ORIGINAL
(Red)

WESTON
MANAGERS DESIGNERS/CONSULTANTS
5 Underwood Court, Delran, New Jersey 08075-1229
609-461-4003 • 215-238-0338 • Fax 609-461-4916

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: Bill Steuteville, OSC, EPA Region III
Eastern Response Section

TDD #9508-04
PCS #1615

FROM: Ex. 4 CBI TAT Region III MM

SUBJECT: Peninsula Plating Analytical Review

DATE: August 23, 1995

This report covers the general review of the data package submitted by American Environmental Network, for four (4) vat samples and two (2) drum samples collected at the Peninsula Plating Site on August 4, 1995. The samples were received at American Environmental Network, in Cherry Hill, NJ on August 10, 1995. The analyses requested were pH on all samples, copper on 1 vat, zinc and reactive cyanide on 1 vat, chromium on 1 vat, nickel on 1 drum and oxidizer on 1 vat.

ANALYTICAL METHODOLOGY

The samples were analyzed for all metals by EPA Method 6010, for reactive cyanide by EPA SW-846 7.3.3.2, pH by 9045 and oxidizer by test strip.

- Signed chain-of-custody records were received.
- All hold times were met.
- The metals and reactive cyanide calibration data met criteria. The method blanks were free of contamination. The matrix spike recoveries and relative percent difference values met criteria.

CONCLUSION

Accept all results as presented.

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AMERICAN ENVIRONMENTAL NETWORK, INC.

9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

August 21, 1995

Ex. 4 CBI
Roy F. Weston Inc.
5 Underwood Court
Delran, NJ 08075

Dear Ex. 4 CBI

Enclosed are results of analyses performed on the samples received 8/10/95.

The samples were analyzed in accordance with EPA-approved procedures.

Please feel free to call me at (410) 730-[redacted] if you have any questions concerning this report.

Sincerely,

Ex. 4 CBI
Project Manager

9508-131
Enclosures
kcy

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

9508131

CHAIN OF CUSTODY RECORD

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

PROJ. NO.: 1605
PROJECT NAME: Peninsula Plating

Ex. 4 CBI

	STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	COPPER	pH	oxidizer	cyanide (Reactive)	zinc	chromium	nickel	REMARKS
1	PP 1	8/4/95	1530		X	VAT A	1	X	X						
2	PP 2	8/4/95	1535		X	VAT F	1		X	X					
3	PP 3	8/4/95	1540		X	VAT I	1		X		X	X			Send results to:
4	PP 4	8/4/95	1542		X	VAT G	1		X				X		
5	PP 5	8/4/95	1545		X	N.S. Drum	1		X					X	Ex. 4 CBI
6	PP 6	8/4/95	1550		X	S.A. Drum	1		X						May F. WESTON
															5 Underwood Court
															Delran, NJ 08075
															Note: PP 1 - PP 4 are from VATs. PP 5 - PP 6 are from product drums. Expect high concentrations.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Ex. 4 CBI	8/14/95 1005	Ex. 4 CBI			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by:	Date / Time	Remarks	
Ex. 4 CBI	8/10/95 0955	Ex. 4 CBI	8/11/95 0955	Rec'd by AEN-MD 8/10/95 1500	Ex. 4 CBI

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

T3-05108

ED_005024_00000649-00003

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AMERICAN ENVIRONMENTAL NETWORK, INC.
9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

Report Number: 9508131
Report To: Roy F. Weston
Project: Pininsula Plating #1615
Date: August 18, 1995
Analysis: General Chemistry Parameters

Client ID	AENI ID	Date Sampled	Date Received
PP1 VAT A	9508131-001	08/04/95	08/10/95
PP2 VAT F	9508131-002	08/04/95	08/10/95
PP3 VAT I	9508131-003	08/04/95	08/10/95
PP4 VAT G	9508131-004	08/04/95	08/10/95
PP5 N.S. DRUM	9508131-005	08/04/95	08/10/95
PP6 S.A. DRUM	9508131-006	08/04/95	08/10/95

Six liquid samples were received and analyzed for General Chemistry Paramters.

All quality control met standard laboratory criteria.

This report consists of tabulated sample results and a QC Summary report.

Report Released By: Ex. 4 CBI

General Chemistry Laboratory Manager

ORIGINAL (Red)

AMERICAN ENVIRONMENTAL NETWORK, INC.
9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

Report Number: 9508131
Report To: Roy F. Weston
Project: Pininsula Plating #1615
Date: August 17, 1995
Analysis: Corrosivity (as pH), SW846 9040

Client ID	AENI ID	Result	Date Analyzed
PP1 VAT A	9508131-001	<2	08/14/95
PP4 VAT G	9508131-004	<2	08/14/95
PP5 N.S. DRUM	9508131-005	4-5	08/14/95
PP6 S.A. DRUM	9508131-006	<2	08/14/95

(1) Results reported as pH units.

(2) pH measured using pH Test Strips. Poor probe response was obtained using a pH meter.

\gchem\002

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AMERICAN ENVIRONMENTAL NETWORK, INC.
9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

Report Number: 9508131
Report To: Roy F. Weston
Project: Pininsula Plating #1615
Date: August 17, 1995
Sample ID: PP3 VAT I, dated 08/04/95

Parameter	Method	Result	Date Analyzed
Corrosivity (as pH) (1)	SW846 9040	10-11	08/14/95
Reactive Cyanide, mg/L	(2)	1.3	08/15/95

(1) pH measured using pH Test Strips. Poor probe response was obtained using a pH meter.

(2) SW846 Chapter 7.3.3

\gchem\002

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AMERICAN ENVIRONMENTAL NETWORK, INC.
9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2686

Report Number: 9508131
Report To: Roy F. Weston
Project: Pininsula Plating #1615
Date: August 17, 1995
Sample ID: PP2 VAT F, dated 08/04/95

Parameter	Method	Result	Date Analyzed
Corrosivity (as pH)(1)	SW846 9040	<2	08/14/95
Oxidizer Test	KI Test Strip	(2)	08/17/95

(1) pH measured using pH Test Strips. Poor probe response was obtained using a pH meter.

(2) Positive

\gchem\002

AMERICAN ENVIRONMENTAL NETWORK, INC.
9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

ORIGINAL (Red)

Report Number: 9508131
Report To: Roy F. Weston
Project: Pininsula Plating #1615
Date: August 18, 1995
Analysis: General Chemistry Parameters

QC Summary Report

Parameter	Sample ID	Result/Recovery
Corrosivity (as pH)	LCS	100%
	LCSD	100%
Reactive Cyanide	Blank	<0.02 mg/L
	LCS	91%

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1AMERICAN ENVIRONMENTAL NETWORK, INC.

9151 Rumsey Road Suite 150, Columbia, MD 21045-1992
(410) 730-8525 Fax (410) 997-2586

August 21, 1995

Client: Roy F. Weston

Project: Pininsula Plating #1615

Case: 9508131

Analysis: Metals

Client ID	AENI ID	Date Sampled	Date Received	Date Analyzed
PP1 VAT A	9508131-001	08/04/95	08/10/95	08/14-17/95
PP3 Vat I	9508131-003	08/04/95	08/10/95	08/14-17/95
PP4 VAT G	9508131-004	08/04/95	08/10/95	08/14-17/95
PP5 NS DRUM	9508131-005	08/04/95	08/10/95	08/14-17/95

Four non-aqueous samples were received and analyzed for Metals. Results are reported in units of mg/Kg.

The matrix spike recoveries appear poor for Cu, Ni and Zn, however the indigenous analyte levels were greater than four times the spike level. All QC data were within normal control limits.

Report Released By Ex. 4 CBI

Metals Laboratory Manager

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

ORIGINAL (Red)

EPA SAMPLE NO.

PP1 VAT A

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL_ Lab Sample ID: 950813101

Level (low/med): LOW__ Date Received: 08/10/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__				NR
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				P_
7440-48-4	Cobalt___				NR
7440-50-8	Copper___	46100			P_
7439-89-6	Iron____				NR
7439-92-1	Lead____				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___				P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				P_
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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ORIGINAL (Red)

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

PP3 VAT I

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL_ Lab Sample ID: 950813103

Level (low/med): LOW__ Date Received: 08/10/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__				NR
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____	17.3			P_
	Cyanide__				NR

olor Before: _____ Clarity Before: _____ Texture: _____

olor After: _____ Clarity After: _____ Artifacts: _____

omments:

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO. ORIGINAL (Red)

PP4 VAT G

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL_ Lab Sample ID: 950813104

Level (low/med): LOW__ Date Received: 08/10/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__				NR
7440-70-2	Calcium__				NR
7440-47-3	Chromium_	116000			P_
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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1

INORGANIC ANALYSES DATA SHEET

ORIGINAL (Red)

EPA SAMPLE NO.

PP5NS DRUM

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL_ Lab Sample ID: 950813105

Level (low/med): LOW__ Date Received: 08/10/95

% Solids: 100.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_				NR
7440-36-0	Antimony_				NR
7440-38-2	Arsenic__				NR
7440-39-3	Barium___				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium__				NR
7440-70-2	Calcium__				NR
7440-47-3	Chromium_				NR
7440-48-4	Cobalt___				NR
7440-50-8	Copper___				NR
7439-89-6	Iron____				NR
7439-92-1	Lead____				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury__				NR
7440-02-0	Nickel___	97400			P_
7440-09-7	Potassium				NR
7782-49-2	Selenium_				NR
7440-22-4	Silver___				NR
7440-23-5	Sodium___				NR
7440-28-0	Thallium_				NR
7440-62-2	Vanadium_				NR
7440-66-6	Zinc____				NR
	Cyanide__				NR

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

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ORIGINAL (Red)

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

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	500.0	482.15	96.4	500.0	499.18	99.8	491.00	98.2	P
Cobalt									NR
Copper	1250.0	1213.93	97.1	1250.0	1228.92	98.3	1233.11	98.6	P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel	2500.0	2401.01	96.0	2500.0	2457.57	98.3	2332.45	93.3	P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	2500.0	2529.00	101.2	2500.0	2561.69	102.5	2339.95	93.6	P
Cyanide									NR

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

U.S. EPA - CLP

ORIGINAL (Red)

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Initial Calibration Source: HIGH PURITY

Continuing Calibration Source: HIGH PURITY

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				500.0	469.87	94.0			P
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
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

U.S. EPA - CLP

3
BLANKS

ORIGINAL (Red)

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

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	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Cobalt											NR
Copper	10.0	U	10.0	U	10.0	U			1.000	U	P
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel	15.0	U	15.0	U	15.0	U			1.500	U	P
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc	20.0	U	20.0	U	20.0	U			2.000	U	P
Cyanide											NR

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4

ICP INTERFERENCE CHECK SAMPLE

ORIGINAL (Red)

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No: _____ SDG No.: 508131

ICP ID Number: PII CR205___ ICS Source: HIGH PURITY

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								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium	0	500	-1	491.2	98.2	-1	445.8	89.2
Cobalt								
Copper	0	500	-2	447.5	89.5	21	484.4	96.9
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
'ickel	0	1000	-13	900.9	90.1	-2	893.3	89.3
.otassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc	0	1000	38	902.3	90.2	-4	866.8	86.7

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

PP1 VAT AS

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	90.1487		70.8663		20.00	96.4		P
Cobalt									NR
Copper		45319.6640		46051.2520		25.00	-2926.4		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel		313.6180		237.4265		50.00	152.4		P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		7151.3720		7665.2480		50.00	-1027.8		P
Cyanide									NR

Comments:
MATRIX_SPIKE

FORM V (Part 1) - IN ILM03.0

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

PP1 VAT AM

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL__ Level (low/med): LOW___

% Solids for Sample: 100.0

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									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	91.2466		70.8663		20.20	100.9		P
Cobalt									NR
Copper		47786.4424		46051.2520		25.25	6872.0		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel		287.7737		237.4265		50.51	99.7		P
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc		7689.2030		7665.2480		50.51	47.4		P
Cyanide									NR

Comments:
MATRIX_SPIKE_DUPLICATE

FORM V (Part 1) - IN ILM03.0

U.S. EPA - CLP

6
DUPLICATES

ORIGINAL (Red)

EPA SAMPLE NO.

PP1 VAT AD

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: 100.0 % Solids for Duplicate: _100.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt		70.8663		70.8463		0.0		P
Copper								NR
Iron		46051.2520		46735.5356		1.5		P
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium		237.4265		254.5911		7.0		P
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide		7665.2480		7823.5069		2.0		P
								NR

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7

LABORATORY CONTROL SAMPLE

ORIGINAL (Red)

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

Solid LCS Source: _____

Aqueous LCS Source: SPEX_____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium	200.0	199.10	99.6						
Cobalt									
Copper	250.0	229.39	91.8						
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel	500.0	494.22	98.8						
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc	500.0	450.96	90.2						
Cyanide									

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9

ICP SERIAL DILUTION

EPA SAMPLE NO.

PP1 VAT AL

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

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							
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt	722.84		763.03		5.6		P
Copper							NR
Iron	46972.28		43587.10		7.2		P
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium	242.17		197.85		18.3		P
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
	7818.55		8483.51		8.5		P

ORIGINAL (Red)

10

Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.: 950813 SAS No.: _____ SDG No.: 508131

ICP ID Number: PII_CR205___ Date: 01/03/95

Flame AA ID Number : _____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			20		NR
Arsenic			4		NR
Barium			100		NR
Beryllium			2		NR
Cadmium			4		NR
Calcium			500		NR
Chromium	205.55		10	10.0	P
Cobalt			11		NR
Copper	327.75		10	10.0	P
Iron			100		NR
Lead			10		NR
Magnesium			500		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel	231.60		15	15.0	P
Potassium			1000		NR
Selenium			2		NR
Silver			8		NR
Sodium			1000		NR
Thallium			5		NR
Vanadium			16		NR
Zinc	213.86		20	20.0	P

Comments:

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13
PREPARATION LOG

ORIGINAL (Red)

Lab Name: AMERICAN_ENVIRON_NETWORK_ Contract: ROY_F._WES

Lab Code: _____ Case No.:_950813 SAS No.: _____ SDG No.:508131

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
CSW2046	08/15/95		100
PBS2046	08/15/95	1.00	100
1 VAT A	08/15/95	1.02	100
VAT AD	08/15/95	1.01	100
VAT AM	08/15/95	0.99	100
VAT AS	08/15/95	1.00	100
3 VAT I	08/15/95	1.07	100
4 VAT G	08/15/95	1.05	100
NS DRUM	08/15/95	1.02	100

FORM XIII - IN ILM03.0

Analyst: WS
Date: 5/16/95
Notebook #:
Page #:

Instrument: Plasma II ICP
Clients: 9508131
Data File: 9508161054
Supervisor/Reviewer Init:
Date Reviewed:

	As	Ag	Al	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Se	V	Zn
Standard 1	2000	1000	20000	20000	500	100000	500	5000	2000	2500	10000	100000	5000	5000	5000	1000	2000	5000	5000
ICV/CCV	1600	500	10000	10000	250	50000	250	2500	500	1250	5000	50000	2500	2500	500	500	1000	2500	2500
LCS (water)/spike	1000	50	2000	2000	50	10000	50	500	200	250	1000	10000	500	500	500	500	1000	500	500
Post Spk	1000	200	4000	4000	100	2000	100	1000	200	500	2000	20000	1000	1000	200	200	1000	1000	1000
CRDL		10	200	200	5	5000	5	50	10	25	100	5000	15	40	10	60		50	20
LCS(TCLP)/spike	2500	2500		5000			5000		2500	1250				2500	2500		500		2500
Post(TCLP)	2000	2000		2000			400		1000	2000				2000	2000		400		2000

Standard #1	✓	9	9508131011	CRI		42		CCV	
Blank	✓	10	01	ICSA		43		CCB	
ack	✓	11	03	ICSAB		44		58	
ICV	✓	12	04	CCV		45		59	
ICB	✓	13	13101	CCB		46		60	
~~CRI~~ STD3	✓	14		28		47		61	
ICSA I	✓	15		29		CRI		62	
ICSAB I	✓	16		30		ICSA		63	
1 LCSW2046		17		31		ICSAB		64	
2 PBS2046		CRI		32		CCV		65	
3 9508131011		ICSA I	✓	33		CCB		66	
4 ~~9508131011~~		ICSAB I	✓	34		48		67	
5 9508131010		CCV2	✓	35		49		CRI	
6 13101		CCB2	Failed Cu	36		50		ICSA	
7		18		37		51		ICSAB	
CRI		19		CRI		52		CCV	
ICSA		20		ICSA		53		CCB	
ICSAB		21		ICSAB		54		Stnd	
CCV1	✓ (Cu, Ni Failed)	22		CCV		55		As/Se Std	
CCB1	✓	23		CCB		56		As/Se IC	
8 9508131015		24		38		57		ICV/CCV	
		25		39		CRI		ICSA	
		26		40		ICSA		ICSAB	
11/94		27		41		ICSAB		CRI	

ORIGINAL
(Red)

08/16/95 10:57

standard	rep	1	CU324	em	40927.0	conc	2500.0
	rep	1	CR205	em	4037.6	conc	2000
	rep	1	ZN213	em	1809.3	conc	5000
	rep	1	NI231	em	21563.3	conc	5000
	rep	2	CU324	em	42392.1	conc	2500.0
	rep	2	CR205	em	4185.5	conc	2000
	rep	2	ZN213	em	1847.1	conc	5000
	rep	2	NI231	em	22801.3	conc	5000

standard
08/16/95 10:58

CU324	av	41659.56	sd	1035.994	%cv	2.49	conc	2500.0
CR205	av	4111.51	sd	104.585	%cv	2.54	conc	2000
ZN213	av	1828.22	sd	26.765	%cv	1.46	conc	5000
NI231	av	22182.30	sd	875.402	%cv	3.95	conc	5000

08/16/95 11:00

standard	rep	1	CU324	em	41737.2	conc	2500.0
	rep	1	CR205	em	4010.7	conc	2000
	rep	1	ZN213	em	1771.0	conc	5000
	rep	1	NI231	em	21113.7	conc	5000
	rep	2	CU324	em	42174.7	conc	2500.0
	rep	2	CR205	em	3857.8	conc	2000
	rep	2	ZN213	em	1838.9	conc	5000
	rep	2	NI231	em	21256.4	conc	5000

standard
08/16/95 11:01

CU324	av	41955.9	sd	309.35	%cv	0.74	conc	2500.0
CR205	av	3934	sd	108.1	%cv	2.75	conc	2000
ZN213	av	1805	sd	48.1	%cv	2.66	conc	5000
NI231	av	21185	sd	100.9	%cv	0.48	conc	5000

08/16/95 11:05

blank	rep	1	CU324	em	181.1
	rep	1	CR205	em	56.1
	rep	1	ZN213	em	7.4
	rep	1	NI231	em	66.9
	rep	2	CU324	em	172.4
	rep	2	CR205	em	41.4
	rep	2	ZN213	em	5.1
	rep	2	NI231	em	67.5

blank
08/16/95 11:05

CU324	av	176.7	sd	6.18	%cv	3.50
CR205	av	49	sd	10.4	%cv	21.28
ZN213	av	6	sd	1.7	%cv	26.53
NI231	av	67	sd	0.4	%cv	0.65

08/16/95 11:07

CHECK	rep	1	CU324	conc	2392.0 ppb
	rep	1	CR205	conc	1845 ppb
	rep	1	ZN213	conc	4687 ppb
	rep	1	NI231	conc	5348 ppb
	rep	2	CU324	conc	2637.1 ppb
	rep	2	CR205	conc	2055 ppb
	rep	2	ZN213	conc	4726 ppb
	rep	2	NI231	conc	5015 ppb

CU324	av	2514.5 ppb	sd	173.29	%cv	6.89
CR205	av	1950 ppb	sd	148.8	%cv	7.63
ZN213	av	4707 ppb	sd	27.7	%cv	0.59
NI231	av	5182 ppb	sd	234.9	%cv	4.53

ORIGINAL (Red)

08/16/95 11:13
PICV

rep	1	CU324	conc	1328.5 ppb
rep	1	CR205	conc	460 ppb
rep	1	ZN213	conc	2549 ppb
rep	1	NI231	conc	2506 ppb
rep	2	CU324	conc	1215.1 ppb
rep	2	CR205	conc	468 ppb
rep	2	ZN213	conc	2509 ppb
rep	2	NI231	conc	2551 ppb

PICV
08/16/95 11:14

CU324	av	1271.8 ppb	sd	80.18	%cv	6.30
CR205	av	464 ppb	sd	5.4	%cv	1.17
ZN213	av	2529 ppb	sd	28.5	%cv	1.13
NI231	av	2529 ppb	sd	31.5	%cv	1.25

0^'16/95 11:17
1

rep	1	CU324	conc	-3.5 ppb
rep	1	CR205	conc	-5 ppb
rep	1	ZN213	conc	-4 ppb
rep	1	NI231	conc	3 ppb
rep	2	CU324	conc	-3.4 ppb
rep	2	CR205	conc	1 ppb
rep	2	ZN213	conc	-5 ppb
rep	2	NI231	conc	-1 ppb

ICB
08/16/95 11:18

CU324	av	-3.4 ppb	sd	0.10	%cv	2.97
CR205	av	-2 ppb	sd	4.0	%cv	174.2
ZN213	av	-4 ppb	sd	1.2	%cv	26.56
NI231	av	1 ppb	sd	2.8	%cv	385.5

08/16/95 11:20
S 3

rep	1	CU324	conc	52.0 ppb
rep	1	CR205	conc	14 ppb
rep	1	ZN213	conc	101 ppb
rep	1	NI231	conc	108 ppb
rep	2	CU324	conc	52.0 ppb
rep	2	CR205	conc	29 ppb
rep	2	ZN213	conc	79 ppb
rep	2	NI231	conc	111 ppb

STD3
08/16/95 11:20

CU324	av	52.0 ppb	sd	0.01	%cv	0.02
CR205	av	21 ppb	sd	10.6	%cv	49.85
ZN213	av	90 ppb	sd	15.8	%cv	17.62
NI231	av	110 ppb	sd	2.1	%cv	1.95

08/16/95 11:23
STD3

rep	1	CU324	conc	49.6 ppb
rep	1	CR205	conc	46 ppb
rep	1	ZN213	conc	85 ppb
rep	1	NI231	conc	132 ppb
rep	2	CU324	conc	50.1 ppb
rep	2	CR205	conc	38 ppb
rep	2	ZN213	conc	90 ppb
rep	2	NI231	conc	108 ppb

STD3
08/16/95 11:24

[illegible]	av	[illegible] ppb	sd	[illegible] %cv	14.37
ZN213	av	88 ppb	sd	3.6 %cv	4.11
NI231	av	120 ppb	sd	16.7 %cv	13.94

ORIGINAL (Red)

08/16/95 11:26

ICSAI	rep	1	CU324	conc	1.8 ppb	
	rep	1	CR205	conc	-42 ppb	window edge
	rep	1	ZN213	conc	41 ppb	
	rep	1	NI231	conc	12 ppb	
	rep	2	CU324	conc	2.9 ppb	
	rep	2	CR205	conc	8 ppb	window edge
	rep	2	ZN213	conc	36 ppb	
	rep	2	NI231	conc	4 ppb	

ICSAI

08/16/95 11:27

CU324	av	2.4 ppb	sd	0.80 %cv	33.88
CR205	av	-17 ppb	sd	35.7 %cv	210.8
ZN213	av	38 ppb	sd	3.9 %cv	10.16
NI231	av	8 ppb	sd	5.0 %cv	62.69

08/16/95 11:29

ICSABI	rep	1	CU324	conc	520.4 ppb
	rep	1	CR205	conc	459 ppb
	rep	1	ZN213	conc	1004 ppb
	rep	1	NI231	conc	1026 ppb
	rep	2	CU324	conc	467.3 ppb
	rep	2	CR205	conc	471 ppb
	rep	2	ZN213	conc	801 ppb
	rep	2	NI231	conc	978 ppb

ICSABI

08/16/95 11:30

CU324	av	493.9 ppb	sd	37.57 %cv	7.61
CR205	av	465 ppb	sd	8.3 %cv	1.78
ZN213	av	902 ppb	sd	143.8 %cv	15.94
NI231	av	1002 ppb	sd	33.9 %cv	3.38

08/16/95 11:33

LCSW2046	rep	1	CU324	conc	229.0 ppb
	rep	1	CR205	conc	195 ppb
	rep	1	ZN213	conc	427 ppb
	rep	1	NI231	conc	499 ppb
	rep	2	CU324	conc	237.7 ppb
	rep	2	CR205	conc	195 ppb
	rep	2	ZN213	conc	474 ppb
	rep	2	NI231	conc	506 ppb

LCSW2046

08/16/95 11:34

CU324	av	233.3 ppb	sd	6.16 %cv	2.64
CR205	av	195 ppb	sd	0.1 %cv	0.04
ZN213	av	451 ppb	sd	33.3 %cv	7.38
NI231	av	503 ppb	sd	4.9 %cv	0.97

08/16/95 11:37

PBS2046	rep	1	CU324	conc	3.5 ppb
	rep	1	CR205	conc	-6 ppb
	rep	1	ZN213	conc	10 ppb
	rep	1	NI231	conc	4 ppb
	rep	2	CU324	conc	2.4 ppb
	rep	2	CR205	conc	10 ppb
	rep	2	ZN213	conc	-3 ppb
	rep	2	NI231	conc	7 ppb

PBS2046

08/16/95 11:38

CU324	av	3.0 ppb	sd	0.79 %cv	26.65
CR205	av	2 ppb	sd	11.4 %cv	672.4

NI231	av	6 ppb	sd	2.5 %cv	43.46		

08/16/95 11:40

950813101L	rep	1	CU324	conc	62179.7 ppb	over range
	rep	1	CR205	conc	111 ppb	
	rep	1	ZN213	conc	16041 ppb	
	rep	1	NI231	conc	590 ppb	
	rep	2	CU324	conc	62219.0 ppb	over range
	rep	2	CR205	conc	151 ppb	
	rep	2	ZN213	conc	15557 ppb	
	rep	2	NI231	conc	536 ppb	

ORIGINAL (Red)

950813101L
08/16/95 11:40

CU324	over range				
CR205	av	131 ppb	sd	28.2 %cv	21.59
ZN213	av	15799 ppb	sd	342.0 %cv	2.16
NI231	av	563 ppb	sd	38.0 %cv	6.76

08/16/95 11:46

ACID WASH	rep	1	CU324	conc	2.3 ppb	
	rep	1	CR205	conc	-18 ppb	window edge
	rep	1	ZN213	conc	-4 ppb	
	rep	1	NI231	conc	14 ppb	
	rep	2	CU324	conc	-0.8 ppb	
	rep	2	CR205	conc	7 ppb	
	rep	2	ZN213	conc	7 ppb	
	rep	2	NI231	conc	11 ppb	

ACID WASH
08/16/95 11:47

CU324	av	0.8 ppb	sd	2.24 %cv	295.7
CR205	av	-5 ppb	sd	17.5 %cv	333.8
ZN213	av	1 ppb	sd	8.2 %cv	560.1
NI231	av	12 ppb	sd	1.7 %cv	14.00

08/16/95 11:51

950813101 10X	rep	1	CU324	conc	46133.9 ppb
	rep	1	CR205	conc	59 ppb
	rep	1	ZN213	conc	7569 ppb
	rep	1	NI231	conc	279 ppb
	rep	2	CU324	conc	49007.4 ppb
	rep	2	CR205	conc	65 ppb
	rep	2	ZN213	conc	8068 ppb
	rep	2	NI231	conc	286 ppb

950813101 10X
08/16/95 11:52

CU324	av	47570.6 ppb	sd	2031.90 %cv	4.27
CR205	av	62 ppb	sd	4.3 %cv	6.94
ZN213	av	7819 ppb	sd	352.6 %cv	4.51
NI231	av	283 ppb	sd	5.1 %cv	1.79

08/16/95 11:56

950813101D 10X	rep	1	CU324	conc	50257.9 ppb
	rep	1	CR205	conc	55 ppb
	rep	1	ZN213	conc	8014 ppb
	rep	1	NI231	conc	286 ppb
	rep	2	CU324	conc	46699.9 ppb
	rep	2	CR205	conc	54 ppb
	rep	2	ZN213	conc	7789 ppb
	rep	2	NI231	conc	285 ppb

950813101D 10X
08/16/95 11:57

CU324	av	48478.9 ppb	sd	2515.85 %cv	5.19
CR205	av	55 ppb	sd	0.5 %cv	0.94
ZN213	av	7902 ppb	sd	159.3 %cv	2.02
NI231	av	286 ppb	sd	1.0 %cv	0.36

ORIGINAL (Red)

PCCV1	rep	1	CU324	conc	1387.0	ppb	
	rep	1	CR205	conc	483	ppb	
	rep	1	ZN213	conc	2616	ppb	
	rep	1	NI231	conc	2956	ppb	
	rep	2	CU324	conc	1408.4	ppb	
	rep	2	CR205	conc	490	ppb	
	rep	2	ZN213	conc	2508	ppb	
	rep	2	NI231	conc	2910	ppb	

PCCV1
08/16/95 12:01

CU324	av	1397.7 ppb	sd	15.16	%cv	1.08
CR205	av	486 ppb	sd	4.7	%cv	0.96
ZN213	av	2562 ppb	sd	76.4	%cv	2.98
NI231	av	2933 ppb	sd	32.7	%cv	1.11

08/16/95 12:06

CCB1	rep	1	CU324	conc	-1.4	ppb	
	rep	1	CR205	conc	19	ppb	
	rep	1	ZN213	conc	-5	ppb	
	rep	1	NI231	conc	10	ppb	
	rep	2	CU324	conc	2.5	ppb	
	rep	2	CR205	conc	-16	ppb	window edge
	rep	2	ZN213	conc	0	ppb	
	rep	2	NI231	conc	-6	ppb	

CCB1
08/16/95 12:07

CU324	av	0.6 ppb	sd	2.72	%cv	488.3
CR205	av	2 ppb	sd	24.2	%cv	1599.
ZN213	av	-2 ppb	sd	3.7	%cv	170.5
NI231	av	2 ppb	sd	10.7	%cv	521.9

08/16/95 12:09

950813101S 10X	rep	1	CU324	conc	44981.1	ppb
	rep	1	CR205	conc	58	ppb
	rep	1	ZN213	conc	7356	ppb
	rep	1	NI231	conc	328	ppb
	rep	2	CU324	conc	44794.7	ppb
	rep	2	CR205	conc	93	ppb
	rep	2	ZN213	conc	6947	ppb
	rep	2	NI231	conc	319	ppb

950813101S 10X
08/16/95 12:09

CU324	av	44887.9 ppb	sd	131.83	%cv	0.29
CR205	av	76 ppb	sd	24.7	%cv	32.62
ZN213	av	7151 ppb	sd	289.1	%cv	4.04
NI231	av	324 ppb	sd	6.8	%cv	2.12

08/16/95 12:11

950813101M	rep	1	CU324	conc	47132.4	ppb
	rep	1	CR205	conc	70	ppb
	rep	1	ZN213	conc	7980	ppb
	rep	1	NI231	conc	342	ppb
	rep	2	CU324	conc	44771.3	ppb
	rep	2	CR205	conc	70	ppb
	rep	2	ZN213	conc	7245	ppb
	rep	2	NI231	conc	379	ppb

950813101M
08/16/95 12:12

CU324	av	45951.8 ppb	sd	1669.55	%cv	3.63
CR205	av	70 ppb	sd	0.1	%cv	0.10
ZN213	av	7612 ppb	sd	519.4	%cv	6.82
NI231	av	360 ppb	sd	26.1	%cv	7.23

08/16/95 12:15

ORIGINAL (Red)

	rep	1	CR205	conc	18	ppb
	rep	1	ZN213	conc	1713	ppb
	rep	1	NI231	conc	47	ppb
	rep	2	CU324	conc	8801.2	ppb
	rep	2	CR205	conc	7	ppb
	rep	2	ZN213	conc	1681	ppb
	rep	2	NI231	conc	78	ppb

950813101L 50
08/16/95 12:16

CU324	av	8729.5	ppb	sd	101.43	%cv 1.16
CR205	av	13	ppb	sd	7.8	%cv 61.20
ZN213	av	1697	ppb	sd	22.7	%cv 1.34
NI231	av	63	ppb	sd	21.8	%cv 34.76

08/16/95 12:20

950813103	rep	1	CU324	conc	62265.4	ppb over range
	rep	1	CR205	conc	39	ppb
	rep	1	ZN213	conc	201	ppb
	rep	1	NI231	conc	2318	ppb
	rep	2	CU324	conc	62273.1	ppb over range
	rep	2	CR205	conc	40	ppb
	rep	2	ZN213	conc	170	ppb
	rep	2	NI231	conc	2349	ppb

[illegible]813103
08/16/95 12:20

CU324	over range					
CR205	av	40	ppb	sd	0.9	%cv 2.15
ZN213	av	186	ppb	sd	21.8	%cv 11.76
NI231	av	2333	ppb	sd	22.2	%cv 0.95

08/16/95 12:22

950813104 10X	rep	1	CU324	conc	8015.1	ppb
	rep	1	CR205	conc	124835	ppb
	rep	1	ZN213	conc	535	ppb
	rep	1	NI231	conc	1292	ppb
	rep	2	CU324	conc	8723.7	ppb
	rep	2	CR205	conc	123974	ppb
	rep	2	ZN213	conc	562	ppb
	rep	2	NI231	conc	1327	ppb

[illegible] 813104 10X
08/16/95 12:23

CU324	av	8369.4	ppb	sd	501.08	%cv 5.99
CR205	av	124405	ppb	sd	608.6	%cv 0.49
ZN213	av	549	ppb	sd	19.0	%cv 3.46
NI231	av	1309	ppb	sd	25.0	%cv 1.91

08/16/95 12:25

950813101P	rep	1	CU324	conc	47768.1	ppb
	rep	1	CR205	conc	370	ppb
	rep	1	ZN213	conc	7972	ppb
	rep	1	NI231	conc	1435	ppb
	rep	2	CU324	conc	48732.8	ppb
	rep	2	CR205	conc	300	ppb
	rep	2	ZN213	conc	7998	ppb
	rep	2	NI231	conc	1537	ppb

950813101P
08/16/95 12:26

CU324	av	48250.4	ppb	sd	682.13	%cv 1.41
CR205	av	335	ppb	sd	49.1	%cv 14.67
ZN213	av	7985	ppb	sd	18.5	%cv 0.23
NI231	av	1486	ppb	sd	71.8	%cv 4.83

08/16/95 12:29

ICSAF	rep	1	CU324	conc	17.9	ppb
	rep	1	CR205	conc	1	ppb

	rep	1	NI231	conc	3 ppb
	rep	2	CU324	conc	18.1 ppb
	rep	2	CR205	conc	25 ppb
	rep	2	ZN213	conc	-3 ppb
	rep	2	NI231	conc	7 ppb

ICSAF
08/16/95 12:30

CU324	av	18.0 ppb	sd	0.17	%cv	0.92
CR205	av	13 ppb	sd	17.1	%cv	133.9
ZN213	av	-4 ppb	sd	1.5	%cv	39.34
NI231	av	5 ppb	sd	2.5	%cv	50.23

08/16/95 12:32
ICSABF

rep	1	CU324	conc	484.0	ppb
rep	1	CR205	conc	482	ppb
rep	1	ZN213	conc	869	ppb
rep	1	NI231	conc	1017	ppb
rep	2	CU324	conc	485.8	ppb
rep	2	CR205	conc	430	ppb
rep	2	ZN213	conc	864	ppb
rep	2	NI231	conc	1017	ppb

ICSABF
08/16/95 12:33

CU324	av	484.9 ppb	sd	1.24	%cv	0.26
CR205	av	456 ppb	sd	36.5	%cv	8.02
ZN213	av	867 ppb	sd	3.5	%cv	0.40
NI231	av	1017 ppb	sd	0.4	%cv	0.04

08/16/95 12:38
PCCV2

rep	1	CU324	conc	1234.4	ppb
rep	1	CR205	conc	516	ppb
rep	1	ZN213	conc	2369	ppb
rep	1	NI231	conc	2898	ppb
rep	2	CU324	conc	1252.4	ppb
rep	2	CR205	conc	472	ppb
rep	2	ZN213	conc	2311	ppb
rep	2	NI231	conc	2819	ppb

PCCV2
08/16/95 12:39

CU324	av	1243.4 ppb	sd	12.74	%cv	1.02
CR205	av	494 ppb	sd	31.1	%cv	6.29
ZN213	av	2340 ppb	sd	40.9	%cv	1.75
NI231	av	2858 ppb	sd	55.4	%cv	1.94

08/16/95 12:43
CB2

rep	1	CU324	conc	8.9	ppb
rep	1	CR205	conc	17	ppb
rep	1	ZN213	conc	-6	ppb
rep	1	NI231	conc	-9	ppb
rep	2	CU324	conc	7.5	ppb
rep	2	CR205	conc	7	ppb
rep	2	ZN213	conc	-8	ppb
rep	2	NI231	conc	0	ppb

CB2
8/16/95 12:43

CU324	av	8.2 ppb	sd	1.01	%cv	12.31
CR205	av	12 ppb	sd	7.1	%cv	58.72
ZN213	av	-7 ppb	sd	1.6	%cv	21.63
NI231	av	-5 ppb	sd	6.4	%cv	137.1

ORIGINAL (Red)

Analyst: [illegible]
Date: 8/17/95
Notebook #: [illegible]
Page #: [illegible]

Instrument: Plasma II ICP
Clients:
Data File: 9508171220
Supervisor/Reviewer Init:
Date Reviewed:

	As	Ag	Al	Ba	Be	Ca	Cd	Co	~~Cr~~	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Se	V	Zn
Standard 1	2000	1000	20000	20000	500	100000	500	5000	2000	2500	10000	100000	5000	5000	5000	1000	2000	5000	5000
ICV/CCV	1600	500	10000	10000	250	50000	250	2500	500	1250	5000	50000	2500	2500	500	500	1000	2500	2500
LCS (water)/spike	1000	50	2000	2000	50	10000	50	500	200	250	1000	10000	500	500	500	500	1000	500	500
Post Spk	1000	200	4000	4000	100	2000	100	1000	200	500	2000	20000	1000	1000	200	200	1000	1000	1000
CRDL		10	200	200	5	5000	5	50	10	25	100	5000	15	40	10	60		50	20
LCS(TCLP)/spike	2500	2500		5000			5000		2500	1250				2500	2500		500		2500
Post(TCLP)	2000	2000		2000			400		1000	2000				2000	2000		400		2000

Standard #1	✓	9	9508131105 (10x)	CRI		42		CCV	
Blank	✓	10	9508131105 50x	ICSA		43		CCB	
Check	✓	11	9508131103	ICSAB		44		58	
ICV	✓	12		CCV		45		59	
ICB	✓	13		CCB		46		60	
~~CRI~~ STD	✓	14		28		47		61	
ICSAI	✓	15		29		CRI		62	
ICSABI	✓	16		30		ICSA		63	
1 PBS2046		17		31		ICSAB		64	
2 LCSW2046		CRI		32		CCV		65	
3 9508131101	10x	ICSAF	✓	33		CCB		66	
4	c1D10x	ICSABF	✓	34		48		67	
5	01L (50x)	CCV2	cn	35		49		CRI	
6	01S 10x	CCB2	(wrong sample)	36		50		ICSA	
7	01M 10x	CCB2	✓	37		51		ICSAB	
CRI		18		CRI		52		CCV	
ICSA		19		ICSA		53		CCB	
ICSAB		20		ICSAB		54		Stnd	
CCV1	✓	21		CCV		55		As/Se Std	
CCB1	cn failed	22		CCB		56		As/Se IC	
8	01P (10x)	23		38		57		ICV/CCV	
		24		39		CRI		ICSA	
		25		40		ICSA		ICSAB	
		26		41		ICSAB		CRI	
11/94		27							

ORIGINAL (Red)

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08/17/95 12:33
standard        rep   1  CU324      em      40877.2 conc 2500.0
                rep   1  CR205      em       3900.4 conc 2000
                rep   1  NI231      em      21497.0 conc 5000
                rep   2  CU324      em      40801.5 conc 2500.0
                rep   2  CR205      em       3930.9 conc 2000
                rep   2  NI231      em      21728.3 conc 5000
standard
08/17/95 12:34
    CU324       av   40839.3              sd      53.53 %cv   0.13 conc  2500.0
    CR205       av      3916              sd       21.6 %cv   0.55 conc    2000
    NI231       av     21613              sd      163.5 %cv   0.76 conc    5000

08/17/95 12:36
standard        rep   1  CU324      em      40821.3 conc 2500.0
                rep   1  CR205      em       3836.6 conc 2000
                rep   1  NI231      em      21427.8 conc 5000
                rep   2  CU324      em      40595.5 conc 2500.0
                rep   2  CR205      em       3834.4 conc 2000
                rep   2  NI231      em      21081.3 conc 5000
standard
 /17/95 12:36
    CU324       av   40708.4              sd     159.70 %cv   0.39 conc  2500.0
    CR205       av      3836              sd        1.6 %cv   0.04 conc    2000
    NI231       av     21255              sd      245.0 %cv   1.15 conc    5000

08/17/95 12:42
blank           rep   1  CU324      em        206.0
                rep   1  CR205      em         66.8
                rep   1  NI231      em         98.1
                rep   2  CU324      em        155.6
                rep   2  CR205      em         27.4
                rep   2  NI231      em         88.7
blank
08/17/95 12:43
    CU324       av     180.8              sd      35.65 %cv  19.72
    CR205       av        47              sd       27.9 %cv  59.13
    NI231       av        93              sd        6.6 %cv   7.11

08/17/95 12:44
CHECK           rep   1  CU324      conc     2346.8 ppb
                rep   1  CR205      conc       1996 ppb
                rep   1  NI231      conc       4757 ppb
                rep   2  CU324      conc     2372.2 ppb
                rep   2  CR205      conc       2005 ppb
                rep   2  NI231      conc       4878 ppb
CHECK
08/17/95 12:45
    CU324       av    2359.5 ppb          sd      18.00 %cv   0.76
    CR205       av      2001 ppb          sd        6.0 %cv   0.30
    NI231       av      4818 ppb          sd       85.5 %cv   1.77

08/17/95 12:47
PICV            rep   1  CU324      conc     1257.4 ppb
                rep   1  CR205      conc        476 ppb
                rep   1  NI231      conc       2353 ppb
                rep   2  CU324      conc     1170.5 ppb
                rep   2  CR205      conc        480 ppb
                rep   2  NI231      conc       2449 ppb
PICV
08/17/95 12:48
    CU324       av    1213.9 ppb          sd      61.47 %cv   5.06
    CR205       av       478 ppb          sd        2.4 %cv   0.51
    NI231       av      2401 ppb          sd       67.3 %cv   2.80
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ICB

rep	1	CU324	conc	-3.3	ppb
rep	1	CR205	conc	-8	ppb
rep	1	NI231	conc	1	ppb
rep	2	CU324	conc	2.3	ppb
rep	2	CR205	conc	8	ppb
rep	2	NI231	conc	-10	ppb

ICB
08/17/95 12:56

CU324	av	-0.5 ppb	sd	3.95	%cv	821.4
CR205	av	0 ppb	sd	11.2	%cv	3309.
NI231	av	-4 ppb	sd	8.3	%cv	185.3

08/17/95 12:59
STD3

rep	1	CU324	conc	45.9	ppb
rep	1	CR205	conc	43	ppb
rep	1	NI231	conc	94	ppb
rep	2	CU324	conc	50.4	ppb
rep	2	CR205	conc	41	ppb
rep	2	NI231	conc	102	ppb

STD3
08/17/95 12:59

CU324	av	48.2 ppb	sd	3.17	%cv	6.58
CR205	av	42 ppb	sd	1.8	%cv	4.19
NI231	av	98 ppb	sd	5.9	%cv	5.98

08/17/95 13:01
ICSAI

rep	1	CU324	conc	-1.9	ppb	
rep	1	CR205	conc	-3	ppb	
rep	1	NI231	conc	6	ppb	
rep	2	CU324	conc	-1.9	ppb	
rep	2	CR205	conc	10	ppb	
rep	2	NI231	conc	-32	ppb	window edge

ICSAI
08/17/95 13:02

CU324	av	-1.9 ppb	sd	0.02	%cv	1.19
CR205	av	3 ppb	sd	9.7	%cv	280.0
NI231	av	-13 ppb	sd	26.3	%cv	200.8

C 17/95 13:04
ICSABI

rep	1	CU324	conc	441.3	ppb
rep	1	CR205	conc	496	ppb
rep	1	NI231	conc	860	ppb
rep	2	CU324	conc	453.6	ppb
rep	2	CR205	conc	475	ppb
rep	2	NI231	conc	942	ppb

ICSABI
08/17/95 13:04

CU324	av	447.5 ppb	sd	8.73	%cv	1.95
CR205	av	486 ppb	sd	14.5	%cv	3.00
NI231	av	901 ppb	sd	57.9	%cv	6.43

08/17/95 13:14
PBS2046

rep	1	CU324	conc	9.9	ppb
rep	1	CR205	conc	11	ppb
rep	1	NI231	conc	-4	ppb
rep	2	CU324	conc	5.3	ppb
rep	2	CR205	conc	2	ppb
rep	2	NI231	conc	1	ppb

PBS2046
08/17/95 13:15

CU324	av	7.6 ppb	sd	3.22	%cv	42.40
CR205	av	6 ppb	sd	6.5	%cv	103.6
NI231	av	-2 ppb	sd	3.6	%cv	208.1

ORIGINAL (Red)

ORIGINAL (Red)

LCSW2046	rep	1	CU324	conc	227.5 ppb
	rep	1	CR205	conc	198 ppb
	rep	1	NI231	conc	483 ppb
	rep	2	CU324	conc	231.3 ppb
	rep	2	CR205	conc	183 ppb
	rep	2	NI231	conc	505 ppb
LCSW2046					
08/17/95 13:17					
CU324	av	229.4 ppb		sd	2.64 %cv 1.15
CR205	av	190 ppb		sd	10.4 %cv 5.44
NI231	av	494 ppb		sd	15.8 %cv 3.20
08/17/95 13:19					
950813101 10X	rep	1	CU324	conc	46899.4 ppb
	rep	1	CR205	conc	69 ppb
	rep	1	NI231	conc	262 ppb
	rep	2	CU324	conc	47045.2 ppb
	rep	2	CR205	conc	80 ppb
	rep	2	NI231	conc	222 ppb
950813101 10X					
08/17/95 13:20					
CU324	av	46972.3 ppb		sd	103.09 %cv 0.22
CR205	av	75 ppb		sd	7.4 %cv 9.87
NI231	av	242 ppb		sd	28.5 %cv 11.79
08/17/95 13:22					
950813101D 10X	rep	1	CU324	conc	45498.4 ppb
	rep	1	CR205	conc	82 ppb
	rep	1	NI231	conc	267 ppb
	rep	2	CU324	conc	48907.4 ppb
	rep	2	CR205	conc	67 ppb
	rep	2	NI231	conc	247 ppb
950813101D 10X					
08/17/95 13:22					
CU324	av	47202.9 ppb		sd	2410.47 %cv 5.11
CR205	av	74 ppb		sd	10.2 %cv 13.75
NI231	av	257 ppb		sd	14.4 %cv 5.60
08/17/95 13:25					
9 813101L (50	rep	1	CU324	conc	8721.0 ppb
	rep	1	CR205	conc	16 ppb
	rep	1	NI231	conc	44 ppb
	rep	2	CU324	conc	8713.8 ppb
	rep	2	CR205	conc	2 ppb
	rep	2	NI231	conc	35 ppb
950813101L (50					
08/17/95 13:25					
CU324	av	8717.4 ppb		sd	5.10 %cv 0.06
CR205	av	9 ppb		sd	9.7 %cv 111.0
NI231	av	40 ppb		sd	5.9 %cv 14.97
08/17/95 13:27					
950813101S 10X	rep	1	CU324	conc	45328.6 ppb
	rep	1	CR205	conc	123 ppb
	rep	1	NI231	conc	321 ppb
	rep	2	CU324	conc	45310.7 ppb
	rep	2	CR205	conc	75 ppb
	rep	2	NI231	conc	307 ppb
950813101S 10X					
08/17/95 13:28					
CU324	av	45319.7 ppb		sd	12.71 %cv 0.03
CR205	av	99 ppb		sd	34.2 %cv 34.58
NI231	av	314 ppb		sd	9.8 %cv 3.12
08/17/95 13:30					

ORIGINAL (Red)

	rep	1	CR205	conc	83 ppb
	rep	1	NI231	conc	293 ppb
	rep	2	CU324	conc	45937.8 ppb
	rep	2	CR205	conc	88 ppb
	rep	2	NI231	conc	277 ppb

950813101M 10X
08/17/95 13:30

CU324	av	47308.6 ppb	sd	1938.54 %cv	4.10
CR205	av	85 ppb	sd	3.6 %cv	4.25
NI231	av	285 ppb	sd	11.8 %cv	4.13

08/17/95 13:35
PCCV1

	rep	1	CU324	conc	1265.9 ppb
	rep	1	CR205	conc	476 ppb
	rep	1	NI231	conc	2497 ppb
	rep	2	CU324	conc	1191.9 ppb
	rep	2	CR205	conc	489 ppb
	rep	2	NI231	conc	2418 ppb

PCCV1
08/17/95 13:36

CU324	av	1228.9 ppb	sd	52.30 %cv	4.26
CR205	av	482 ppb	sd	8.4 %cv	1.73
NI231	av	2458 ppb	sd	55.6 %cv	2.26

08/17/95 13:40
~~Sample 001~~ CCB1

	rep	1	CU324	conc	1.4 ppb
	rep	1	CR205	conc	12 ppb
	rep	1	NI231	conc	-2 ppb
	rep	2	CU324	conc	-4.1 ppb
	rep	2	CR205	conc	14 ppb
	rep	2	NI231	conc	-20 ppb

CCB1
~~Sample 001~~ window edge
08/17/95 13:40

CU324	av	-1.4 ppb	sd	3.85 %cv	283.1
CR205	av	13 ppb	sd	1.5 %cv	11.39
NI231	av	-11 ppb	sd	12.5 %cv	114.1

08/17/95 13:43
950813101P 10X

	rep	1	CU324	conc	52015.5 ppb
	rep	1	CR205	conc	285 ppb
	rep	1	NI231	conc	1351 ppb
	rep	2	CU324	conc	46306.8 ppb
	rep	2	CR205	conc	249 ppb
	rep	2	NI231	conc	1382 ppb

950813101P 10X
08/17/95 13:44

CU324	av	49161.2 ppb	sd	4036.66 %cv	8.21
CR205	av	267 ppb	sd	25.0 %cv	9.35
NI231	av	1366 ppb	sd	22.6 %cv	1.65

08/17/95 13:48
950813105 10X

	rep	1	CU324	conc	0.2 ppb
	rep	1	CR205	conc	50 ppb
	rep	1	NI231	conc	104742 ppb
	rep	2	CU324	conc	1.8 ppb
	rep	2	CR205	conc	58 ppb
	rep	2	NI231	conc	106064 ppb

950813105 10X
08/17/95 13:48

CU324	av	1.0 ppb	sd	1.14 %cv	116.8
CR205	av	54 ppb	sd	5.9 %cv	10.94
NI231	av	105403 ppb	sd	935.3 %cv	0.89

08/17/95 13:56
950813105 50X rep 1 CU324 conc -0.4 ppb

	rep	1	NI231	conc	19704 ppb	
	rep	2	CU324	conc	-2.8 ppb	
	rep	2	CR205	conc	-16 ppb	
	rep	2	NI231	conc	20018 ppb	

ORIGINAL (Red)

950813105 50X
08/17/95 13:57

CU324	av	-1.6 ppb	sd	1.66 %cv	104.1
CR205	av	-4 ppb	sd	16.4 %cv	377.0
NI231	av	19861 ppb	sd	222.5 %cv	1.12

08/17/95 13:59

950813103	rep	1	CU324	conc	64268.8 ppb	over range
	rep	1	CR205	conc	-15 ppb	
	rep	1	NI231	conc	2086 ppb	
	rep	2	CU324	conc	64266.9 ppb	over range
	rep	2	CR205	conc	24 ppb	
	rep	2	NI231	conc	2047 ppb	

950813103
08/17/95 13:59

CU324	over range				
CR205	av	4 ppb	sd	27.7 %cv	642.1
NI231	av	2067 ppb	sd	27.3 %cv	1.32

17/95 14:04

ICSAF	rep	1	CU324	conc	24.1 ppb
	rep	1	CR205	conc	5 ppb
	rep	1	NI231	conc	5 ppb
	rep	2	CU324	conc	18.6 ppb
	rep	2	CR205	conc	-2 ppb
	rep	2	NI231	conc	-10 ppb

ICSAF
08/17/95 14:04

CU324	av	21.3 ppb	sd	3.93 %cv	18.40
CR205	av	2 ppb	sd	4.8 %cv	306.6
NI231	av	-2 ppb	sd	11.0 %cv	455.1

08/17/95 14:06

ICSABF	rep	1	CU324	conc	479.7 ppb
	rep	1	CR205	conc	460 ppb
	rep	1	NI231	conc	880 ppb
	rep	2	CU324	conc	489.1 ppb
	rep	2	CR205	conc	459 ppb
	rep	2	NI231	conc	906 ppb

ICSABF
08/17/95 14:07

CU324	av	484.4 ppb	sd	6.63 %cv	1.37
CR205	av	459 ppb	sd	0.9 %cv	0.19
NI231	av	893 ppb	sd	18.4 %cv	2.06

08/17/95 14:10

PCCV2	rep	1	CU324	conc	1274.1 ppb
	rep	1	CR205	conc	425 ppb
	rep	1	NI231	conc	2382 ppb
	rep	2	CU324	conc	1192.1 ppb
	rep	2	CR205	conc	419 ppb
	rep	2	NI231	conc	2283 ppb

PCCV2
08/17/95 14:10

CU324	av	1233.1 ppb	sd	57.94 %cv	4.70
CR205	av	422 ppb	sd	3.8 %cv	0.90
NI231	av	2332 ppb	sd	69.9 %cv	2.99

08/17/95 14:14

CCB2	rep	1	CU324	conc	25.5 ppb
	rep	1	CR205	conc	1 ppb

	rep	2	CU324	conc	24.2 ppb	
	rep	2	CR205	conc	25 ppb	
	rep	2	NI231	conc	2 ppb	window edge

CCB2
08/17/95 14:15

CU324	av	24.8 ppb	sd	0.89 %cv	3.60
CR205	av	13 ppb	sd	17.1 %cv	133.0
NI231	av	-4 ppb	sd	7.9 %cv	221.9

08/17/95 14:17
CCB2

rep	1	CU324	conc	0.7 ppb	
rep	1	CR205	conc	15 ppb	
rep	1	NI231	conc	1 ppb	
rep	2	CU324	conc	1.3 ppb	
rep	2	CR205	conc	-34 ppb	window edge
rep	2	NI231	conc	1 ppb	window edge

CCB2
08/17/95 14:17

CU324	av	1.0 ppb	sd	0.41 %cv	39.80
CR205	av	-10 ppb	sd	35.0 %cv	368.6
NI231	av	1 ppb	sd	0.2 %cv	16.30

Analyst: J
Date: 8/17/95
Notebook #:
Page #:

ORIGINAL (Red)

Instrument: Plasma II ICP
Clients:
Data File: 9508171453
Supervisor/Reviewer Init:
Date Reviewed:

	As	Ag	Al	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Ni	Pb	Sb	Se	V	Zn
Standard 1	2000	1000	20000	20000	500	100000	500	5000	2000	2500	10000	100000	5000	5000	5000	1000	2000	5000	5000
ICV/CCV	1600	500	10000	10000	250	50000	250	2500	500	1250	5000	50000	2500	2500	500	500	1000	2500	2500
LCS (water)/spike	1000	50	2000	2000	50	10000	50	500	200	250	1000	10000	500	500	500	500	1000	500	500
Post Spk	1000	200	4000	4000	100	2000	100	1000	200	500	2000	20000	1000	1000	200	200	1000	1000	1000
CRDL		10	200	200	5	5000	5	50	10	25	100	5000	15	40	10	60		50	20
LCS(TCLP)/spike	2500	2500		5000			5000		2500	1250				2500	2500		500		2500
Post(TCLP)	2000	2000		2000			400		1000	2000				2000	2000		400		2000

Standard #1	✓	9	9508131601	CRI		42		CCV	
Blank	✓	10	9508131609	ICSA		43		CCB	
Check	✓	11	9508131601L	ICSAB		44		58	
ICV	✓	12	9508131615	CCV		45		59	
ICB	✓	13	9508131601M	CCB		46		60	
CRI I	✓	14	CLCSW2036	28		47		61	
ICSA I	✓	15	CLCSW2036 MS/MSD	29		CRI		62	
ICSAB I	✓	16	PBW 2036	30		ICSA		63	
1 PBS 2046		17	9508024610	31		ICSAB		64	
2 LCSW 2046		CRI		32		CCV		65	
3 9508131601 (10x)		ICSA		33		CCB		66	
4 01D1 (10x)		ICSAB		34		48		67	
5 01L5 (10x)		CCV2	✓	35		49		CRI	
6 9508171104		CCB2	✓	36		50		ICSA	
7		18	9508024610	37		51		ICSAB	
CRI		19	11	CRI		52		CCV	
ICSA		20	12	ICSA F	✓	53		CCB	
ICSAB		21	13	ICSAB F	✓	54		Stnd	
RCCV1	✓	22	14	CCV		55		As/Se Std	
CCB1	✓	23	149	CCB		56		As/Se IC	
8 9508131604 (50x)		24	145	38		57		ICV/CCV	
		25	145 As/Se	39		CRI		ICSA	
		26	15	40		ICSA		ICSAB	
11/94		27	8501	41		ICSAB		CRI	

Ignore

```
08/17/95 14:55
standard        rep   1  CR205      em      3834.5 conc 2000
                rep   1  CR267      em      3863.8 conc 2000
                rep   2  CR205      em      3942.8 conc 2000
                rep   2  CR267      em      3926.2 conc 2000
standard
08/17/95 14:55
    CR205       av   3888.65              sd    76.640 %cv   1.97 conc    2000
    CR267       av   3895.00              sd    44.161 %cv   1.13 conc    2000

08/17/95 14:56
standard        rep   1  CR205      em      3933.9 conc 2000
                rep   1  CR267      em      3885.7 conc 2000
                rep   2  CR205      em      3791.9 conc 2000
                rep   2  CR267      em      3849.4 conc 2000
standard
08/17/95 14:57
    CR205       av      3863              sd     100.4 %cv   2.60 conc    2000
    CR267       av      3868              sd      25.6 %cv   0.66 conc    2000

08/17/95 15:22
blank           rep   1  CR205      em        42.6
                rep   1  CR267      em        21.0
                rep   2  CR205      em        23.7
                rep   2  CR267      em        15.4
blank
08/17/95 15:22
    CR205       av        33              sd      13.4 %cv  40.47
    CR267       av        18              sd       3.9 %cv  21.59

08/17/95 15:29
CHECK           rep   1  CR205      conc      2037 ppb
                rep   1  CR267      conc      2005 ppb
                rep   2  CR205      conc      2049 ppb
                rep   2  CR267      conc      2002 ppb
CHECK
08/17/95 15:29
    CR205       av      2043 ppb          sd       8.6 %cv   0.42
    CR267       av      2003 ppb          sd       2.0 %cv   0.10

08/17/95 15:32
PICV            rep   1  CR205      conc       528 ppb
                rep   1  CR267      conc       484 ppb
                rep   2  CR205      conc       483 ppb
                rep   2  CR267      conc       481 ppb
PICV
08/17/95 15:32
    CR205       av       506 ppb          sd      31.8 %cv   6.29
    CR267       av       482 ppb          sd       2.1 %cv   0.44

08/17/95 15:35
ICB             rep   1  CR205      conc        34 ppb
                rep   1  CR267      conc        -4 ppb
                rep   2  CR205      conc         6 ppb
                rep   2  CR267      conc        -4 ppb
ICB
08/17/95 15:36
    CR205       av        20 ppb          sd      20.4 %cv  101.7
    CR267       av        -4 ppb          sd       0.3 %cv   6.35

08/17/95 15:40
STD3            rep   1  CR205      conc        25 ppb
                rep   1  CR267      conc        40 ppb
                rep   2  CR205      conc        45 ppb
```

ORIGINAL (Red)

ORIGINAL (Red)

08/17/95 15:40

CR205	av	35 ppb	sd	14.8 %cv	41.83	
CR267	av	42 ppb	sd	2.6 %cv	6.25	

08/17/95 15:42

CRII	rep	1	CR205	conc	9 ppb	
	rep	1	CR267	conc	18 ppb	
	rep	2	CR205	conc	6 ppb	
	rep	2	CR267	conc	14 ppb	

CRII
08/17/95 15:42

CR205	av	7 ppb	sd	1.8 %cv	23.82
CR267	av	16 ppb	sd	2.5 %cv	15.76

08/17/95 15:44

ICSAI	rep	1	CR205	conc	-3 ppb	
	rep	1	CR267	conc	0 ppb	
	rep	2	CR205	conc	-24 ppb	window edge
	rep	2	CR267	conc	-2 ppb	

ICSAI
08/17/95 15:45

CR205	av	-13 ppb	sd	14.9 %cv	112.7
CR267	av	-1 ppb	sd	2.0 %cv	207.0

08/17/95 15:46

ICSABI	rep	1	CR205	conc	465 ppb
	rep	1	CR267	conc	472 ppb
	rep	2	CR205	conc	524 ppb
	rep	2	CR267	conc	511 ppb

ICSABI
08/17/95 15:46

CR205	av	494 ppb	sd	42.1 %cv	8.52
CR267	av	491 ppb	sd	27.4 %cv	5.57

08/17/95 15:50

PBW2046	rep	1	CR205	conc	18 ppb
	rep	1	CR267	conc	0 ppb
	rep	2	CR205	conc	10 ppb
	rep	2	CR267	conc	-2 ppb

PBW2046
08/17/95 15:50

CR205	av	14 ppb	sd	5.7 %cv	41.88
CR267	av	-1 ppb	sd	1.5 %cv	104.5

08/17/95 15:52

LCSW2046	rep	1	CR205	conc	203 ppb
	rep	1	CR267	conc	196 ppb
	rep	2	CR205	conc	204 ppb
	rep	2	CR267	conc	202 ppb

LCSW2046
08/17/95 15:52

CR205	av	203 ppb	sd	0.5 %cv	0.23
CR267	av	199 ppb	sd	4.6 %cv	2.30

08/17/95 15:54

950813101 10X	rep	1	CR205	conc	81 ppb
	rep	1	CR267	conc	68 ppb
	rep	2	CR205	conc	73 ppb
	rep	2	CR267	conc	80 ppb

950813101 10X
08/17/95 15:55

CR205	av	77 ppb	sd	5.6 %cv	7.33
CR267	av	74 ppb	sd	8.3 %cv	11.13

950813101D 10X	rep	1	CR205	conc	91 ppb	
	rep	1	CR267	conc	74 ppb	
	rep	2	CR205	conc	67 ppb	
	rep	2	CR267	conc	78 ppb	
950813101D 10X						
08/17/95 15:56						
CR205	av	79 ppb		sd	16.6 %cv	21.00
CR267	av	76 ppb		sd	2.7 %cv	3.54
08/17/95 15:58						
950813101L(50X	rep	1	CR205	conc	13 ppb	
	rep	1	CR267	conc	15 ppb	
	rep	2	CR205	conc	25 ppb	
	rep	2	CR267	conc	18 ppb	
950813101L(50X						
08/17/95 15:58						
CR205	av	19 ppb		sd	8.2 %cv	43.43
CR267	av	16 ppb		sd	2.4 %cv	14.83
08/17/95 15:59						
950813104 10X	rep	1	CR205	conc	122905 ppb	
	rep	1	CR267	conc	122216 ppb	
	rep	2	CR205	conc	121577 ppb	
	rep	2	CR267	conc	122137 ppb	
950813104 10X						
08/17/95 16:00						
CR205	av	122241 ppb		sd	938.8 %cv	0.77
CR267	av	122177 ppb		sd	56.3 %cv	0.05
08/17/95 16:05						
PCCV1	rep	1	CR205	conc	518 ppb	
	rep	1	CR267	conc	498 ppb	
	rep	2	CR205	conc	519 ppb	
	rep	2	CR267	conc	501 ppb	
PCCV1						
08/17/95 16:06						
CR205	av	518 ppb		sd	0.6 %cv	0.13
CR267	av	499 ppb		sd	2.0 %cv	0.41
C 17/95 16:09						
CCB1	rep	1	CR205	conc	0 ppb	
	rep	1	CR267	conc	-7 ppb	window edge
	rep	2	CR205	conc	12 ppb	
	rep	2	CR267	conc	-2 ppb	
CCB1						
08/17/95 16:09						
CR205	av	6 ppb		sd	8.5 %cv	133.4
CR267	av	-5 ppb		sd	3.8 %cv	83.02
08/17/95 16:11						
950813104 50X	rep	1	CR205	conc	24702 ppb	
	rep	1	CR267	conc	23973 ppb	
	rep	2	CR205	conc	25165 ppb	
	rep	2	CR267	conc	24845 ppb	
950813104 50X						
08/17/95 16:11						
CR205	av	24933 ppb		sd	327.7 %cv	1.31
CR267	av	24409 ppb		sd	616.4 %cv	2.53
08/17/95 16:20						
950813101	rep	1	CR205	conc	696 ppb	
	rep	1	CR267	conc	721 ppb	
	rep	2	CR205	conc	741 ppb	
	rep	2	CR267	conc	724 ppb	
950813101						

ORIGINAL (Red)

CR205	av		719 ppb		sd	31.5 %cv	4.39
CR267	av		723 ppb		sd	2.3 %cv	0.32

08/17/95 16:22

950813101D	rep	1	CR205	conc	706 ppb
	rep	1	CR267	conc	723 ppb
	rep	2	CR205	conc	711 ppb
	rep	2	CR267	conc	708 ppb

950813101D
08/17/95 16:22

CR205	av	708 ppb	sd	3.3 %cv	0.47
CR267	av	716 ppb	sd	10.8 %cv	1.52

08/17/95 16:24

950813101L	rep	1	CR205	conc	160 ppb
	rep	1	CR267	conc	154 ppb
	rep	2	CR205	conc	170 ppb
	rep	2	CR267	conc	151 ppb

950813101L
08/17/95 16:24

CR205	av	165 ppb	sd	7.1 %cv	4.27
CR267	av	153 ppb	sd	2.4 %cv	1.56

C 17/95 16:26

950813101S	rep	1	CR205	conc	905 ppb
	rep	1	CR267	conc	906 ppb
	rep	2	CR205	conc	889 ppb
	rep	2	CR267	conc	897 ppb

950813101S
08/17/95 16:26

CR205	av	896 ppb	sd	11.9 %cv	1.33
CR267	av	901 ppb	sd	6.0 %cv	0.66

08/17/95 16:28

950813101M	rep	1	CR205	conc	878 ppb
	rep	1	CR267	conc	904 ppb
	rep	2	CR205	conc	905 ppb
	rep	2	CR267	conc	903 ppb

950813101M
C 17/95 16:28

CR205	av	892 ppb	sd	19.3 %cv	2.17
CR267	av	903 ppb	sd	0.9 %cv	0.10

08/17/95 16:32

CLCSW2036	rep	1	CR205	conc	184 ppb
	rep	1	CR267	conc	206 ppb
	rep	2	CR205	conc	200 ppb
	rep	2	CR267	conc	212 ppb

CLCSW2036
08/17/95 16:32

CR205	av	192 ppb	sd	11.9 %cv	6.18
CR267	av	209 ppb	sd	4.3 %cv	2.04

08/17/95 16:34

CLCSW2036 AG/S	rep	1	CR205	conc	1 ppb
	rep	1	CR267	conc	-8 ppb
	rep	2	CR205	conc	10 ppb
	rep	2	CR267	conc	-2 ppb

CLCSW2036 AG/S
08/17/95 16:35

CR205	av	6 ppb	sd	7.0 %cv	126.9
CR267	av	-5 ppb	sd	3.9 %cv	76.68

08/17/95 16:36

PBW2036	rep	1	CR205	conc	7 ppb

ORIGINAL (Red)

	rep	2	CR205	conc	17 ppb	
	rep	2	CR267	conc	-9 ppb	
PBW2036						
08/17/95 16:36						
CR205	av		12 ppb	sd	7.4 %cv	63.11
CR267	av		-3 ppb	sd	7.6 %cv	236.5
08/17/95 16:50						
950802410	rep	1	CR205	conc	4 ppb	
	rep	1	CR267	conc	6 ppb	
	rep	2	CR205	conc	-31 ppb	window edge
	rep	2	CR267	conc	0 ppb	
950802410						
08/17/95 16:50						
CR205	av		-14 ppb	sd	24.8 %cv	179.4
CR267	av		3 ppb	sd	4.1 %cv	131.9
08/17/95 16:52						
PCCV2	rep	1	CR205	conc	494 ppb	
	rep	1	CR267	conc	489 ppb	
	rep	2	CR205	conc	473 ppb	
	rep	2	CR267	conc	493 ppb	
PCCV2						
08/17/95 16:53						
CR205	av		484 ppb	sd	15.3 %cv	3.16
CR267	av		491 ppb	sd	3.2 %cv	0.66
08/17/95 16:56						
CCB2	rep	1	CR205	conc	12 ppb	
	rep	1	CR267	conc	-2 ppb	
	rep	2	CR205	conc	1 ppb	
	rep	2	CR267	conc	0 ppb	
CCB2						
08/17/95 16:56						
CR205	av		7 ppb	sd	8.0 %cv	116.0
CR267	av		-1 ppb	sd	1.6 %cv	130.9
08/17/95 16:58						
950802411	rep	1	CR205	conc	-7 ppb	
	rep	1	CR267	conc	0 ppb	
	rep	2	CR205	conc	18 ppb	
	rep	2	CR267	conc	3 ppb	
950802411						
08/17/95 16:58						
CR205	av		6 ppb	sd	17.6 %cv	305.3
CR267	av		2 ppb	sd	2.4 %cv	154.9
08/17/95 17:00						
950802412	rep	1	CR205	conc	11 ppb	
	rep	1	CR267	conc	-4 ppb	
	rep	2	CR205	conc	11 ppb	
	rep	2	CR267	conc	-2 ppb	
950802412						
08/17/95 17:00						
CR205	av		11 ppb	sd	0.1 %cv	0.48
CR267	av		-3 ppb	sd	1.1 %cv	36.72
08/17/95 17:04						
950802413	rep	1	CR205	conc	14 ppb	
	rep	1	CR267	conc	3 ppb	
	rep	2	CR205	conc	11 ppb	
	rep	2	CR267	conc	1 ppb	
950802413						
08/17/95 17:05						
CR205	av		12 ppb	sd	1.7 %cv	13.86

ORIGINAL (Red)

08/17/95 17:07

950802414	rep	1	CR205	conc	-28 ppb		window edge
	rep	1	CR267	conc	-2 ppb		
	rep	2	CR205	conc	12 ppb		
	rep	2	CR267	conc	-1 ppb		
950802414							
08/17/95 17:08							
CR205	av		-8 ppb	sd	28.3 %cv	349.4	
CR267	av		-1 ppb	sd	0.8 %cv	72.87	

08/17/95 17:10

950802414D	rep	1	CR205	conc	8 ppb		
	rep	1	CR267	conc	-3 ppb		
	rep	2	CR205	conc	2 ppb		
	rep	2	CR267	conc	-1 ppb		
950802414D							
08/17/95 17:11							
CR205	av		5 ppb	sd	4.7 %cv	90.38	
CR267	av		-2 ppb	sd	1.3 %cv	61.19	

08/17/95 17:13

950802414S	rep	1	CR205	conc	196 ppb		
	rep	1	CR267	conc	185 ppb		
	rep	2	CR205	conc	189 ppb		
	rep	2	CR267	conc	184 ppb		
950802414S							
08/17/95 17:13							
CR205	av		193 ppb	sd	5.0 %cv	2.58	
CR267	av		185 ppb	sd	0.9 %cv	0.49	

08/17/95 17:15

ICSAF	rep	1	CR205	conc	14 ppb		
	rep	1	CR267	conc	-4 ppb		
	rep	2	CR205	conc	1 ppb		
	rep	2	CR267	conc	2 ppb		
ICSAF							
08/17/95 17:15							
CR205	av		8 ppb	sd	8.9 %cv	118.2	
CR267	av		-1 ppb	sd	4.3 %cv	328.2	

08/17/95 17:17

ICSABF	rep	1	CR205	conc	471 ppb		
	rep	1	CR267	conc	449 ppb		
	rep	2	CR205	conc	478 ppb		
	rep	2	CR267	conc	442 ppb		
ICSABF							
08/17/95 17:17							
CR205	av		475 ppb	sd	5.3 %cv	1.11	
CR267	av		446 ppb	sd	5.1 %cv	1.15	

08/17/95 17:19

PCCV3	rep	1	CR205	conc	496 ppb		
	rep	1	CR267	conc	471 ppb		
	rep	2	CR205	conc	482 ppb		
	rep	2	CR267	conc	469 ppb		
PCCV3							
08/17/95 17:19							
CR205	av		489 ppb	sd	10.4 %cv	2.12	
CR267	av		470 ppb	sd	0.9 %cv	0.19	

08/17/95 17:26

CCB3	rep	1	CR205	conc	3 ppb		
	rep	1	CR267	conc	-2 ppb		
	rep	2	CR205	conc	-15 ppb		

08/17/95 17:27

CR205	av	-6 ppb	sd	13.2 %cv	217.4	
CR267	av	-2 ppb	sd	0.1 %cv	6.56	

ORIGINAL (Red)

ABBREVIATED SAMPLING PLAN FOR EMERGENCY RESPONSE

ORIGINAL (Red)

SITE NAME: Peninsula Plating TDD # 950[illegible]-04 PCS # 1615

SITE LOCATION: Blades DE

SITE OR FACILITY TYPE: Plating

OSC: Bill Steuteville

TAT PREPARER: Ex. 4 CBI TAT REVIEWER: Ex. 4 CBI

DATE: 8/4/95

OBJECTIVE: Verify results of Hazcat testing in field

NUMBER OF SAMPLES	MATRIX	CONTAINER TYPE	PRESERVATIVE	PARAMETER	DETECTION LIMIT	QA/QC
1	WASTE	8 oz	NONE	Copper	50 ppm	—
6	WASTE	8 oz	NONE	pH	—	—
1	WASTE	8 oz	NONE	Reactive Cyanide	50 ppm	—
1	WASTE	8 oz	NONE	~~Copper~~ Zinc	50 ppm	—
1	WASTE	8 oz	NONE	CHROMIUM	50 ppm	—
1	WASTE	8 oz	NONE	NICKEL	50 ppm	—
1	WASTE	8 oz	NONE	OXIDIZER	—	—

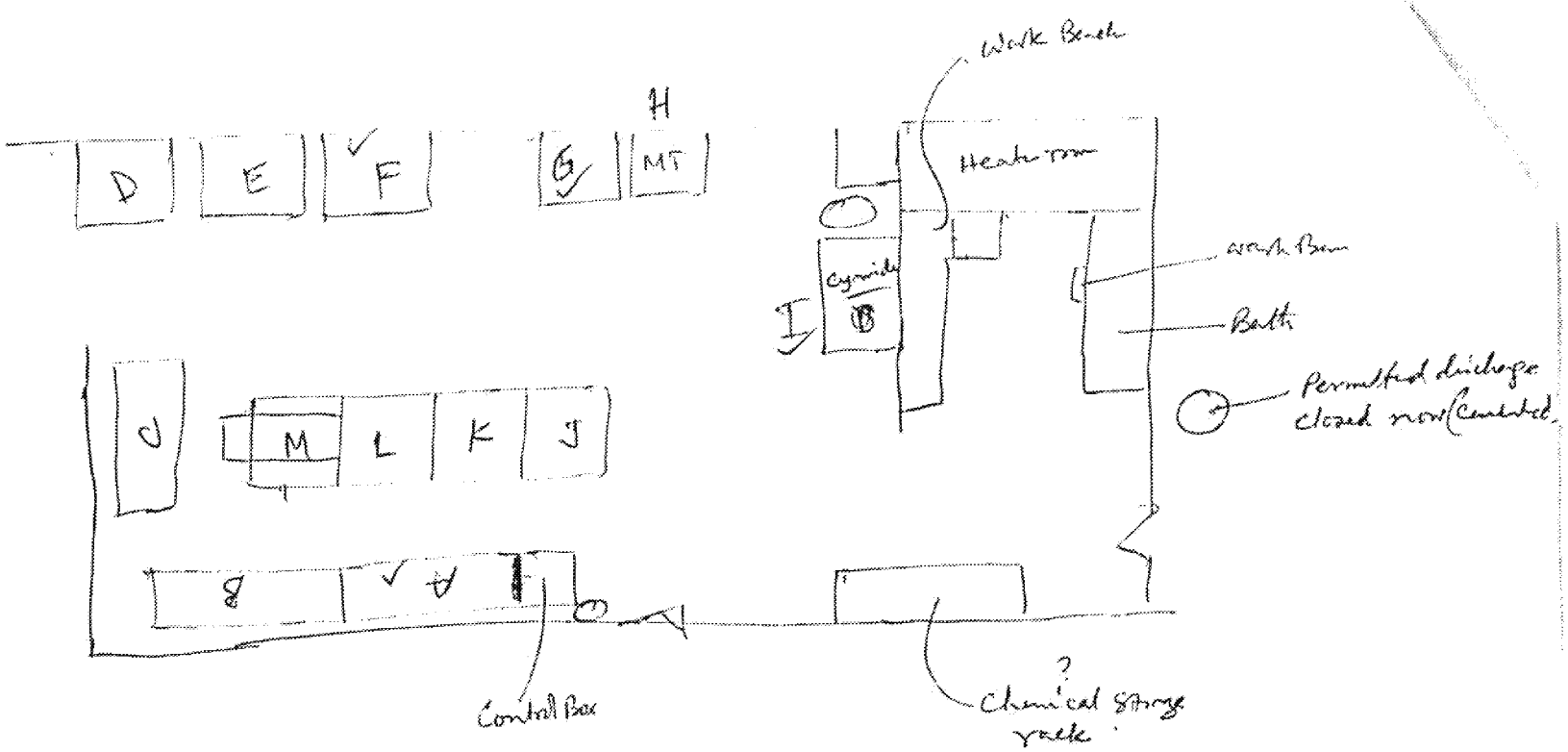
MS=MATRIX SPIKE, MSD=MATRIX SPIKE DUPLICATE, DUP=DUPLICATE, FB=FIELD BLANK, TP=TRIP BLANK
DIS MET=DISSOLVED METALS, TOT MET=TOTAL METALS, AQ=AQUEOUS, S=SOIL, SED=SEDIMENT
PP MET=PRIORITY POLLUTANT METALS, VOA=VOLATILE ORGANICS, BNA SEMI-VOLATILES

SAMPLING METHODS: Samples obtained at level "C" with hand using dump fittings and 8 oz clear glass sample jars.

DECONTAMINATION USED: Samples wiped down with paper towels + water. PPE + equipment disposed for disposal and left on-site.

PACKAGING: In cooler and remain like.

ATTACHMENT: SAMPLING LOCATION MAP



Peninsula Plating, Blades, Sussex Co, DE.

Flow Plan of the plating room.

ED_005024_00000649-00050

U.S. EPA
REGION III
EMERGENCY RESPONSE TEAM

841 Chestnut Street
Philadelphia, PA 19107
FAX # (215) 597-8138

FAX COVER SHEET

TO: Ex. 4 CBI

NUMBER OF PAGES 12 (including cover sheet)

PHONE #:

FAX #:

FROM: Bill Steuteville

PHONE #:

COMMENTS: See you at 9!

ORIGINAL (Red)

PENINSULA PLATING, BLADES, DE

8-3-95 Based on label info./tank measurements

— No flammables of significant quantity

— Acids

Acid stripper	35 gals	Plating room
Sulfuric acid stripper	112 gals	
Nickel sulfate	50 gals	
Hexavalent chrome	300 gals	
" "	118 gals	
Hydrochloric acid	~~5~~ 20 gals	
Nickel sulfate (in H_2SO_4 soln)	381 gals	
Copper sulfate (" " ")	381 gals	
	1,397 gals	

— Alkaline Caustic 269 gals.

" ~ 42 gals.

311 gals

— Zinc cyanide ~ 25 gals

Post-It™ brand fax transmittal memo 7671 | # of pages ▸ 11

To Bill Steuteville	From John Mohiman
Co. US EPA III	Co. DE DNREC
Dept.	Phone #
Fax #	Fax #

ORIGINAL (Red)

PENINSULA PLATING, BLADES, DE

8-3-95

Rear Storage area

Acids

Nickel sulfate	(Among ~10 drums ~~~5 full drums~~)	275 gals
Sulfuric acid	(55 gals dm)	25 gals
Chromic acid	(solid or liquid?)	25 gals
Nickel Chloride	(partial dm)	20 gals
		345 gals

Caustics

"Black Magic"	(contains NaOH)	5 gals
"KC Magic"	(solid)	4 gals
		9 gals

Misc.

Zinc cyanide	(3-55 gals dms)	165 gals
Cadmium ~~fluo~~fluoborate		25 gals
35% Hydrogen peroxide		15 gals
"Acksalt #6"	(55 gals dm)	55 gals
"Ardox"	(")	55 gals
"Mitigué"	(")	55 gals
"Windex"	(30 gals dm)	30 gals
		400 gals

GRAND TOTALS:

Acids	1,742 gals
Caustics	320 gals
Zinc cyanide	190 gals
Misc.	235 gals

ORIGINAL
(Red)

(*) Wilmington Trust Mortage Holder

Original Owner Sarah Morris

Sold property to Ex. 6 Personal Privacy (PP)

Sold ~~property~~ Plating Business to John Donoway

(*) Wilmington trust foreclosed account
bankrupted Ex. 6 Personal Privacy (PP)

ORIGINAL (Red)

STATE OF DELAWARE
COUNTY OF SUSSEX

SEARCH WARRANT
APPLICATION AND AFFIDAVIT

****

PROBABLE CAUSE SHEET

DATE OF APPLICATION: Aug. 3, 95 COMPLAINT NO.: 97-95-4218

****

1) Your affiants contend that the object of the Search, illegally stores and disposes of Hazardous materials

2) Your affiant (Chief Hill) has made contact with the O/S regarding prior complaints of disposal and storage of Hazardous materials

3) Your affiant contends that the O/S agreed to correct the problems as per DNREC Rules and regulations and State Statute

4) Your affiant was to be notified upon the completion of the corrections by the O/S.

5) The affiant (Chief Hill) contents that this prior inspection and subsequent inspection began on April 13, 1995

6) The affiants content that the last conversation occured on July 17, 1995 by DNREC's Jamie Bethond regarding the possible closure of the O/S's site. See attached Peninsula Plating Chronology

7) Your affiants have made numerious attempts at contacting the O/S, Peninsula Plating and John W. Donowry, with negative results.

8) Your affiants contend that the situation at Peninsula Plating at this time is a public safety issue.

9) Your affiants contend ~~contend~~ that the property is listed as being owned by a subject listed as Ex. 6 Personal Privacy (PP)

10) Your affiants contend that the Ex. 6 Personal Privacy (PP) property is in bankruptcy with Wilmington Trust holding the mortage.

11) Your affiants contend that upon contacting Wilmington Trust, Your Affiants were advised that the legal documents have not been filed with

 ORIGINAL (Red)

ADDITIONAL PROBABLE CAUSE SHEET

Sussex county recorder of deeds.

12) Your affiant (Chief Wm. Hill) contacted Wilmington Trust and was advised that Wilmington Trust could not allow the Affiant access to ~~Peninsula~~ Peninsula Plating

ORIGINAL (Red)

COMPLAINT NO.

IN THE MATTER OF:)
)
)
)
)
)
)
)
)
)

SEARCH WARRANT RETURN

STATE OF DELAWARE)
) SS:
COUNTY OF)

Pursuant to the attached search warrant, which was execute on (date)_____(time)_____, the following items were seized and viewed by Judge_____ on (date)_____(time)_____.

ORIGINAL
(Red)

TO LAW ENFORCEMENT OFFICER(S): WHEREAS, facts have been sworn to or affirmed before me, by written affidavit(s) attached hereto, from which I have found probable cause, I do authorize you to search the herein described premises and/or place(s) and/or vehicle(s) and/or person(s) and to seize, secure, inventory and make return in accordance to the Delaware Code, the herein described items.

* *

[ ] This warrant should be served no later than 10:00 ( ) A.M. (X) P.M. August 13, 1995 and shall be executed only during the DAYTIME hours. Issued under my hand this 3rd day of August, 1995 at 12:25 PM o'clock. (Issue time must be stated)

(SEAL)

(Signature of Issuing Authority)

* *

[ ] This warrant should be served no later than _____ ( ) A.M. ( ) P.M. _____, 19____ and shall be executed ANYTIME, during DAY OR NIGHT. Issued under my hand this _____ day of _____, 19 ___ at _____ M o'clock. (Issue time must be stated)

(SEAL)

_____

(Signature of Issuing Authority)

IN THE MATTER OF:

John W. Donoway
T/A Peninsula Plating
Rd 5 Box 1C Blades, De.

SS:

SEARCH WARRANT
APPLICATION AND AFFIDAVIT

ORIGINAL (Red)

STATE OF DELAWARE
COUNTY OF Sussex

DATE OF APPLICATION Aug. 3, 1995

COMPLAINT NO. 97-95-4218

* *

NAME(S) OF AFFIANT(S):

Chief Wm. Hill OF DNREC Enforcement

Sgt. N.R. Jefferson OF DNREC Enforcement

personally appeared before me, and being duly sworn(affirmed) according to law, depose(s) and say(s) that there is probable cause to believe that certain property is evidence of or the fruit of a crime or is contraband or is unlawfully possessed or is otherwise subject to seizure, and is located at particular premises or places or in the possession of particular person(s) as described below.

IDENTIFY ITEM(S) TO BE SEARCHED FOR AND SEIZED:

1) Abandoned Hazardous Materials 4) Records, Ledgers and Addresses dealing with the ownership of the said business
2) Abandoned Hazardous waste
3) Paper work and all other documents Relating to the disposal / Storage of Hazardous Waste

SPECIFIC DESCRIPTION OF PREMISES AND/OR PLACE(S) AND/OR VEHICLE(S) AND/OR PERSON(S) TO BE SEARCHED: 3 Story Wood Frame Structure w/ Brown Cedar Shake Shingles on front of building. the sides are corrigated tan metal siding located approx 300 ft. W/O 13A on the N/S of River Road located in Blades, Del.; see attached photo. Business name posted above main entrance

NAME OF OWNER(S), OCCUPANT(S) OR POSSESSOR(S) OF PREMISES AND/OR PLACE(S) AND/OR VEHICLE(S) AND/OR PERSON(S) TO BE SEARCHED:

Business Owner: John W. Donoway NFD Address listed as RT5 Box 1C Blades, De.
Property Owner: Bankruptcy of Ex. 6 Personal Privacy (PP) / Mortgaged by Wilm. Trust

VIOLATION OF(Describe conduct or specify statute):

Title 7 Chapter 6304A Illegal Storage and Handling of Hazardous Materials and Waste
6304B

PROBABLE CAUSE BELIEF IS BASED ON THE FACTS AND CIRCUMSTANCES SET FORTH IN THE HEREIN ATTACHED "PROBABLE CAUSE SHEET" CONSISTING OF _____ PAGES

* *

(Signature of Affiant) OF DNREC Enforcement 9706 Badge/IBM No.

William Hill OF DNREC ENF. 001

SWORN TO AND SUBSCRIBED BEFORE ME, THIS 3rd DAY OF August, 1995

(Signature of Issuing Authority) Justice of the Peace Court 4 (Court)

Form No. 421

ORIGINAL
(Red)

PENINSULA PLATING
CHRONOLOGY

April 13, 1995	Hazardous Waste Management Branch conduct site inspection of Peninsula Plating in Blades. Refer to compliance assessment report dated May 12, 1995.
May 10, 1995	Sussex LEPC sends letter to Peninsula Plating reference an inspection conducted on this date at the facility by Barrish, Pritchett, and Bullock (LEPC), in which Mr. Donoway was not present at the prearranged meeting. Refer to Sussex LEPC letter dated May 10, 1995.
May 25, 1995	EPCRA sends Peninsula Plating a letter requesting compliance with the regulations and an assistance letter from State OSHA. Refer to EPCRA letter dated May 25, 1995.
May 26, 1995	Informal note from Alan Simpson HW to Karen J'Anthony HW ref. Sussex County preparing to revoke Peninsula's waste water discharge permit.
May 30, 1995	Sussex County sends Peninsula Plating a certified letter revoking their discharge permit. Refer to Sussex County letter dated May 30, 1995.
June 7, 1995	David Ruff, Blades Town Councilman, calls ERB, John Mohrman, with concerns about the facility and thinks we should act fast.
	John Mohrman spoke with DEMA in reference to utilizing the bridge line.
June 8, 1995	John Mohrman and Bill Hill attempt a site visit to Peninsula Plating and find the facility locked up. A local speed shop was visited and Bill spoke with a former employee. An attempt was then made to visit Mr. Donoway at his home in Salisbury, MD.
June 9, 1995	John Mohrman spoke with Frank Taylor (651-1073) from Wilmington Trust who manages the trust for Sarah Parsons. Morris.
	John Mohrman and Bill Hill spoke with Mr. Donoway on the phone. Mr Donoway stated that he was working with plating equipment broker to sell all equip. He also stated that when all was said and done he will end up with approx. 30 gallons of liquid waste. He will update me/9701 on Tuesday of next week, 6-13.

ORIGINAL
(Red)

June 13, 1995	John Mohrman and Bill Hill spoke with Mr. Donoway who advised he was completing an inventory which he will supply to us and account for all chemicals as he gets rid of them. The receptors of the chemicals will be identified by Mr. Donoway.
June 21, 1995	Anthony DiGiuseppe of the Sussex Co. Eng. Dept. called John Mohrman about Peninsula Plating. The County is having difficulty delivering a shut off notice to Mr. Donoway due to his refusal to accept certified mail. DiG was provided Mr. Donoway's home telephone no. (410)548-7475. Dig also stated that he needed a letter from us to the County stating our progress. DiG was informed of our progress and that a meeting was being arranged approx. two weeks latter.
June 30, 1995	Several attempts to reach Mr. Donoway at his home number were made and he attempted to return Jamie Bethard's calls.
July 3-7, 1995	Several attempts were made to reach Mr. Donoway at his home number made with messages left on the answering machine.
July 10-14, 1995	Additional attempts were made to contact Mr. Donoways by phone at his residence and messages were left.
July 17, 1995	Jamie Bethard spoke to a male subject at Mr. Donoway's home who stated Mr. Donoway was not there but was trying to get in contact with me. I left a message to have Mr. Donoway call me.
July 20, 1995	Attempted to call Mr. Donoway at home and received the answering machine, which now had a males voice on the recording, and left a message. John Mohrman spoke with Pritchett and was advised that Mr. Donoway has an outstanding warrant for theft of services from the DSP and is not expected to return to Delaware.
July 26, 1995	John Mohrman spoke with Jenny Moen in regards to Superfund and Hazardous waste regulations/statues for entry and remedial actions.

penchro

ORIGINAL (Red)

PROMISSORY NOTE

This promissory note is made 28th day of March, 1995, by John W. Donoway, individually, and as President of Peninsula Plating, Inc. of Route 5 1-C, (Blades) Seaford, Delaware, herein referred to as **promisor**, to Bo-Win Enterprises Incorporated in care of Harold L. Wingate of Post Office Box 68, City of Seaford, County of Sussex, State of Delaware, herein referred to as **promisee**.

Promisor hereby acknowledges that he owes **promisee** Ten Thousand Seven Hundred Fifty Dollars ($10,750.00). **Promisor** promises and agrees to pay **promisee** the sum owed in full on or before March 1, 1998. Payment shall be made in 36 monthly equally monthly installments of Three Hundred Dollars ($300.00), and the final installment of Two Hundred Fifty Dollars ($250.00). The first monthly payment shall commence on April 1, 1995.

Promisor hereby acknowledges that if payment is made later than thirty days after due date and legal procedures are necessary to recover debt all court cost and attorney's fees will be paid by **promisor**.

In witness whereof, promisor has executed this instrument at Office of Bo-Win Enterprises, Inc., River Road, Blades, Sussex County, Delaware the day and year first above written.

John W. Donoway

JOHN W. DONOWAY, Individually
and as President of Peninsula
Plating, Inc.

ERNS INCIDENT NOTIFICATION REPORT

Regional Case Number: _____ ORIGINAL

Reported (mm/dd/yy): 8/3/95	Time (hh/mm): 1540	Multiple Report: ☐	Regional Time (hh/mm):
Recorded By: A. Foulton		Multiple Regional Case Number:	
Through NRC: ☐	NRC Case Number:	SSI Report: ☐	CR Number:

A. REPORTER *Privacy Act

Confidentiality Requested: ☐ * Reported By: Ex. 6 Personal Privacy (PP)

Organization Name: DE DNR

Organization: (check one) ☐ Discharger ☐ Public ☐ State ☒ Local ☐ Federal ☐ Unknown

*Address: *Phone: (302) 739 5072 ext.

City: County: State: Zip:

B. Discharger Same As A. ☐ Organization: (check one) ☐ Private Co. ☐ Public ☐ State ☐ Federal ☐ Unknown

Discharger Name: Abandoned Plating Facility

Contact Name: Phone: ( ) ext.

Address: 2nd Phone: ( ) ext.

Facility ID Number:

City: Bladen County: Sussex State: DE Zip:

C. Incident Location Same As A. ☐ Street or Approx. Location:

Same As B. ☐ Rt. 13

City: Bladen County: Sussex State: DE Zip: Milepost:

D. Date Discovery Date (mm/dd/yy): Spill Date (mm/dd/yy): Spill Time (hh/mm):

E. Material Material Type: (check one) ☐ Unknown ☐ Oil ☐ Haz Sub ☐ Other

Material Name	CHRIS	CAS No.	UN DOT No.	Quantity	Units (Circle One)	Quant. In Water
1. Plating					lb bbl drm unk gal ton oth	
2.					lb bbl drm unk gal ton oth	
3.					lb bbl drm unk gal ton oth	

F. Source Source of Spill: (Check Any) ☐ Highway ☐ Railway ☐ Pipeline ☐ UST ☐ Fixed Facility ☐ Other ☐ Air Transport ☐ Vessel ☐ Offshore ☐ AST ☐ Unknown

Vehicle ID or Carrier No.: Number of Tanks: Tank Capacity: Tank Units: (circle one) lb bbl drm unk gal ton oth

Source Description:

G. Medium Medium Affected: (Check Any) ☐ None ☐ Land ☐ Groundwater ☐ Other ☐ Air ☐ Water ☐ Within Facility ☐ Unknown

Waterway Affected:

H. Cause Reported Cause: (Check Any) ☐ Transportation Accident ☐ Operational Error ☐ Dumping ☐ Other ☐ Equipment Failure ☐ Natural Phenomenon ☐ Unknown

Cause Description:

I. Damage No. of Injuries: _____ ☐ None No. of Deaths: _____ ☒ None Property Damage > $50,000: ☐

J. Actions Evacuation: ☐ Response Actions Taken:

K. Notified Caller Has Notified: (Check Any) ☐ State/Local ☐ Discharger ☐ USCG ☐ Other ☐ Unknown

Agency Name:

L. Comments Comments: Emergency Assistance

Plating facility abandoned — Drums of wastes from plating ground

leaks health and welfare?

Additional Information: (See Reverse Side) ☐

M. Response And Evaluation Response Comments:

Agency Name: (Check One) ☐ Local ☐ State ☐ Discharger ☐ Federal ☐ EPA ☐ Other ☐ Unknown

Agency Name: (Check One) ☐ Local ☐ State ☐ Discharger ☐ Federal ☐ EPA ☐ Other ☐ Unknown

Agency Name: (Check One) ☐ Local ☐ State ☐ Discharger ☐ Federal ☐ EPA ☐ Other ☐ Unknown