START 3507.0722

9401L391-WES-1473

0045878

ROY F. WESTON, INC.
LIONVILLE ANALYTICAL LABORATORY
ANALYTICAL CASE NARRATIVE

Client : WESTINGHOUSE HANFORD
RFW# : 9401L365

W.O. #: 06168-002-001-9999-00
Date Received: 01-24-94

METALS

1. This narrative covers the analysis of six (6) water samples.

2. The samples were prepared and analyzed in accordance with the following protocols: CLP SOW.

3. ICVs, CCVs, and LCSs stock standards were purchased from Inorganic Ventures Laboratory and High Purity.

4. All analyses were performed within the required holding times.

5. All Initial and Continuing Calibration Verifications (ICV/CCV's) were within control limits.

6. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

7. All Preparation/Method Blanks were below Reporting Limits.

8. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

9. All Laboratory Control Samples (LCS) were within the 80-120% control limits.

10. All Serial Dilution percent differences were within USEPA SOW control limits with the following exceptions for sample 001:

Element	%Difference
Calcium	12.4
Magnesium	12.2
Sodium	14.0

0010

WESTON

11. All Matrix Spike recoveries were within the 75-125% control limits (exception allowed when sample concentration exceeds the spike added concentration by a factor of 4 or more).

    Matrix spike analyses are not required for Ca, Mg, Na, and K in waters.

12. All Duplicate analyses were within the 20% Relative Percent Difference (RPD) control limits for samples values greater than 5X Reporting Limit, or +/- the Reporting Limits for sample values less than 5X Reporting Limit.

13. Method of Standard Additions (MSA) analyses were not required.

14. 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.

15. 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).

16. The graphite furnace time that appears on form XIV is the time of the first injection. The time that appears on the data is the print time.

17. A discrepancy exists between raw data and Form XIVs analytical spikes recovery calculations performed for graphite furnace AA analytes. Instrument software calculates spike recoveries based on absolute values below the IDL for sample results. This is hard-coded by the vendor and is currently not correctable. CLP convention (SOW ILM02.0, Exhibit E, Section V, Item 6, page E-20) requires that when values fall below the IDL, the sample result is equal to zero (0) for the purposes of calculating the percent recovery. The Form XIVs contain the correct calculation.

J. Peter Hershey, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

3.2.94
Date

pas\m01-365clp

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-001	B09W66	Silver, Total	10.0	u	UG/L	10.0	1.0
		Aluminum, Total	200	u	UG/L	200	1.0
		Arsenic, Total	10.0	u	UG/L	10.0	1.0
		Barium, Total	200	u	UG/L	200	1.0
		Beryllium, Total	5.0	u	UG/L	5.0	1.0
		Calcium, Total	23500		UG/L	5000	1.0
		Cadmium, Total	5.0	u	UG/L	5.0	1.0
		Cobalt, Total	50.0	u	UG/L	50.0	1.0
		Chromium, Total	10.0	u	UG/L	10.0	1.0
		Copper, Total	25.0	u	UG/L	25.0	1.0
		Iron, Total	100	u	UG/L	100	1.0
		Mercury, Total	0.20	u	UG/L	0.20	1.0
		Potassium, Total	5000	u	UG/L	5000	1.0
		Magnesium, Total	13700		UG/L	5000	1.0
		Manganese, Total	15.0	u	UG/L	15.0	1.0
		Sodium, Total	26300		UG/L	5000	1.0
		Nickel, Total	40.0	u	UG/L	40.0	1.0
		Lead, Total	3.0	u	UG/L	3.0	1.0
		Antimony, Total	60.0	u	UG/L	60.0	1.0
		Selenium, Total	5.0	u	UG/L	5.0	1.0
		Thallium, Total	10.0	u	UG/L	10.0	1.0
		Vanadium, Total	50.0	u	UG/L	50.0	1.0
		Zinc, Total	20.0	u	UG/L	20.0	1.0

9713507.0725

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD
WESTON BATCH #: 9401L365
WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-002	B09W67	Silver, Soluble	10.0	u	UG/L	10.0	1.0
		Aluminum, Soluble	200	u	UG/L	200	1.0
		Arsenic, Soluble	10.0	u	UG/L	10.0	1.0
		Barium, Soluble	200	u	UG/L	200	1.0
		Beryllium, Soluble	5.0	u	UG/L	5.0	1.0
		Calcium, Soluble	27500		UG/L	5000	1.0
		Cadmium, Soluble	5.0	u	UG/L	5.0	1.0
		Cobalt, Soluble	50.0	u	UG/L	50.0	1.0
		Chromium, Soluble	16.1		UG/L	10.0	1.0
		Copper, Soluble	25.0	u	UG/L	25.0	1.0
		Iron, Soluble	123		UG/L	100	1.0
		Mercury, Soluble	0.20	u	UG/L	0.20	1.0
		Potassium, Soluble	5540		UG/L	5000	1.0
		Magnesium, Soluble	15900		UG/L	5000	1.0
		Manganese, Soluble	22.9		UG/L	15.0	1.0
		Sodium, Soluble	31500		UG/L	5000	1.0
		Nickel, Soluble	40.0	u	UG/L	40.0	1.0
		Lead, Soluble	3.0	u	UG/L	3.0	1.0
		Antimony, Soluble	60.0	u	UG/L	60.0	1.0
		Selenium, Soluble	5.0	u	UG/L	5.0	1.0
		Thallium, Soluble	10.0	u	UG/L	10.0	1.0
		Vanadium, Soluble	50.0	u	UG/L	50.0	1.0
		Zinc, Soluble	20.0	u	UG/L	20.0	1.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-003	B09W64	Silver, Total	10.0	u	UG/L	10.0	1.0
		Aluminum, Total	200	u	UG/L	200	1.0
		Arsenic, Total	10.0	u	UG/L	10.0	1.0
		Barium, Total	200	u	UG/L	200	1.0
		Beryllium, Total	5.0	u	UG/L	5.0	1.0
		Calcium, Total	39300		UG/L	5000	1.0
		Cadmium, Total	5.0	u	UG/L	5.0	1.0
		Cobalt, Total	50.0	u	UG/L	50.0	1.0
		Chromium, Total	22.9		UG/L	10.0	1.0
		Copper, Total	25.0	u	UG/L	25.0	1.0
		Iron, Total	100	u	UG/L	100	1.0
		Mercury, Total	0.20	u	UG/L	0.20	1.0
		Potassium, Total	5000	u	UG/L	5000	1.0
		Magnesium, Total	5000	u	UG/L	5000	1.0
		Manganese, Total	15.0	u	UG/L	15.0	1.0
		Sodium, Total	5930		UG/L	5000	1.0
		Nickel, Total	40.0	u	UG/L	40.0	1.0
		Lead, Total	3.0	u	UG/L	3.0	1.0
		Antimony, Total	60.0	u	UG/L	60.0	1.0
		Selenium, Total	5.0	u	UG/L	5.0	1.0
		Thallium, Total	10.0	u	UG/L	10.0	1.0
		Vanadium, Total	50.0	u	UG/L	50.0	1.0
		Zinc, Total	20.0	u	UG/L	20.0	1.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-004	B09W65	Silver, Soluble	10.0	u	UG/L	10.0	1.0
		Aluminum, Soluble	200	u	UG/L	200	1.0
		Arsenic, Soluble	10.0	u	UG/L	10.0	1.0
		Barium, Soluble	200	u	UG/L	200	1.0
		Beryllium, Soluble	5.0	u	UG/L	5.0	1.0
		Calcium, Soluble	43200		UG/L	5000	1.0
		Cadmium, Soluble	5.0	u	UG/L	5.0	1.0
		Cobalt, Soluble	50.0	u	UG/L	50.0	1.0
		Chromium, Soluble	22.9		UG/L	10.0	1.0
		Copper, Soluble	25.0	u	UG/L	25.0	1.0
		Iron, Soluble	100	u	UG/L	100	1.0
		Mercury, Soluble	0.20	u	UG/L	0.20	1.0
		Potassium, Soluble	5000	u	UG/L	5000	1.0
		Magnesium, Soluble	5000	u	UG/L	5000	1.0
		Manganese, Soluble	15.0	u	UG/L	15.0	1.0
		Sodium, Soluble	6540		UG/L	5000	1.0
		Nickel, Soluble	40.0	u	UG/L	40.0	1.0
		Lead, Soluble	3.0	u	UG/L	3.0	1.0
		Antimony, Soluble	60.0	u	UG/L	60.0	1.0
		Selenium, Soluble	5.0	u	UG/L	5.0	1.0
		Thallium, Soluble	10.0	u	UG/L	10.0	1.0
		Vanadium, Soluble	50.0	u	UG/L	50.0	1.0
		Zinc, Soluble	20.0	u	UG/L	20.0	1.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-005	B09W96	Silver, Total	10.0	u	UG/L	10.0	1.0
		Aluminum, Total	200	u	UG/L	200	1.0
		Arsenic, Total	10.0	u	UG/L	10.0	1.0
		Barium, Total	200	u	UG/L	200	1.0
		Beryllium, Total	5.0	u	UG/L	5.0	1.0
		Calcium, Total	5000	u	UG/L	5000	1.0
		Cadmium, Total	5.0	u	UG/L	5.0	1.0
		Cobalt, Total	50.0	u	UG/L	50.0	1.0
		Chromium, Total	10.0	u	UG/L	10.0	1.0
		Copper, Total	25.0	u	UG/L	25.0	1.0
		Iron, Total	100	u	UG/L	100	1.0
		Mercury, Total	0.20	u	UG/L	0.20	1.0
		Potassium, Total	5000	u	UG/L	5000	1.0
		Magnesium, Total	5000	u	UG/L	5000	1.0
		Manganese, Total	15.0	u	UG/L	15.0	1.0
		Sodium, Total	5000	u	UG/L	5000	1.0
		Nickel, Total	40.0	u	UG/L	40.0	1.0
		Lead, Total	3.0	u	UG/L	3.0	1.0
		Antimony, Total	60.0	u	UG/L	60.0	1.0
		Selenium, Total	5.0	u	UG/L	5.0	1.0
		Thallium, Total	10.0	u	UG/L	10.0	1.0
		Vanadium, Total	50.0	u	UG/L	50.0	1.0
		Zinc, Total	20.0	u	UG/L	20.0	1.0

ROY F. WESTON INC.

INORGANIC DATA SUMMARY REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	RESULT		UNITS	REPORTING LIMIT	DILUTION FACTOR
-006	B09W97	Silver, Soluble	10.0	u	UG/L	10.0	1.0
		Aluminum, Soluble	200	u	UG/L	200	1.0
		Arsenic, Soluble	10.0	u	UG/L	10.0	1.0
		Barium, Soluble	200	u	UG/L	200	1.0
		Beryllium, Soluble	5.0	u	UG/L	5.0	1.0
		Calcium, Soluble	5000	u	UG/L	5000	1.0
		Cadmium, Soluble	5.0	u	UG/L	5.0	1.0
		Cobalt, Soluble	50.0	u	UG/L	50.0	1.0
		Chromium, Soluble	10.0	u	UG/L	10.0	1.0
		Copper, Soluble	25.0	u	UG/L	25.0	1.0
		Iron, Soluble	100	u	UG/L	100	1.0
		Mercury, Soluble	0.20	u	UG/L	0.20	1.0
		Potassium, Soluble	5000	u	UG/L	5000	1.0
		Magnesium, Soluble	5000	u	UG/L	5000	1.0
		Manganese, Soluble	15.0	u	UG/L	15.0	1.0
		Sodium, Soluble	5000	u	UG/L	5000	1.0
		Nickel, Soluble	40.0	u	UG/L	40.0	1.0
		Lead, Soluble	3.0	u	UG/L	3.0	1.0
		Antimony, Soluble	60.0	u	UG/L	60.0	1.0
		Selenium, Soluble	5.0	u	UG/L	5.0	1.0
		Thallium, Soluble	10.0	u	UG/L	10.0	1.0
		Vanadium, Soluble	50.0	u	UG/L	50.0	1.0
		Zinc, Soluble	20.0	u	UG/L	20.0	1.0

ROY F. WESTON INC.

INORGANIC PRECISION REPORT 02/28/94

CLIENT: WESTINGHOUSE HANFORD

WESTON BATCH #: 9401L365

WORK ORDER: 06168-002-001-9999-00

SAMPLE	SITE ID	ANALYTE	INITIAL RESULT	REPLICATE	%RPD	DILUTION FACTOR (REP)
-001REP	B09W66	Silver, Total	10.0 u	10.0 u	NC	1.0
		Aluminum, Total	200 u	200 u	NC	1.0
		Arsenic, Total	10.0 u	10.0 u	NC	1.0
		Barium, Total	200 u	200 u	NC	1.0
		Beryllium, Total	5.0 u	5.0 u	NC	1.0
		Calcium, Total	23500	26000	10.1	1.0
		Cadmium, Total	5.0 u	5.0 u	NC	1.0
		Cobalt, Total	50.0 u	50.0 u	NC	1.0
		Chromium, Total	10.0 u	10.0 u	NC	1.0
		Copper, Total	25.0 u	25.0 u	NC	1.0
		Iron, Total	100 u	100 u	NC	1.0
		Mercury, Total	0.20u	0.20u	NC	1.0
		Potassium, Total	5000 u	5000 u	NC	1.0
		Magnesium, Total	13700	15200	10.5	1.0
		Manganese, Total	15.0 u	15.0 u	NC	1.0
		Sodium, Total	26300	29300	10.9	1.0
		Nickel, Total	40.0 u	40.0 u	NC	1.0
		Lead, Total	3.0 u	3.0 u	NC	1.0
		Antimony, Total	60.0 u	60.0 u	NC	1.0
		Selenium, Total	5.0 u	5.0 u	NC	1.0
		Thallium, Total	10.0 u	10.0 u	NC	1.0
		Vanadium, Total	50.0 u	50.0 u	NC	1.0
		Zinc, Total	20.0 u	20.0 u	NC	1.0

9713507.0731

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W66

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136501

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	65.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	23500.00		E	P
7440-47-3	Chromium	9.00	B		P
7440-48-4	Cobalt	2.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	43.90	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	13700.00		E	P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.00	U		P
7440-09-7	Potassium	4710.00	B		P
7782-49-2	Selenium	2.40	B		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	26300.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	14.20	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0732

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W67

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136502

Level (low/med): LOW Date Received: 1/24/94

% 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	24.40	B		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.90	B		F
7440-39-3	Barium	79.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.60	B		P
7440-70-2	Calcium	27500.00		E	P
7440-47-3	Chromium	16.10			P
7440-48-4	Cobalt	6.70	B		P
7440-50-8	Copper	8.20	B		P
7439-89-6	Iron	123.00			P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	15900.00		E	P
7439-96-5	Manganese	22.90			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	17.90	B		P
7440-09-7	Potassium	5540.00			P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	31500.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	11.50	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0733

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W64

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136503

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.20	B		F
7440-39-3	Barium	23.50	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	39300.00		E	P
7440-47-3	Chromium	22.90			P
7440-48-4	Cobalt	2.00	U		P
7440-50-8	Copper	3.00	B		P
7439-89-6	Iron	39.30	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	4570.00	B	E	P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.00	U		P
7440-09-7	Potassium	2070.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	5930.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	14.20	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0734

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B09W65

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136504

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.00			F
7440-39-3	Barium	27.60	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	43200.00		E	P
7440-47-3	Chromium	22.90			P
7440-48-4	Cobalt	2.00	U		P
7440-50-8	Copper	2.60	B		P
7439-89-6	Iron	8.30	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	4980.00	B	E	P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.00	U		P
7440-09-7	Potassium	2370.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	6540.00		E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	14.20	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

mments:

9713507.0735

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W96

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136505

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	77.90	B	E	P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	2.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	11.60	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	47.00	U	E	P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	10.20	B		P
7440-09-7	Potassium	666.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	27.00	U	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	17.70	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B09W97

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136506

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P
7440-36-0	Antimony	27.00	U		P
7440-38-2	Arsenic	2.00	U		F
7440-39-3	Barium	3.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	36.20	B	E	P
7440-47-3	Chromium	3.00	U		P
7440-48-4	Cobalt	2.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	7.60	B		P
7439-92-1	Lead	2.00	U		F
7439-95-4	Magnesium	47.00	U	E	P
7439-96-5	Manganese	3.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.00	U		P
7440-09-7	Potassium	666.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	27.00	U	E	P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	4.00	U		P
7440-66-6	Zinc	3.00	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

WESTON Analytics Use Only

9401L365

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

Client Westinghouse Hanford

Est. Final Proj. Sampling Date

Work Order # 0d108-002-001-FF99-00

Project Contact/Phone #

AD Project Manager Josie Edwards

QC CLP / Del CLP TAT 35 Days

Date Rec'd 11/24/14 Date Due 2/3/14

Account # WS-HANFORD

Refrigerator #

#/Type Container	Liquid	3							3		3	3				
	Solid	1PL							1PL		1PL	1PL				
Volume	Liquid	4oz							4oz		4oz	4oz				
	Solid															
Preservatives		HNO3							HNO3		HNO3	—	HNO3			

ANALYSES REQUESTED →

ORGANIC				INORG				
VOA	BNA	Pest/PCB	Herb	Metal	CN	RAD①	RAD②	Inorg

MATRIX CODES: S - Soil; 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											
											HNO3		RAD①	RAD②	Inorg			
001	BOGW106			W	1-6-14	1136	11/24/14				X		X	X				
002	BOGW107			W		1136									X			
003	BOGW104			W		0950					X		X	X				
004	BOGW105			W		0930									X			
005	BOGW96			W		0920					X		X	X				
006	BOGW97			W		0920									X			
	RAD① = Gross Alpha / Beta, U-Isotopic, Sr-90																	
	RAD② = C-14, Tritium																	

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

Temp - 4.9°C

SAF#94-025

Original Rewritten

DATE/REVISIONS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Relinquished by	Received by	Date	Time
EMERY	M. Harris	11/24/14	3:08 pm
	mbh	11/25/14	

Relinquished by	Received by	Date	Time
	mbh	11/25/14	

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't (Y) or N

Discrepancies Between Samples Labels and COC Record? Y or (N)

NOTES:

RFW 21-21-001/A-7/91 ____ L372 ____ L373 ____ L375 ____ L377 ____ L378 Rel# _____ Cooler# _____ 381-596a

9713507.0737

97135507.0738

9401 L365

Item/Reason	Relinquished by	Received by	Date	Time
Metals 1-6	T Nott	Summers	2-10-94	1000
Metals return	Oswisloci	Lockard #3	2/17/94	0730

9713507.0739

Westinghouse Hanford Company	CHAIN OF CUSTODY

Custody Form Initiator K. Donnelson

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 1-18-94

Ice Chest No. GWS127

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. 251900846T

Offsite Property No. 21994-0-0090-2

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks NONE DETECTED

Sample Identification

B09W66

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) UNFILTERED
1; 4L; P; WATER; GROSS ALPHA/BETA, U-ISOTOPIC, Sr-90 (HNO3 to pH<2)
1; 1L; and 1; 250mL; Gs; WATER; C-14, TRITIUM

B09W67

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) FILTERED

Fridge #2C 1-18-94 KD 1300

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
[illegible]	1-19-94	0720	AJ Simpson AJSIMPSON	1/19/94	0720
AJ Simpson AJ SIMPSON	1/21/94	0730			
EMERY	1/24/94	30pm	M. [illegible]	1/24/94	30pm

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

Temp = 4.9°C

A-6000-407 (12/92) WEF061

0004

9713507.0740

Westinghouse Hanford Company	CHAIN OF CUSTODY

Custody Form Initiator K. Dennelson

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 1-18-94

Ice Chest No. GWS127

Field Logbook No. EFL -1048

Bill of Lading/Airbill No. 251900846T

Offsite Property No. W94-0-0190-

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks NONE DETECTED

Sample Identification

B09WG4

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) UNFILTERED
1; 4L; P; WATER; GROSS ALPHA/BETA, U-ISOTOPIC, Sr-90 (HNO3 to pH<2)
1; 1L; and 1; 250mL; Gs; WATER; C-14, TRITIUM

B09WG5

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) FILTERED

Fld # 2C 1-18-94 KD 1300

[] Field Transfer of Custody — Chain of Possession — (Sign and Print Name)

Relinquished By	Date	Time	Received By	Date	Time
Kurt F. Hanselaar	1-19-94	0720	RJ Simpson RJ SIMPSON	1/19/94	0720
RJ Simpson RJ Simpson	1/20/94	0731			
EMERY	1/24/94	3pm	M. Dennis	1/24/94	3pm

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

Temp = 4.9°C

A-6000-407 (12/92) WEF061

9713507.0241

Westinghouse Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator K. Donnelson

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations 100-KR-4

Collection Date 1-18-94

Ice Chest No. GWS127

Field Logbook No. EFL-1048

Bill of Lading/Airbill No. Z51900846T

Offsite Property No. ~~25~~ ATS 1/20/94 W94-0-0190-2

Method of Shipment EMERY

Shipped to WESTON

Possible Sample Hazards/Remarks NONE DETECTED

Sample Identification

B09W96

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) UNFILTERED
1; 4L; P; WATER; GROSS ALPHA/BETA, U-ISOTOPIC, Sr-90 (HNO3 to pH<2)
1; 1L; and 1; 250mL; Gs; WATER; C-14, TRITIUM

B09W97

1; 1L; P; WATER; METALS-TAL (HNO3 to pH<2) FILTERED

[ ] Field Transfer of Custody — Chain of Possession — (Sign and Print Name)

Relinquished By	Date	Time	Received By	Date	Time
K.E. Donnelson	1-19-94	0721	RJ Simpson AJ SIMPSON	1/19/94	0721
R.J. Simpson AJ SIMPSON	1/20/94	0730			
EMERY	1/24/94	1430	M. Stevens	1/24/94	1430

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

Temp: 4.9°C

A-6000-407 (12/92) WEF061

0006

EMERY WORLDWIDE — A CF Company

SIGNATURE AND TALLY RECORD

80029-46 (6 89) Litho USA

DATE: 01-20-94 SHIPMENT NO.: 251900846 T

SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6665

REFERENCE NO.: W94-0-0190#21

SHIPPER NAME AND ADDRESS	CONSIGNEE NAME AND ADDRESS
WESTINGHOUSE SHIPPING DEPT (509) 376-6665 U.S. DEPARTMENT OF ENERGY C/O WESTINGHOUSE HANFORD OMPANY 2355 STEVENS DRIVE 1163 BUILDING PO BOX 1970 RICHLAND WA 99352	RF WESTON INC 256 WELSH POOL ROAD LIORVILLE PA 19341

Pieces	Weight	Description/Marks	Emery Authorization No.
1	97 LBS	COOLER ID: CHS 127 WATER SAMPLES	

EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person/Company	Transship Point/Destination	Signature of Person Accepting Custody	Time/Date
1. CR NELSON WESTINGHOUSE HANFORD CO SHIPPING DEPT	RICHLAND WA		
2.			
3.			
4.			
5.			
6. H Peters	PAL		0910 1/24
7. WD SNYDER	PHL		
8.			

SPECIAL HANDLING INSTRUCTIONS

CONSIGNEE COPY

0007

9715507 0742

FORM OF PAYMENT

Check ☐ Cash ☐ Credit Card ☐

Bill to Shipper ☒ Bill to Consignee ☐ Third Party Billing ☐

Shipper's Account Number: E 850281585

EMERY WORLDWIDE — A CF Company

SERVICES * *

UNITED STATES / CANADA

Same Day (Extra Charges) ☐ — AM ☒ — PM ☐ — Second Day ☐ — Saturday Delivery ☐

Express ☐ — Standard Plus ☐ — Preferred ☐ — Standard ☐

INTERNATIONAL

Business Documents ☐ — Customs Clearance ☐ — Delivery ☐

Date: 01-20-94 | Origin: PSC | Shipment Number: 251900846 T

From:
WESTINGHOUSE SHIPPING DEPT (509) 376-6666
U.S. DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD
BLDG 1163
2355 STEVENS DRIVE
RICHLAND WA
Canada ☐

To
RF WESTON INC
RF WESTON INC
256 WELSH POOL ROAD
LIONVILLE PA USA 19341-1313
Hold for Pick Up ☐
Canada ☐

Tariff Dest. | Gateway

Check to Ship $ ☐

EMERY WORLDWIDE will accept Consignee's check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

Customer's Reference Numbers: W81232 PC4CA W94-0-0190#21 99352
PH BUTCHER

Consignee's Account Number: E

FOR INFORMATION OR RATES CALL 1-800 44 EMERY
(1-800-443-63791)

Pc.	Dimensions L	W	H	Total Pieces	Total Weight (Actl.)
1	24	16	17	1	97

1 COOLER ID GWS 127
WATER SAMPLES

Declared Value $

EMERY WORLDWIDE — A CF Company

PCS 1 / WGT 97 LB

16:39 21 JAN 94 PDX

251 900 846 T

Remarks: OVERNIGHT DELIVERY
SIGNATURE SECURITY SERVIC

Shipper's Signature X

Zip Ship ☐
For shipments within the 50 United States Shipper has the option to check this box and, by checking, agrees that the Zip Ship conditions, described in the area to the right, apply.

Mark if Emery Packaging is used
Urgent Letter 9X12 ☐ — Urgent Pak 12X15 ☐

International Shipments: Free Domicile ☐ — Commodity Code

Third Party Account Number mandatory for Third Party Billing: E

Third Party Account Number

International Customs Value

International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance at Origin: COD ☐ — OCMO ☐ — $

19341-PA-PM

3PHL

SERVICE: AM

8000

9713507.0743

9713507.0744

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

B09W64

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136503

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P	UJ
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.20	B		F	
7440-39-3	Barium	23.50	B		P	U
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.00	U		P	
7440-70-2	Calcium	39300.00		E	P	J
7440-47-3	Chromium	22.90			P	
7440-48-4	Cobalt	2.00	U		P	
7440-50-8	Copper	3.00	B	E	P	U
7439-89-6	Iron	39.30	B		P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	4570.00	B	E	P	J
7439-96-5	Manganese	3.00	U		P	
7439-97-6	Mercury	.10	U		CV	UJ
7440-02-0	Nickel	9.00	U		P	
7440-09-7	Potassium	2070.00	B		P	
7782-49-2	Selenium	2.00	U		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	5930.00		E	P	J
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	U		P	UJ
7440-66-6	Zinc	14.20	B		P	U
	Cyanide				NR	

4/25/94

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0745

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W65

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136504

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P	UJ
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.00			F	
7440-39-3	Barium	27.60	B		P	U
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.00	U		P	
7440-70-2	Calcium	43200.00		E	P	J
7440-47-3	Chromium	22.90			P	
7440-48-4	Cobalt	2.00	U		P	
7440-50-8	Copper	2.60	B		P	U
7439-89-6	Iron	8.30	B		P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	4980.00	B	E	P	J
7439-96-5	Manganese	3.00	U		P	
7439-97-6	Mercury	.10	U		CV	UJ
7440-02-0	Nickel	9.00	U		P	
7440-09-7	Potassium	2370.00	B		P	
7782-49-2	Selenium	2.00	U		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	6540.00		E	P	J
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	U		P	UJ
7440-66-6	Zinc	14.20	B		P	U
	Cyanide				NR	

4/26/94 RM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0746

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W66

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136501

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P	UJ
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.00	U		F	
7440-39-3	Barium	65.10	B		P	
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.00	U		P	
7440-70-2	Calcium	23500.00		E	P	J
7440-47-3	Chromium	9.00	B		P	
7440-48-4	Cobalt	2.00	U		P	
7440-50-8	Copper	2.00	U		P	
7439-89-6	Iron	43.90	B		P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	13700.00		E	P	J
7439-96-5	Manganese	3.00	U		P	
7439-97-6	Mercury	.10	U		CV	UJ
7440-02-0	Nickel	9.00	U		P	
7440-09-7	Potassium	4710.00	B		P	
7782-49-2	Selenium	2.40	B		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	26300.00		E	P	J
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	U		P	UJ
7440-66-6	Zinc	14.20	U		P	U
	Cyanide				NR	

4/25/94

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0747

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W67

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136502

Level (low/med): LOW Date Received: 1/24/94

% 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	24.40	B		P	J
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.90	B		F	
7440-39-3	Barium	79.10	B		P	
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.60	B		P	
7440-70-2	Calcium	27500.00		E	P	J
7440-47-3	Chromium	16.10			P	
7440-48-4	Cobalt	6.70	B		P	U
7440-50-8	Copper	8.20	B		P	U
7439-89-6	Iron	123.00			P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	15900.00		E	P	J
7439-96-5	Manganese	22.90			P	
7439-97-6	Mercury	.10	U		CV	UJ
7440-02-0	Nickel	17.90	B		P	
7440-09-7	Potassium	5540.00			P	
7782-49-2	Selenium	2.00	U		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	31500.00		E	P	J
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	U		P	UJ
7440-66-6	Zinc	11.50	B		P	U
	Cyanide				NR	

4/25/94

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0748

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W96

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136505

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	~~U~~		P	UJ
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.00	U		F	
7440-39-3	Barium	3.00	U		P	
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.00	U		P	
7440-70-2	Calcium	77.90	~~B~~	~~E~~	P	UJ
7440-47-3	Chromium	3.00	U		P	
7440-48-4	Cobalt	2.00	U		P	
7440-50-8	Copper	2.00	U		P	
7439-89-6	Iron	11.60	B		P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	47.00	~~U~~	~~E~~	P	UJ
7439-96-5	Manganese	3.00	U		P	
7439-97-6	Mercury	.10	~~U~~		CV	UJ
7440-02-0	Nickel	10.20	B		P	
7440-09-7	Potassium	666.00	U		P	
7782-49-2	Selenium	2.00	U		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	27.00	~~U~~	~~E~~	P	UJ
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	~~U~~		P	UJ
7440-66-6	Zinc	17.70	B		P	
	Cyanide				NR	

4/25/94 JM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

9713507.0749

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

B09W97

Lab Name: ROY F. WESTON, INC - L372 Contract: 6168-02-01

Lab Code: WESTON Case No.: WEST SAS No.: SDG No.: CLP365

Matrix (soil/water): WATER Lab Sample ID: 940136506

Level (low/med): LOW Date Received: 1/24/94

% 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	15.00	U		P	UJ
7440-36-0	Antimony	27.00	U		P	
7440-38-2	Arsenic	2.00	U		F	
7440-39-3	Barium	3.00	U		P	
7440-41-7	Beryllium	1.00	U		P	
7440-43-9	Cadmium	3.00	U		P	
7440-70-2	Calcium	36.20	B	E	P	UJ
7440-47-3	Chromium	3.00	U		P	
7440-48-4	Cobalt	2.00	U		P	
7440-50-8	Copper	2.00	U		P	
7439-89-6	Iron	7.60	B		P	
7439-92-1	Lead	2.00	U		F	
7439-95-4	Magnesium	47.00	U	E	P	UJ
7439-96-5	Manganese	3.00	U		P	
7439-97-6	Mercury	.10	U		CV	UJ
7440-02-0	Nickel	9.00	U		P	
7440-09-7	Potassium	666.00	U		P	
7782-49-2	Selenium	2.00	U		F	
7440-22-4	Silver	3.00	U		P	
7440-23-5	Sodium	27.00	U	E	P	UJ
7440-28-0	Thallium	2.00	U		F	
7440-62-2	Vanadium	4.00	U		P	UJ
7440-66-6	Zinc	3.00	U		P	
	Cyanide				NR	

4/26/94 BN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: