Environmental Standards, Inc.

Specialists in Environmental Risk Assessment and Data Validation

The Commons at Valley Forge, Unit 4, 1220 Valley Forge Rd
P O Box 911, Valley Forge, PA 19481 (215) 935-5577

March 18, 1992

Mr. James Peronto, P.E.
Project Manager
TRC Environmental Consultants, Inc.
5 Waterside Crossing
Windsor, CT 06095

Dear Mr. Peronto:

Enclosed please find Environmental Standards, Inc.'s (ESI's) quality assurance review of samples collected from the U.S. Naval Education and Training Center in Newport, Rhode Island on 12/19/91. Overall, the data quality appears to be good.

If you have any questions/comments, please do not hesitate to call.

Sincerely,

Rock J. Vitale
Quality Assurance Specialist/Principal

RJV:rl
Enc.

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Environmental Standards, Inc.
Specialists in Environmental Risk Assessment and Data Validation

The Commons at Valley Forge, Unit 4, 1220 Valley Forge Rd
P O Box 911, Valley Forge, PA 19481 (215) 935-5577

QUALITY ASSURANCE REVIEW

THE NETC, NEWPORT, RI PROJECT

FIREFIGHTING TRAINING

March 18, 1992

Prepared for:

TRC ENVIRONMENTAL CONSULTANTS
800 Connecticut Blvd.
East Hartford, CT 06108

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1220 Valley Forge Road
P.O. Box 911
Valley Forge, PA 19481

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Introduction

This quality assurance review is based upon a rigorous review of the data generated from the analyses of samples which were collected on December 19, 1991.

The inorganic section of this review has been performed in accordance with the "Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses" (U.S. EPA Region I, November 1988).

The reported analytical results (Form I's) are presented in Section 2. Data were examined to determine the usability of the analytical results and also to determine contractual compliance relative to the analytical requirements and deliverables specified in EPA's Contract Laboratory Program Statement of Work. Qualifier codes have been placed next to results so that the data user can quickly assess the qualitative and/or quantitative reliability of any result. Details of this quality assurance review are presented in the narrative section of this report. This report was prepared to provide a critical review of the laboratory analyses and reported analytical results. Rigorous quality assurance reviews of laboratory-generated data routinely identify various problems associated with analytical measurements, even from the most experienced and capable laboratories. The nature and extent of problems identified in this critical review should not be interpreted to mean that those results that do not have qualifier codes are less than valid.

Section 1 Quality Assurance Review

A. Inorganic Data

The inorganic analysis of 9 soil samples was performed by Weston Analytics of Lionville, Pennsylvania. These samples were collectively analyzed for Target Analyte List (TAL) metals in accordance with U.S. EPA Contract Laboratory Program (CLP) protocols. The samples analyzed are listed below.

TRC Sample	Laboratory Sample
FF-SS7-1219	911285301
FF-SS8-1219	911285302
FF-SS9-1219	911285303
FF-SS10-1219	911285304
FF-SS11-1219	911285305
FF-SS12-1219 (Blind Dup of FF-SS8-1219)	911285306
FF-FB-1219 (Field Blank)	911285307
FF-SS7-1219MS (Matrix Spike)	911285301MS
FF-SS7-1219Dup (Duplicate)	911285301Dup

The findings in this report are based upon a rigorous review of holding times, blank analysis results, pre- and post-digestion spike recoveries, laboratory duplicate analyses, quantitation of interference checks, serial dilutions, laboratory control standard recoveries, graphite furnace QC and adherence to the protocol and requirements specified in the CLP.

Overall, the data quality for the package was good. All analytical requirements specified were met with the exception of the following deficiencies, which were noted during review of the data. It should be emphasized that the following items are contractual in nature and do not necessarily affect data usability. Data usability is addressed separately.

Correctable Deficiencies

1. The laboratory did not label the raw data with the TRC Environmental sample numbers required in SOW390 (B-9).

2. The times of all analyses are not recorded on the Form IX's for the furnace analytes as required (SOW390, B-38).

3. The post-digestion spike for sample FF-FB-1219 for lead yielded a 84.5% recovery according to page 85 of the data package. The laboratory did not flag the result "W" on the Form I as required (SOW390, B-20).

Noncorrectable Deficiencies

1. A CCV/CCB pair was not analyzed at the beginning of the analytical sequence as required by CLP for the mercury analysis of samples (SOW390, E-11).

2. The analyses of mercury in the project soil samples involved the digestion of 0.1 gm to a final volume of 50 ml. The CLP protocol (SOW390, D-64 to D-68) specifies the digestion of 0.2 gms (both BOD technique and autoclave technique) of sample to a final volume of 100 ml.

With respect to data usability, principal areas of concern include blank contamination, ICP interferences, matrix spike recoveries and CRDL standard recoveries. Based upon a rigorous review of the data provided, the following data qualifiers are offered. It should be noted that the following data usability issues represent an interpretation of the quality control results obtained for the project samples. Quite often, data qualifications address issues relating to sample matrix problems. Similarly, the validation guidelines routinely specify areas of the data that require qualification, yet the methods used for analysis do not require any corrective action by the laboratory. Accordingly, the following data usability issues should not necessarily be construed as an indication of laboratory performance.

- Due to the low-level presence of vanadium in initial calibration blanks, continuing calibration blanks, preparation blanks and/or the field blank, positive results for vanadium in samples FF-SS7-1219, FF-SS8-1219, FF-SS9-1219, FF-SS10-1219, FF-SS11-1219 and FF-SS12-1219 should be considered "not-detected" and have been flagged "U" on the qualified Form I's.

- The actual detection limits for cadmium in samples FF-SS7-1219, FF-SS8-1219, FF-SS9-1219, FF-SS10-1219, FF-SS11-1219 and FF-SS12-1219 may be higher than reported and has been flagged "UJ" on the qualified Form I's. Low recoveries (62.0% and 71.0%) were obtained for cadmium in the two-times the CRDL standard.

- The actual detection limit for antimony in sample FF-FB-1219 may be higher than reported and has been flagged "UJ" on the qualified Form I's. A low recovery (54.1%) was obtained for the associated two-times the CRDL standard. Furthermore, the actual detection limit for antimony in all project soil samples may be higher than reported and has been flagged "UJ" on the qualified Form I's. A notable negative response (-61 μg/L) was observed in the associated ICSA ICP interference check sample. In addition, for the soil samples, a low recovery (63.4%) was observed for the associated pre-digestion matrix spike and (73.2%) post-digestion matrix spike.

- The actual detection limits for selenium and thallium in samples FF-SS7-1219, FF-SS8-1219, FF-SS9-1219, FF-SS10-1219, FF-SS11-1219 and FF-SS12-1219 may be higher than reported and have been flagged "UJ" on the qualified Form I's. For selenium, a low recovery (70.3%) was obtained for the associated pre-digestion matrix spike. For selenium and thallium, low recoveries (<85%) were obtained for the post-digestion matrix spikes for all samples.

- The reported concentrations of arsenic in samples FF-SS7-1219, FF-SS8-1219, FF-SS9-1219, FF-SS10-1219, FF-SS11-1219 and FF-SS12-1219 should be considered estimated and have been flagged "J" on the qualified Form I's. A low recovery (72.3%) was obtained for arsenic in the associated matrix spike.

- The actual detection limits for lead in sample FF-FB-1219 may be higher than reported and has been flagged "UJ" on the qualified Form I's. A slightly low (84.5%) recovery was observed for the post-digestion spike for lead in this sample.

- Samples FF-SS8-1219 and FF-SS12-1219 are blind field duplicates. All results are within the EPA Region I data validation 50% RPD acceptance guidelines.

B. Conclusions

This quality assurance review has identified several aspects of the analytical data that have required qualification. To confidently use any of the analytical data within this sample set, the data user should understand the qualifications and limitations stated in this report. The recommendation summary is presented in Table 1.

Report prepared by:

Rock J. Vitale
Quality Assurance Specialist/Principal

ENVIRONMENTAL STANDARDS, INC.
1220 Valley Forge Road
P.O. Box 911
Valley Forge, PA 19481

(215) 935-5577

Date: 3/18/92

TABLE 1

DATA RECOMMENDATION SUMMARY

TRC Sample	Metals
FF-SS7-1219	J^1, J^3, J^4, J^5
FF-SS8-1219	J^1, J^3, J^4, J^5
FF-SS9-1219	J^1, J^3, J^4, J^5
FF-SS10-1219	J^1, J^3, J^4, J^5
FF-SS11-1219	J^1, J^3, J^4, J^5
FF-SS12-1219	J^1, J^3, J^4, J^5
FF-FB-1219	J^2, J^6

Notes:

- J^1 Estimate cadmium detection limits "UJ" due to low two-times CRDL recoveries.
- J^2 Estimate antimony detection limits "UJ" due to low two-times CRDL recoveries.
- J^3 Estimate antimony detection limits "UJ" due to low pre- and post-digestion matrix spike recoveries and a negative ICP interference.
- J^4 Estimate selenium and thallium detection limits "UJ" due to low post-digestion matrix spike recoveries. In addition, for selenium a low pre-digestion matrix spike recovery was obtained.
- J^5 Estimate positive arsenic results "J" due to a low pre-digestion matrix spike recovery.
- J^6 Estimate lead detection limit "UJ" due to a low post-digestion matrix spike.

SECTION 2

ANALYTICAL RESULTS (FORM I's)

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FF-SS7

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285301

Level (low/med): LOW Date Received: 12/21/91

% Solids: 74.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4160.00		E ✓	P	
7440-36-0	Antimony	6.15	U	N ✓	P	UJ
7440-38-2	Arsenic	3.50		N ✓	F	J
7440-39-3	Barium	17.00	B	✓	P	
7440-41-7	Beryllium	.27	U		P	
7440-43-9	Cadmium	.80	U		P	UJ
7440-70-2	Calcium	1090.00	B	✓	P	
7440-47-3	Chromium	8.70		✓	P	
7440-48-4	Cobalt	2.70	B	✓	P	
7440-50-8	Copper	8.40		✓	P	
7439-89-6	Iron	6760.00		✓ E	P	
7439-92-1	Lead	22.20	✓		F	
7439-95-4	Magnesium	783.00	B	✓	P	
7439-96-5	Manganese	143.00		E ✓	P	
7439-97-6	Mercury	.07	U		CV	
7440-02-0	Nickel	4.82	U	✓	P	
7440-09-7	Potassium	273.00	B	✓	P	
7782-49-2	Selenium	.54	U	NW	F	UJ
7440-22-4	Silver	1.07	U		P	
7440-23-5	Sodium	171.00	U	✓	P	
7440-28-0	Thallium	.54	U	W	F	UJ
7440-62-2	Vanadium	6.20	B	✓	P	U
7440-66-6	Zinc	36.10		✓	P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FF-SS8

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285302

Level (low/med): LOW Date Received: 12/21/91

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3430.00		E ✓	P	
7440-36-0	Antimony	5.82	U	N ✓	P	UJ
7440-38-2	Arsenic	2.20	B	N ✓	F	J
7440-39-3	Barium	19.40	B	✓	P	
7440-41-7	Beryllium	.25	U	✓	P	
7440-43-9	Cadmium	.76	U	✓	P	UJ
7440-70-2	Calcium	859.00	B	✓	P	
7440-47-3	Chromium	5.80		✓	P	
7440-48-4	Cobalt	2.40	B	✓	P	
7440-50-8	Copper	9.80		✓	P	
7439-89-6	Iron	6160.00		E ✓	P	
7439-92-1	Lead	27.50		✓	F	
7439-95-4	Magnesium	932.00	B	✓	P	
7439-96-5	Manganese	166.00		E ✓	P	
7439-97-6	Mercury	.08	B		CV	
7440-02-0	Nickel	4.56	U	✓	P	
7440-09-7	Potassium	433.00	B	✓	P	
7782-49-2	Selenium	.50	U	NW	F	UJ
7440-22-4	Silver	1.03	U	✓	P	
7440-23-5	Sodium	161.00	U	✓	P	
7440-28-0	Thallium	.50	U	W	F	UJ
7440-62-2	Vanadium	5.30	B	✓	P	U
7440-66-6	Zinc	38.10		✓	P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

U.S. EPA 0-00029

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FF-SS9

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285303

Level (low/med): LOW Date Received: 12/21/91

% Solids: 80.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6120.00		E	P	
7440-36-0	Antimony	5.46	U	N	P	UJ
7440-38-2	Arsenic	5.60		N	F	J
7440-39-3	Barium	22.70	B		P	
7440-41-7	Beryllium	.31	B		P	
7440-43-9	Cadmium	.71	U		P	UJ
7440-70-2	Calcium	1090.00	B		P	
7440-47-3	Chromium	10.30			P	
7440-48-4	Cobalt	4.20	B		P	
7440-50-8	Copper	9.70			P	
7439-89-6	Iron	9670.00		E	P	
7439-92-1	Lead	32.40			F	
7439-95-4	Magnesium	886.00	B		P	
7439-96-5	Manganese	189.00		E	P	
7439-97-6	Mercury	.07	B		CV	
7440-02-0	Nickel	8.60	B		P	
7440-09-7	Potassium	290.00	B		P	
7782-49-2	Selenium	.47	U	NW	F	UJ
7440-22-4	Silver	.94	U		P	
7440-23-5	Sodium	151.00	U		P	
7440-28-0	Thallium	.47	U	W	F	UJ
7440-62-2	Vanadium	9.10	B		P	U
7440-66-6	Zinc	34.90			P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS10

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285304

Level (low/med): LOW Date Received: 12/21/91

% Solids: 72.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6350.00		E	P	
7440-36-0	Antimony	6.19	U	N	P	UJ
7440-38-2	Arsenic	4.00		N	F	J
7440-39-3	Barium	28.40	B		P	
7440-41-7	Beryllium	.43	B		P	
7440-43-9	Cadmium	.81	U		P	UJ
7440-70-2	Calcium	1220.00	B		P	
7440-47-3	Chromium	10.00			P	
7440-48-4	Cobalt	4.00	B		P	
7440-50-8	Copper	13.40			P	
7439-89-6	Iron	9470.00		E	P	
7439-92-1	Lead	38.70			F	
7439-95-4	Magnesium	1010.00	B		P	
7439-96-5	Manganese	197.00		E	P	
7439-97-6	Mercury	.09	B		CV	
7440-02-0	Nickel	6.20	B		P	
7440-09-7	Potassium	411.00	B		P	
7782-49-2	Selenium	.54	U	NW	F	UJ
7440-22-4	Silver	1.05	U		P	
7440-23-5	Sodium	172.00	U		P	
7440-28-0	Thallium	.54	U	W	F	UJ
7440-62-2	Vanadium	9.80	B		P	U
7440-66-6	Zinc	46.50			P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS11

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285305

Level (low/med): LOW Date Received: 12/21/91

% Solids: 73.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6570.00		E	P	
7440-36-0	Antimony	6.02	U	N	P	UJ
7440-38-2	Arsenic	4.40		N	F	J
7440-39-3	Barium	21.90	B		P	
7440-41-7	Beryllium	.50	B		P	
7440-43-9	Cadmium	.79	U		P	UJ
7440-70-2	Calcium	1100.00	B		P	
7440-47-3	Chromium	8.50			P	
7440-48-4	Cobalt	4.50	B		P	
7440-50-8	Copper	11.40			P	
7439-89-6	Iron	10100.00		E	P	
7439-92-1	Lead	20.60			F	
7439-95-4	Magnesium	945.00	B		P	
7439-96-5	Manganese	201.00		E	P	
7439-97-6	Mercury	.07	U		CV	
7440-02-0	Nickel	5.10	B		P	
7440-09-7	Potassium	192.00	U		P	
7782-49-2	Selenium	.52	U	NW	F	UJ
7440-22-4	Silver	1.04	U		P	
7440-23-5	Sodium	167.00	U		P	
7440-28-0	Thallium	.52	U	W	F	UJ
7440-62-2	Vanadium	10.10	B		P	U
7440-66-6	Zinc	35.30			P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS12

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Lab Sample ID: 911285306

Level (low/med): LOW Date Received: 12/21/91

% Solids: 76.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2420.00		E	P	
7440-36-0	Antimony	5.69	U	N	P	UJ
7440-38-2	Arsenic	2.00	B	N	F	J
7440-39-3	Barium	14.00	B		P	
7440-41-7	Beryllium	.32	B		P	
7440-43-9	Cadmium	.74	U		P	UJ
7440-70-2	Calcium	628.00	B		P	
7440-47-3	Chromium	4.30			P	
7440-48-4	Cobalt	1.80	B		P	
7440-50-8	Copper	6.90			P	
7439-89-6	Iron	4470.00		E	P	
7439-92-1	Lead	26.00			F	
7439-95-4	Magnesium	717.00	B		P	
7439-96-5	Manganese	117.00		E	P	
7439-97-6	Mercury	.07	B		CV	
7440-02-0	Nickel	4.45	U		P	
7440-09-7	Potassium	373.00	B		P	
7782-49-2	Selenium	.50	U	NW	F	UJ
7440-22-4	Silver	.97	U		P	
7440-23-5	Sodium	158.00	U		P	
7440-28-0	Thallium	.50	U	W	F	UJ
7440-62-2	Vanadium	4.60	B		P	U
7440-66-6	Zinc	26.60			P	
	Cyanide				NR	

Color Before: BROWN Clarity Before: Texture: FINE

Color After: BROWN Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

FB1219

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): WATER Lab Sample ID: 911285307

Level (low/med): LOW Date Received: 12/21/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	150.00	U		P
7440-36-0	Antimony	23.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	38.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	88.00	U		P
7440-47-3	Chromium	6.00	U		P
7440-48-4	Cobalt	5.00	U		P
7440-50-8	Copper	6.00	U		P
7439-89-6	Iron	39.00	U		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	78.00	U		P
7439-96-5	Manganese	2.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	18.00	U		P
7440-09-7	Potassium	734.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	4.00	U		P
7440-23-5	Sodium	638.00	U		P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	5.50	B		P
7440-66-6	Zinc	4.00	U		P
	Cyanide				NR

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UJ

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SECTION 3

EPA REGION I INORGANIC DATA WORKSHEETS AND LABORATORY QA/QC SUMMARIES

REGION I
Data Review Worksheets

Site Name NETC Newport
Reference Number FF

REGION I REVIEW OF INORGANIC CONTRACT LABORATORY DATA PACKAGE

The hardcopied (laboratory name) Roy F. Weston data package received at Region I has been reviewed and the quality assurance and performance data summarized. The data review included:

Case No.	TRC	SAS No.		Sampling Date(s)	12/19/91
SDG. No.	CLP853	Matrix	Soil	Shipping Date(s)	12/20/91
No. of Samples	8			Date Rec'd by Lab	12/21/91

Traffic Report Nos.: FF-SS7-1219, FF-SS8-1219 FF-SS9-1219, FF-SS10-1219, FF-SS11-1219, FF-SS12-1219, FF-SS7-1219MS, DUP
Trip Blank No.: —
Equipment Blank No.: FF-FB-1219
Field Dup Nos.: —

SOW No. 3/90 requires that specific analytical work be done and that associated reports be provided by the laboratory to the Regions, EMSL-LV, and SMO. The general criteria used to determine the performance were based on an examination of:

- -Data Completeness
- -Holding Times
- -Calibrations
- -Blanks
- -ICP Interference Check Results
- -Matrix Spike Recoveries
- -Laboratory Duplicates
- -Field Duplicates
- -Lab Control Sample Results
- -Furnace AA Results
- -ICP Serial Dilution Results
- -Detection Limit Results
- -Sample Quantitation

Overall Comments: Data is acceptable for use with general qualification

Definitions and Qualifiers:

A	-	Acceptable data.
J	-	Approximate data due to quality control criteria.
R	-	Reject data due to quality control criteria.
U	-	Analyte not detected.

Reviewer: [signature] Rock J. Vitale Date: 3/18/92

ENVIRONMENTAL STANDARDS, INC.
(215)935-5577

REGION I
Data Review Worksheets

I. DATA COMPLETENESS

MISSING INFORMATION	DATE LAB CONTACTED	DATE REC'D
Complete as received		

REGION I
Data Review Worksheets

II. HOLDING TIMES

Complete table for all samples and circle the analysis date for samples not within criteria.

SAMPLE ID	DATE SAMPLED	HG DATE ANALYSIS	CYANIDE DATE ANALYSIS	OTHERS DATE ANALYSIS	pH	ACTION
FF-SS7	12/19/91	1/15/92	NA	1/20/92, 1/21/92, 2/1/92, 2/4/92	NA	NONE - ALL OK
FF-SS8						
FF-SS9						
FF-SS10						
FF-SS11						
FF-SS12						
FF-FB						
FF-SS1MS		1/14/92				
FF-SS1 Dup		1/5/92				

METALS - 180 DAYS FROM SAMPLE COLLECTION
MERCURY - 28 DAYS FROM SAMPLE COLLECTION
CYANIDE - 14 DAYS FROM SAMPLE COLLECTION

ACTION:

1. If holding times are exceeded, all positive results are estimated (J) and non-detects are estimated (UJ).

2. If holding times are grossly exceeded, the reviewer may determine that non-detects are unusable (R).

REGION I
Data Review Worksheets

all OK

III A. INSTRUMENT CALIBRATION (Section 1)

1. Recovery Criteria

List the analytes which did not meet the percent recovery (%R) criteria for Initial or Continuing Calibration.

DATE	ICV/CCV#	ANALYTE	%R	ACTION	SAMPLES AFFECTED

ACTIONS:

If any analyte does not meet the %R criteria follow the actions stated below:

For Positive Results:

	Accept	Estimate (J)		Reject (R)	
Metals	90-110%R	75-89%R,	111-125%R	<75%R,	>125%R
Mercury	80-120%R	65-79%R,	121-135%R	<65%R,	>135%R
Cyanide	85-115%R	70-84%R,	116-130%R	<70%R,	>130%R

For Non-detected Results:

	Accept	Estimate (UJ)	Reject (R)	
Metals	90-125%R	75-89%R	<75%R,	>125%R
Mercury	80-135%R	65-79%R	<65%R,	>135%R
Cyanide	85-130%R	70-84%R	<70%R,	>130%R

REGION I
Data Review Worksheets

III B. INSTRUMENT CALIBRATION (Section 2)

2. Analytical Sequence

A. Did the laboratory use the proper number of standards for calibration as described in the SOW? Yes or No

B. Were calibrations performed at the beginning of each analysis? Yes or No

C. Were calibration standards analyzed at the beginning of sample analysis and at a minimum frequency of ten percent or every two hours during analysis, whichever is more frequent? Yes or No

except Hg
-No initial CCV/CCB beg samples

D. Were the correlation coefficients for the calibration curves for AA, Hg, and CN $\geq$ 0.995? Yes or No

curve used -

NA

E. Was a standard at 2xCRDL analyzed for all ICP analyses? Yes or No

If No:

The data may be affected. Use professional judgement to determine the severity of the effect and qualify the data accordingly. Discuss any actions below and list the samples affected.

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

2/1/92 12:01

Concentration Units: ug/L

1:17

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	5000.0	4959.20	99.2	5000.0	4906.30	98.1	4841.50	96.8	P
Antimony	3000.0	2950.90	98.4	3000.0	2936.00	97.9	2888.80	96.3	P
Arsenic	40.0	38.30	95.8	40.0	37.90	94.7	37.20	93.0	F
Barium	5000.0	4923.60	98.5	5000.0	4892.50	97.9	4880.90	97.6	P
Beryllium	250.0	254.90	102.0	250.0	254.10	101.6	253.10	101.2	P
Cadmium	250.0	227.20	90.9	250.0	256.20	102.5	252.50	101.0	P
Calcium	25000.0	24772.30	99.1	25000.0	24977.80	99.9	24729.00	98.9	P
Chromium	500.0	502.80	100.6	500.0	508.40	101.7	518.50	103.7	P
Cobalt	2500.0	2517.30	100.7	2500.0	2500.40	100.0	2486.70	99.5	P
Copper	1250.0	1286.50	102.9	1250.0	1272.60	101.8	1259.70	100.8	P
Iron	5000.0	5019.70	100.4	5000.0	5031.20	100.6	5022.20	100.4	P
Lead	40.0	41.90	104.7	40.0	40.70	101.7	41.10	102.8	F
Magnesium	25000.0	24445.70	97.8	25000.0	24496.80	98.0	24333.70	97.3	P
Manganese	750.0	755.60	100.7	750.0	752.70	100.4	746.30	99.5	P
Mercury	5.0	4.82	96.5	5.0	4.84	96.9	4.80	96.1	CV
Nickel	2000.0	1990.40	99.5	2000.0	1988.80	99.4	2007.30	100.4	P
Potassium	25000.0	23898.80	95.6	25000.0	24190.00	96.8	24353.80	97.4	P
Selenium	40.0	41.40	103.5	40.0	41.90	104.7	41.70	104.2	F
Silver	500.0	496.10	99.2	500.0	490.70	98.1	481.10	96.2	P
Sodium	25000.0	24329.90	97.3	25000.0	24538.90	98.2	24733.80	98.9	P
Thallium	40.0	41.10	102.8	40.0	40.50	101.2	41.40	103.5	F
Vanadium	2500.0	2610.90	104.4	2500.0	2587.40	103.5	2550.90	102.0	P
Zinc	1000.0	1003.00	100.3	1000.0	1007.10	100.7	1010.70	101.1	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

03/90

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				5000.0	5008.70	100.2			P
Antimony				3000.0	2957.00	98.6			P
Arsenic	40.0	36.80	92.0	40.0	37.80	94.5	38.10	95.3	F
Barium				5000.0	4980.60	99.6			P
Beryllium				250.0	255.30	102.1			P
Cadmium				250.0	248.10	99.2			P
Calcium				25000.0	25463.60	101.9			P
Chromium				500.0	502.00	100.4			P
Cobalt				2500.0	2550.60	102.0			P
Copper				1250.0	1272.50	101.8			P
Iron				5000.0	5040.60	100.8			P
Lead				40.0	41.40	103.5	41.10	102.8	F
Magnesium				25000.0	24842.60	99.4			P
Manganese				750.0	762.90	101.7			P
Mercury				5.0	4.80	96.1	4.79	95.8	CV
Nickel				2000.0	1999.80	100.0			P
Potassium				25000.0	24848.60	99.4			P
Selenium	40.0	42.20	105.5	40.0	41.80	104.5	41.70	104.2	F
Silver				500.0	487.60	97.5			P
Sodium				25000.0	24705.50	98.8			P
Thallium	40.0	40.90	102.3	40.0	39.60	99.0	40.20	100.5	F
Vanadium				2500.0	2624.40	105.0			P
Zinc				1000.0	1022.50	102.3			P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

03/90

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

Group 2 9:15

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	5000.0	4904.20	98.1	5000.0	5086.10	101.7	5018.30	100.4	P
Antimony	3000.0	2983.00	99.4	3000.0	3069.20	102.3	3030.80	101.0	P
Arsenic	40.0	36.80	92.0	40.0	37.70	94.3	38.30	95.8	F
Barium	5000.0	4903.00	98.1	5000.0	5086.60	101.7	4988.00	99.8	P
Beryllium	250.0	245.60	98.2	250.0	257.70	103.1	257.00	102.8	P
Cadmium	250.0	239.90	96.0	250.0	251.00	100.4	244.70	97.9	P
Calcium	25000.0	24763.50	99.1	25000.0	25970.00	103.9	26257.20	105.0	P
Chromium	500.0	498.20	99.6	500.0	517.10	103.4	535.50	107.1	P
Cobalt	2500.0	2502.60	100.1	2500.0	2614.20	104.6	2595.70	103.8	P
Copper	1250.0	1256.00	100.5	1250.0	1305.30	104.4	1281.60	102.5	P
Iron	5000.0	4971.30	99.4	5000.0	5177.50	103.5	5183.70	103.7	P
Lead	40.0	40.70	101.7	40.0	37.60	94.0	38.60	96.5	F
Magnesium	25000.0	24262.20	97.0	25000.0	25163.00	100.7	25004.50	100.0	P
Manganese	750.0	750.70	100.1	750.0	781.40	104.2	782.20	104.3	P
Mercury				5.0	4.79	95.8	4.78	95.7	CV
Nickel	2000.0	1983.20	99.2	2000.0	2050.10	102.5	2061.60	103.1	P
Potassium	25000.0	24108.80	96.4	25000.0	24549.80	98.2	24696.80	98.8	P
Selenium				40.0	41.60	104.0	41.70	104.2	F
Silver	500.0	498.30	99.7	500.0	516.90	103.4	509.70	101.9	P
Sodium	25000.0	24176.20	96.7	25000.0	24917.10	99.7	24631.50	98.5	P
Thallium				40.0	39.90	99.7	40.60	101.5	F
Vanadium	2500.0	2577.50	103.1	2500.0	2693.80	107.8	2678.80	107.2	P
Zinc	1000.0	991.70	99.2	1000.0	1026.30	102.6	1035.00	103.5	P
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

03/90

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				40.0	38.80	97.0	39.10	97.8	F
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead				40.0	40.70	101.7	40.80	102.0	F
Magnesium									NR
Manganese									NR
Mercury				5.0	4.70	94.0			CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver	500.0	506.20	101.2	500.0	501.70	100.3	500.20	100.0	P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

03/90

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium				40.0	40.60	101.5	41.50	103.8	F
Manganese									NR
Mercury	5.0	4.89	97.8						NR
Nickel				5.0	4.98	99.6	5.13	102.6	CV
Potassium									NR
Selenium									NR
Silver									NR
Sodium				500.0	494.50	98.9	500.20	100.0	P
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Initial Calibration Source: IV

Continuing Calibration Source: IV

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel				5.0	5.11	102.2	5.15	103.0	CV
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

FORM II (PART 1) - IN

03/90

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

AA CRDL Standard Source: IV

ICP CRDL Standard Source: IV

12:24 2:10

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	125.60	104.7	120.40	100.3
Arsenic	10.0	8.10	81.0					
Barium								
Beryllium				10.0	9.80	98.0	9.70	97.0
Cadmium				10.0	6.20	62.0	7.10	71.0
Calcium								
Chromium				20.0	22.00	110.0	20.60	103.0
Cobalt				100.0	95.10	95.1	95.80	95.8
Copper				50.0	49.00	98.0	50.90	101.8
Iron								
Lead	3.0	2.90	96.7					
Magnesium								
Manganese				30.0	29.10	97.0	30.70	102.3
Mercury	.2	.28	140.0					
Nickel				80.0	71.10	88.9	69.90	87.4
Potassium								
Selenium	5.0	5.30	106.0					
Silver				20.0	20.50	102.5	20.40	102.0
Sodium								
Thallium	10.0	10.70	107.0					
Vanadium				100.0	97.50	97.5	87.10	87.1
Zinc				40.0	42.40	106.0	42.50	106.3

J positives

J +U5

only FD

FORM II (PART 2) - IN

03/90

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

AA CRDL Standard Source: IV

ICP CRDL Standard Source: IV

Group 2

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found	%R	CRDL Standard for ICP True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony				120.0	64.90	54.1	110.20	91.8
Arsenic	10.0	10.80	108.0			LJ		
Barium								
Beryllium				10.0	9.90	99.0	10.20	102.0
Cadmium				10.0	8.20	82.0	8.20	82.0
Calcium								
Chromium				20.0	19.90	99.5	22.40	112.0
Cobalt				100.0	100.90	100.9	100.60	100.6
Copper				50.0	50.80	101.6	50.80	101.6
Iron								
Lead	3.0	3.50	116.7					
Magnesium								
Manganese				30.0	30.70	102.3	30.30	101.0
Mercury	.2	.20	100.0					
Nickel				80.0	81.80	102.3	79.90	99.9
Potassium								
Selenium	5.0	5.20	104.0					
Silver				20.0	18.10	90.5	16.90	84.5
Sodium								
Thallium	10.0	10.00	100.0					
Vanadium				100.0	106.40	106.4	110.10	110.1
Zinc				40.0	39.90	99.7	39.00	97.5

FORM II (PART 2) - IN

03/90

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

AA CRDL Standard Source: IV

ICP CRDL Standard Source: IV

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Antimony								
Arsenic	10.0	9.80	98.0					
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver				20.0	18.50	92.5	20.00	100.0
Sodium								
Thallium								
Vanadium								
Zinc								

REGION I
Data Review Worksheet

IV A. BLANK ANALYSIS RESULTS (Sections 1-3)

List the blank contamination in Sections 1 & 2 below. A separate worksheet should be used for soil and water blanks.

1. Laboratory Blanks

MATRIX: Aq/Sol

DATE	ICB/CCB#	PREP BL	ANALYTE	CONC./UNITS
2/1	CCB#2		Vanadium	7.2 ug/L
2/1	ICB		Vanadium	5.8 ug/L.
2/1	CCB#1		Mg/V	81.4/11.1 ug/L.
2/1	CCB#2		Mg/V	93.7/13.4 ug/L.

2. Equipment/Trip Blanks

DATE	EQUIP BL#	ANALYTE	CONC./UNITS
2/1	FF-FB-1219	V	5.5 ug/L.

3. Frequency Requirements

A. Was a preparation blank analyzed for each matrix, for every 20 samples and for each digestion batch? Yes or No

B. Was a calibration blank run every 10 samples or every 2 hours, whichever is more frequent? Yes or No

If No:

The data may be affected. Use professional judgement to determine the severity of the effect and qualify the data accordingly. Discuss any actions below, and list the samples affected.

_____

_____

U.S. EPA - CLP

3
BLANKS

Lab name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	150.0	U	150.0	U	150.0	U	150.0	U	150.000	U	P
Antimony	23.0	U	23.0	U	23.0	U	23.0	U	23.000	U	P
Arsenic	2.0	U	2.0	U	2.0	U			2.000	U	F
Barium	38.0	U	38.0	U	38.0	U	38.0	U	38.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Calcium	88.0	U	88.0	U	88.0	U	88.0	U	88.000	U	P
Chromium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Copper	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Iron	39.0	U	39.0	U	39.0	U	39.0	U	39.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Magnesium	78.0	U	78.0	U	78.0	U	78.0	U	78.000	U	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	.1	U	.1	U	.1	U	.1	U	.100	U	CV
Nickel	18.0	U	18.0	U	18.0	U	18.0	U	18.000	U	P
Potassium	734.0	U	734.0	U	734.0	U	734.0	U	734.000	U	P
Selenium	2.0	U	2.0	U	2.0	U			2.000	U	F
Silver	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Sodium	638.0	U	638.0	U	638.0	U	638.0	U	638.000	U	P
Thallium	2.0	U	2.0	U	2.0	U			2.000	U	F
Vanadium	5.0	U	5.0	U	7.2	B	5.0	U	5.000	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	150.0	U	150.0	U	150.0	U			30.000	U	P
Antimony	23.0	U	23.0	U	23.0	U			4.600	U	P
Arsenic	2.0	U	2.0	U	2.0	U			.400	U	F
Barium	38.0	U	38.0	U	38.0	U			7.600	U	P
Beryllium	1.0	U	1.0	U	1.0	U			.200	U	P
Cadmium	3.0	U	3.0	U	3.0	U			.600	U	P
Calcium	88.0	U	88.0	U	88.0	U			17.600	U	P
Chromium	6.0	U	6.0	U	6.0	U			1.200	U	P
Cobalt	5.0	U	5.0	U	5.0	U			1.000	U	P
Copper	6.0	U	6.0	U	6.0	U			1.200	U	P
Iron	39.0	U	39.0	U	39.0	U			7.800	U	P
Lead			2.0	U					.400	U	F
Magnesium	78.0	U	81.4	B	93.7	B			15.600	U	P
Manganese	2.0	U	2.0	U	2.0	U			.400	U	P
Mercury			.1	U	.1	U	.1	U	.050	U	CV
Nickel	18.0	U	18.0	U	18.0	U			3.600	U	P
Potassium	734.0	U	734.0	U	734.0	U			146.800	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Silver	-4.5	B	4.0	U	4.0	U			.800	U	P
Sodium	638.0	U	638.0	U	638.0	U			127.600	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	.400	U	F
Vanadium	5.8	B	11.1	B	13.4	B			1.000	U	P
Zinc	4.0	U	4.0	U	4.0	U			.800	U	P
Cyanide											NR

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BLANKS

Lab name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	2.0	U	2.0	U	2.0	U	2.0	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.0	U	2.0	U	2.0	U	2.0	U			F
Magnesium											NR
Manganese											NR
Mercury			.1	U					.100	U	CV
Nickel											NR
Potassium											NR
Selenium			2.0	U							NR
Silver	4.0	U	4.0	U	4.0	U	4.0	U			P
Sodium											NR
Thallium			2.0	U							NR
Vanadium											NR
Zinc											NR
Cyanide											NR

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3
BLANKS

Lab name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			2.0	U							F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.0	U	2.0	U	2.0	U			F
Magnesium											NR
Manganese											NR
Mercury	.1	U	.1	U	.1	U	.1	U	.050	U	CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver			4.0	U					.800	U	P
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury			.1	U							CV
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

REGION I
Data Review Worksheets

IV B. BLANK ANALYSIS RESULTS (Section 4)

4. Blank Actions

The Action Levels for any analyte is equal to five times the highest concentration of that element's contamination in any blank. The action level for samples which have been concentrated or diluted should be multiplied by the concentration/dilution factor. No positive sample result should be reported unless the concentration of the analyte in the sample exceeds the Action Level (AL). Specific actions are as follows:

1. When the concentration is greater than the IDL, but less than the Action Level, report the sample concentration detected with a U.

2. When the sample concentration is greater than the Action Level, report the sample concentration unqualified.

MATRIX: Aq

ELEMENT	MAX CONC./ UNITS	AL/ UNITS
V	13.4 ug/L	13.4 ug/L
Mg	93.7	93.7 ug/L

MATRIX Soil

ELEMENT	MAX. CONC./ UNITS	AL/ UNITS
V		

NOTE: Blanks analyzed during a soil case must be converted to mg/kg in order to compare them with the sample results.

$$\text{Conc. in ug/L} \times \frac{\text{Volume diluted to (200ml)}}{\text{Weight digested (1 gram)}} \times \frac{1\text{L}}{1000\text{ml}} \times \frac{1000\text{gm}}{1\text{kg}} \times \frac{1\text{mg}}{1{,}000\text{ug}} = \text{mg/kg}$$

Multiplying this result by 5 to arrive at the action level gives a final result in mg/kg which can then be compared to sample results.

REGION I
Data Review Worksheets

V A. ICP INTERFERENCE CHECK SAMPLE (Section 1 & 2)

1. Recovery Criteria

List any elements in the ICS AB solution which did not meet the criteria for %R.

DATE	ELEMENT	%R	ACTION	SAMPLES AFFECTED

ACTIONS:

If an element does not meet the %R criteria, follow the actions stated below:

	PERCENT RECOVERY		
	<50	50-79%	>120%
Positive Sample Results	R	J	J
Non-detected Sample Results	R	UJ	A

2. Frequency Requirements

Were Interference QC samples run at the beginning and end of each sample analysis run or a minimum of twice per 8-hour working shift, whichever is more frequent? Yes or No

If No:

The data may be affected. Use professional judgement to determine the severity of the effect and qualify the data accordingly. Discuss any actions below and list the samples affected.

_____

_____

_____

REGION I
Data Review Worksheets

V. B. ICP INTERFERENCE CHECK SAMPLE (Section 3)

3. Report the concentration of any elements detected in the ICS A solution > 2xIDL that should not be present.

ELEMENT	CONC. DETECTED IN THE ICS	CONC. OF INTERFERENTS IN THE ICS AL	CA	FE	MG
Mn	61 ✓ ND	535200	517900	194800	5235
V	38 ND				
Sb	-83 ND				

Estimate the concentration produced by the interfering element in all affected samples. See guidelines for examples. List the samples affected by interferences below:

SAMPLE AFFECTED	ELEMENT AFFECTED	SAMPLE CONC. (ug/L)	SAMPLE INTERFERENT ESTIMATED CONC. AL	CA	FE	MG	INTERF. (ug/L)
			ND	ND	ND	ND	
		FB only					

ACTIONS:

1. In general, the sample data can be accepted without qualification if the sample concentrations of Al, Ca, Fe and Mg are less than 50% of their respective levels in the ICS solution.

2. Estimate (J) positive results for affected elements for samples with levels of interferents 50% or more of those in the ICS solution.

3. Reject (R) positive results if the reported concentration is due entirely to the interfering element.

4. Estimate (UJ) non-detected results for which false negatives are suspect.

Give explanations below for any actions taken:

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ICP INTERFERENCE CHECK SAMPLE

Group 2
2/19:21

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 ICS Source: IV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	496140	494080	535151	555360.9	112.4	537013	559180.4	113.2
Antimony		0	-83	-27.0		-62	8.2	
Arsenic								
Barium		556	3	479.0	86.2	2	481.7	86.6
Beryllium		503	0	457.8	91.0	-1	467.8	93.0
Cadmium		984	-2	957.2	97.3	-3	994.9	101.1
Calcium	506920	516300	517861	544736.8	105.5	532278	561457.4	108.7
Chromium		459	-11	445.2	97.0	-8	470.6	102.5
Cobalt		488	8	465.7	95.4	7	475.3	97.4
Copper		466	-2	484.7	104.0	-3	487.0	104.5
Iron	189780	193120	194805	202719.6	105.0	198250	207434.0	107.4
Lead								
Magnesium	518920	524480	523546	546739.3	104.2	528681	553523.8	105.5
Manganese		483	61	526.6	109.0	61	539.6	111.7
Mercury								
Nickel		942	-12	878.6	93.3	-11	894.7	95.0
Potassium		0	128	-480.0		-510	-400.0	
Selenium								
Silver		1012	8	1053.2	104.1	9	1074.0	106.1
Sodium		0	180	155.4		205	177.1	
Thallium								
Vanadium		539	38	512.8	95.1	43	525.2	97.4
Zinc		1006	0	940.7	93.5	0	964.7	95.9

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 ICS Source: IV

12/12:10

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	496140	494080	510542	475955.8	96.3	500517	534047.2	108.1
Antimony		0	-64	-13.0		-18	-3.2	
Arsenic								
Barium		556	2	455.9	82.0	2	460.3	82.8
Beryllium		503	0	433.1	86.1	0	417.4	83.0
Cadmium		984	-5	897.6	91.2	-3	905.7	92.0
Calcium	506920	516300	486459	455810.1	88.3	499398	511456.2	99.1
Chromium		459	-8	425.6	92.7	-8	418.9	91.3
Cobalt		488	5	437.3	89.6	4	438.7	89.9
Copper		466	-2	466.9	100.2	-1	463.0	99.4
Iron	189780	193120	188262	176331.8	91.3	190456	192755.1	99.8
Lead								
Magnesium	518920	524480	500907	468939.6	89.4	499693	522917.2	99.7
Manganese		483	31	468.6	97.0	12	425.4	88.1
Mercury								
Nickel		942	-15	836.7	88.8	-14	833.8	88.5
Potassium		0	-36	-440.0		-55	-260.0	
Selenium								
Silver		1012	43	1014.1	100.2	46	1008.4	99.6
Sodium		0	125	98.0		187	86.2	
Thallium								
Vanadium		539	48	498.8	92.5	66	523.9	97.2
Zinc		1006	1	890.8	88.5	-2	892.7	88.7

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ICP INTERFERENCE CHECK SAMPLE

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 ICS Source: IV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	496140	494080						
Antimony		0						
Arsenic								
Barium		556						
Beryllium		503						
Cadmium		984						
Calcium	506920	516300						
Chromium		459						
Cobalt		488						
Copper		466						
Iron	189780	193120						
Lead								
Magnesium	518920	524480						
Manganese		483						
Mercury								
Nickel		942						
Potassium		0						
Selenium								
Silver		1012	7	1036.7	102.4	5	1025.2	101.3
Sodium		0						
Thallium								
Vanadium		539						
Zinc		1006						

REGION I
Data Review Worksheets

V. B. ICP INTERFERENCE CHECK SAMPLE (Section 3)

3. Report the concentration of any elements detected in the ICS A solution > 2xIDL that should not be present.

ELEMENT	CONC. DETECTED IN THE ICS	CONC. OF INTERFERENTS IN THE ICS AL	CA	FE	MG
MANGANESE	31 1,686,170	510542	486459	188262	500
Silver	43 - NO TRUE				
V	48				
Sb	-64				

Estimate the concentration produced by the interfering element in all affected samples. See guidelines for examples. List the samples affected by interferences below:

SAMPLE AFFECTED	ELEMENTS AFFECTED	SAMPLE CONC. (ug/L)	SAMPLE INTERFERENT CONC. AL	CA	FE	MG	ESTIMATED INTERF. (ug/L)
FF-SS7	Mn Ag, V, Sb	528/WD/~~7.1~~/23.3/-15	15,570	4067	25,280	2926	<1 ~~15~~/-/
FF-SS8	Mn Ag V, Sb	657/WD/20.9/-1.1	13540	3393	24,350	3683	<1
FF-SS9	Mn Ag V, Sb	797/-/38.2/-7.8	25,800	4605	40,720	3732	
FF-SS10	Mn Ag V, Sb	733/-/36.3/-6	23,610	4537	35,190	3738	
FF-SS11	Mn, Ag V, Sb	769/-/38.4/-6.6	25,090	4218	38,650	3609	
FF-SS12	Mn, Ag, V, Sb	472/-/18.6/-1.8	9770	2540	18,080	2902	

ACTIONS:

1. In general, the sample data can be accepted without qualification if the sample concentrations of Al, Ca, Fe and Mg are less than 50% of their respective levels in the ICS solution.

2. Estimate (J) positive results for affected elements for samples with levels of interferents 50% or more of those in the ICS solution.

3. Reject (R) positive results if the reported concentration is due entirely to the interfering element.

4. Estimate (UJ) non-detected results for which false negatives are suspect.

Give explanations below for any actions taken:

Ag - seperate run - o/c
V - all 12ª due to Blnk.
Mn - interference is all <1
Sb - UJ strong neg interference.

REGION I
Data Review Worksheets

VI. MATRIX SPIKE

TR # TRC MATRIX: Sol

1. Recovery Criteria

List the percent recoveries for analytes which did not meet the required criteria.

S - amount of spike added
SSR - spikes sample result
SR - sample result

Analyte	SSR	SR	S	%R	Action
Sb	84.8	6.15 U	133.70	63.4	UJ + J
As	11.2	3.5	10.70	72.3	UJ + J
Se	1.9	0.53 U	2.7	70.3	UJ + J

Matrix Spike Actions apply to all samples of the same matrix.

ACTIONS:

1. If the sample concentration exceeds the spike concentration by a factor of 4 or more, no action is taken.

2. If any analyte does not meet the %R criteria, follow the actions stated below:

	PERCENT RECOVERY		
	<30%	30%-74%	>125%
Positive Sample Results	J	J	J
Non-detected Results	R	UJ	A

2. Frequency Criteria

A. Was a matrix spike prepared at the required frequency? Yes or No

B. Was a post-digestion spike analyzed for elements that did not meet required criteria for matrix spike recovery? Yes or No

A separate worksheet should be used for each matrix spike pair.

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5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FF-SS7S

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix: SOIL Level (low/med): LOW

% Solids for Sample: 74.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	84.8000		6.1525	U	133.70	63.4	N	P
Arsenic	75-125	11.2000		3.5000		10.70	72.3	N	F
Barium	75-125	486.0000		17.0000	B	535.00	87.7		P
Beryllium	75-125	11.5000		.2675	U	13.40	86.0		P
Cadmium	75-125	11.7000		.8025	U	13.40	87.8		P
Calcium									NR
Chromium	75-125	57.0000		8.7000		53.50	90.4		P
Cobalt	75-125	120.0000		2.7000	B	133.70	87.7		P
Copper	75-125	68.7000		8.4000		66.90	90.1		P
Iron									NR
Lead	75-125	23.8000		22.2000		5.30	30.0		F
agnesium									NR
Manganese	75-125	288.2000		143.1000		133.70	108.5		P
Mercury	75-125	.7210		.0669	U	.67	107.6		CV
Nickel	75-125	122.4000		4.5000	B	133.70	88.2		P
Potassium									NR
Selenium	75-125	1.9000		.5350	U	2.70	70.3	N	F
Silver	75-125	11.8000		1.0700	U	13.40	88.4		P
Sodium									NR
Thallium	75-125	10.2000		.5350	U	13.40	76.4		F
Vanadium	75-125	126.7000		6.2000	B	133.70	90.0		P
Zinc	75-125	158.7000		36.1000		133.70	91.6		P
Cyanide									NR

Comments:

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5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

FF-SS7A

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix: Level (low/med):

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		87.80		23.00	U	120.0	73.2		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
agnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

REGION I
Data Review Worksheets

VII. LABORATORY DUPLICATES

List the concentrations of any analyte not meeting the criteria for duplicate precision. For soil duplicates, calculate the CRDL in mg/kg using the samp weight, volume and percent solids data for the sample. Indicate what criterion was used to evaluate precision by circling either the RPD or CRDL for ea element.

MATRIX: Soil

Element	CRDL water ug/L	CRDL soil mg/kg	Sample # FE-SS7	Duplicate # SS7 Dup	RPD	Action all ok
Aluminum	200					
Antimony	60					
Arsenic	10					
Barium	200					
Beryllium	5					
Cadmium	5					
Calcium	5000					
Chromium	10					
Cobalt	50					
Copper	25					
Iron	100					
Lead	5					
Magnesium	5000					
Manganese	15					
Mercury	0.2					
Nickel	40					
Potassium	5000					
Selenium	5					
Silver	10					
Sodium	5000					
Thallium	10					
Vanadium	50					
Zinc	20					
Cyanide	10					

Laboratory Duplicate Actions should be applied to all other samples of the sample matrix type.

ACTIONS:

1. Estimate (J) positive results for elements which have an RPD >20% for waters and >35% for soils.

2. If sample results are less than 5x the CRDL, estimate (J) positive results for elements whose absolute difference is >CRDL (2xCRDL for soils). If both samples are non-detected, the RPD is not calculated (NC).

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6
DUPLICATES

EPA SAMPLE NO.

FF-SS7D

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (water/soil): SOIL Level (low/med): LOW

% Solids for Sample: 74.8 % Solids for Duplicate: 74.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	%RPD	Q	M
Aluminum		4164.3010		4544.6020		8.7		P
Antimony		6.1525	U	6.1525	U			P
Arsenic	2.7	3.5000		3.5000		0.0		F
Barium		17.0000	B	18.6000	B	9.0		P
Beryllium		.2675	U	.4300	B	200.0		P
Cadmium		.8025	U	.8025	U			P
Calcium		1087.8000	B	995.3999	B	8.9		P
Chromium	2.7	8.7000		6.8000		23.4		P
Cobalt		2.7000	B	3.1000	B	13.8		P
Copper	6.7	8.4000		9.3000		10.6		P
Iron		6763.6020		7037.1990		4.0		P
Lead		22.2000		21.7000		2.4		F
Magnesium		782.7000	B	831.7000	B	6.1		P
Manganese		143.1000		154.3000		7.5		P
Mercury		.0669	U	.0669	U			CV
Nickel		4.8150	U	4.8150	U			P
Potassium		272.7000	B	370.0000	B	30.3		P
Selenium		.5350	U	.5350	U			F
Silver		1.0700	U	1.0700	U			P
Sodium		170.6650	U	170.6650	U			P
Thallium		.5350	U	.5350	U			F
Vanadium		6.2000	B	6.5000	B	4.2		P
Zinc		36.1000		38.6000		6.7		P
Cyanide								NR

REGION I Data Review Worksheets **VIII. FIELD DUPLICATES**

List the concentrations of all analytes in the field duplicate pair. For soil duplicates, calculate the CRDL in mg/ ng the sample weight, volume and percent solids data for the sample. Indicate what criterion was used to evalu precision by circling either the RPD or CRDL for each element.

MATRIX Soil

Element	CRDL water ug/L	CRDL soil mg/kg	Sample # SS12	Duplicate # SS8	RPD	Action
Aluminum	200	40	2420	3430	34.5%	DL allow/in soil
Antimony	60	12	5.69U	5.82U	NC	
Arsenic	10	2	2.0	2.2	9.5	
Barium	200	40	14	19.4	32.3	
Beryllium	5	1.25	0.32	0.25U	NC	
Cadmium	5	1.25	0.74U	0.76U	NC	
Calcium	5000	1000	628	859	31.8%	
Chromium	10	2	4.3	5.8	29.7	
Cobalt	50	10	1.8	2.4	28.5	
Copper	25	5	6.9	9.8	34.7	
Iron	100	20	4470	6160	31.7	
Lead	5	1.25	26	27.5	5.6	
Magnesium	5000	1000	717	932	26.0	
Manganese	15	3	117	166	34.6	
Mercury	0.2	0.10	0.07	0.08	13.3	
Nickel	40	8	4.45U	4.56U	NC	
Potassium	5000	1000	373	433	14.9	
Selenium	5	1.25	0.5U	0.5U	NC	
Silver	10	2	0.97U	1.03U	NC	
Sodium	5000	1000	158U	161U	NC	
Thallium	10	2	0.5U	0.5U	NC	
Vanadium	50	10	4.6	5.3	14.1	
Zinc	20	4	26.6	38.1	35.5	
Cyanide	10	2	NA	NA		

aboratory Duplicate Actions should be applied to all other samples of the sample matrix type.

ACTIONS:

1. Estimate (J) positive results for elements which have an RPD >30% for waters and >50% for soils.
2. If sample results are less than 5x the CRDL, estimate (J) positive results for elements whose absolute difference is >2xCRDL (4XCRDL for soil If both samples are non-detected, the RPD is not calculated (NC).

IX. LABORATORY CONTROL SAMPLE

1. Aqueous LCS

List any LCS recoveries not within the 80-120% criteria and the samples affected.

DATE	ELEMENT		%R	ACTION	SAMPLES AFFECTED
		all OK			

2. Solid LCS

List any anlytes that were not within the control windows set by the EPA for the solid LCS sample. The 80-120% criterion is not used to evaluate solid LCS results.

ELEMENT	LCS CONC.	CONTROL WINDOWS	ACTION	SAMPLES AFFECTED

ACTIONS:

AQUEOUS LCS	PERCENT RECOVERY <50%	51-79%	>120%
Positive Results	R	J	J
Non-detected Results	R	UJ	A

SOLID LCS	<EPA Control Windows	>EPA Control Windows
Positive Results	J	J
Non-detected Results	UJ	A

3. Frequency Criteria

A. Was an LCS analyzed for every matrix, every digestion batch, and every 20 samples? Yes or No

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Solid LCS Source: IV

Aqueous LCS Source: IV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	5000.0	4931.30	98.6	1000.0	942.1		800.0	1200.0	94.2
Antimony	3000.0	2975.10	99.2	600.0	559.8		480.0	720.0	93.3
Arsenic	30.0	29.20	97.3	6.0	5.3		4.8	7.2	88.7
Barium	5000.0	4920.20	98.4	1000.0	954.1		800.0	1200.0	95.4
Beryllium	250.0	257.00	102.8	50.0	46.0		40.0	60.0	92.1
Cadmium	250.0	237.50	95.0	50.0	46.4		40.0	60.0	92.9
Calcium	25000.0	25459.00	101.8	5000.0	4732.5		4000.0	6000.0	94.7
Chromium	500.0	510.40	102.1	100.0	97.6		80.0	120.0	97.6
Cobalt	2500.0	2495.90	99.8	500.0	471.7		400.0	600.0	94.3
Copper	1250.0	1220.00	97.6	250.0	234.9		200.0	300.0	94.0
Iron	5000.0	4992.70	99.9	1000.0	953.8		800.0	1200.0	95.4
Lead	30.0	28.40	94.7	6.0	6.1		4.8	7.2	102.3
Magnesium	25000.0	24568.40	98.3	5000.0	4693.2		4000.0	6000.0	93.9
Manganese	750.0	753.60	100.5	150.0	142.6		120.0	180.0	95.1
Mercury	5.0	4.52	90.5	12.7	13.8		10.2	15.2	108.9
Nickel	2000.0	2015.30	100.8	400.0	383.8		320.0	480.0	95.9
Potassium	25000.0	24182.30	96.7	5000.0	4732.4		4000.0	6000.0	94.6
Selenium	30.0	29.70	99.0	6.0	5.7		4.8	7.2	94.7
Silver	500.0	497.90	99.6	100.0	104.3		80.0	120.0	104.3
Sodium	25000.0	24255.20	97.0	5000.0	4762.3		4000.0	6000.0	95.2
Thallium	30.0	30.50	101.7	6.0	5.8		4.8	7.2	96.3
Vanadium	2500.0	2506.00	100.2	500.0	475.2		400.0	600.0	95.0
Zinc	1000.0	1011.20	101.1	200.0	187.9		160.0	240.0	94.0
Cyanide									

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LABORATORY CONTROL SAMPLE

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Solid LCS Source: IV

Aqueous LCS Source: IV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	5000.0	5110.60	102.2	1000.0	961.1		800.0	1200.0	96.1
Antimony	3000.0	3101.90	103.4	600.0	571.9		480.0	720.0	95.3
Arsenic	30.0	29.40	98.0	6.0	5.2		4.8	7.2	87.3
Barium	5000.0	5102.20	102.0	1000.0	972.6		800.0	1200.0	97.3
Beryllium	250.0	264.90	106.0	50.0	46.5		40.0	60.0	93.0
Cadmium	250.0	259.30	103.7	50.0	48.1		40.0	60.0	96.2
Calcium	25000.0	26198.20	104.8	5000.0	4830.2		4000.0	6000.0	96.6
Chromium	500.0	525.70	105.1	100.0	100.7		80.0	120.0	100.7
Cobalt	2500.0	2574.10	103.0	500.0	484.3		400.0	600.0	96.9
Copper	1250.0	1258.20	100.7	250.0	240.5		200.0	300.0	96.2
Iron	5000.0	5146.50	102.9	1000.0	981.8		800.0	1200.0	98.2
Lead	30.0	29.10	97.0	6.0	5.9		4.8	7.2	98.0
Magnesium	25000.0	25371.80	101.5	5000.0	4780.3		4000.0	6000.0	95.6
Manganese	750.0	776.10	103.5	150.0	146.5		120.0	180.0	97.7
Mercury	5.0	4.53	90.6	12.7	13.4		10.2	15.2	105.5
Nickel	2000.0	2084.90	104.2	400.0	391.2		320.0	480.0	97.8
Potassium	25000.0	24880.60	99.5	5000.0	4805.2		4000.0	6000.0	96.1
Selenium	30.0	29.30	97.7	6.0	5.8		4.8	7.2	96.0
Silver	500.0	516.10	103.2	100.0	105.0		80.0	120.0	105.0
Sodium	25000.0	25265.30	101.1	5000.0	4866.1		4000.0	6000.0	97.3
Thallium	30.0	29.40	98.0	6.0	5.9		4.8	7.2	97.7
Vanadium	2500.0	2577.60	103.1	500.0	489.0		400.0	600.0	97.8
Zinc	1000.0	1035.50	103.5	200.0	192.7		160.0	240.0	96.4
Cyanide									

FORM VII - IN

03/90

REGION I
Data Review Worksheets

X A. FURNACE ATOMIC ABSORPTION ANALYSIS

1. Duplicate Precision

✓ Duplicate injections and one-point analytical spikes were performed for all samples: duplicate injections agreed within ± 20%.

____ Duplicate injections and/or spikes were not performed for the following samples/elements: _____

____ Duplicate injections did not agree within ± 20% for samples/elements: _____

2. Post-Digestion Spike Recoveries

____ Spike recoveries met the 85-115% recovery criteria for all samples.

✓ Spike recoveries did not meet the 85-115% criteria but did not require MSA for the following samples/elements:
Se - SS7, SS8, SS9, SS10, SS11, SS12,
Tl - SS7, SS8, SS9, SS10, SS11, SS12,

____ MSA was used to quantitate analytical results when contractually required.
____ Correlation coefficients ≥0.995, accept results.
____ Correlation coefficients <0.995 for sample numbers/elements: _____

____ Method of Standard Addition (MSA) was not performed as required for samples/elements: _____

ACTIONS:

1. Estimate (J) positive results if duplicate injections are outside ± 20% RSD or CV.

2. If the sample absorbance is <50% of post-digestion spike absorbance, the following actions should be applied:

	PERCENT RECOVERY		
	<10%	11%-84%	>115%
Positive Sample Results	J or R	J	J
Non-detected Results	R	UJ	A

3. Estimate (J) sample results if MSA was required and not performed.

4. Estimate (J) sample results if correlation coefficient was <0.995.

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Standard Addition Results

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q

FORM VIII - IN 03/90

REGION I
Data Review Worksheets

XI. INDUCTIVELY COUPLED PLASMA (ICP) SERIAL DILUTION ANALYSIS

_____ Serial Dilutions were performed for each matrix and results of the diluted sample analysis agreed within ten percent of the original undiluted analysis.

_____ Serial Dilutions were not performed for the following:

_____

✓ Serial Dilutions were performed, but analytical results did not agree within 10% for analyte concentrations greater than 50x the IDL before dilution.

Report below all results that do not meet the required laboratory criteria for ICP serial dilution analysis.

MATRIX: Sol

ELEMENT	IDL	50xIDL	SAMPLE RESULT	SERIAL DILUTION	%D	ACTION
Aluminum ✓	150	75,000	15,567	13566.5	12.9	~~J~~ — None
Barium ✓						
Beryllium						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron ✓	39	144	25284	22445	11.2	None
Lead						
Magnesium						
Manganese ✓	2	100	535.1	473	11.6	NONE
Nickel						
Potassium						
Silver						
Sodium						
Vanadium						
Zinc						

all w/in 15% D

Actions apply to all samples of the same matrix.

ACTIONS:

1. Estimate (J) positive results if %D > 15.

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

FF-SS7L

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	15567.50		13566.50		12.9	E	P
Antimony	23.00	U	115.00	U			P
Arsenic							NR
Barium	63.70	B	190.00	U	100.0		P
Beryllium	1.00	U	5.00	U			P
Cadmium	3.00	U	15.00	U			P
Calcium	4066.70	B	3621.50	B	10.9		P
Chromium	32.40		30.00	U	100.0		P
Cobalt	10.10	B	25.00	U	100.0		P
Copper	31.40		30.00	U	100.0		P
Iron	25284.60		22445.00		11.2	E	P
Lead							NR
Magnesium	2925.80	B	2724.00	B	6.9		P
Manganese	535.10		473.00		11.6	E	P
Mercury							NR
Nickel	18.00	U	90.00	U			P
Potassium	1019.30	B	3670.00	U	100.0		P
Selenium							NR
Silver	4.00	U	20.00	U			P
Sodium	638.00	U	3190.00	U			P
Thallium							NR
Vanadium	23.30	B	33.00	B	41.6		P
Zinc	135.10		135.50		.3		P

FORM IX - IN

03/90

XII. DETECTION LIMIT RESULTS

1. Instrument Detection Limit

✓ Instrument Detection Limit results were present and found to be less than the Contract Required Detection Limits.

_____ IDLs were not included in the data package on Form XI.

_____ IDLs were present, but the criteria were not met for the following elements:_____

2. Reporting Requirements

_____ Were sample results on Form I reported down to the IDL-- not the CRDL-- for all analytes? Yes or No

_____ Were sample results that were analyzed by ICP for Se, ~~Tl, As~~, or Pb at least 5x IDL? NA Yes or No

_____ Were sample weights, volumes, and dilutions taken into account when reporting detection limits on Form I? Yes or No

If No:

The reported results may be inaccurate. Make the necessary changes on the data summary tables and request that the laboratory resubmit the corrected data.

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 Date: 1/01/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	83.0	P
Antimony	206.80		60	15.0	P
Arsenic			10		
Barium	493.40		200	38.0	P
Beryllium	313.00		5	1.0	P
Cadmium	228.80		5	2.0	P
Calcium	317.90		5000	83.0	P
Chromium	267.70		10	6.0	P
Cobalt	228.60		50	5.0	P
Copper	324.70		25	6.0	P
Iron	259.90		100	11.0	P
Lead			3		
Magnesium	279.00		5000	51.0	P
Manganese	257.60		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	18.0	P
Potassium	766.40		5000	480.0	P
Selenium			5		
Silver	328.00		10	4.0	P
Sodium	588.90		5000	638.0	P
Thallium			10		
Vanadium	292.40		50	5.0	P
Zinc	213.80		20	6.0	P

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Roy F. Weston, Inc. Contract: 2724-03-01

Lab Code: WESTON Case No: TRC SAS No.: SDG No.: CLP 853

ICP ID Number: IC3 Date: 01/15/92

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200.0	83.0	P
Antimony	206.80		60.0	18.0	P
Arsenic					
Barium	493.40		200.0	16.0	P
Beryllium	313.00		5.0	1.0	P
Cadmium	228.80		5.0	2.0	P
Calcium	317.90		5000.0	63.0	P
Chromium	267.70		10.0	4.0	P
Cobalt	228.60		50.0	5.0	P
Copper	324.70		25.0	6.0	P
Iron	259.90		100.0	46.0	P
Lead					
Magnesium	279.00		5000.0	87.0	P
Manganese	257.60		15.0	2.0	P
Mercury					NR
Nickel	231.60		40.0	8.0	P
Potassium	766.40		5000.0	862.0	P
Selenium					
Silver	328.00		10.0	3.0	P
Sodium	588.90		5000.0	110.0	P
Thallium					
Vanadium	292.40		50.0	7.0	P
Zinc	213.80		20.0	6.0	P

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: Date: 10/01/91

Flame AA ID Number:

Furnace AA ID Number: AA1

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic			10		
Barium			200		
Beryllium			5		
Cadmium			5		
Calcium			5000		
Chromium			10		
Cobalt			50		
Copper			25		
Iron			100		
Lead			3		
Magnesium			5000		
Manganese			15		
Mercury			0.2		NR
Nickel			40		
Potassium			5000		
Selenium	196.00	BZ	5	2.0	F
Silver			10		
Sodium			5000		
Thallium			10		
Vanadium			50		
Zinc			20		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: Date: 10/01/91

Flame AA ID Number:

Furnace AA ID Number: AA2

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic			10		
Barium			200		
Beryllium			5		
Cadmium			5		
Calcium			5000		
Chromium			10		
Cobalt			50		
Copper			25		
Iron			100		
Lead			3		
Magnesium			5000		
Manganese			15		
Mercury			0.2		NR
Nickel			40		
Potassium			5000		
Selenium			5		
Silver			10		
Sodium			5000		
Thallium	276.80	BZ	10	2.0	F
Vanadium			50		
Zinc			20		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: Date: 10/01/91

Flame AA ID Number:

Furnace AA ID Number: AA3

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic			10		
Barium			200		
Beryllium			5		
Cadmium			5		
Calcium			5000		
Chromium			10		
Cobalt			50		
Copper			25		
Iron			100		
Lead	283.30	BZ	3	2.0	F
Magnesium			5000		
Manganese			15		
Mercury			0.2		NR
Nickel			40		
Potassium			5000		
Selenium			5		
Silver			10		
Sodium			5000		
Thallium			10		
Vanadium			50		
Zinc			20		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: Date: 10/01/91

Flame AA ID Number:

Furnace AA ID Number: AA6

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		
Antimony			60		
Arsenic	193.70	BZ	10	2.0	F
Barium			200		
Beryllium			5		
Cadmium			5		
Calcium			5000		
Chromium			10		
Cobalt			50		
Copper			25		
Iron			100		
Lead			3		
Magnesium			5000		
Manganese			15		
Mercury			0.2		NR
Nickel			40		
Potassium			5000		
Selenium			5		
Silver			10		
Sodium			5000		
Thallium			10		
Vanadium			50		
Zinc			20		

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Roy F. Weston, Inc. Contract: 2724-03-01

Lab Code: WESTON Case No: TRC SAS No.: SDG No.: CLP 853

ICP ID Number: Date: 01/01/92

Flame AA ID Number:

Furnace AA ID Number:
HG 1

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Mercury	2537		0.2	0.04	CV
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Vanadium					
Zinc					

Comments:

FORM X - IN

U.S. EPA - CLP

11A
ICP Interelement Correction Factors (Annually)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 Date: 1/15/92

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	AS
Aluminum	308.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.80	0.0000000	0.0000000	.0002000	0.0000000	0.0000000
Arsenic						
Barium	493.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	0.0000000	0.0000000	-.0005000
Calcium	317.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.70	0.0000000	0.0000000	.0000800	0.0000000	0.0000000
Cobalt	228.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	-.0001000	0.0000000	0.0000000
Iron	259.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead						
Magnesium	279.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.60	0.0000000	0.0000000	-.0007000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver	328.00	0.0000000	0.0000000	-.0002600	0.0000000	0.0000000
Sodium	588.90	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium						
Vanadium	292.40	0.0000000	0.0000000	.0008000	0.0000000	0.0000000
Zinc	213.80	0.0000000	0.0000000	.0002000	0.0000000	0.0000000

Comments:

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ICP Linear Ranges (Quarterly)

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

ICP ID Number: IC1 Date: 1/15/92

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	3.30	1000000.0	
Antimony	3.30	120000.0	
Arsenic			NR
Barium	3.30	200000.0	
Beryllium	3.30	50000.0	
Cadmium	3.30	25000.0	
Calcium	3.30	800000.0	
Chromium	3.30	50000.0	
Cobalt	3.30	250000.0	
Copper	3.30	125000.0	
Iron	3.30	500000.0	
Lead			NR
Magnesium	3.30	1000000.0	
Manganese	3.30	100000.0	
Mercury			NR
Nickel	3.30	100000.0	
Potassium	3.30	1000000.0	
Selenium			NR
Silver	3.30	20000.0	
Sodium	3.30	1000000.0	
Thallium			NR
Vanadium	3.30	50000.0	
Zinc	3.30	75000.0	

Comments:

REGION I
Data Review Worksheets

XIII. SAMPLE QUANTITATION

✓ Sample results fall within the linear range for ICP and the calibrated range for all other parameters.

_____ Sample results were beyond the linear range/calibration range of the instrument for the following samples/elements:

_____

In the space below, please show a minimum of one sample calculation per method:

FF-557-1219 Al

ICP $15{,}570 \times \frac{200ml}{1.0gm} \times \frac{1L}{1000ml} \times \frac{1000gm}{1kg} \times \frac{1}{0.748} \times \frac{1mg}{1000ug} = 4163 mg/kg$ reported 4160 OK

FF-557-1219 As

FURNACE $13.1 ug/L \times \frac{200ml}{1.0gm} \times \frac{1L}{1000ml} \times \frac{1000gm}{1kg} \times \frac{1mg}{1000ug} \times \frac{1}{0.748} = 3.5 mg/kg$ reported 3.5 mg/kg OK

Hg in FF-558-1219

MERCURY $0.0001178 ug/L \times \frac{50ml}{0.1gm} \times \frac{1L}{1000ml} \times \frac{1000gm}{1kg} \times \frac{1mg}{1000ug} \times \frac{1}{0.767} = 0.076 mg/kg$ reported 0.08 mg/kg

CYANIDE

NA

For soil samples, the following equation may be necessary to convert raw data values (usually reported in ug/L) to actual sample concentrations (mg/kg):

The lab is required to use 1 gram sample (wet weight) to 200 ml.

Wet weight concentration =

$$\text{digest conc. in } \frac{ug}{L} \times \frac{200ml}{1\ gm} \times \frac{1L}{1000\ ml} \times \frac{1000gm}{1kg} \times \frac{1mg}{1000ug} = \frac{mg}{kg}$$

In addition, the sample results are converted to dry weight using the percent solids calculations:

$$\frac{\text{Wet weight conc.}}{\%\ \text{solids}} \times 100 = \text{final concentration, dry weight (mg/kg)}$$

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA6 Method: F

Start Date: 1/21/92 End Date: 1/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	721		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S10	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S15	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S30	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S60	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CRA	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBW168	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBW168A	1.00		103.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW168	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SW168A	1.00		105.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW268	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW268A	1.00		102.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FB1219	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FB1219A	1.00		103.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV2	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB2	1.00	847		–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA6 Method: F

Start Date: 1/21/92 End Date: 1/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1047		–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S10	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S15	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S30	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S60	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CRA	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW168	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW168A	1.00		97.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSW268	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SW268A	1.00		96.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV2	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB2	1.00	1155		–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA6 Method: F

Start Date: 1/21/92 End Date: 1/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1739		–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S10	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S15	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S30	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S60	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ICB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CRA	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB1	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBS172	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBS172A	1.00		94.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSS172	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSS172A	1.00		92.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSS272	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
LCSS272A	1.00		95.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS7	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS7A	1.00		88.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS7D	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS7DA	1.00		88.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV2	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB2	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS7S	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00			–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS8	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS8A	1.00		91.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS9	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FF-SS9A	1.00		91.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS10	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS10A	1.00		89.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS11	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS11A	1.00		90.5	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA6 Method: F

Start Date: 1/21/92 End Date: 1/21/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB3	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS12	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SS12A	1.00		90.0	–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV4	1.00			–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCB4	1.00	2027		–	–	X	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: HG1 Method: CV

Start Date: 1/14/92 End Date: 1/14/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1155		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S0.5	1.00	1157		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S1	1.00	1200		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S2	1.00	1202		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S5	1.00	1204		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S10	1.00	1207		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICV1	1.00	1210		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICB1	1.00	1212		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CRA	1.00	1214		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
PBW118	1.00	1217		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
PBW218	1.00	1218		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSW118	1.00	1220		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSW218	1.00	1223		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZ	1.00	1225		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1227		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1229		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1231		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1233		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV1	1.00	1235		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB1	1.00	1238		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1240		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1242		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1243		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1246		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1247		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1249		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1252		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1253		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1255		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1257		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV2	1.00	1259		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB2	1.00	1302		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: HG1 Method: CV

Start Date: 1/14/92 End Date: 1/14/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1304		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
FB1219	1.00	1305		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1307		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1309		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1311		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	100.00	1313		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1315		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1317		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1319		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1321		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV3	1.00	1323		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB3	1.00	1325		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1327		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1329		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1331		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	100.00	1333		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1335		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1337		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	100.00	1339		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1341		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1343		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1345		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV4	1.00	1347		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB4	1.00	1349		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1351		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1353		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1355		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1357		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1359		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV5	1.00	1402		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB5	1.00	1404		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	10.00	1415		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: HG1 Method: CV

Start Date: 1/14/92 End Date: 1/14/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV6	1.00	1417		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB6	1.00	1420		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1429		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00	1432		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	10.00	1434		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV7	1.00	1436		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
CCB7	1.00	1438		-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: HG1 Method: CV

Start Date: 1/15/92 End Date: 1/15/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1558		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S0.5	1.00	1600		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S1	1.00	1602		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S2	1.00	1604		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S5	1.00	1607		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
S10	1.00	1610		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICV1	1.00	1612		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ICB1	1.00	1615		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CRA	1.00	1617		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
PBS120	1.00	1619		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
PBS220	1.00	1621		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSS120	5.00	1623		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
LCSS220	5.00	1625		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
F-SS7	1.00	1628		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
FF-SS7D	1.00	1630		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
FF-SS7S	1.00	1632		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
FF-SS8	1.00	1634		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
FF-SS9	1.00	1636		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCV1	1.00	1638		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB1	1.00	1641		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
SS10	1.00	1643		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
SS11	1.00	1645		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
SS12	1.00	1647		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1649		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1651		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1653		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1655		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1658		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1701		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1703		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV2	1.00	1705		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB2	1.00	1708		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: HG1 Method: CV

Start Date: 1/15/92 End Date: 1/15/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1710		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1712		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1714		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1716		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1718		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1720		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1722		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1724		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1727		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1729		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV3	1.00	1731		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB3	1.00	1734		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1736		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1738		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1740		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1742		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1744		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1746		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1748		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
CCV4	1.00	1751		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
CCB4	1.00	1753		–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

FORM XIV - IN 03/90

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA3 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1514		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S15	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S30	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S60	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW168	1.00			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
PBW168A	1.00		82.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCSW168	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SW168A	1.00		68.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSW268	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSW268A	1.00		66.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FB1219	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FB1219A	1.00		84.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV2	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB2	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW168	1.00			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
PBW168A	1.00		83.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PBW168	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBW168A	1.00		87.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV4	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB4	1.00	1723		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA3 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2114		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S15	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S30	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
S60	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICV1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ICB1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CRA	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB1	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBS172	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
PBS172A	1.00		91.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS172	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS172A	1.00		75.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS272	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
LCSS272A	1.00		79.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7A	1.00		60.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7D	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7DA	1.00		60.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV2	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB2	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7S	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS8	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS8A	1.00		54.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS9	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS9A	1.00		54.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB3	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA3 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCV4	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB4	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7A	10.00		97.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7D	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7DA	10.00		103.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS7S	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
ZZZZZZ	10.00			-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
FF-SS8	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS8A	10.00		102.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS9	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
FF-SS9A	10.00		98.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CV5	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB5	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS10	20.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS10A	20.00		100.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS11	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS11A	10.00		101.0	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS12	10.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
SS12A	10.00		103.5	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCV6	1.00			-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
CCB6	1.00	115		-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA1 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1924		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S5	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
S10	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
S30	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
S60	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
ICV1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
ICB1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CRA	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCV1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
PBW168	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
PBW168A	1.00		90.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
LCSW168	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
LCSW168A	1.00		97.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
LCSW268	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
LCSW268A	1.00		100.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
FB1219	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
FB1219A	1.00		96.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCV2	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB2	1.00	2059		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

FORM XIV - IN 03/90

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA1 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2130		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S5	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S10	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S30	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
S60	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICV1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ICB1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CRA	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS172	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
PBS172A	1.00		91.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS172	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS172A	1.00		95.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS272	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
LCSS272A	1.00		90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS7	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS7A	1.00		75.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS7D	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS7DA	1.00		75.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCV2	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
CCB2	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS7S	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
ZZZZZZ	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
FF-SS8	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS8A	1.00		79.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS9	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
FF-SS9A	1.00		72.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SS10	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SS10A	1.00		71.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SS11	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-
SS11A	1.00		65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA1 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB3	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
SS12	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
SS12A	1.00		74.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCV4	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
CCB4	1.00	33		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	0.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA2 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1901		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S10	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S15	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S30	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S60	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICV1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICB1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CRA	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB1	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBW168	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBW168A	1.00		95.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSW168	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
SW168A	1.00		90.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSW268	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
LCSW268A	1.00		95.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
FB1219	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
FB1219A	1.00		94.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV2	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB2	1.00	2032		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA2 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2046		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
S10	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
S15	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
S30	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
S60	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
ICV1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
ICB1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
CRA	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
CCV1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
CCB1	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
PBS172	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
PBS172A	1.00		94.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
LCSS172	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
LCSS172A	1.00		92.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
LCSS272	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
LCSS272A	1.00		91.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS7	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS7A	1.00		74.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS7D	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS7DA	1.00		74.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
CCV2	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
CCB2	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS7S	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
ZZZZZZ	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS8	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS8A	1.00		80.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS9	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
FF-SS9A	1.00		67.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
SS10	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
SS10A	1.00		70.0	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
SS11	1.00			–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–
SS11A	1.00		68.5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: AA2 Method: F

Start Date: 1/20/92 End Date: 1/20/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV3	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CCB3	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
SS12	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
SS12A	1.00		70.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV4	1.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB4	1.00	2344		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: IC1 Method: P

Start Date: 2/01/92 End Date: 2/01/92

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1151		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
S1	1.00	1155			X	-		X	X		X	X	X	X	-		X	-	X		-	-		-	X	X	-
S2	1.00	1157		X		-	X			X					-	X		-		X	-	-	X	-	X	X	-
ICV1	1.00	1158		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
ICB1	1.00	1204		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
ICSA	1.00	1207		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
ICSAB	1.00	1211		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CRI	1.00	1222			X	-		X	X		X	X	X		-		X	-	X		-	-		-	X	X	-
CCV1	1.00	1226		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CCB1	1.00	1229		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
PBS173	1.00	1232		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
LCSS173	1.00	1235		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
LCSS273	1.00	1239		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
-SS7	1.00	1242		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
FF-SS7L	5.00	1248		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
FF-SS7D	1.00	1251		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
FF-SS7S	1.00	1254		-	X	-	X	X	X	-	X	X	X	-	-	-	X	-	X		-	-		-	X	X	-
FF-SS7A	1.00	1304			X																						
FF-SS8	1.00	1307		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
FF-SS9	1.00	1310		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CCV2	1.00	1315		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CCB2	1.00	1318		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
SS10	1.00	1321		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
SS11	1.00	1325		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
SS12	1.00	1328		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
ICSA	1.00	1331		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
ICSAB	1.00	1404		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CRI	1.00	1408			X	-		X	X		X	X	X		-		X	-	X		-	-		-	X	X	-
CCV3	1.00	1411		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
CCB3	1.00	1414		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	-	X	-	X	X	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: IC1 Method: P

Start Date: 2/01/92 End Date: 2/01/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	2054		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
S1	1.00	2100			X	-		X	X		X	X	X	X	-		X	-	X		-	X		-	X	X	-
S2	1.00	2101		X		-	X			X					-	X		-		X	-		X	-			-
ZZZZZZ	1.00	2108			-	-		-	-		-	-	-	-	-		-	-	-		-	-		-	-	-	-
ICV1	1.00	2113		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICB1	1.00	2115		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSA	1.00	2118		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSAB	1.00	2121		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CRI	1.00	2124			X	-		X	X		X	X	X		-		X	-	X		-	X		-	X	X	-
CCV1	1.00	2127		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB1	1.00	2131		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
PBW169	1.00	2134		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CSW169	1.00	2136		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CSW269	1.00	2139		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
FB1219	1.00	2143		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSA	1.00	2146		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
ICSAB	1.00	2149		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CRI	1.00	2153			X	-		X	X		X	X	X		-		X	-	X		-	X		-	X	X	-
CCV2	1.00	2156		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
CCB2	1.00	2159		X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	X	X	-	X	X	-	X	X	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: IC1 Method: P

Start Date: 2/04/92 End Date: 2/04/92

EPA Sample No.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1740		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
S1	1.00	1743		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ICV1	1.00	1728		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ICB1	1.00	1731		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ICSA	1.00	1733		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ICSAB	1.00	1735		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CRI	1.00	1738		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CCV1	1.00	1739		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CCB1	1.00	1741		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ZZZZZZ	1.00	1743		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
ZZZZZZ	1.00	1745		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1747		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1748		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZ	5.00	1750		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1751		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
ZZZZZZ	1.00	1753		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PBS188	1.00	1801		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
LCSS188	1.00	1803		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
LCSS288	1.00	1805		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CCV2	1.00	1806		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CCB2	1.00	1810		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS7	1.00	1813		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS7L	5.00	1814		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS7D	1.00	1816		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS7S	1.00	1820		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS8	1.00	1823		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
FF-SS9	1.00	1826		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
SS10	1.00	1829		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
SS11	1.00	1833		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
SS12	1.00	1835		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
CCV3	1.00	1838		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	X	–	–	–	–	–
				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
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U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No.: SDG No.: CLP853

Instrument ID Number: IC1 Method: P

Start Date: 2/04/92 End Date: 2/04/92

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB3	1.00	1840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ICSA	1.00	1842		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
ICSAB	1.00	1845		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CRI	1.00	1847		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCV4	1.00	1848		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
CCB4	1.00	1850		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.00			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FF-SS7	1/14/92	.10	50
FF-SS7D	1/14/92	.10	50
FF-SS7S	1/14/92	.10	50
FF-SS8	1/14/92	.10	50
FF-SS9	1/14/92	.10	50
SS10	1/14/92	.10	50
SS11	1/14/92	.10	50
SS12	1/14/92	.10	50
LCSS120	1/14/92	.10	50
LCSS220	1/14/92	.10	50
PBS120	1/14/92	.10	50
PBS220	1/14/92	.10	50

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FF-SS7	2/04/92	1.00	200
FF-SS7D	2/04/92	1.00	200
FF-SS7S	2/04/92	1.00	200
FF-SS8	2/04/92	1.01	200
FF-SS9	2/04/92	1.06	200
SS10	2/04/92	1.05	200
SS11	2/04/92	1.06	200
SS12	2/04/92	1.07	200
LCSS188	2/04/92	1.00	200
LCSS288	2/04/92	1.00	200
PBS188	2/04/92	1.00	200

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS173	1/15/92	1.00	200
LCSS273	1/15/92	1.00	200
PBS173	1/15/92	1.00	200
FF-SS7	1/15/92	1.00	200
FF-SS7D	1/15/92	1.00	200
FF-SSFS	1/15/92	1.00	200
FF-SS8	1/15/92	1.03	200
FF-SS9	1/15/92	1.05	200
SS10	1/15/92	1.03	200
SS11	1/15/92	1.05	200
SS12	1/15/92	1.05	200

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB1219	1/15/92		100
LCSW168	1/15/92		100
LCSW268	1/15/92		100
PBW168	1/15/92		100

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB1219	1/15/92		100
LCSW169	1/15/92		100
LCSW269	1/15/92		100
PBW169	1/15/92		100

U.S. EPA - CLP

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PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: F

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FF-SS7	1/15/92	1.00	200
FF-SS7D	1/15/92	1.00	200
FF-SS7S	1/15/92	1.00	200
FF-SS8	1/15/92	1.04	200
FF-SS9	1/15/92	1.06	200
SS10	1/15/92	1.03	200
SS11	1/15/92	1.05	200
SS12	1/15/92	1.03	200
LCSS172	1/15/92	1.00	200
LCSS272	1/15/92	1.00	200
PBS172	1/15/92	1.00	200

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: ROY F. WESTON, INC - L372 Contract: 2724-03-01

Lab Code: WESTON Case No.: TRC SAS No: SDG No.: CLP853

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
FB1219	1/13/92		33
LCSW118	1/13/92		33
LCSW218	1/13/92		33
PBW118	1/13/92		33
PBW218	1/13/92		33

SECTION 4

CASE NARRATIVES AND PROJECT CHAIN-OF-CUSTODIES

Roy F. Weston, INC.
Lionville Laboratory

CLIENT: TRC - ENVIRONMENTAL CONSULTANTS SAMPLES RECEIVED: 12/21/91
RFW #: 9112L853
W.O. #: 2724-03-01

METALS NARRATIVE

The set of samples consisted of six (6) soil samples collected on 12/19/91.

The samples were analyzed according to criteria set forth in CLP SOW 3/90.

The following is a summary of the QC results accompanying these sample results and a description of any problems encountered during their analysis:

1. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory.

2. All ICV and CCV values were within control limits.

3. All ICB and CCB values were within control limits.

4. All preparation blank values were within control limits.

5. All LCS results were within the 80-120% control limits.

6. All matrix spike recoveries were within the 75-125% control limits with the exception of Sb, As and Se. All corresponding samples were flagged with an "N" according to CLP protocol.

7. All duplicate analyses were within the 20% RPD control limit.

8. The code CV is currently in use by the laboratory for both mercury instruments in operation (HG1 and HG2). HG1 is complete with autosampler and software, but still requires manual digestion; HG2 is operated by the analyst, produces a strip chart and also requires manual digestion.

WESTON

9. HG1 requires less total volume of digestate due to the autosampler analysis. Sample volumes and reagents for mercury determinations in water and soil have been proportionally scaled down to adapt to this semi-automated technique. The sample volume used for water analysis is 33 ml. For soils, 0.1 gram of sample is taken to a final volume of 50 ml (including all reagents).

10. Quarterly Detection Limits for IC3 are included in this package.

11. In order to accommodate the EPA naming convention, the following client ID's were changed:

Original Client ID	Modified Client ID
FF-SS7-1219	FF-SS7
FF-SS8-1219	FF-SS8
FF-SS9-1219	FF-SS9
FF-SS10-1219	SS10
FF-SS11-1219	SS11
FF-SS12-1219	SS12
FF-FB-1219	FB1219

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratories

2.6.92
Date

mlj\ clp-met.nar

Naval Education Training Ctr - Newport RI

WESTON Analytics Use Only: 91121853

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client: TRC Environmental Consultants
Est. Final Proj. Sampling Date:
Work Order #: 15234-03-01-000
Project Contact/Phone: 203-289-8631
AD Project Manager: Jim Rovento/Allison
QC: CLP Del: CLP TAT: 7/19/92 30 day
Date Rec'd: 12-21-91 Date Due: 1-20-92
Account #: TRC/NAVY

Refrigerator #

#/Type Container	Liquid								3			6				
	Solid															
Volume	Liquid								1L			1L				
	Solid															
Preservatives									NO			NO				
									Amb			Amb				

ANALYSES REQUESTED →

ORGANIC							INORG						
VOA	BNA	Pest/PCB	Herb				Metal	CN		Dioxin/Furans			

MATRIX CODES: B - Bolt; SE - Sediment; SO - Solid; SL - Sludge; W - Water; O - Oil; A - Air; DS - Drum/Solids; DL - Drum/Liquids; L - EP/TCLP Leachate; WI - Wipe; X - Other; F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only													
001	FF-SS7-1219			S	12-17-91								MASLM			ODB				
002	FF-SS8-1219			S	"								✓			✓				
003	FF-SS9-1219			S	"								✓			✓				
004	FF-SS10-1219			S	"								✓			✓				
005	FF-SS11-1219			S	"								✓			✓				
006	FF-SS12-1219			S	"								✓			✓				
007	FF-FB-1219			W	"								✓			✓				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

NOTE! SS7 NEEDS QUICKER ANALYSES TIME IF POSSIBLE

*ARCHIVE ONLY FOR DIOXIN/FURANS

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were: 1) Shipped ✓ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was: 1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec'd Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Jim Rovento/TRC	FED EX	12/20/91	1300 ~~1600~~				
FED EX	Sherlo	12/21/91	930		SP	12/21/91	

RFW 21-21-001/A-7/91

___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Co ler# ___

381-596a

00002

00000031

9112L853

Item/Reason	Relinquished by	Received by	Date	Time
metals-Hg (007)	SRESNO	J. Jeffrey Welch	1/13/92	1130
metals-Hg (1-6)	SRESNO	J. Jeffrey Welch	1/14/92	1400
Metals	ANOT	SRESNO	1/17	11.15