRP/FF)

E-mail for Lab Assignments:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

E-mail for Data:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

Address for Hard Copy:
Weston Solutions, Inc.
1090 King Georges Post Road
Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Bin 11/27/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	~~EPA-624/C-89~~	EPA
150		Air	Total Lead	14 days	~~SW 846 Method No. 7082~~	—
					C-109	
					J.B. 11/13	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

USEPA Contract No. EP-W-06-072
Hand delivered: 1/25/13

CHAIN OF CUSTODY RECORD
Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-012513-140327-0040
Lab: DESA
Lab Contact: John Birri
Phone: 732- 906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301048-01	S-060-4248-001	S-060	1/25/2013	Soil	13:37	1	4 oz glass jar	Lead	4 C	Y
-02	S-060-4248-002	S-060	1/25/2013	Soil	13:37	1	4 oz glass jar	Lead	4 C	N

1/25/13

A. M. 1/25/13

Special Instructions:	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all Samples	A. Mallon	1/25/13								1/25/13	15:45

Temp = 3.5°C on ice 1/25/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301048

Printed: 1/25/2013 3:59:43PM

Project: Jewett White Lead - 1212042
Project Number: 1212042
Client: Weston Solutions Inc.
Project Due Date: 01/28/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/28/2013 00:00 (3 day TAT)
Tracking No:
Received By: Zubair Ali
Date Received: 01/25/2013 15:45
Logged In By: Zubair Ali
Date Logged In: 01/25/2013 15:49

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 4 C

Analysis	Analysis Due Date	Hold Time
1301048-01 S-060-4248-001 [Solid] Sampled 01/25/2013 13:37 Eastern [1 Container]		
Lead ICP	7/24/2013 12:00:00AM	180
1301048-02 S-060-4248-002 [Solid] Sampled 01/25/2013 13:37 Eastern [1 Container]		
Lead ICP	7/24/2013 12:00:00AM	180

WorkOrder Comments

Reviewed By

Date 1/25/13

01/25/2013

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/25/2013 15:45	Project Name: Jewett White Lead - 1212042	Work Order #: 1301048 # of Samples: 2	
Report Date: 01/25/2013 15:49	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 2	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(2 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

Jewett White Lead 1212042 WO# 1301045 and 1301048

Ness Tirol to: Region2 OSCAR 01/25/2013 05:21 PM

Cc: Lisa Brassell, William Rickert, Renee Lettieri, John Bourbon, Gregory Santacroce, Mark Gallo, Roland Recto

Ness Tirol	Jewett White Lead 1212042 WO# 1301045 and 1301048

Please be advised that the TAT for these 8 soil samples is 24 TAT excluding weekends. Thus, the due date for these samples will be 1/28/13 around noon.

Lead analysis for the next week sampling events will be handled by ESAT.

Please let me know if you have any questions.

~~~~~~

Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165

~~~~~~

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

January 28, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/25/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-055-4248-001	1301045-01	Solid	01/24/2013 14:15	01/25/2013 12:10
S-055-4248-002	1301045-02	Solid	01/24/2013 14:15	01/25/2013 12:10
S-056-1218-001	1301045-03	Solid	01/24/2013 15:00	01/25/2013 12:10
S-057-1824-001	1301045-04	Solid	01/24/2013 15:20	01/25/2013 12:10
S-058-1218-001	1301045-05	Solid	01/24/2013 15:25	01/25/2013 12:10
S-059-0612-001	1301045-06	Solid	01/24/2013 15:30	01/25/2013 12:10
S-060-4248-001	1301048-01	Solid	01/25/2013 13:37	01/25/2013 15:45
S-060-4248-002	1301048-02	Solid	01/25/2013 13:37	01/25/2013 15:45

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-055-4248-001				**Sample ID: 1301045-01**
Metals ICP				
Lead	8.1		0.67	mg/kg dry
Field ID: S-055-4248-002				**Sample ID: 1301045-02**
Metals ICP				
Lead	8.0		0.67	mg/kg dry
Field ID: S-056-1218-001				**Sample ID: 1301045-03**
Metals ICP				
Lead	2400		0.60	mg/kg dry
Field ID: S-057-1824-001				**Sample ID: 1301045-04**
Metals ICP				
Lead	23		0.68	mg/kg dry
Field ID: S-058-1218-001				**Sample ID: 1301045-05**
Metals ICP				
Lead	1100		0.66	mg/kg dry
Field ID: S-059-0612-001				**Sample ID: 1301045-06**
Metals ICP				
Lead	5500		0.69	mg/kg dry
Field ID: S-060-4248-001				**Sample ID: 1301048-01**

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-060-4248-001				Sample ID: 1301048-01
Metals ICP				
Lead	9.8		0.68	mg/kg dry
Field ID: S-060-4248-002				Sample ID: 1301048-02
Metals ICP				
Lead	10		0.66	mg/kg dry

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042 **Report Date:** January 28, 2013

Project/Survey Name: Jewett White Lead - 1212042

Addressee: Weston Solutions Inc.
Smita Sumbaly
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

CC: Mark Gallo

Comments

* Partial Draft Report generated with WO # 1301045. 1/28/13

Approvals

		NAME:	Signature/Date
	OSCAR Report Coord.	Zubair F. Ali	1/28/13
	Special Projects Coord.	John Birri	
	Laboratory QAO	Sunny Cherukara	
	Laboratory Branch Chief	John Bourbon	1/29/13

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

Approval Form / Project Checklist

Project Number: 1212042

Project/Survey Name: Jewett White Lead - 1212042

Project File Information

	File Core Data	√
1	Project Report – 1 Copy	✓
2	Project Narrative – 1 Copy	✓
3	Analytical Request Form (ARF)	✓
4	External Chain of Custody Forms	✓
5	Shipping Forms/Air Bills	N/A
6	Sample Acceptance Checklist(s)	✓
7	Internal Chain of Custody Form(s)	N/A
8	OSCAR Sample Tracking Log	✓
9	Project Correspondence	✓
	Area Specific Raw Data	
11	Organics	
	VOAs	
	NVOAs	
	PCBs	
	Pesticides	
	Haloacetic Acids	
	MEE	
12	Metals	
	ICP-AES	
	ICP-MS	
	CVAAS – Mercury	
	DMA - Mercury	

		√
13	Sanitary Chemistry	
14	Microbiology	
15	Biology	

Revised

US EPA Region 2
Analysis Request Form

CLP Case/Project #:		**Date Received by RSCC:**		**Date Cancelled:**	

Site Name:	Jewett White Lead Site	**CERCLIS ID:**	NYD980531545	**Sampling Dates:**	
City/Town:	Staten I:sland	**Op Unit:**	00 **Site Spill ID:** A218	**Start:** ~~10/3/2012~~ 12/10/12	
State:	NY	**Action Code:**	Removal - RV	**Finish:** ~~11/3/2012~~ 1/3/13	

Arrival Time:
- ○ 0800-1200Hrs
- ○ 1200-1600Hrs
- ● After 1600 Hrs

EPA Project Manager:	
First Name:	Mark
Last Name:	Gallo

Analytical Services Requestor:	
First Name:	Smita
Last Name:	Sumbaly
Phone #:	7325854410
Organization:	RST 2

Proposed Shipping Dates:
Start: ~~10/3/2012~~ 12/10/12
Finish: ~~11/3/2012~~ 1/3/13

Saturday Delivery? ☐ Yes

EPA Approved QAPP?: ☐ Yes
Date of QAPP Approval: not approved

Oversight/Split Sampling?: ☐ Yes
(e.g. PRP/Fed Facility)

Labs Used:
(PRP/FF)

E-mail for Lab Assignments:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

E-mail for Data:
S.Sumbaly@westonsolutions.com
Brittney.Kelly@westonsolutions.com

Address for Hard Copy:
Weston Solutions, Inc.
1090 King Georges Post Road
Edison, New Jersey 08837

Contaminants of Concern (if known): Lead

Known Hazardous Waste Constituents:

Special Requests & Reporting Requirements (attach if more space required):

24-48 hours turnaround time require for the air samplespreliminary data and ~~24~~ 48 hours TAT for the soil samples preliminary data

14 days TAT for validated data package require.

approximately 10 soils samples will be submitted per day.

J. Bin 11/27/12

FILE

** Shaded area for RSCC use only **

U.S. EPA Region 2
Analysis Request Form

Site Name:		Jewett White Lead Site				
# of Samples	Conc. Level (see key)	Matrix (see key)	Analyses	Turnaround Time (for validated data)**	SOW # / Method	Lab Assignment
150	Low	SOIL	Total Lead	14 days	EPA-624/C-89	EMA
150		Air	Total Lead	14 days	SW 846 Method No. 7082	
					C-109	
					J. Bi 11/5/13	

** See instruction sheet for explanation of Turnaround Time for validated data.

Accepted by:		Date Accepted:	

** Shaded area for RSCC use only **

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301045

Printed: 1/25/2013 2:37:55PM

Project: Jewett White Lead - 1212042 **Client:** Weston Solutions Inc.
Project Number: 1212042 **Project Due Date:** 01/28/2013

Report To:

Weston Solutions Inc.
Smita Sumbaly
205 Campus Drive
Edison, NJ 08837
Phone: (732) 585-4410
Fax: NONE

Program: Weston Solutions Inc.
Program Code: Removal - RV
Superfund Account Number: 13 T 02P-303DC6-A218-LA 00

WO Date Due: 01/28/2013 00:00 (3 day TAT) Tracking No:
Received By: Zubair Ali Date Received: 01/25/2013 12:10
Logged In By: Zubair Ali Date Logged In: 01/25/2013 12:26

Sample Conditions:

Custody Seals (for Crim. Enf. Samples)	No	Proper Preservation and Holding Times?	Yes	Additional Sample comments?	Yes
Adequate Sample Volume	Yes	Labels Water Resistant with Indelible Ink	Yes	Samples hand delivered?	Yes
Appropriate Sample Containers	Yes	Shipping Documents Properly Signed & Dtd?	No	Chilling started for hand delivered samples?	Yes
No Signs of Damage or Contamination	Yes	COC/Sample Labels agree?	Yes		

Red Cooler 1 at Temp of 6 C

Analysis	Analysis Due Date	Hold Time
1301045-01 S-055-4248-001 [Solid] Sampled 01/24/2013 14:15 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180
1301045-02 S-055-4248-002 [Solid] Sampled 01/24/2013 14:15 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180
1301045-03 S-056-1218-001 [Solid] Sampled 01/24/2013 15:00 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180
1301045-04 S-057-1824-001 [Solid] Sampled 01/24/2013 15:20 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180
1301045-05 S-058-1218-001 [Solid] Sampled 01/24/2013 15:25 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Sample Acceptance Checklist

Work Order: 1301045

Printed: 1/25/2013 2:37:55PM

Project: Jewett White Lead - 1212042	**Client:** Weston Solutions Inc.
Project Number: 1212042	**Project Due Date:** 01/28/2013

Analysis	Analysis Due Date	Hold Time
1301045-06 S-059-0612-001 [Solid] Sampled 01/24/2013 15:30 Eastern [1 Container]		
Lead ICP	7/23/2013 12:00:00AM	180

WorkOrder Comments

Please note samples S-056-1218-001 and S-059-0612-001 screened above 2,000 ppm Pb.

Michelle J. Schwartz
Reviewed By

1/25/2013
Date

USEPA Contract No. EP-W-06-072
Hand delivered: 1/25/13

CHAIN OF CUSTODY RECORD

Site: Jewett White Lead
Contact Name: Sasha Mallon
Contact Phone: 732-570-4997

No: 2-012513-111814-0039
Lab: DESA
Lab Contact: John Birri
Phone: 732- 906-6886

Lab #	Sample #	Location	Collected	Matrix	Sample Time	Numb Cont	Container	Analyses	Preservative	MS/MSD
1301045-01	S-055-4248-001	S-055	1/24/2013	Soil	14:15	1	4 oz glass jar	Lead	4 C	Y
-02	S-055-4248-002	S-055	1/24/2013	Soil	14:15	1	4 oz glass jar	Lead	4 C	N
-03	S-056-1218-001	S-056	1/24/2013	Soil	15:00	1	4 oz glass jar	Lead	4 C	N
-04	S-057-1824-001	S-057	1/24/2013	Soil	15:20	1	4 oz glass jar	Lead	4 C	N
-05	S-058-1218-001	S-058	1/24/2013	Soil	15:25	1	4 oz glass jar	Lead	4 C	N
-06	S-059-0612-001	S-059	1/24/2013	Soil	15:30	1	4 oz glass jar	Lead	4 C	N

rd 1/25/13

A.M. 1/25/13

Special Instructions: Please note samples S-056-1218-001 and S-059-0612-001 screened above 2,000 ppm Pb.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
all Samples	A. Mallon	1/25/13								1/25/13	12:10

Temp = 6.0°C on ice rd 1/25/13

01/25/2013

EPA REGION 2 LABORATORY
OFFICIAL SAMPLE CONTROL AND REPOSITORY

Dates	Project Info	Work Order	Report Recipient
Date/Time Received: 01/25/2013 12:10	Project Name: Jewett White Lead - 1212042	Work Order #: 1301045 # of Samples: 6	
Report Date: 01/25/2013 12:33	SDG Number/Project Number: P-1212042/1212042 Project Leader Smita Sumbaly		
	Decision Unit: Y206RV	# of Analyses: 6	

Samples/Work Distribution/Sample Type

EPA

Metals Lead ICP(6 Solid)

Customer Service Survey Results

Category	Ranking
Planning:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Timeliiness:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Quality:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA
Communication:	○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ NA

Follow-Up? ○ Yes ● No

Comments:

Jewett White Lead 1212042 WO# 1301045 and 1301048

Ness Tirol to: Region2 OSCAR 01/25/2013 05:21 PM

Cc: Lisa Brassell, William Rickert, Renee Lettieri, John Bourbon, Gregory Santacroce, Mark Gallo, Roland Recto

Ness Tirol	Jewett White Lead 1212042 WO# 1301045 and 1301048

Please be advised that the TAT for these 8 soil samples is 24 TAT excluding weekends. Thus, the due date for these samples will be 1/28/13 around noon.

Lead analysis for the next week sampling events will be handled by ESAT.

Please let me know if you have any questions.

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Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165

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Jewett White Lead - 1212042 WO #1301045
Ness Tirol to: Region2 OSCAR 01/25/2013 01:31 PM
Cc: Lisa Brassell, John Bourbon, Mark Gallo

Ness Tirol	Jewett White Lead - 1212042 WO #1301045

Please log the six (6) soil samples received today for EPA. However, next week's sample deliveries must be log in to ESAT.

Please be guided accordingly.

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Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
U. S. EPA Region 2
2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165
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Jewett samples

Mark Gallo to: Ness Tirol, DESA Lab (receiving) 01/25/2013 11:28 AM

Mark Gallo	Jewett samples	

RST should be at DESA with 6 samples in approx an hour

Mark Gallo
(732) 906-6871
msg sent via blackberry

Jewett Samples
Mark Gallo to: Ness Tirol, oscar.region2 01/25/2013 09:55 AM

Mark Gallo *Ness.... thanks, received the validated data.... we will have a minimum*

Ness.... thanks, received the validated data.... we will have a minimum of 6 samples today. We will be trying to get 1 or 2 more if conditions allow. Will attempt to get them to Lab earlier afternoon if possible...

Mark Gallo, Federal On-Scene Coordinator
US EPA Region 2
Removal Action Branch
phone: (732) 906-6871 fax: (732) 906-6182

From: Ness Tirol/R2/USEPA/US
To: s.sumbaly@westonsolutions.com, Mark Gallo/R2/USEPA/US@EPA
Cc: Gregory Santacroce/R2/USEPA/US@EPA, John Birri/R2/USEPA/US@EPA, Sumy Cherukara/R2/USEPA/US@EPA, William Rickert/R2/USEPA/US@EPA, Renee Lettieri/R2/USEPA/US@EPA, John Bourbon/R2/USEPA/US@EPA, Yelena Khusid/R2/USEPA/US@EPA, Jim Ferretti/R2/USEPA/US@EPA
Date: 01/25/2013 09:37 AM
Subject: EPA Region 2 Partial Laboratory Report: Jewett White Lead Site Project

I have attached a Laboratory Report (in .pdf format w/project narrative) and the R2EDD Version 3 EQUIS file (in .xls format) for the Jewett White Lead Site Project (Project# 1212042) with Work Order #1301038 accepted by the EPA Region 2 Laboratory. The Laboratory received the samples on 1/24/13. The data have been validated by the Laboratory.

[attachment "1301038 P-1212042 FINAL 01 25 2013 0922.pdf" deleted by Mark Gallo/R2/USEPA/US]
[attachment "R2EDD_V3 1301038 P-1212042 FINAL 25 Jan 13 0922.xls" deleted by Mark Gallo/R2/USEPA/US]

In addition, we would like you to complete a very short project survey to share your experience as a customer for this project. The survey can be accessed using the link below and will take less than a minute of your time. Thank you.

EPA REGION 2 LAB PROJECT SURVEY - ****Please Click Here to Take Survey****

Please let me know if you have any questions.

Ness Tirol
Laboratory Branch, MS 230
Division of Environmental Science and Technology
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2890 Woodbridge Avenue
Edison, NJ 08837
phone (732) 321-4431
fax (732) 906-6165

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

January 28, 2013

Smita Sumbaly
Weston Solutions Inc.
205 Campus Drive
Edison, NJ 08837

RE: Jewett White Lead - 1212042

Enclosed are the results of analyses for samples received by the laboratory on 01/25/2013. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1212042 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition Comments

None

Comment(s):

None

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-055-4248-001	1301045-01	Solid	01/24/2013 14:15	01/25/2013 12:10
S-055-4248-002	1301045-02	Solid	01/24/2013 14:15	01/25/2013 12:10
S-056-1218-001	1301045-03	Solid	01/24/2013 15:00	01/25/2013 12:10
S-057-1824-001	1301045-04	Solid	01/24/2013 15:20	01/25/2013 12:10
S-058-1218-001	1301045-05	Solid	01/24/2013 15:25	01/25/2013 12:10
S-059-0612-001	1301045-06	Solid	01/24/2013 15:30	01/25/2013 12:10
S-060-4248-001	1301048-01	Solid	01/25/2013 13:37	01/25/2013 15:45
S-060-4248-002	1301048-02	Solid	01/25/2013 13:37	01/25/2013 15:45

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Lead	EPA 200.7 / SOP C-109 Rev3.2	NELAP	Solid

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-055-4248-001				**Sample ID: 1301045-01**
Metals ICP				
Lead	8.1		0.67	mg/kg dry
Field ID: S-055-4248-002				**Sample ID: 1301045-02**
Metals ICP				
Lead	8.0		0.67	mg/kg dry
Field ID: S-056-1218-001				**Sample ID: 1301045-03**
Metals ICP				
Lead	2400		0.60	mg/kg dry
Field ID: S-057-1824-001				**Sample ID: 1301045-04**
Metals ICP				
Lead	23		0.68	mg/kg dry
Field ID: S-058-1218-001				**Sample ID: 1301045-05**
Metals ICP				
Lead	1100		0.66	mg/kg dry
Field ID: S-059-0612-001				**Sample ID: 1301045-06**
Metals ICP				
Lead	5500		0.69	mg/kg dry
Field ID: S-060-4248-001				**Sample ID: 1301048-01**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:Jewett White Lead - 1212042

Project Number: 1212042

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: S-060-4248-001				Sample ID: 1301048-01
Metals ICP				
Lead	9.8		0.68	mg/kg dry
Field ID: S-060-4248-002				Sample ID: 1301048-02
Metals ICP				
Lead	10		0.66	mg/kg dry