US EPA RECORDS CENTER REGION 5
1000782

WESTON
MANAGERS DESIGNERS/CONSULTANTS

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

15 May 2000

Mr. Allen T. Wojtas
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-031-002

Re: Results of Semi-Annual Private Well Sampling for Techalloy Company, Inc. in Union, Illinois

Dear Mr. Wojtas:

Roy F. Weston, Inc. (WESTON) is providing U.S. EPA with the April 2000 semi-annual groundwater analytical results for private well sampling performed for the Techalloy Company, Inc. in Union, Illinois. The sampling was conducted in accordance with the Private Well Sampling Plan (PWSP) dated May 1993.

One private well Non-responsive [redacted] in Union, Illinois) was sampled on 7 April 2000. The groundwater sample collected from this private well was analyzed for volatile organic compounds (VOCs) by GC/MS (Method 8260A), total and dissolved metals. The analytical results are summarized in Table 1. Analyses were performed by Severn Trent Laboratories (STL), formerly Recra LabNet of University Park, Illinois.

Results of the groundwater sample indicated that the volatile organic compounds (VOCs), total and soluble metals were at non-detectable levels.

Ms. Jensen has been notified in writing of the results (copy of the letter enclosed) of this sampling event and that their water did not show any constituents above the U.S. EPA MCLs.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Click to WESTON On The Web http://www.rfweston.com

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

15 May 2000

Non-responsive

Re: Results of Private Well Semi-Annual Sampling of April 2000

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water Non-responsive n Union, Illinois. The laboratory results indicate that no compounds are present above the U.S. EPA maximum contaminant level (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Allen Wojtas, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

I:\WO\W1500\TECHALL\28596.DOC

Table 1
Summary of Volatile Organic Compounds
Private Well Semi-Annual Sampling (April 2000)
Techalloy Company, Inc.
Union, Illinois

Sample Date:	04/07/00
Matrix:	Water
Location:	Residential Well
Sample I.D.	Non-responsive
Units:	(ug/L)
Dichlorodifluoromethane	0.5 U
Chloromethane	0.5 U
Vinyl Chloride	0.5 U
Bromomethane	0.5 U
Chloroethane	0.5 U
Trichlorofluoromethane	0.5 U
1,1-Dichloroethene	0.5 U
Acetone	2.0 U
Carbon Disulfide	2.0 U
Methylene Chloride	0.5 U
Methyl-tert-butyl ether	0.5 U
trans-1,2-Dichloroethene	0.5 U
1,1-Dichloroethene	0.5 U
cis-1,2-Dichloroethene	0.5 U
2,2-Dichloropropene	0.5 U
2-Butanone	2.0 U
Bromochloromethane	0.5 U
Chloroform	0.5 U
1,1,1-Trichloroethane	0.5 U
1,1-Dichloropropene	0.5 U
Carbon Tetrachloride	0.5 U
Benzene	0.5 U
1,2-Dichloroethane	0.5 U
Trichloroethene	0.5 U
Dibromomethane	0.5 U
Bromodichloromethane	0.5 U
cis-1,3-Dichloropropene	0.5 U
4-Methyl-2-pentanone	2.0 U
Toluene	0.5 U
trans-1,3-Dichloropropene	0.5 U
1,1,2-Trichloroethane	0.5 U
1,3-Dichloropropane	0.5 U
Tetrachloroethene	0.5 U
2-Hexanone	2.0 U

U - Non-detectable level.

Sample Date:	04/07/00
Matrix:	Water
Location:	Residential Well
Sample I.D.	Non-responsive
Units:	(ug/L)
Dibromochloromethane	0.5 U
1,2-Dibromomethane	0.5 U
Chlorobenzene	0.5 U
1,1,1,2-Tetrachloroethane	0.5 U
Ethylbenzene	0.5 U
m/p-Xylene	0.5 U
o-Xylene	0.5 U
Styrene	0.5 U
Bromoform	0.5 U
Isopropylbenzene	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U
Bromobenzene	0.5 U
1,2,3-Trichloropropane	0.5 U
n-Propylene	0.5 U
2-Chlorotoluene	0.5 U
1,3,5-Trimethylbenzene	0.5 U
4-Chlorotoluene	0.5 U
tert-Butylbenzene	0.5 U
1,2,4-Trimethylbenzene	0.5 U
sec-Butylbenzene	0.5 U
1,3-Dichlorobenzene	0.5 U
p-Isopropyltoluene	0.5 U
1,4-Dichlorobenzene	0.5 U
n-Butylbenzene	0.5 U
1,2-Dibromo-3-chloropropane	0.5 U
1,2,4-Trichlorobenzene	0.5 U
Hexachlorobutadiene	0.5 U
Naphthalene	0.5 U
1,2,3-Trichlorobenzene	0.5 U

U - Non-detectable level.

Table 1
Summary of Total/Soluble Metals
Private Well Semi-Annual Sampling (April 2000)
Techalloy Company, Inc.
Union, Illinois

Sample Date:	**04/27/00**
Matrix:	**Water**
Location:	**Residential Well**
Sample I.D.	Non-responsive
Units:	**(mg/L)**
Total Metals	
Arsenic, Total	0.0020 U
Barium, Total	0.050 U
Cadmium, Total	0.010 U
Chromium, Total	0.020 U
Copper, Total	0.020 U
Mercury, Total	0.00020 U
Nickel, Total	0.020 U
Lead, Total	0.0020 U
Soluble Metals	
Arsenic, Soluble	0.0020 U
Barium, Soluble	0.050 U
Cadmium, Soluble	0.010 U
Chromium, Soluble	0.020 U
Copper, Soluble	0.020 U
Mercury, Soluble	0.00020 U
Nickel, Soluble	0.020 U
Lead, Soluble	0.0020 U

U - Non-detectable level.

Committed To *Your* Success

Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466

Tel: (708) 534-5200
Fax: (708) 534-5211
www.stl-inc.com

April 26, 2000

Mr. Scott Carr
Techalloy
P.O. Box 423
Olsen & Jefferson Roads
Union, IL 60180

RE: Analytical Report
Lot 9A04G687

Dear Mr. Carr:

The enclosed analytical report is for the project and lot number listed above. If you have any questions, please contact me at 708-534-5200.

Sincerely,
Severn Trent Laboratories

Richard C. Wright
Project Manager

sj

Enclosures

cc: Jameel Ahmed/RFW Vernon Hills

Approved By:

Michael J. Healy
General Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All 29 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Severn Trent Laboratories Chicago

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
M	Summary Compound
(M)	Manually integrated compound
N	Positive ID of a TIC that is not quantitated against a standard and must be accompanied by a CAS No.
T	Compound was found in the TCLP extraction blank and the sample
u	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses
Y	The chromatographic response resembles a typical fuel pattern
Z	The chromatographic response does not resemble a typical fuel pattern

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CAP	Capillary Column
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
PACK	Packed Column
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate (unrounded) analyses
RRF	Relative response factor
RT	Retention time
RTW	Retention time window
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9A04G687

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-JEN-14							
ARSENIC, TOTAL	001	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/18/00
ARSENIC, TOTAL	001 REP	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/18/00
ARSENIC, TOTAL	001 MS	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/18/00
ARSENIC, TOTAL	001 MSD	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/18/00
BARIUM, SERIAL DILUT	001 L	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
BARIUM, TOTAL	001	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
BARIUM, TOTAL	001 REP	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
BARIUM, TOTAL	001 MS	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
BARIUM, TOTAL	001 MSD	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, SERIAL DILU	001 L	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, TOTAL	001	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, TOTAL	001 REP	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, TOTAL	001 MS	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, TOTAL	001 MSD	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CHROMIUM, SERIAL DIL	001 L	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CHROMIUM, TOTAL	001	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CHROMIUM, TOTAL	001 REP	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CHROMIUM, TOTAL	001 MS	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CHROMIUM, TOTAL	001 MSD	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, SERIAL DILUT	001 L	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, TOTAL	001	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, TOTAL	001 REP	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, TOTAL	001 MS	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, TOTAL	001 MSD	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
MERCURY, TOTAL	001	W	9AHG069	04/07/00	04/08/00	04/12/00	04/12/00
NICKEL, SERIAL DILUT	001 L	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
NICKEL, TOTAL	001	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
NICKEL, TOTAL	001 REP	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
NICKEL, TOTAL	001 MS	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
NICKEL, TOTAL	001 MSD	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
LEAD, TOTAL	001	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/19/00
LEAD, TOTAL	001 REP	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/19/00
LEAD, TOTAL	001 MS	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/19/00
LEAD, TOTAL	001 MSD	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/19/00
ARSENIC, SOLUBLE	002	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/18/00
BARIUM, SOLUBLE	002	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
CADMIUM, SOLUBLE	002	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9A04G687

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
CHROMIUM, SOLUBLE	002	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
COPPER, SOLUBLE	002	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
MERCURY, SOLUBLE	002	W	9AHG070	04/07/00	04/08/00	04/12/00	04/12/00
MERCURY, SOLUBLE	002 REP	W	9AHG070	04/07/00	04/08/00	04/12/00	04/12/00
MERCURY, SOLUBLE	002 MS	W	9AHG070	04/07/00	04/08/00	04/12/00	04/12/00
NICKEL, SOLUBLE	002	W	9AGI0352	04/07/00	04/08/00	04/13/00	04/14/00
LEAD, SOLUBLE	002	W	9AGF0113	04/07/00	04/08/00	04/17/00	04/19/00

LAB QC:

ARSENIC LABORATORY	LC1 BS	W	9AGF0113	N/A	N/A	04/17/00	04/18/00
LEAD LABORATORY	LC1 BS	W	9AGF0113	N/A	N/A	04/17/00	04/19/00
ARSENIC, TOTAL	MB1	W	9AGF0113	N/A	N/A	04/17/00	04/18/00
LEAD, TOTAL	MB1	W	9AGF0113	N/A	N/A	04/17/00	04/19/00
BARIUM LABORATORY	LC1 BS	W	9AGI0352	N/A	N/A	04/13/00	04/19/00
CADMIUM LABORATORY	LC1 BS	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
CHROMIUM LABORATORY	LC1 BS	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
COPPER LABORATORY	LC1 BS	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
NICKEL LABORATORY	LC1 BS	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
BARIUM, TOTAL	MB1	W	9AGI0352	N/A	N/A	04/13/00	04/19/00
CADMIUM, TOTAL	MB1	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
CHROMIUM, TOTAL	MB1	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
COPPER, TOTAL	MB1	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
NICKEL, TOTAL	MB1	W	9AGI0352	N/A	N/A	04/13/00	04/14/00
MERCURY LABORATORY	LC1 BS	W	9AHG069	N/A	N/A	04/12/00	04/12/00
MERCURY, TOTAL	MB1	W	9AHG069	N/A	N/A	04/12/00	04/12/00
MERCURY LABORATORY	LC1 BS	W	9AHG070	N/A	N/A	04/12/00	04/12/00
MERCURY, TOTAL	MB1	W	9AHG070	N/A	N/A	04/12/00	04/12/00
MERCURY, TCLP LEACHA	MB2	W	9AHG070	N/A	N/A	04/12/00	04/12/00

SIGNATURE [illegible] DATE 4/26/00

NY CERTIFICATION # 11006

Severn Trent laboratoris - Chicago
METALS CASE NARRATIVE

Client: Techalloy
STL#: 9A04G687

WO#: 01989-031-002-0000
Date Rec'd: 04/08/00

1. This narrative covers the analysis of 2 Water samples for the following metals:

   ICP ..... Ag,Ba,Cd,Cr,Pb
   GFAA .... As,Se
   CVAA ... Hg

   Method Refs: USEPA,SW-846

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

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

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

5. All Preparation/Method Blanks were below CRDL .

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

7. Laboratory Control Sample (LCS)recoveries were within the 80-120% control limits.

8. All Matrix Spike recoveries were within 80-120% control limits.

9. Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits for sample concentration greater than 5X the reporting limits or +\- the reporting limit for for sample concentration less than 5X the reporting limits.

Mani S.Iyer
Metals Section Manager

4/26/00
Date

Severn Trent Laboratories Chicago
METALS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained with this RFW Lot: 9A0476687

SW846	__6010A ✓6010B __Ag __Al __As __B ✓Ba __Be __Ca ✓Cd __Co ✓Cr ✓Cu __Fe __K __Li __Mg __Mn __Mo __Na ✓Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag7761 ✓As7060A __Cd7131A __Cr7191 __Cu7211 ✓Hg7470A __Hg7471A ✓Pb7421 __Sb7041 __Se7740 __Tl7841 __CN 9010A __CN 9010B/9014
EPA	**200.7** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag272.2 __As206.2 __Cd213.2 __Cr218.2 __Cu220.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 **200.9** __As __Cd __Pb __Sb __Se __Tl
CLP **ILM04.0**	**200.7 CLP-M** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __As206.2 __Cd213.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 __CN335.2
Digestion Method	**SW846** __3005A ✓3010A __3020A ✓3020A(+H_2O_2) __3050A __7060A/7740 ✓7470A __7471A __3050B **EPA** __200.7 __200.0(+H_2O_2) __200.9(-HCL;+H_2O_2) **USEPA/CLP** __ILM04.0 Exhibit D, Section III
Extraction Method	**SW846** __1311TCLP __1312SPLP __1320MEP Using TCLP **ASTM** **CAM Title 22** __D3987 Neutral Leach __W.E.T.
%Solids	__SM 2540G __ASTM D2216 __Exhibit D Part F

CHI-22-05-002/K-1/99

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Tuesday April 25th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Tuesday April 25th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-002**
Sample Date: 04/07/00
Date Received: 04/08/00

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Tuesday April 25th, 2000

Project # 01989-031-002-0000
Lab Batch: 9A04G687

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result	Units	Reporting Limit
Blank 1	9AGF0113-MB1	Arsenic, Total	0.0020 u	mg/L	0.0020
		Lead, Total	0.0020 u	mg/L	0.0020
Blank 1	9AGI0352-MB1	Barium, Total	0.050 u	mg/L	0.050
		Cadmium, Total	0.010 u	mg/L	0.010
		Chromium, Total	0.020 u	mg/L	0.020
		Copper, Total	0.020 u	mg/L	0.020
		Nickel, Total	0.020 u	mg/L	0.020
Blank 1	9AHG069-MB1	Mercury, Total	0.00020 u	mg/L	0.00020
Blank 1	9AHG070-MB1	Mercury, Total	0.00020 u	mg/L	0.00020
Blank 2	9AHG070-MB2	Mercury, TCLP	0.0020 u	mg/L	0.0020

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Tuesday April 25th, 2000

Project # 01989-031-002-0000
Lab Batch: 9A04G687

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-001REP	RW-JEN-14	Arsenic, Total	0.0020 u	0.0020 u	NC
		Barium, Total	0.050 u	0.050 u	NC
		Cadmium, Total	0.010 u	0.010 u	NC
		Chromium, Total	0.020 u	0.020 u	NC
		Copper, Total	0.020 u	0.020 u	NC
		Nickel, Total	0.020 u	0.020 u	NC
		Lead, Total	0.0020 u	0.0020 u	NC
-002REP	RW-JEN-14	Mercury, Soluble	0.00020 u	0.00020 u	NC

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Tuesday April 25th, 2000

Project # 01989-031-002-0000
Lab Batch: 9A04G687

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	RW-JEN-14	Arsenic, Total	0.047	0.0020	u	0.040	118
		Arsenic, Total MSD	0.047	0.0020	u	0.040	117
		Barium, Total	2.0	0.050	u	2.0	101
		Barium, Total MSD	2.0	0.050	u	2.0	99.5
		Cadmium, Total	0.042	0.010	u	0.050	83.0
		Cadmium, Total MSD	0.042	0.010	u	0.050	84.8
		Chromium, Total	0.19	0.020	u	0.20	95.2
		Chromium, Total MSD	0.19	0.020	u	0.20	95.0
		Copper, Total	0.25	0.020	u	0.25	98.9
		Copper, Total MSD	0.24	0.020	u	0.25	97.8
		Nickel, Total	0.49	0.020	u	0.50	97.4
		Nickel, Total MSD	0.48	0.020	u	0.50	95.5
		Lead, Total	0.016	0.0020	u	0.020	79.6
		Lead, Total MSD	0.016	0.0020	u	0.020	81.8
-002	RW-JEN-14	Mercury, Soluble	0.0010	0.00020	u	0.0010	99.5

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Tuesday April 25th, 2000

Project # 01989-031-002-0000
Lab Batch: **9A04G687**

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-001	RW-JEN-14	Arsenic, Total	118	117	1.1
		Barium, Total	101	99.5	1.5
		Cadmium, Total	83.0	84.8	2.2
		Chromium, Total	95.2	95.0	0.21
		Copper, Total	98.9	97.8	1.1
		Nickel, Total	97.4	95.5	2.0
		Lead, Total	79.6	81.8	2.8

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Tuesday April 25th, 2000

Project # 01989-031-002-0000
Lab Batch: 9A04G687

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
9AGF0113-LC1	Arsenic, LCS	0.040	mg/L	104	NA	NA
	Lead, LCS	0.020	mg/L	96.4	NA	NA
9AGI0352-LC1	Barium, LCS	2.0	mg/L	104	NA	NA
	Cadmium, LCS	0.050	mg/L	82.2	NA	NA
	Chromium, LCS	0.20	mg/L	93.6	NA	NA
	Copper, LCS	0.25	mg/L	93.2	NA	NA
	Nickel, LCS	0.50	mg/L	95.0	NA	NA
9AHG069-LC1	Mercury, LCS	0.0020	mg/L	94.6	NA	NA
9AHG070-LC1	Mercury, LCS	0.0020	mg/L	97.2	NA	NA

Severn Trent Laboratories Chicago
8260 ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9A04G687

CLIENT ID	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-JEN-14	001	W	80GVC100	04/07/00	04/08/00	N/A	04/19/00
Trip Blank	003	W	80GVC100	04/07/00	04/08/00	N/A	04/19/00
LAB QC:							
VBLKEL	MB1	W	80GVC100	N/A	N/A	N/A	04/19/00
VBLKEL	MB1 BS	W	80GVC100	N/A	N/A	N/A	04/19/00

SIGNATURE Gregory L. Gerdi DATE 4/24/00

NY CERTIFICATION # 11006

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Techalloy
STL# 9A04G687
VOA DATA:

1. All analyses were performed within the recommended hold times of 14 days.

2. All Method Blank target compounds were below reporting limits.

3. The LCS (Laboratory Control Sample) samples had all controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses was not performed in this sample set.

5. All of the volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The water samples were prepared using Method 5030B. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibration verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding continuing calibration standard.

8. The water samples were analyzed without dilution using a 25 mL purge volume.

Gregory L. Goodwin
GC/MS Section Manager

4/20/00
Date

Severn Trent Laboratories Chicago

GC/MS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS VOLATILES

- _____ SW-846 8260A
- ✓ SW-846 8260B
- _____ EPA 524.2
- _____ 40 CFR Part 136, Method 624
- _____ CLP OLM03.1/3.2
- _____ OLC02.0/2.1

GC/MS SEMIVOLATILES

- _____ SW-846 8270A
- _____ SW-846 8270B
- _____ SW-846 8270C
- _____ 40 CFR Part 136, Method 625
- _____ CLP OLM03.1/3.2
- _____ OLC02.0/2.1

CHI-22-05-001/E-1/99

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
Methyl-tert-butyl ether	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
2-Butanone	BRL	2	U
Bromochloromethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
1,1-Dichloropropene	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
4-Chlorotoluene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
n-Butylbenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **RW-JEN-14**
Project # 01989-031-002-0000
Lab ID: **9A04G687-001**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **Trip Blank**
Project # 01989-031-002-0000
Lab ID: **9A04G687-003**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Dichlorodifluoromethane	BRL	0.5	U
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
Trichlorofluoromethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	0.3	2	J
Methylene Chloride	BRL	0.5	U
Methyl-tert-butyl ether	BRL	0.5	U
trans-1,2-Dichloroethene	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
cis-1,2-Dichloroethene	BRL	0.5	U
2,2-Dichloropropane	BRL	0.5	U
2-Butanone	BRL	2	U
Bromochloromethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **Trip Blank**
Project # 01989-031-002-0000
Lab ID: **9A04G687-003**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
1,1-Dichloropropene	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Dibromomethane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
1,3-Dichloropropane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **Trip Blank**
Project # 01989-031-002-0000
Lab ID: **9A04G687-003**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
1,2-Dibromoethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
1,1,1,2-Tetrachloroethane	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
m/p-Xylene	BRL	0.5	U
o-Xylene	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
Isopropylbenzene	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U
Bromobenzene	BRL	0.5	U
1,2,3-Trichloropropane	BRL	0.5	U
n-Propylbenzene	BRL	0.5	U
2-Chlorotoluene	BRL	0.5	U
1,3,5-Trimethylbenzene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **Trip Blank**
Project # 01989-031-002-0000
Lab ID: **9A04G687-003**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
4-Chlorotoluene	BRL	0.5	U
tert-Butylbenzene	BRL	0.5	U
1,2,4-Trimethylbenzene	BRL	0.5	U
sec-Butylbenzene	BRL	0.5	U
1,3-Dichlorobenzene	BRL	0.5	U
p-Isopropyltoluene	BRL	0.5	U
1,4-Dichlorobenzene	BRL	0.5	U
n-Butylbenzene	BRL	0.5	U
1,2-Dichlorobenzene	BRL	0.5	U
1,2-Dibromo-3-chloropropane	BRL	0.5	U
1,2,4-Trichlorobenzene	BRL	0.5	U
Hexachlorobutadiene	BRL	0.5	U
Naphthalene	BRL	0.5	U
1,2,3-Trichlorobenzene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Monday April 24th, 2000

RE: **Trip Blank**
Project # 01989-031-002-0000
Lab ID: **9A04G687-003**
Sample Date: 04/07/00
Date Received: 04/08/00
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9A04G687 Client: Techalloy Work Order: 01989-031-002-0 Report Date: 04/20/00 16:28 Page: 1a

26

	Cust ID:	RW-JEN-14		Trip Blank		VBLKEL		VBLKEL BS	
Sample Information	RFW#:	001		003		80GVC100-MB1		80GVC100-MB1	
	Matrix:	WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	106	%	114	%	114	%	113	%
	Toluene-d8	101	%	101	%	108	%	104	%
	4-Bromofluorobenzene	99	%	102	%	107	%	103	%
	Dibromofluoromethane	102	%	109	%	111	%	105	%
Dichlorodifluoromethane		0.5	U	0.5	U	0.5	U	91	%
Chloromethane		0.5	U	0.5	U	0.5	U	81	%
Vinyl chloride		0.5	U	0.5	U	0.5	U	100	%
Bromomethane		0.5	U	0.5	U	0.5	U	107	%
Chloroethane		0.5	U	0.5	U	0.5	U	105	%
Trichlorofluoromethane		0.5	U	0.5	U	0.5	U	130 *	% EK 4/20/00
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	75	%
Acetone		2	U	2	U	2	U	67	%
Carbon Disulfide		2	U	0.3	J	2	U	63	%
Methylene Chloride		0.5	U	0.5	U	0.5	U	82	%
Methyl-tert-butyl ether		0.5	U	0.5	U	0.5	U	124	%
trans-1,2-Dichloroethene		0.5	U	0.5	U	0.5	U	89	%
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	100	%
cis-1,2-Dichloroethene		0.5	U	0.5	U	0.5	U	92	%
2,2-Dichloropropane		0.5	U	0.5	U	0.5	U	114	%
2-Butanone		2	U	2	U	2	U	79	%
Bromochloromethane		0.5	U	0.5	U	0.5	U	105	%
Chloroform		0.5	U	0.5	U	0.5	U	104	%
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	108	%
1,1-Dichloropropene		0.5	U	0.5	U	0.5	U	118	%
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	112	%
Benzene		0.5	U	0.5	U	0.5	U	91	%
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	102	%
Trichloroethene		0.5	U	0.5	U	0.5	U	108	%
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	95	%

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9A04G687 Client: Techalloy Work Order: 01989-031-002-0 Page: 1b

27

Cust ID:	RW-JEN-14		Trip Blank		VBLKEL		VBLKEL BS	
RFW#:	001		003		80GVC100-MB1		80GVC100-MB1	
Dibromomethane	0.5	U	0.5	U	0.5	U	90	%
Bromodichloromethane	0.5	U	0.5	U	0.5	U	103	%
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	95	%
4-Methyl-2-pentanone	2	U	2	U	2	U	83	%
Toluene	0.5	U	0.5	U	0.5	U	94	%
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	101	%
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	93	%
1,3-Dichloropropane	0.5	U	0.5	U	0.5	U	98	%
Tetrachloroethene	0.5	U	0.5	U	0.5	U	107	%
2-Hexanone	2	U	2	U	2	U	90	%
Dibromochloromethane	0.5	U	0.5	U	0.5	U	106	%
1,2-Dibromoethane	0.5	U	0.5	U	0.5	U	93	%
Chlorobenzene	0.5	U	0.5	U	0.5	U	108	%
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	109	%
Ethylbenzene	0.5	U	0.5	U	0.5	U	108	%
m/p-Xylene	0.5	U	0.5	U	0.5	U	110	%
o-Xylene	0.5	U	0.5	U	0.5	U	106	%
Styrene	0.5	U	0.5	U	0.5	U	104	%
Bromoform	0.5	U	0.5	U	0.5	U	93	%
Isopropylbenzene	0.5	U	0.5	U	0.5	U	118	%
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	101	%
Bromobenzene	0.5	U	0.5	U	0.5	U	104	%
1,2,3-Trichloropropane	0.5	U	0.5	U	0.5	U	107	%
n-Propylbenzene	0.5	U	0.5	U	0.5	U	122	%
2-Chlorotoluene	0.5	U	0.5	U	0.5	U	119	%
1,3,5-Trimethylbenzene	0.5	U	0.5	U	0.5	U	117	%
4-Chlorotoluene	0.5	U	0.5	U	0.5	U	115	%
tert-Butylbenzene	0.5	U	0.5	U	0.5	U	125	%
1,2,4-Trimethylbenzene	0.5	U	0.5	U	0.5	U	119	%
sec-Butylbenzene	0.5	U	0.5	U	0.5	U	125	%
1,3-Dichlorobenzene	0.5	U	0.5	U	0.5	U	109	%
p-Isopropyltoluene	0.5	U	0.5	U	0.5	U	127	%
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	108	%
n-Butylbenzene	0.5	U	0.5	U	0.5	U	126	%
1,2-Dichlorobenzene	0.5	U	0.5	U	0.5	U	102	%
1,2-Dibromo-3-chloropropane	0.5	U	0.5	U	0.5	U	104	%

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9A04G687 Client: Techalloy Work Order: 01989-031-002-0 Page: 1c

Cust ID:	RW-JEN-14	Trip Blank	VBLKEL	VBLKEL BS
RFW#:	001	003	80GVC100-MB1	80GVC100-MB1
1,2,4-Trichlorobenzene	0.5 U	0.5 U	0.5 U	100 %
Hexachlorobutadiene	0.5 U	0.5 U	0.5 U	121 %
Naphthalene	0.5 U	0.5 U	0.5 U	98 %
1,2,3-Trichlorobenzene	0.5 U	0.5 U	0.5 U	95 %

*= Outside of EPA CLP QC limits.

28

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Chicago Laboratory
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: Jameel Ahmed
Company: Roy F. Weston
Address: 3 Hawthorn Parkway
Vernon Hills IL 60061
Phone: (847) 918-4021
Fax: (847) 918-4055
E-Mail: ahmedj@mail.rfweston.com

Bill To:
Contact: Scott Carr
Company: Technalloy Company
Address: 6509 Olson Road
Union IL 60180
Phone: (815) 923-2131
Fax: (815) 923-2034
PO#: Quote:

Shaded Areas For Internal Only

Lab Lot # 9A046687

Package Sealed Yes (No)	Samples Sealed Yes (No)
Received on Ice (Yes) No	Samples Intact (Yes) No
Temperature 4.3 °C of Cooler	
Within Hold Time (Yes) No	Preserv. indicated Yes (No) NA
pH Check ok Yes (No) NA	Res. Cl_2 Check ok Yes No (NA)
Sample Labels and COC Agree (Yes) No COC not present	

Sampler Name: Jameel Ahmed
Signature: [signature]
Project Name: Residential Well Supply
Project Number: 01789-031-002
Project Location: Union, IL
Date Required Hard Copy: 4/28/00
Fax: 4/20/00
Lab PM: Dick Wright

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOC 8260	Metals Total	Metals Soluble	Additional Analyses / Remarks
Refrg #										
# Cont.							2	1	1	
Volume							2x40ml	1L	1L	
Preserv							HCl	NO	NO	
001/002		RW-JEN-14	4/7/00	1220	W	G	✓	✓	✓	Metals for Total & Soluble include ARSENIC, COPPER BARIUM, CADMIUM CHROMIUM MERCURY, NICKEL & LEAD.
003		Trip Blank			W		✓			

NOTE: PLEASE PRESERVE BOTH SAMPLES AND FILTER DISSOLVED METAL SAMPLE

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Jameel Ahmed	WESTON	4/7/00	1800	Fedex		4/7/00	1800
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
				Sherri Scott	STL	4/8/00	1425

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received 4/8/00
Courier: Fed-X Hand Delivered ☐
Bill of Lading: See attached

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

Mr. Mike Valentino
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

25 October 1999

Work Order No. 01989-031-002

Re: Results of semi-annual Private Well Sampling for Techalloy Company in Union, Illinois

Dear Mr. Valentino:

Roy F. Weston, Inc. (WESTON) is providing U.S. EPA with the September 1999 semi-annual groundwater analytical results for private well sampling performed for the Techalloy Company in Union, Illinois. The sampling was conducted in accordance with the Private Well Sampling Plan (PWSP) dated May 1993.

A total of six private wells were sampled on September 28, 1999. The groundwater sample collected from each of these private well was analyzed for volatile organic compounds (VOCs) by GC/MS (Method 8260A), total and dissolved metals. The analytical results are summarized in Table 1. Analyses were performed by Severn Trent Laboratories (STL), formerly Recra LabNet of University Park, Illinois.

Results of the groundwater samples indicate that all volatile organic compounds (VOCs) were at non-detectable levels in all the private wells sampled, except in RW-11-13 and RW-10-13 where trichloroethene was detected at a concentration of 0.6 μg/L and xylene at 0.9 μg/, respectively. The U.S. EPA MCLs for trichloroethene and xylene are 5 μg/L and 10,000 μg/L, respectively. Total copper and lead were the only metals detected in RW-10-13 at a concentration of 0.049 and 0.0027 mg/L, respectively. The U.S. EPA action level for copper and lead are 1.3 mg/L and 0.015 mg/L, respectively.

All residential well owners that were sampled on September 28, 1999 have been notified in writing of the results (copies of the letters enclosed) of this sampling event and that their water did not show any constituents above the U.S. EPA MCLs.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\WO\W1500\TECHALL\27541.LTR

Table 1
Summary of Total/Soluble Metals
Private Well Semi-Annual Sampling (September 1999)
Techalloy Company, Inc.
Union, Illinois

Sample Date:	09/28/99	9/28/1999	9/28/1999	09/28/99	09/28/99	09/28/99	09/28/99
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-13	RW-03-13	RW-03-13DUP	RW-04-13	RW-10-13	RW-11-13	RW-JEN-13
Units:	(mg/L)	(mg/L)	mg/L	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Total Metals							
Arsenic, Total	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Barium, Total	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Total	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Total	0.020 U	0.020 U	0.020 U	0.020 U	**0.049**	0.020 U	0.020 U
Mercury, Total	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Total	0.0020 U	0.0020 U	0.0020 U	0.0020 U	**0.0027**	0.0020 U	0.0020 U
Soluble Metals							
Arsenic, Soluble	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Barium, Soluble	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Soluble	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Mercury, Soluble	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Soluble	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U

U - Non-detectable level.
Field Blank FB-01-13 analyzed during this sampling event indicated non-detectable levels of total and soluble metals.

Summary of Volatile Organic Compounds
Private Well Semi-Annual Sampling (September 1999)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	09/28/99	09/28/99	9/28/1999	9/28/1999	09/28/99	09/28/99	09/28/99
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-13	RW-03-13	RW-03-13DUP	RW-04-13	RW-10-13	RW-11-13	RW-JEN-13
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Acetate	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Butanone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Summary of Volatile Organic Compounds
Private Well Semi-Annual Sampling (September 1999)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	09/28/99	09/28/99	9/28/1999	9/28/1999	09/28/99	09/28/99	09/28/99
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-13	RW-03-13	RW-03-13DUP	RW-04-13	RW-10-13	RW-11-13	RW-JEN-13
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U - Non-detectable level.

J - Estimated Concentration

Field Blank FB-01-13 analyzed during this sampling event indicated non-detectable levels of VOCs

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

25 October 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of September 1999

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

25 October 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of September 1999.

Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive Non-responsive in Union, Illinois. The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant level (MCL). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

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cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\WO\W1500\TECHALL\27541.2LTR

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

Non-responsive [redacted]

25 October 1999

Re: Results of Private Well semi-annual sampling of September 1999

Dear Non-responsive [redacted]

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive [redacted] Non-responsive The laboratory results indicate that no compounds are present above the U.S. EPA maximum contaminant level (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

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cc: Mike Valentino, U.S. EPA
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Scott Carr, Techalloy
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Roy F. Weston, Inc.
Suite 400
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847-918-4000 • Fax 847-918-4055

25 October 1999

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\WO\W1500\TECHALL\27541.4LTR

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

25 October 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of September 1999

Dea Non-responsive

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County, Health Dept.

Roy F. Weston, Inc.
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25 October 1999

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Client Services Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Committed To *Your* Success

Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466

Tel: (708) 534-5200
Fax: (708) 534-5211
www.stl-inc.com

October 14, 1999

Mr. Scott Carr
Techalloy
P.O. Box 423
Olsen & Jefferson Road
Union, IL 60180

RE: Analytical Report
Lot 9909G153

Dear Mr. Carr:

The enclosed analytical report is for the project and lot number listed above. If you have any questions, please contact me at 708-534-5200.

Sincerely,
Severn Trent Laboratories

Richard C. Wright
Project Manager

pmb

Enclosures

cc: Jameel Ahmed/RFW Vernon Hills

Approved By:

Michael J. Healy
General Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All 67 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Severn Trent Laboratories Chicago

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
M	Summary Compound
(M)	Manually integrated compound
N	Positive ID of a TIC that is not quantitated against a standard and must be accompanied by a CAS No.
T	Compound was found in the TCLP extraction blank and the sample
u	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses
Y	The chromatographic response resembles a typical fuel pattern
Z	The chromatographic response does not resemble a typical fuel pattern

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CAP	Capillary Column
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
PACK	Packed Column
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate (unrounded) analyses
RRF	Relative response factor
RT	Retention time
RTW	Retention time window
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-13							
ARSENIC, TOTAL	001	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	001	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	001	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	001	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	001	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	001	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
MERCURY, TOTAL	001 REP	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
MERCURY, TOTAL	001 MS	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	001	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	001	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	002	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	002 REP	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	002 MS	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SERIAL DILUT	002 L	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	002	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	002 REP	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	002 MS	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	002 MSD	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SERIAL DILU	002 L	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	002	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	002 REP	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	002 MS	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	002 MSD	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SERIAL DIL	002 L	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	002	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	002 REP	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	002 MS	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	002 MSD	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SERIAL DILUT	002 L	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	002	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	002 REP	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	002 MS	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	002 MSD	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	002	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SERIAL DILUT	002 L	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
NICKEL, SOLUBLE	002	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
NICKEL, SOLUBLE	002 REP	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99

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Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
NICKEL, SOLUBLE	002 MS	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
NICKEL, SOLUBLE	002 MSD	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	002	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	002 REP	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	002 MS	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-03-13							
ARSENIC, TOTAL	003	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	003	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	003	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	003	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	003	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	003	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	003	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	003	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	004	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	004	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	004	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	004	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	004	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	004	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	004	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	004	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-03-13DUP							
ARSENIC, TOTAL	005	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	005	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	005	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	005	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	005	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	005	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	005	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	005	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	006	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	006	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	006	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	006	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	006	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99

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INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
MERCURY, SOLUBLE	006	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	006	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	006	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-04-13							
ARSENIC, TOTAL	007	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	007	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	007	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	007	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	007	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	007	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	007	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	007	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	008	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	008	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	008	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	008	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	008	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	008	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	008	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	008	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-10-13							
ARSENIC, TOTAL	009	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	009	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	009	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	009	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	009	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	009	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	009	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	009	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	010	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	010	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	010	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	010	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	010	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	010	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	010	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
LEAD, SOLUBLE	010	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-11-13							
ARSENIC, TOTAL	011	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	011	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	011	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	011	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	011	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	011	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	011	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	011	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	012	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	012	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	012	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	012	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	012	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	012	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	012	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	012	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
RW-JEN-13							
ARSENIC, TOTAL	013	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	013	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	013	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	013	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	013	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	013	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	013	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	013	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	014	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	014	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	014	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	014	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	014	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	014	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	014	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	014	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
FB-01-13							
ARSENIC, TOTAL	015	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, TOTAL	015	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, TOTAL	015	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, TOTAL	015	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, TOTAL	015	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, TOTAL	015	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, TOTAL	015	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, TOTAL	015	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
ARSENIC, SOLUBLE	016	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99
BARIUM, SOLUBLE	016	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CADMIUM, SOLUBLE	016	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
CHROMIUM, SOLUBLE	016	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
COPPER, SOLUBLE	016	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
MERCURY, SOLUBLE	016	W	99HG884	09/28/99	09/29/99	09/30/99	09/30/99
NICKEL, SOLUBLE	016	W	99GI744	09/28/99	09/29/99	10/04/99	10/05/99
LEAD, SOLUBLE	016	W	99GF167	09/28/99	09/29/99	10/04/99	10/05/99

LAB QC:

ARSENIC LABORATORY	LC1 BS	W	99GF167	N/A	N/A	10/04/99	10/05/99
LEAD LABORATORY	LC1 BS	W	99GF167	N/A	N/A	10/04/99	10/05/99
ARSENIC, TOTAL	MB1	W	99GF167	N/A	N/A	10/04/99	10/05/99
LEAD, TOTAL	MB1	W	99GF167	N/A	N/A	10/04/99	10/05/99
BARIUM LABORATORY	LC1 BS	W	99GI744	N/A	N/A	10/04/99	10/05/99
CADMIUM LABORATORY	LC1 BS	W	99GI744	N/A	N/A	10/04/99	10/05/99
CHROMIUM LABORATORY	LC1 BS	W	99GI744	N/A	N/A	10/04/99	10/05/99
COPPER LABORATORY	LC1 BS	W	99GI744	N/A	N/A	10/04/99	10/05/99
NICKEL LABORATORY	LC1 BS	W	99GI744	N/A	N/A	10/04/99	10/05/99
BARIUM, TOTAL	MB1	W	99GI744	N/A	N/A	10/04/99	10/05/99
CADMIUM, TOTAL	MB1	W	99GI744	N/A	N/A	10/04/99	10/05/99
CHROMIUM, TOTAL	MB1	W	99GI744	N/A	N/A	10/04/99	10/05/99
COPPER, TOTAL	MB1	W	99GI744	N/A	N/A	10/04/99	10/05/99
NICKEL, TOTAL	MB1	W	99GI744	N/A	N/A	10/04/99	10/05/99
MERCURY LABORATORY	LC1 BS	W	99HG884	N/A	N/A	09/30/99	09/30/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
MERCURY LABORATORY	LC2 BS	W	99HG884	N/A	N/A	09/30/99	09/30/99
MERCURY, TOTAL	MB1	W	99HG884	N/A	N/A	09/30/99	09/30/99

SIGNATURE [illegible] DATE 10/11/99

NY CERTIFICATION # 11006

Severn Trent laboratoris - Chicago
METALS CASE NARRATIVE

Client: Techalloy
STL#: 9909G153

WO#: 01989-031-002-0000
Date Rec'd: 09/29/99

1. This narrative covers the analysis of 16 Water samples for the following metals:

   ICP ..... Ag,Ba,C[illegible] Cr,Cu,Ni
   GFAA .... As,Pb
   Method Refs: USEPA,SW-846

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

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

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

5. All Preparation/Method Blanks were below CRDL .

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

7. Laboratory Control Sample (LCS) recoveries were within the 80-120% control limits.

8. All Matrix Spike recoveries were within 80-120% control limits (spike recoveries are not applicable when the sample concentration exceed the spike added concentration by a factor of 4 or more).

9. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits for sample concentration greater than 5X the reporting limits or +\- the reporting limit for for sample concentration less than 5X the reporting limits.

Mani S.Iyer
Metals Section Manager

10/11/99
Date

Severn Trent Laboratories Chicago
METALS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained with this RFW Lot: 99099153

SW846	__6010A ✓6010B __Ag __Al __As __B ✓Ba __Be __Ca ✓Cd __Co ✓Cr ✓Cu __Fe __K __Li __Mg __Mn __Mo __Na ✓Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag7761 ✓As7060A __Cd7131A __Cr7191 __Cu7211 ✓Hg7470A __Hg7471A ✓Pb7421 __Sb7041 __Se7740 __Tl7841 __CN 9010A __CN 9010B/9014
EPA	**200.7** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag272.2 __As206.2 __Cd213.2 __Cr218.2 __Cu220.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 **200.9** __As __Cd __Pb __Sb __Se __Tl
CLP ILM04.0	**200.7 CLP-M** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __As206.2 __Cd213.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 __CN335.2
Digestion Method	**SW846** __3005A ✓3010A __3020A ✓3020A(+H_2O_2) __3050A __7060A/7740 __7470A __7471A __3050B **EPA** __200.7 __200.0(+H_2O_2) __200.9(-HCL;+H_2O_2) **USEPA/CLP** __ILM04.0 Exhibit D, Section III
Extraction Method	**SW846** __1311TCLP __1312SPLP __1320MEP Using TCLP **ASTM** **CAM Title 22** __D3987 Neutral Leach __W.E.T.
%Solids	__SM 2540G __ASTM D2216 __Exhibit D Part F

CHI-22-05-002/K-1/99

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Thursday October 7th, 1999

RE: RW-01-13
Project # 01989-031-002-0000
Lab ID: 9909G153-001
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-002**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-03-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-003**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-03-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-004**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-03-13DUP**
Project # 01989-031-002-0000
Lab ID: **9909G153-005**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-03-13DUP**
Project # 01989-031-002-0000
Lab ID: **9909G153-006**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-04-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-007**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-04-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-008**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-10-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-009**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.049		mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0027		mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-10-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-010**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-11-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-011**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-11-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-012**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-JEN-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-013**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **RW-JEN-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-014**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **FB-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-015**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

RE: **FB-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-016**
Sample Date: 09/28/99
Date Received: 09/29/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

Project # 01989-031-002-0000
Lab Batch: **9909G153**

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	99GF167-MB1	Arsenic, Total	0.0020	u	mg/L	0.0020
		Lead, Total	0.0020	u	mg/L	0.0020
Blank 1	99GI744-MB1	Barium, Total	0.050	u	mg/L	0.050
		Cadmium, Total	0.010	u	mg/L	0.010
		Chromium, Total	0.020	u	mg/L	0.020
		Copper, Total	0.020	u	mg/L	0.020
		Nickel, Total	0.020	u	mg/L	0.020
Blank 1	99HG884-MB1	Mercury, Total	0.00020	u	mg/L	0.00020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

Project # 01989-031-002-0000
Lab Batch: **9909G153**

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-001REP	RW-01-13	Mercury, Total	0.00020 u	0.00020 u	NC
-002REP	RW-01-13	Arsenic, Soluble	0.0020 u	0.0020 u	NC
		Barium, Soluble	0.050 u	0.050 u	NC
		Cadmium, Soluble	0.010 u	0.010 u	NC
		Chromium, Soluble	0.020 u	0.020 u	NC
		Copper, Soluble	0.020 u	0.020 u	NC
		Nickel, Soluble	0.020 u	0.020 u	NC
		Lead, Soluble	0.0020 u	0.0020 u	NC

To: Techalloy

Olsen & Jefferson Road
Union, IL 60180

Attn: Mr. Scott Carr

Date: Thursday October 7th, 1999

Project # 01989-031-002-0000
Lab Batch: 9909G153

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	RW-01-13	Mercury, Total	0.00096	0.00020	u	0.0010	95.7
-002	RW-01-13	Arsenic, Soluble	0.048	0.0020	u	0.040	121
		Barium, Soluble	2.1	0.050	u	2.0	103
		Barium, Soluble MSD	2.0	0.050	u	2.0	102
		Cadmium, Soluble	0.041	0.010	u	0.050	81.7
		Cadmium, Soluble MSD	0.042	0.010	u	0.050	84.0
		Chromium, Soluble	0.20	0.020	u	0.20	99.4
		Chromium, Soluble MS	0.20	0.020	u	0.20	98.7
		Copper, Soluble	0.24	0.020	u	0.25	96.2
		Copper, Soluble MSD	0.24	0.020	u	0.25	95.2
		Nickel, Soluble	0.49	0.020	u	0.50	98.0
		Nickel, Soluble MSD	0.51	0.020	u	0.50	101
		Lead, Soluble	0.021	0.0020	u	0.020	106

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

Project # 01989-031-002-0000
Lab Batch: **9909G153**

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-002	RW-01-13	Barium, Soluble	103	102	0.32
		Cadmium, Soluble	81.7	84.0	2.7
		Chromium, Soluble	99.4	98.7	0.76
		Copper, Soluble	96.2	95.2	1.1
		Nickel, Soluble	98.0	101	3.0

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday October 7th, 1999

Project # 01989-031-002-0000
Lab Batch: **9909G153**

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
99GF167-LC1	Arsenic, LCS	0.040	mg/L	112	NA	NA
	Lead, LCS	0.020	mg/L	110	NA	NA
99GI744-LC1	Barium, LCS	2.0	mg/L	102	NA	NA
	Cadmium, LCS	0.050	mg/L	84.9	NA	NA
	Chromium, LCS	0.20	mg/L	98.6	NA	NA
	Copper, LCS	0.25	mg/L	98.2	NA	NA
	Nickel, LCS	0.50	mg/L	104	NA	NA
99HG884-LC1	Mercury, LCS	0.0020	mg/L	96.5	NA	NA

Severn Trent Laboratories Chicago
8260 ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9909G153

CLIENT ID	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-13	001	W	99GVF322	09/28/99	09/29/99	N/A	10/08/99
RW-03-13	003	W	99GVF322	09/28/99	09/29/99	N/A	10/08/99
RW-03-13DUP	005	W	99GVF322	09/28/99	09/29/99	N/A	10/08/99
RW-04-13	007	W	99GVF315	09/28/99	09/29/99	N/A	10/10/99
RW-10-13	009	W	99GVF315	09/28/99	09/29/99	N/A	10/10/99
RW-11-13	011	W	99GVF315	09/28/99	09/29/99	N/A	10/10/99
RW-JEN-13	013	W	99GVF315	09/28/99	09/29/99	N/A	10/10/99
FB-01-13	015	W	99GVF315	09/28/99	09/29/99	N/A	10/10/99
TB092499	017	W	99GVF314	09/28/99	09/29/99	N/A	10/09/99
LAB QC:							
VBLKNR	MB1	W	99GVF322	N/A	N/A	N/A	10/08/99
VBLKNR	MB1 BS	W	99GVF322	N/A	N/A	N/A	10/08/99
VBLKMT	MB1	W	99GVF315	N/A	N/A	N/A	10/10/99
VBLKMT	MB1 BS	W	99GVF315	N/A	N/A	N/A	10/10/99
VBLKOH	MB1	W	99GVF314	N/A	N/A	N/A	10/09/99
VBLKOH	MB1 BS	W	99GVF314	N/A	N/A	N/A	10/10/99

SIGNATURE Gregory L. Good DATE 10/13/99

NY CERTIFICATION # 11006

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Techalloy
STL# 9909G153
VOA DATA:

1. All volatile analyses were performed within the recommended hold times.

2. All Method Blank target compounds were below reporting limits.

3. All LCS (Laboratory Control Sample) samples had all controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed in this sample set.

5. All of the volatile samples had surrogate recoveries within the in-house generated QC limits.

6. The water samples were prepared using Method 5030B. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the initial calibrations verifies the base reporting limits. The target compounds were quantitated using the initial calibration. The LCS sample 99GVF314-MB1 BS was analyzed outside of the 12 hour tune limit. The associated sample 9909G153-017 (TB092499) was not reanalyzed due to insufficient sample volume.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding continuing calibration standard.

8. The water samples were analyzed without dilution using a 25.0 mL purge volume.

Gregory L. Goodwin
GC/MS Section Manager.

10/13/99
Date

Severn Trent Laboratories Chicago

GC/MS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS VOLATILES

- ____ SW-846 8260A
- ✓ SW-846 8260B
- ____ EPA 524.2
- ____ 40 CFR Part 136, Method 624
- ____ CLP OLM03.1/3.2
- ____ OLC02.0/2.1

GC/MS SEMIVOLATILES

- ____ SW-846 8270A
- ____ SW-846 8270B
- ____ SW-846 8270C
- ____ 40 CFR Part 136, Method 625
- ____ CLP OLM03.1/3.2
- ____ OLC02.0/2.1

CHI-22-05-001/E-1/99

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-001**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-001**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-001**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-003**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-003**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-003**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13DUP**
Project # 01989-031-002-0000
Lab ID: **9909G153-005**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13DUP**
Project # 01989-031-002-0000
Lab ID: **9909G153-005**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-03-13DUP**
Project # 01989-031-002-0000
Lab ID: **9909G153-005**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-04-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-007**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-04-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-007**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-04-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-007**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-10-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-009**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	0.4	0.5	J
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-10-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-009**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	0.9	0.5	
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-10-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-009**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-11-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-011**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-11-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-011**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	0.6	0.5	
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-11-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-011**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-JEN-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-013**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-JEN-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-013**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **RW-JEN-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-013**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **FB-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-015**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **FB-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-015**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **FB-01-13**
Project # 01989-031-002-0000
Lab ID: **9909G153-015**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **TB092499**
Project # 01989-031-002-0000
Lab ID: **9909G153-017**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **TB092499**
Project # 01989-031-002-0000
Lab ID: **9909G153-017**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday October 13th, 1999

RE: **TB092499**
Project # 01989-031-002-0000
Lab ID: **9909G153-017**
Sample Date: 09/28/99
Date Received: 09/29/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9909G153 Client: Techalloy Work Order: 01989-031-002-0 Report Date: 10/13/99 15:07 Page: 1a

	Cust ID:	RW-01-13		RW-03-13		RW-03-13DUP		RW-04-13		RW-10-13		RW-11-13	
Sample Information	RFW#:	001		003		005		007		009		011	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	99	%	106	%	106	%	119	%	116	%	112	%
	Toluene-d8	107	%	106	%	106	%	113	%	114	%	112	%
	4-Bromofluorobenzene	106	%	106	%	108	%	106	%	106	%	103	%
	Dibromofluoromethane	103	%	102	%	104	%	105	%	103	%	102	%
			fl		fl		fl		fl		fl		fl
Chloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone		2	U	2	U	2	U	2	U	2	U	2	U
Carbon Disulfide		2	U	2	U	2	U	2	U	2	U	2	U
Methylene Chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene (total)		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl acetate		2	U	2	U	2	U	2	U	2	U	2	U
2-Butanone		2	U	2	U	2	U	2	U	2	U	2	U
Chloroform		0.5	U	0.5	U	0.5	U	0.5	U	0.4	J	0.5	U
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.6	
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone		2	U	2	U	2	U	2	U	2	U	2	U
Toluene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9909G153 Client: Techalloy Work Order: 01989-031-002-0 Page: 1b

Cust ID:	RW-01-13	RW-03-13	RW-03-13DUP	RW-04-13	RW-10-13	RW-11-13
RFW#:	001	003	005	007	009	011
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

*= Outside of EPA CLP QC Limits.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9909G153 Client: Techalloy Work Order: 01989-031-002-0 Report Date: 10/13/99 15:07 Page: 2a

	Cust ID:	RW-JEN-13		FB-01-13		TB092499		VBLKNR		VBLKNR BS		VBLKMT	
Sample Information	RFW#:	013		015		017		99GVF322-MB1		99GVF322-MB1		99GVF315-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	110	%	116	%	105	%	109	%	108	%	116	%
	Toluene-d8	112	%	114	%	106	%	110	%	106	%	118	%
	4-Bromofluorobenzene	104	%	106	%	103	%	109	%	105	%	112	%
	Dibromofluoromethane	100	%	105	%	105	%	108	%	106	%	114	%
			fl		fl		fl		fl		fl		fl
Chloromethane		0.5	U	0.5	U	0.5	U	0.5	U	78	%	0.5	U
Vinyl chloride		0.5	U	0.5	U	0.5	U	0.5	U	87	%	0.5	U
Bromomethane		0.5	U	0.5	U	0.5	U	0.5	U	102	%	0.5	U
Chloroethane		0.5	U	0.5	U	0.5	U	0.5	U	89	%	0.5	U
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	107	%	0.5	U
Acetone		2	U	2	U	2	U	2	U	36	%	2	U
Carbon Disulfide		2	U	2	U	2	U	2	U	88	%	2	U
Methylene Chloride		0.5	U	0.5	U	0.5	U	0.5	U	100	%	0.5	U
1,2-Dichloroethene (total)		0.5	U	0.5	U	0.5	U	0.5	U	105	%	0.5	U
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	99	%	0.5	U
Vinyl acetate		2	U	2	U	2	U	2	U	102	%	2	U
2-Butanone		2	U	2	U	2	U	2	U	86	%	2	U
Chloroform		0.5	U	0.5	U	0.5	U	0.5	U	109	%	0.5	U
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	109	%	0.5	U
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	0.5	U	111	%	0.5	U
Benzene		0.5	U	0.5	U	0.5	U	0.5	U	102	%	0.5	U
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	107	%	0.5	U
Trichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	107	%	0.5	U
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	0.5	U	106	%	0.5	U
Bromodichloromethane		0.5	U	0.5	U	0.5	U	0.5	U	109	%	0.5	U
cis-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	98	%	0.5	U
4-Methyl-2-pentanone		2	U	2	U	2	U	2	U	96	%	2	U
Toluene		0.5	U	0.5	U	0.5	U	0.5	U	104	%	0.5	U
trans-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	109	%	0.5	U
1,1,2-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	106	%	0.5	U

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9909G153 Client: Techalloy Work Order: 01989-031-002-0 Page: 2b

Cust ID:	RW-JEN-13		FB-01-13		TB092499		VBLKNR		VBLKNR BS		VBLKMT	
RFW#:	013		015		017		99GVF322-MB1		99GVF322-MB1		99GVF315-MB1	
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	107	%	0.5	U
2-Hexanone	2	U	2	U	2	U	2	U	91	%	2	U
Dibromochloromethane	0.5	U	0.5	U	0.5	U	0.5	U	110	%	0.5	U
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	109	%	0.5	U
Ethylbenzene	0.5	U	0.5	U	0.5	U	0.5	U	105	%	0.5	U
Xylene (total)	0.5	U	0.5	U	0.5	U	0.5	U	114	%	0.5	U
Styrene	0.5	U	0.5	U	0.5	U	0.5	U	107	%	0.5	U
Bromoform	0.5	U	0.5	U	0.5	U	0.5	U	108	%	0.5	U
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0.5	U	0.5	U	104	%	0.5	U

*= Outside of EPA CLP QC limits.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9909G153 Client: Techalloy Work Order: 01989-031-002-0 Report Date: 10/13/99 15:07 Page: 3a

	Cust ID:	VBLKMT BS		VBLKOH		VBLKOH BS	
Sample Information	RFW#:	99GVF315-MB1		99GVF314-MB1		99GVF314-MB1	
	Matrix:	WATER		WATER		WATER	
	D.F.:	1		1		1	
	Units:	UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	113	%	107	%	120	%
	Toluene-d8	111	%	112	%	109	%
	4-Bromofluorobenzene	104	%	111	%	111	%
	Dibromofluoromethane	105	%	108	%	112	%
Chloromethane		68	%	0.5	U	67	%
Vinyl chloride		77	%	0.5	U	78	%
Bromomethane		97	%	0.5	U	98	%
Chloroethane		81	%	0.5	U	78	%
1,1-Dichloroethene		99	%	0.5	U	94	%
Acetone		55	%	2	U	55	%
Carbon Disulfide		80	%	2	U	77	%
Methylene Chloride		104	%	0.5	U	96	%
1,2-Dichloroethene (total)		101	%	0.5	U	97	%
1,1-Dichloroethane		100	%	0.5	U	93	%
Vinyl acetate		114	%	2	U	104	%
2-Butanone		99	%	2	U	95	%
Chloroform		106	%	0.5	U	108	%
1,1,1-Trichloroethane		102	%	0.5	U	105	%
Carbon Tetrachloride		104	%	0.5	U	105	%
Benzene		95	%	0.5	U	97	%
1,2-Dichloroethane		112	%	0.5	U	112	%
Trichloroethene		109	%	0.5	U	104	%
1,2-Dichloropropane		108	%	0.5	U	105	%
Bromodichloromethane		117	%	0.5	U	112	%
cis-1,3-Dichloropropene		109	%	0.5	U	102	%
4-Methyl-2-pentanone		116	%	2	U	107	%
Toluene		109	%	0.5	U	114	%
trans-1,3-Dichloropropene		122	%	0.5	U	114	%
1,1,2-Trichloroethane		123	%	0.5	U	118	%

*= Outside of EPA CLP QC limits.

Cust ID:	VBLKMT BS		VBLKOH		VBLKOH BS	
RFW#:	99GVF315-MB1		99GVF314-MB1		99GVF314-MB1	
Tetrachloroethene	100	%	0.5	U	99	%
2-Hexanone	102	%	2	U	94	%
Dibromochloromethane	112	%	0.5	U	112	%
Chlorobenzene	104	%	0.5	U	105	%
Ethylbenzene	100	%	0.5	U	100	%
Xylene (total)	106	%	0.5	U	110	%
Styrene	107	%	0.5	U	106	%
Bromoform	114	%	0.5	U	114	%
1,1,2,2-Tetrachloroethane	103	%	0.5	U	99	%

*= Outside of EPA CLP QC limits.

STL
Committed To *Your* Success

Chicago Laboratory
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To: Scott Carr

Contact: Jameel Ahmed
Company: Roy F. Weston
Address: 3 Hawthorn Parkway
Vernon Hills, IL 60061
Phone: (847) 918-4000
Fax: (847) 918-4055
E-Mail: ahmedj@mail.rfweston.com

Bill To:

Contact: Scott Carr
Company: Techalloy Company
Address: 6509 Olson Rd
Union, IL 60180
Phone: (815) 923-2131
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only of

Lab Lot # 99096153

Package Sealed Yes No 68228	Samples Sealed Yes No
Received on Ice Yes No	Samples Intact Yes No
Temperature °C of Cooler 11.3, 11.6, 11.1	
Within Hold Time Yes No	Preserv. indicated Yes No NA
pH Check ok Yes No NA	Res. Cl_2 Check ok Yes No NA
Sample Labels and COC Agree Yes No COC not present	

Sampler Name: Jameel Ahmed
Signature: JRA
Project Name: Techalloy
Project Number: 01989-031-002
Project Location: Union, IL
Date Required Hard Copy: 10/20/99
Fax: 10/13/99
Lab PM: Dick Wright

Refrg #	5	2	2
# Cont.	2	1	1
Volume	3x40	1L	1L
Preserv	HCl	HNO3	HNO3

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs 8260	Metals TM&D	Metal Scan	Additional Analyses / Remarks
001,002		RW-01-13	9/28/99	1100	W	G	✓	✓	✓	Metals for TM&D
003,004		RW-03-13		1135			✓	✓	✓	Dissolved include
005,006		RW-03-13 DUP		1135			✓	✓	✓	Arsenic, Copper, Barium
007,008		RW-04-13		1210			✓	✓	✓	Cadmium, Chromium,
009,010		RW-10-13		1300			✓	✓	✓	Mercury, Nickel & Lead
011,012		RW-11-13		1335			✓	✓	✓	
013,014		RW-JEN-13		1415			✓	✓	✓	Custody Seal 0064228
015,016		FB-01-13		1430			✓	✓	✓	
017		Trip Blank (10/02/99)					✓			

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
Jameel Ahmed	WESTON	9/28/99	1800	FEDEX		9/28/99	1800
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
				Ellen Scott	STL	9-29-99	1228

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Date Received 9/29/99
Courier: Fed-X Hand Delivered ☒
Bill of Lading: See attached

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

1 April 1999

Mr. Mike Valentino
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-031-002

Re: Results of Private Well Sampling for Techalloy Company in Union, Illinois

Dear Mr. Valentino:

Roy F. Weston, Inc. (WESTON®) is providing U.S. EPA with the March 1999 semi-annual groundwater analytical results for private well sampling performed for the Techalloy Company in Union, Illinois. The sampling was conducted in accordance with the Private Well Sampling Plan (PWSP) dated May 1993.

A total of five private wells were sampled on 11 March 1999. The groundwater samples collected from each of these private wells was analyzed for volatile organic compounds (VOCs) by GC/MS (Method 8260A), total and dissolved metals. The analytical results are summarized in Table 1. Analyses were performed by Severn Trent Laboratories (STL), formerly Recra LabNet of University Park, Illinois. One of the resident, Non-responsive [redacted] indicated, that she did not want her well sampled during this sampling event.

Results of the groundwater samples indicate that all VOC compounds were at non-detectable levels. Soluble arsenic and soluble copper were the only metals detected in RW-10-12 at a concentration of 0.0024 and 0.021 mg/L, respectively. All of these concentrations are well below the U.S. EPA MCLs established for these metals.

All residential well owners that were sampled on 11 March 1999 have been notified in writing of the results (copies of the letters enclosed) of this sampling event and that their water did not show any constituents above the U.S. EPA MCLs.

Click to WESTON On The Web http://www.rfweston.com

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

1 April 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of March 1999

Dear Non-responsive

Roy F. Weston, Inc. (WESTON®) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

1 April 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of March 1999.

Dear Non-responsive

Roy F. Weston, Inc. (WESTON®) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant level (MCL). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

1 April 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of March 1999

Dear Non-responsive

Roy F. Weston, Inc. (WESTON®) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds are present above the U.S. EPA maximum contaminant level (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: Mike Valentino, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

1 April 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of March 1999

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Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
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Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
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1 April, 1999

Non-responsive

Re: Results of Private Well semi-annual sampling of March 1999

Dear Non-responsive

Roy F. Weston, Inc. (WESTON®) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

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Scott Carr, Techalloy
Patrick McNulty, McHenry County, Health Dept.

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ıle 1
Summary of Volatile Organic Compounds
Private Well Sampling (March 1999)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99
Matrix:	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-12	RW-03-12	RW-04-12	RW-10-12	RW-11-12	RW-01-12DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Acetone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Choromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane(total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Hexanone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.6 U	0.9 U	0.9 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

›le 1
Summary of Volatile Organic Compounds
Private Well Sampling (March 1999)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99
Matrix:	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-12	RW-03-12	RW-04-12	RW-10-12	RW-11-12	RW-01-12DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichlroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl Chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylenes	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U - Non-detectable level.

Note: Field Blank associated with these samples detected acetone at 6 ug/L, methylene chloride and chloroform at 1 ug/L each, and toluene at 0.6 ug/L.

Table 1
Summary of Total/Soluble Metals
Private Well Sampling (March 1999)
Techalloy Company, Inc.
Union, Illinois

Sample Date:	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99	03/11/99
Matrix:	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-12	RW-03-12	RW-04-12	RW-10-12	RW-11-12	RW-1-12 DUP
Units:	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Total Metals						
Arsenic, Total	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Barium, Total	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Total	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Mercury, Total	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Total	0.0020 U	0.0061 U	0.0046 U	0.0043 U	0.0020 U	0.0020 U
Soluble Metals						
Arsenic, Soluble	0.0020 U	0.0020 U	0.0024	0.0020 U	0.0020 U	0.0020 U
Barium, Soluble	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Soluble	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Soluble	0.020 U	0.020 U	0.021	0.020 U	0.020 U	0.020 U
Mercury, Soluble	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Soluble	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U

U - Non-detectable level.

Techalloy
Lot # 9903G590

7 WATER SAMPLES – TOTAL AND SOLUBLE METALS

1. Holding Times:

Sample ID	Client ID	Sample Date
~~1/2~~ 001/002 (TB)	RW-01-12	3/11/99
~~3/4~~ 003/004	RW-01-12Dup	3/11/99
005/006	RW-03-12	3/11/99
007/008	RW-04-12	3/11/99
009/010	RW-10-12	3/11/99
011/012	RW-11-12	3/11/99
013/014	FB-01-12	3/11/99

All samples were analyzed within the required holding times.

2. Method Blank:

All method blank results were non-detect.

3. Precision Data Report:

All precision data results were acceptable.

4. Accuracy Report:

All accuracy and duplicate spike reports were within acceptable control limits. RPDs were also within acceptable limits.

5. Laboratory Control Samples (LCS):

A LCS was available for all compounds. All recoveries and RPDs were acceptable.

6. Field Blank:

FB-01-12 was the field blank. A field blank was collected for both total and soluble fractions. All soluble results were non-detect. Lead, total was detected at 0.0034 mg/L in the field blank. Results in the corresponding metal water samples less than 0.17 are flagged as nondetect, U. Results greater than 0.17 are flagged as estimated, J.

Techalloy
Lot # 9903G590
Cont.

8 WATER SAMPLES – VOLATILE ORGANICS

1. Holding Times:

Sample ID	Client ID	Sample Date
001	RW-01-12	3/11/99
003	RW-01-12Dup	3/11/99
005	RW-03-12	3/11/99
007	RW-04-12	3/11/99
009	RW-10-12	3/11/99
011	RW-11-12	3/11/99
013	FB-01-12	3/11/99
015	TB03099	3/11/99

All holding times are acceptable.

2. Method Blank:

All method blank results are non-detect.

3. Surrogate Recovery:

All surrogate recoveries are acceptable.

4. Blank Spike

All blank spike results are acceptable.

5. Laboratory Control Samples (LCS):

All recoveries and RPDs were acceptable. No MS/MSD analysis was performed.

6. Internal Standards:

The laboratory narrative states that all internal standard areas and retention times had acceptable.

Results.

7. Calibration Criteria:

The laboratory narrative states that all calibration criteria was met.

Techalloy
Lot # 9903G590
Cont.

8. Trip Blank:

Toluene was detected in the trip blank (TB030899) at 0.8 ug/L. Results less than 4 ug/L in the corresponding samples are flagged as non-detect, U. Results greater than 4 ug/L are flagged as estimated, J. All other compounds were non-detect.

9. Field Blank:

Acetone (6ug/L), methylene chloride (1 ug/L), chloroform (1 ug/L) and toluene (0.6 ug/L) were detected in the field blank (FB-01-12). Concentrations in the corresponding samples less than 10 times the acetone and methylene chloride results and less than 5 times the chloroform and toluene result are flagged as non-detect, U. Results greater than 10 times the acetone or methylene chloride result or greater than 5 times the chloroform or toluene result are flagged as estimated, J. All other field blank results were non-detect.

Data Reviewed by: Tonya Balla T. Balla 1 April 1999 1 apr 99

Committed To *Your* Success

Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466

Tel: (708) 534-5200
Fax: (708) 534-5211
www.stl-inc.com

March 19, 1999

Mr. Scott Carr
Techalloy
P.O. Box 423
Olsen & Jefferson Roads
Union, IL 60180

RE: Analytical Report
Lot 9903G590

Dear Mr. Carr:

The enclosed analytical report is for the project and lot number listed above. If you have any questions, please contact me at 708-534-5200.

Sincerely,
Severn Trent Laboratories

Richard C. Wright
Project Manager

sj

Enclosures

cc: Carlos Serna/RFW Vernon Hills

Approved By:

Michael J. Healy
General Manager

The results presented in this report relate only to the analytical testing and conditions of sample at receipt. This report pertains to only those samples actually tested. All 60 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-12							
ARSENIC, TOTAL	001	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, TOTAL	001 REP	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, TOTAL	001 MS	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, SERIAL DILUT	001 L	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, TOTAL	001	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, TOTAL	001 REP	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, TOTAL	001 MS	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, TOTAL	001 MSD	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SERIAL DILU	001 L	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	001	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	001 REP	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	001 MS	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	001 MSD	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SERIAL DIL	001 L	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	001	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	001 REP	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	001 MS	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	001 MSD	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SERIAL DILUT	001 L	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	001	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	001 REP	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	001 MS	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	001 MSD	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	001	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SERIAL DILUT	001 L	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, TOTAL	001	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, TOTAL	001 REP	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, TOTAL	001 MS	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, TOTAL	001 MSD	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	001	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
LEAD, TOTAL	001 REP	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
LEAD, TOTAL	001 MS	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
ARSENIC, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
ARSENIC, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SERIAL DILUT	002 L	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
BARIUM, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
BARIUM, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SERIAL DILU	002 L	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SERIAL DIL	002 L	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SERIAL DILUT	002 L	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	002	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
MERCURY, SOLUBLE	002 REP	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
MERCURY, SOLUBLE	002 MS	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SERIAL DILUT	002 L	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
NICKEL, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	002	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
LEAD, SOLUBLE	002 REP	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
LEAD, SOLUBLE	002 MS	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
RW-01-12-DUP							
ARSENIC, TOTAL	003	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	003	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	003	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	003	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	003	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	003	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	003	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	003	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
MERCURY, SOLUBLE	004	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	004	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
RW-03-12							
ARSENIC, TOTAL	005	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	005	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	005	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	005	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	005	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	005	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	005	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	005	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	006	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	006	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
RW-04-12							
ARSENIC, TOTAL	007	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	007	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	007	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	007	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	007	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	007	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	007	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	007	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	008	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
LEAD, SOLUBLE	008	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
RW-10-12							
ARSENIC, TOTAL	009	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	009	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	009	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	009	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	009	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	009	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	009	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	009	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	010	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	010	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99
RW-11-12							
ARSENIC, TOTAL	011	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	011	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	011	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	011	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	011	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	011	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	011	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	011	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	012	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	012	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
FB-01-12							
ARSENIC, TOTAL	013	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
BARIUM, TOTAL	013	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, TOTAL	013	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, TOTAL	013	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, TOTAL	013	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, TOTAL	013	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, TOTAL	013	W	99GI903	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, TOTAL	013	W	99GF810	03/11/99	03/11/99	03/17/99	03/18/99
ARSENIC, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/16/99	03/16/99
BARIUM, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CADMIUM, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
CHROMIUM, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
COPPER, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
MERCURY, SOLUBLE	014	W	99HG1199	03/11/99	03/11/99	03/16/99	03/16/99
NICKEL, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/17/99	03/17/99
LEAD, SOLUBLE	014	W	NONE	03/11/99	03/11/99	03/15/99	03/15/99

LAB QC:

ARSENIC LABORATORY	LC1 BS	W	99GF810	N/A	N/A	03/17/99	03/18/99
LEAD LABORATORY	LC1 BS	W	99GF810	N/A	N/A	03/17/99	03/18/99
ARSENIC LABORATORY	LC2 BS	W	99GF810	N/A	N/A	03/17/99	03/18/99
LEAD LABORATORY	LC2 BS	W	99GF810	N/A	N/A	03/17/99	03/18/99
ARSENIC, TOTAL	MB1	W	99GF810	N/A	N/A	03/17/99	03/18/99
LEAD, TOTAL	MB1	W	99GF810	N/A	N/A	03/17/99	03/17/99
BARIUM LABORATORY	LC1 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
CADMIUM LABORATORY	LC1 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
CHROMIUM LABORATORY	LC1 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
COPPER LABORATORY	LC1 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
NICKEL LABORATORY	LC1 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
BARIUM LABORATORY	LC2 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
CADMIUM LABORATORY	LC2 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
CHROMIUM LABORATORY	LC2 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
COPPER LABORATORY	LC2 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99

Severn Trent Laboratories Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
NICKEL LABORATORY	LC2 BS	W	99GI903	N/A	N/A	03/17/99	03/17/99
BARIUM, TOTAL	MB1	W	99GI903	N/A	N/A	03/17/99	03/17/99
CADMIUM, TOTAL	MB1	W	99GI903	N/A	N/A	03/17/99	03/17/99
CHROMIUM, TOTAL	MB1	W	99GI903	N/A	N/A	03/17/99	03/17/99
COPPER, TOTAL	MB1	W	99GI903	N/A	N/A	03/17/99	03/17/99
NICKEL, TOTAL	MB1	W	99GI903	N/A	N/A	03/17/99	03/17/99
MERCURY LABORATORY	LC1 BS	W	99HG1199	N/A	N/A	03/16/99	03/16/99
MERCURY LABORATORY	LC2 BS	W	99HG1199	N/A	N/A	03/16/99	03/16/99
MERCURY, TOTAL	MB1	W	99HG1199	N/A	N/A	03/16/99	03/16/99

SIGNATURE [illegible] DATE 3/19/99

NY CERTIFICATION # 11006

Severn Trent Laboratories Chicago
METALS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained with this RFW Lot: 990 3G 590

SW846	__6010A ✓6010B __Ag __Al __As __B ✓Ba __Be __Ca ✓Cd __Co ✓Cr ✓Cu __Fe __K __Li __Mg __Mn __Mo __Na ✓Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag7761 ✓As7060A __Cd7131A __Cr7191 __Cu7211 ✓Hg7470A __Hg7471A ✓Pb7421 __Sb7041 __Se7740 __Tl7841 __CN 9010A __CN 9010B/9014
EPA	**200.7** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag272.2 __As206.2 __Cd213.2 __Cr218.2 __Cu220.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 **200.9** __As __Cd __Pb __Sb __Se __Tl
CLP ILM04.0	**200.7 CLP-M** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __As206.2 __Cd213.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 __CN335.2
Digestion Method	**SW846** __3005A ✓3010A __3020A ✓3020A(+H_2O_2) __3050A __7060A/7740 ✓7470A __7471A __3050B **EPA** __200.7 __200.0(+H_2O_2) __200.9(-HCL;+H_2O_2) **USEPA/CLP** __ILM04.0 Exhibit D, Section III
Extraction Method	**SW846** __1311TCLP __1312SPLP __1320MEP Using TCLP **ASTM** **CAM Title 22** __D3987 Neutral Leach __W.E.T.
%Solids	__SM 2540G __ASTM D2216 __Exhibit D Part F

CHI-22-05-002/K-1/99

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-001**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-002**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-01-12-DUP**
Project # 01989-031-002-9999
Lab ID: **9903G590-003**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-01-12-DUP**
Project # 01989-031-002-9999
Lab ID: **9903G590-004**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-03-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-005**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0061	U	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-03-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-006**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-04-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-007**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0046	U	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-04-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-008**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0024		mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.021		mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-10-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-009**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0043	U	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-10-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-010**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-11-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-011**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **RW-11-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-012**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **FB-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-013**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0034		mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

RE: **FB-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-014**
Sample Date: 03/11/99
Date Received: 03/11/99

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	99GF810-MB1	Arsenic, Total	0.0020	u	mg/L	0.0020
		Lead, Total	0.0020	u	mg/L	0.0020
Blank 1	99GI903-MB1	Barium, Total	0.050	u	mg/L	0.050
		Cadmium, Total	0.010	u	mg/L	0.010
		Chromium, Total	0.020	u	mg/L	0.020
		Copper, Total	0.020	u	mg/L	0.020
		Nickel, Total	0.020	u	mg/L	0.020
Blank 1	99HG1199-MB1	Mercury, Total	0.00020	u	mg/L	0.00020

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-001REP	RW-01-12	Arsenic, Total	0.0020 u	0.0020 u	NC
		Barium, Total	0.050 u	0.050 u	NC
		Cadmium, Total	0.010 u	0.010 u	NC
		Chromium, Total	0.020 u	0.020 u	NC
		Copper, Total	0.020 u	0.020 u	NC
		Nickel, Total	0.020 u	0.020 u	NC
		Lead, Total	0.0020 u	0.0022	NC
-002REP	RW-01-12	Arsenic, Soluble	0.0020 u	0.0020 u	NC
		Barium, Soluble	0.050 u	0.050 u	NC
		Cadmium, Soluble	0.010 u	0.010 u	NC
		Chromium, Soluble	0.020 u	0.020 u	NC
		Copper, Soluble	0.020 u	0.020 u	NC
		Mercury, Soluble	0.00020 u	0.00020 u	NC
		Nickel, Soluble	0.020 u	0.020 u	NC
		Lead, Soluble	0.0020 u	0.0020 u	NC

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	RW-01-12	Arsenic, Total	0.042	0.0020	u	0.040	106
		Barium, Total	1.7	0.050	u	2.0	86.0
		Barium, Total MSD	1.8	0.050	u	2.0	87.6
		Cadmium, Total	0.043	0.010	u	0.050	86.3
		Cadmium, Total MSD	0.043	0.010	u	0.050	86.7
		Chromium, Total	0.17	0.020	u	0.20	85.2
		Chromium, Total MSD	0.17	0.020	u	0.20	87.4
		Copper, Total	0.22	0.020	u	0.25	88.1
		Copper, Total MSD	0.23	0.020	u	0.25	90.5
		Nickel, Total	0.43	0.020	u	0.50	86.7
		Nickel, Total MSD	0.44	0.020	u	0.50	88.0
		Lead, Total	0.020	0.0020	u	0.020	97.6
-002	RW-01-12	Arsenic, Soluble	0.045	0.0020	u	0.040	113
		Barium, Soluble	2.1	0.050	u	2.0	103
		Cadmium, Soluble	0.053	0.010	u	0.050	105
		Chromium, Soluble	0.21	0.020	u	0.20	103
		Copper, Soluble	0.27	0.020	u	0.25	106

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result	Spiked Amount	% Recov
-002	RW-01-12	Mercury, Soluble	0.0010	0.00020 u	0.0010	104
		Nickel, Soluble	0.51	0.020 u	0.50	102
		Lead, Soluble	0.023	0.0020 u	0.020	115

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Duplicate Spike Report

Sample	Site ID	Parameter	Spike #1 % Recov	Spike #2 % Recov	RPD
-001	RW-01-12	Barium, Total	86.0	87.6	1.9
		Cadmium, Total	86.3	86.7	0.54
		Chromium, Total	85.2	87.4	2.5
		Copper, Total	88.1	90.5	2.8
		Nickel, Total	86.7	88.0	1.5

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Thursday March 18th, 1999

Project # 01989-031-002-9999
Lab Batch: **9903G590**

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
99GF810-LC1	Arsenic, LCS	0.040	mg/L	97.6	97.4	0.15
	Lead, LCS	0.020	mg/L	95.2	92.8	2.6
99GI903-LC1	Barium, LCS	2.0	mg/L	88.0	87.3	0.83
	Cadmium, LCS	0.050	mg/L	85.8	83.8	2.4
	Chromium, LCS	0.20	mg/L	89.1	89.3	0.21
	Copper, LCS	0.25	mg/L	89.1	89.8	0.80
	Nickel, LCS	0.50	mg/L	90.1	88.2	2.2
99HG1199-LC1	Mercury, LCS	0.0020	mg/L	107	106	1.3

Severn Trent Laboratories Chicago
8260 ANALYTICAL DATA PACKAGE FOR
Techalloy

LABORATORY CHRONICLE

LOT # :9903G590

CLIENT ID	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-12	001	W	99GVC069	03/11/99	03/11/99	N/A	03/12/99
RW-01-12-DUP	003	W	99GVC069	03/11/99	03/11/99	N/A	03/12/99
RW-03-12	005	W	99GVC069	03/11/99	03/11/99	N/A	03/12/99
RW-04-12	007	W	99GVC069	03/11/99	03/11/99	N/A	03/13/99
RW-10-12	009	W	99GVC069	03/11/99	03/11/99	N/A	03/13/99
RW-11-12	011	W	99GVT060	03/11/99	03/11/99	N/A	03/13/99
FB-01-12	013	W	99GVC069	03/11/99	03/11/99	N/A	03/13/99
TB030899	015	W	99GVC069	03/11/99	03/11/99	N/A	03/12/99
LAB QC:							
VBLKES	MB1	W	99GVC069	N/A	N/A	N/A	03/12/99
VBLKES	MB1 BS	W	99GVC069	N/A	N/A	N/A	03/12/99
VBLKEQ	MB1	W	99GVT060	N/A	N/A	N/A	03/13/99
VBLKEQ	MB1 BS	W	99GVT060	N/A	N/A	N/A	03/13/99

SIGNATURE Gregory L. Good DATE 3/17/99

NY CERTIFICATION # 11006

Severn Trent Laboratories Chicago
GC/MS Case Narrative

Techalloy
STL# 9903G590
VOA DATA:

1. All volatile analyses were performed within the recommended hold times.

2. All Method Blank target compounds were below reporting limits.

3. All LCS (Laboratory Control Sample) samples had all controlled spike recoveries within the in-house generated QC limits.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed in this sample set.

5. All of the volatile samples had surrogate recoveries within the in-house generated QC limits.

6. All samples were analyzed following SW846 Method 8260B and 8000B. All calibration criteria are met per method or SOP (for minimum R values for certain compounds). The low point in the calibration (0.5 µg/L water) verifies the base reporting limits. The target compounds were quantitated using the initial calibration.

7. All internal standard areas and retention times were within SOP acceptance limits as compared to the corresponding continuing calibration standard.

8. The water samples were analyzed low level using a 25.0 mL purge volume.

Gregory L. Goodwin
GC/MS Section Manager.

3/17/99
Date

Severn Trent Laboratories Chicago

GC/MS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS VOLATILES

- ____ SW-846 8260A
- ✓ SW-846 8260B
- ____ EPA 524.2
- ____ 40 CFR Part 136, Method 624
- ____ CLP OLM03.1/3.2
- ____ OLC02.0/2.1

GC/MS SEMIVOLATILES

- ____ SW-846 8270A
- ____ SW-846 8270B
- ____ SW-846 8270C
- ____ 40 CFR Part 136, Method 625
- ____ CLP OLM03.1/3.2
- ____ OLC02.0/2.1

CHI-22-05-001/E-1/99

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-001**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-001**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	0.6	0.5	
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-001**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12-DUP**
Project # 01989-031-002-9999
Lab ID: **9903G590-003**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12-DUP**
Project # 01989-031-002-9999
Lab ID: **9903G590-003**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-01-12-DUP**
Project # 01989-031-002-9999
Lab ID: **9903G590-003**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-03-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-005**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-03-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-005**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	0.9	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-03-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-005**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-04-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-007**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-04-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-007**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	0.9	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-04-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-007**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-10-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-009**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-10-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-009**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-10-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-009**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-11-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-011**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-11-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-011**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **RW-11-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-011**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **FB-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-013**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	6	2	
Carbon Disulfide	BRL	2	U
Methylene Chloride	1	0.5	
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	1	0.5	
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **FB-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-013**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	0.6	0.5	
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **FB-01-12**
Project # 01989-031-002-9999
Lab ID: **9903G590-013**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **TB030899**
Project # 01989-031-002-9999
Lab ID: **9903G590-015**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U
Trichloroethene	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **TB030899**
Project # 01989-031-002-9999
Lab ID: **9903G590-015**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	0.8	0.5	
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: **Techalloy**

Olsen & Jefferson Road
Union, IL 60180

Attn: **Mr. Scott Carr**

Date: Wednesday March 17th, 1999

RE: **TB030899**
Project # 01989-031-002-9999
Lab ID: **9903G590-015**
Sample Date: 03/11/99
Date Received: 03/11/99
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9903G590 Client: Techalloy Work Order: 01989-031-002-9

Report Date: 03/15/99 22:12
Page: 1a

56

	Cust ID:	RW-01-12		RW-01-12-DUP		RW-03-12		RW-04-12		RW-10-12		RW-11-12	
Sample Information	RFW#:	001		003		005		007		009		011	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	87	%	84	%	91	%	91	%	90	%	108	%
	Toluene-d8	108	%	101	%	108	%	108	%	106	%	102	%
	4-Bromofluorobenzene	101	%	94	%	101	%	101	%	101	%	104	%
			fl		fl		fl		fl		fl		fl
Chloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone		2	U	2	U	2	U	2	U	2	U	2	U
Carbon Disulfide		2	U	2	U	2	U	2	U	2	U	2	U
Methylene Chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene (total)		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Butanone		2	U	2	U	2	U	2	U	2	U	2	U
Chloroform		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone		2	U	2	U	2	U	2	U	2	U	2	U
Toluene		0.6		0.5	U	0.9		0.9		0.5	U	0.5	U
trans-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
2-Hexanone		2	U	2	U	2	U	2	U	2	U	2	U

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9903G590 Client: Techalloy Work Order: 01989-031-002-9 Page: 1b

Cust ID:	RW-01-12	RW-01-12-DUP	RW-03-12	RW-04-12	RW-10-12	RW-11-12
RFW#:	001	003	005	007	009	011
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

*= Outside of EPA CLP QC limits.

STL Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9903G590 Client: Techalloy Work Order: 01989-031-002-9

Report Date: 03/15/99 22:12
Page: 2a

58

	Cust ID:	FB-01-12		TB030899		VBLKES		VBLKES BS		VBLKEQ		VBLKEQ BS	
Sample Information	RFW#:	013		015		99GVC069-MB1		99GVC069-MB1		99GVT060-MB1		99GVT060-MB1	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	90	%	80	%	84	%	83	%	109	%	106	%
	Toluene-d8	106	%	101	%	103	%	101	%	100	%	101	%
	4-Bromofluorobenzene	99	%	93	%	97	%	95	%	104	%	105	%
			fl		fl		fl		fl		fl		fl
Chloromethane		0.5	U	0.5	U	0.5	U	101	%	0.5	U	76	%
Vinyl chloride		0.5	U	0.5	U	0.5	U	103	%	0.5	U	86	%
Bromomethane		0.5	U	0.5	U	0.5	U	104	%	0.5	U	101	%
Chloroethane		0.5	U	0.5	U	0.5	U	114	%	0.5	U	90	%
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	114	%	0.5	U	99	%
Acetone		6		2	U	2	U	100	%	2	U	50	%
Carbon Disulfide		2	U	2	U	2	U	91	%	2	U	72	%
Methylene Chloride		1		0.5	U	0.5	U	123 *	%	0.5	U	99	%
1,2-Dichloroethene (total)		0.5	U	0.5	U	0.5	U	120	%	0.5	U	104	%
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	119	%	0.5	U	104	%
2-Butanone		2	U	2	U	2	U	81	%	2	U	70	%
Chloroform		1		0.5	U	0.5	U	106	%	0.5	U	111	%
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	89	%	0.5	U	120	%
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	88	%	0.5	U	127	%
Benzene		0.5	U	0.5	U	0.5	U	114	%	0.5	U	103	%
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	89	%	0.5	U	121 *	%
Trichloroethene		0.5	U	0.5	U	0.5	U	119	%	0.5	U	120	%
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	126	%	0.5	U	107	%
Bromodichloromethane		0.5	U	0.5	U	0.5	U	107	%	0.5	U	119	%
cis-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	106	%	0.5	U	103	%
4-Methyl-2-pentanone		2	U	2	U	2	U	88	%	2	U	86	%
Toluene		0.6		0.8		0.5	U	111	%	0.5	U	111	%
trans-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	114	%	0.5	U	124	%
1,1,2-Trichloroethane		0.5	U	0.5	U	0.5	U	122	%	0.5	U	108	%
Tetrachloroethene		0.5	U	0.5	U	0.5	U	112	%	0.5	U	124	%
2-Hexanone		2	U	2	U	2	U	81	%	2	U	84	%

*= Outside of EPA CLP QC limits.

59

Cust ID:	FB-01-12	TB030899	VBLKES	VBLKES BS	VBLKEQ	VBLKEQ BS
RFW#:	013	015	99GVC069-MB1	99GVC069-MB1	99GVT060-MB1	99GVT060-MB1
Dibromochloromethane	0.5 U	0.5 U	0.5 U	112 %	0.5 U	123 * %
Chlorobenzene	0.5 U	0.5 U	0.5 U	110 %	0.5 U	117 * %
Ethylbenzene	0.5 U	0.5 U	0.5 U	107 %	0.5 U	115 %
Xylene (total)	0.5 U	0.5 U	0.5 U	107 %	0.5 U	121 * %
Styrene	0.5 U	0.5 U	0.5 U	110 %	0.5 U	119 * %
Bromoform	0.5 U	0.5 U	0.5 U	113 %	0.5 U	134 * %
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	115 %	0.5 U	108 %

*= Outside of EPA CLP QC limits.

RECRA LabNet Use Only

9903G590

Custody Transfer Record/Lab Work Request

RECRA LabNet

Client: Techalloy Company, Inc
Est. Final Proj. Sampling Date: 3/11/99
Project #: 01989-031-002
Project Contact/Phone #: Jameel Ahmed (847) 918-4021
RECRA Project Manager: Dick Wright
QC: ____ Del: ____ TAT: ____
Date Rec'd: ____ Date Due: ____
Account #: ____

Refrigerator #																	
#/Type Container	Liquid	3x40ml						Plastic									
	Solid																
Volume	Liquid	40ml						1L	1L								
	Solid																
Preservatives		HCl						HNO3	HNO3								
ANALYSES REQUESTED		ORGANIC							INORG								
		VOA	BNA	Pest/PCB	Herb			Metals	Metal	CN							
		RECRA LabNet Use Only															
		8260A						Soluble	TCLP								

MATRIX CODES:	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	8260A						Soluble	TCLP						
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	001/2	RW-01-12			W	3/11/99	800	✓						✓	✓						
	003/4	RW-01-12 DUP					800	✓						✓	✓						
	005/6	RW-03-12					855	✓						✓	✓						
	007/8	RW-04-12					1150	✓						✓	✓						
	009/10	RW-10-12					1115	✓						✓	✓						
	011/12	RW-11-12					1025	✓						✓	✓						
	013/14	FB-01-12					1035	✓						✓	✓						
	015	Trip Blank			W			✓													

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:
Metals for TAL & Dissolved include Arsenic, Copper, Barium, Cadmium Chromium, Mercury, Nickel & Lead

DATE/REVISIONS:
1. T.B. prepared 3/8/99
2.
3.
4.
5.
6.

RECRA LabNet Use Only

Samples were:
1) Shipped ____ or Hand Delivered X
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 Lables and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
Jameel	[illegible]	3/11/99	1400
	[illegible]	3/11	1425

Relinquished by	Received by	Date	Time

Page ____ ____

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-031-001

Re: Results of Private Well Sampling for Techalloy Company in Union, Illinois

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON) is providing U.S. EPA with the August 1998 semi-annual groundwater analytical results for private well sampling performed for the Techalloy Company in Union, Illinois. The sampling was conducted in accordance with the Private Well Sampling Plan (PWSP) dated May 1993.

A total of six private wells were sampled on 30 August 1998. Each of these private wells were analyzed for volatile organic compounds (VOCs) by GC/MS (Method 8260A), and total and dissolved metals. The analytical results for VOCs and metals are summarized in Table 1 and 2, respectively. Analyses were performed by Great Lakes Analytical Laboratory in Buffalo Grove, Illinois.

The results indicate that no compounds of concern are present in any of the sampled well waters at a concentration above the U.S. EPA maximum contaminant levels (MCLs) except at RW-10-11 (Swanson Residence). Well water sample collected from the Swanson residence indicated trichloroethene (TCE) at a concentration of 6 μg/L (ppb). This is slightly higher than the MCL of 5 μg/L. In accordance with the Administrative Order of Consent (AOC) signed between U.S. EPA and Techalloy, two samples from RW-10 were collected on 16 September, 1998 and analyzed for VOCs. The results of the resampled private well water indicated that the duplicate samples (RW-10-11-1 and RW-10-11-2) from the Swanson residence did not indicate concentrations of VOCs above MCLs. Analytical results of the resampling effort are summarized in Table 3.

All residential well owners have been notified in writing of the results (copies of the letters enclosed) of this sampling event and that their water did not show any constituents above the MCLs.

Groundwater samples collected from the three downgradient monitoring wells [shallow (MW-S), intermediate (MW-I), and deep (MW-D)] on August 30, 1998 were analyzed for VOCs as part of the quarterly sampling program. Analytical results for the shallow, intermediate, and deep monitoring wells are summarized in Table 4. Detected concentration of VOCs were as follows:

Click to WESTON On The Web http://www.rfweston.com

- Trichlroethene (TCE) was detected in MW-I at 13 µg/L 5
- 1,1,1-Trichloroethane (1,1,1-TCA) was detected in MW-I at 100 µg/L 200 ml
- Tetrachlroethene (PCE) was detected in MW-I at 2.2 µg/L
- 1,1-Dichlroethene (DCE) was detected in MW-I and MW-D at 10 and 5.5 µg/L, respectively 7
- cis 1,2-Dichlroethene (cis-DCE) was detected in MW-I at 5.9 µg/L, respectively 70
- trans 1,2-Dichlroethene (trans-DCE) was detected in MW-D at 2.2 µg/L
- 1,2-Dichlropropane was detected in MW-D at 2.4 µg/L

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Table 1
Summary of Volatile Organic Compounds
Private Well Sampling (August 1998)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-11	RW-03-11	RW-04-11	RW-10-11	RW-11-11	RW-JEN-11	RW-01-11DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Acetone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Butanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chlrodibromomethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloroethyl vinyl ether	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Chloroform	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Choromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans 1,2-Dichloroethene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
trans1,3-Dichloropropene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Hexanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Methylene Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Methyl-2-pentanone	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Styrene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 1
Summary of Volatile Organic Compounds
Private Well Sampling (August 1998)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-11	RW-03-11	RW-04-11	RW-10-11	RW-11-11	RW-JEN-11	RW-01-11DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Tetrachloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Toluene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Trichlroethene	2.0 U	2.0 U	2.0 U	6.0	2.0 U	2.0 U	2.0 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Acetate	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total Xylenes	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

U - Non-detectable level.

Table 2
Summary of Total/Soluble Metals
Private Well Sampling (August 1998)
Techalloy Company, Inc.
Union, Illinois

where is RW Jen-11

Sample Date:	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98	08/30/98
Matrix:	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-11	RW-03-11	RW-04-11	RW-10-11	RW-11-11	RW-01-11DUP
Units:	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Total Metals						
Arsenic, Total	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Barium, Total	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cadmium, Total	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chromium, Total	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper, Total	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Mercury, Total	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Nickel, Total	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lead, Total	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Soluble Metals						
Arsenic, Soluble	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Barium, Soluble	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cadmium, Soluble	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Chromium, Soluble	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Copper, Soluble	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Mercury, Soluble	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Nickel, Soluble	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Lead, Soluble	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U

U - Non-detectable level.

Table 3
Summary of Volatile Organic Compounds
Resampling of Swanson Residence Well (RW-10)
August/September 1998
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	09/16/98	09/16/98
Matrix:	Water	Water	Water
Cluster Well Type	Shallow	Intermediate	Deep
Sample I.D.	RW-10-11	RW-10-11-1	RW-10-11-2
Units:	(ug/L)	(ug/L)	(ug/L)
Acetone	10.0 U	10.0 U	10.0 U
Benzene	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U	2.0 U
2-Butanone	10.0 U	10.0 U	10.0 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U
Chlrodibromomethane	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U
2-Chloroethyl vinyl ether	10.0 U	10.0 U	10.0 U
Chloroform	2.0 U	2.0 U	2.0 U
Choromethane	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	2.0 U	2.0 U	2.0 U
trans 1,2-Dichloroethene	2.0 U	2.0 U	2.0 U
1,2-Dichloropropane	2.0 U	2.0 U	2.0 U
cis-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
trans1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U
2-Hexanone	10.0 U	10.0 U	10.0 U
Methylene Chloride	2.0 U	2.0 U	2.0 U
4-Methyl-2-pentanone	10.0 U	10.0 U	10.0 U

Table 3
Summary of Volatile Organic Compounds
Resampling of Swanson Residence Well (RW-10)
August/September 1998
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	09/16/98	09/16/98
Matrix:	Water	Water	Water
Cluster Well Type	Shallow	Intermediate	Deep
Sample I.D.	RW-10-11	RW-10-11-1	RW-10-11-2
Units:	(ug/L)	(ug/L)	(ug/L)
Styrene	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U
Tetrachloroethane	2.0 U	2.0 U	2.0 U
Toluene	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U
Trichlroethene	6.0	2.0 U	2.0 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U
Vinyl Acetate	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U
Total Xylenes	2.0 U	2.0 U	2.0 U

U - Non-detectable level.

Table 4
Summary of Volatile Organic Compounds
Cluster Well Sampling (Quarterly)
August 1998
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	08/30/98	08/30/98
Matrix:	Water	Water	Water
Cluster Well Type	Shallow	Intermediate	Deep
Sample I.D.	MW-S	MW-I	MW-D
Units:	(ug/L)	(ug/L)	(ug/L)
Acetone	10.0 U	10.0 U	10.0 U
Benzene	2.0 U	2.0 U	2.0 U
Bromodichloromethane	2.0 U	2.0 U	2.0 U
Bromomethane	2.0 U	2.0 U	2.0 U
Bromoform	2.0 U	2.0 U	2.0 U
2-Butanone	10.0 U	10.0 U	10.0 U
Carbon Disulfide	2.0 U	2.0 U	2.0 U
Carbon Tetrachloride	2.0 U	2.0 U	2.0 U
Chlorobenzene	2.0 U	2.0 U	2.0 U
Chlrodibromomethane	2.0 U	2.0 U	2.0 U
Chloroethane	2.0 U	2.0 U	2.0 U
2-Chloroethyl vinyl ether	10.0 U	10.0 U	10.0 U
Chloroform	2.0 U	2.0 U	2.0 U
Choromethane	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	2.0 U	2.0 U	5.5
1,2-Dichloroethane	2.0 U	2.0 U	2.0 U
1,1-Dichloroethene	2.0 U	10.0	5.5
cis-1,2-Dichloroethene	2.0 U	5.9	2.0 U
trans 1,2-Dichloroethene	2.0 U	2.0 U	2.2
1,2-Dichloropropane	2.0 U	2.0 U	2.4
cis-1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
trans1,3-Dichloropropene	2.0 U	2.0 U	2.0 U
Ethylbenzene	2.0 U	2.0 U	2.0 U
2-Hexanone	10.0 U	10.0 U	10.0 U
Methylene Chloride	2.0 U	2.0 U	2.0 U
4-Methyl-2-pentanone	10.0 U	10.0 U	10.0 U

Table 4
Summary of Volatile Organic Compounds
Cluster Well Sampling (Quarterly)
August 1998
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	08/30/98	08/30/98	08/30/98
Matrix:	Water	Water	Water
Cluster Well Type	Shallow	Intermediate	Deep
Sample I.D.	MW-S	MW-I	MW-D
Units:	(ug/L)	(ug/L)	(ug/L)
Styrene	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	2.0 U	2.0 U	2.0 U
Tetrachloroethane	2.0 U	2.2	2.0 U
Toluene	2.0 U	2.0 U	2.0 U
1,1,1-Trichloroethane	2.0 U	100.0	2.0 U
1,1,2-Trichloroethane	2.0 U	2.0 U	2.0 U
Trichlroethene	2.0 U	13.0	2.0 U
Trichlorofluoromethane	2.0 U	2.0 U	2.0 U
Vinyl Acetate	2.0 U	2.0 U	2.0 U
Vinyl Chloride	2.0 U	2.0 U	2.0 U
Total Xylenes	2.0 U	2.0 U	2.0 U

U - Non-detectable level.

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston
3 Hawthorne Parkway
Vernon Hills, IL 60061
Attention: Jameel Ahmed

Project: Res Well Sampling

Enclosed are the results from 9 water samples received at Great Lakes Analytical on August 31, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8085422	Water, RW-01-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085423	Water, RW-03-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085424	Water, RW-04-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085425	Water, RW-10-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085426	Water, RW-11-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085427	Water, FB-01-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085428	Water, FD-01-11	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260
8085429	Water: Trip	8/30/98	VOC, EPA 8260
8085430	Water, RW-JEN	8/30/98	Total Metals Dissolved Metals VOC, EPA 8260

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Jim Dowzey

Kevin W. Keeley
Laboratory Director

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Arsenic, EPA 3015/7060		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Arsenic, EPA 3015/7060

Sample	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085422.wst <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Arsenic, EPA 3015/7060		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Arsenic, EPA 3015/7060

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085422.wst <2>

LAKES ANALYTICAL
1380 Busch Parkway
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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1
Vernon Hills, IL 60061	Analysis for:	Barium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1
			Reported:	Sep 9, 1

LABORATORY ANALYSIS FOR: Barium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.50	N.D.
808-5423	RW-03-11	0.50	N.D.
808-5424	RW-04-11	0.50	N.D.
808-5425	RW-10-11	0.50	N.D.
808-5426	RW-11-11	0.50	N.D.
808-5427	FB-01-11	0.50	N.D.
808-5428	FD-01-11	0.50	N.D.
808-5430	RW-JEN	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 199
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 199
Vernon Hills, IL 60061	Analysis for:	Dissolved Barium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 199
			Reported:	Sep 9, 199

LABORATORY ANALYSIS FOR: Dissolved Barium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.50	N.D.
808-5423	RW-03-11	0.50	N.D.
808-5424	RW-04-11	0.50	N.D.
808-5425	RW-10-11	0.50	N.D.
808-5426	RW-11-11	0.50	N.D.
808-5427	FB-01-11	0.50	N.D.
808-5428	FD-01-11	0.50	N.D.
808-5430	RW-JEN	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Cadmium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Cadmium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.010	N.D.
808-5423	RW-03-11	0.010	N.D.
808-5424	RW-04-11	0.010	N.D.
808-5425	RW-10-11	0.010	N.D.
808-5426	RW-11-11	0.010	N.D.
808-5427	FB-01-11	0.010	N.D.
808-5428	FD-01-11	0.010	N.D.
808-5430	RW-JEN	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dawsey

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Cadmium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Cadmium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.010	N.D.
808-5423	RW-03-11	0.010	N.D.
808-5424	RW-04-11	0.010	N.D.
808-5425	RW-10-11	0.010	N.D.
808-5426	RW-11-11	0.010	N.D.
808-5427	FB-01-11	0.010	N.D.
808-5428	FD-01-11	0.010	N.D.
808-5430	RW-JEN	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Chromium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Chromium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.010	N.D.
808-5423	RW-03-11	0.010	N.D.
808-5424	RW-04-11	0.010	N.D.
808-5425	RW-10-11	0.010	N.D.
808-5426	RW-11-11	0.010	N.D.
808-5427	FB-01-11	0.010	N.D.
808-5428	FD-01-11	0.010	0.050
808-5430	RW-JEN	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Chromium, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Chromium, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.010	N.D.
808-5423	RW-03-11	0.010	N.D.
808-5424	RW-04-11	0.010	N.D.
808-5425	RW-10-11	0.010	N.D.
808-5426	RW-11-11	0.010	N.D.
808-5427	FB-01-11	0.010	N.D.
808-5428	FD-01-11	0.010	N.D.
808-5430	RW-JEN	0.010	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Copper, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Copper, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Copper, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 2, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Copper, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	0.18

Analytes reported as N.D. were not present above the stated limit of detection.

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Lead, EPA 3015/7421		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Lead, EPA 3015/7421

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.0050	0.011
808-5423	RW-03-11	0.0050	N.D.
808-5424	RW-04-11	0.0050	N.D.
808-5425	RW-10-11	0.0050	N.D.
808-5426	RW-11-11	0.0050	N.D.
808-5427	FB-01-11	0.0050	N.D.
808-5428	FD-01-11	0.0050	N.D.
808-5430	RW-JEN	0.0050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Lead, EPA 3015/7421		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Lead, EPA 3015/7421

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.0050	N.D.
808-5423	RW-03-11	0.0050	N.D.
808-5424	RW-04-11	0.0050	N.D.
808-5425	RW-10-11	0.0050	N.D.
808-5426	RW-11-11	0.0050	N.D.
808-5427	FB-01-11	0.0050	N.D.
808-5428	FD-01-11	0.0050	N.D.
808-5430	RW-JEN	0.0050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Mercury, EPA 7470		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Mercury, EPA 7470

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.0020	N.D.
808-5423	RW-03-11	0.0020	N.D.
808-5424	RW-04-11	0.0020	N.D.
808-5425	RW-10-11	0.0020	N.D.
808-5426	RW-11-11	0.0020	N.D.
808-5427	FB-01-11	0.0020	N.D.
808-5428	FD-01-11	0.0020	N.D.
808-5430	RW-JEN	0.0020	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Mercury, EPA 7470		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Mercury, EPA 7470

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.0020	N.D.
808-5423	RW-03-11	0.0020	N.D.
808-5424	RW-04-11	0.0020	N.D.
808-5425	RW-10-11	0.0020	N.D.
808-5426	RW-11-11	0.0020	N.D.
808-5427	FB-01-11	0.0020	N.D.
808-5428	FD-01-11	0.0020	N.D.
808-5430	RW-JEN	0.0020	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Nickel, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Nickel, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis for:	Dissolved Nickel, EPA 3015/6010		
Attention: Jameel Ahmed	First Sample #:	808-5422	Analyzed:	Sep 4, 1998
			Reported:	Sep 9, 1998

LABORATORY ANALYSIS FOR: Dissolved Nickel, EPA 3015/6010

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L
808-5422	RW-01-11	0.050	N.D.
808-5423	RW-03-11	0.050	N.D.
808-5424	RW-04-11	0.050	N.D.
808-5425	RW-10-11	0.050	N.D.
808-5426	RW-11-11	0.050	N.D.
808-5427	FB-01-11	0.050	N.D.
808-5428	FD-01-11	0.050	N.D.
808-5430	RW-JEN	0.050	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-01-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5422	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-03-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5423	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-04-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5424	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowsey

Kevin W. Keeley
Laboratory Director

8085422.wst <19>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-10-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5425	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	**2.0**	**4.9A**
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	**2.0**	**6.0**
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

Please Note:
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.

8085422.wst <20>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
1 Hawthorne Parkway	Sample Descript:	Water: RW-11-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5426	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085422.wst <21>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: FB-01-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5427	Analyzed:	Sep 1, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowey

Kevin W. Keeley
Laboratory Director

8085422.wst <22>

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: FD-01-11	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5428	Analyzed:	Sep 3, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085422.wst <23>

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: Trip	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5429	Analyzed:	Sep 3, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	11A
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dorsey for

Kevin W. Keeley
Laboratory Director

Please Note:
A = Laboratory artifact - concentrations found of this analyte are characteristic of laboratory artifact.

8085422.wst <24>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
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Weston	Client Project ID:	Res Well Sampling	Sampled:	Aug 30, 1998
Hawthorne Parkway	Sample Descript:	Water: RW-JEN	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5430	Analyzed:	Sep 3, 1998
			Reported:	Sep 9, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085422.wst <25>

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

2072 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

9/8/98

Client: WESTON (Techalloy Company)
Address: 3 Hawthorn Pkwy
Vernon Hills, IL 60061
Report to: Jameel Ahmed
Phone #: (847) 918-4021
Fax #: (847) 918-4055

Bill To: Scott Carr
Address: Techalloy Company
6509 Olson Rd, Union, Illinois 60180
State & Program: ILLINOIS
Phone #: (815) 923-2131
Fax #: (815) 923-2034

TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
DATE RESULTS NEEDED: Std TAT
TEMPERATURE UPON RECEIPT: on ice +6.1°C
AIR BILL NO. Client D/O

Project: Res well Sampling
Sampler: Jameel
PO/Quote #: Techalloy - Call

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	VOCs by 8260	Metals (Total)	Metals (Dissolved)	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	LABORATORY ID NUMBER
1	RW-01-11	8/31/98	1040	Water	HCl-VOCs, HNO3 (Metals)	4	Plastic 2 Glass	✓	✓	✓			✓	8085422
2	RW-03-11		1110		HCl (VOCs), HNO3 (Metals)	4		✓	✓	✓			✓	8085423
3	RW-04-11		1140			4		✓	✓	✓			✓	8085424
4	RW-10-11		1255			4		✓	✓	✓			✓	8085425
5	RW-11-11		1215			4		✓	✓	✓			✓	8085426
6	FB-01-11		1315			4		✓	✓	✓			✓	8085427
7	FD-01-11		–			4		✓	✓	✓			✓	8085428
8	Trip Blank		–		HCl	2	2 Glass	✓					✓	8085429
9	RW-JEN	8/31/98 30 JA	950	Water	HCl (VOCs), HNO3 (Metals)	4	2 Glass 2 Plastic	✓	✓	✓			✓	8085430
10														

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
Jameel 8/31/98 TIME	K. Cole 8/31/98 DATE TIME	DATE TIME	
DATE TIME	DATE TIME	DATE TIME	

COMMENTS: Metals for Total & Dissolved include Arsenic, Copper, Barium, Cadmium, Chromium, Mercury, Nickel & Lead. VOCs by 8260.

PAGE 1 OF 1

GREAT LAKES ANALYTICAL

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Date: September 23, 1998

Weston
3 Hawthorne Parkway
Vernon Hills, IL 60061
Attention: Jameel Ahmad

Project: Techalloy-Res. Well

Enclosed are the results from 3 water samples received at Great Lakes Analytical on September 17, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8092793	Water: RW-10-11-1	9/16/98	VOC, EPA 8260
8092794	Water: RW-10-11-2	9/16/98	VOC, EPA 8260
8092795	Water: Trip Blank	9/16/98	VOC, EPA 8260

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Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Jim Dause for

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

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Weston	Client Project ID:	Techalloy-Res. Well	Sampled:	Sep 16, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-10-11-1	Received:	Sep 17, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmad	Lab Number:	809-2793	Analyzed:	Sep 23, 1998
			Reported:	Sep 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowey

Kevin W. Keeley
Laboratory Director

8092793.wst <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Techalloy-Res. Well	Sampled:	Sep 16, 1998
3 Hawthorne Parkway	Sample Descript:	Water: RW-10-11-2	Received:	Sep 17, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmad	Lab Number:	809-2794	Analyzed:	Sep 23, 1998
			Reported:	Sep 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8092793.wst <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Techalloy-Res. Well	Sampled:	Sep 16, 1998
3 Hawthorne Parkway	Sample Descript:	Water: Trip Blank	Received:	Sep 17, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmad	Lab Number:	809-2795	Analyzed:	Sep 23, 1998
			Reported:	Sep 23, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

8092793.wst <3>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston
3 Hawthorne Parkway
Vernon Hills, IL 60061
Attention: Jameel Ahmad

Client Project ID: Techalloy-Res. Well
Matrix: Water
Method: Volatiles
C Sample Group: 8092793-2795

Reported: Sep 23, 1998

QUALITY CONTROL DATA REPORT

ANALYTE	1,1,-Dichloroethene	Benzene	Trichloro-ethene	Toluene	Chlorobenzene
Method:	8260	8260	8260	8260	8260
Analyst:	K. Falkson	K. Falkson	K. Falkson	K. Falkson	K. Falkson
Concentration:	250	250	250	250	250
Units:	ng	ng	ng	ng	ng
LAB. CONTROL SAMPLE DATA					
Date Analyzed:	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998
Instrument I.D.#	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
LCS% Recovery:	80	86	82	84	84
MATRIX SPIKE & DUP. DATA					
Date Analyzed:	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998	Sep 22, 1998
Instrument I.D.#	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1	GC/MS-1
Matrix Spike % Recovery:	80	84	80	86	82
Matrix Spike Duplicate % Recovery:	74	80	78	82	80
Relative % Difference:	7.8	4.9	2.5	4.8	2.5

GREAT LAKES ANALYTICAL

Kevin W. Keeley
Laboratory Director

% Recovery: $\frac{\text{Conc. of M.S. - Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$

Relative % Difference: $\frac{\text{Conc. of M.S. - Conc. of M.S.D.}}{\text{(Conc. of M.S. + Conc. of M.S.D.) / 2}} \times 100$

8092793.wst <4>

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

207? 'atertown Road
Bro..eld, WI 53501
(414) 798-1030
FAX (414) 798-1066

9/24/98

Client: WESTON
Address: 3 Hawthorn Parkway Suite 400
Vernon Hills, IL 60061

Bill To: Scott Carr, Env. Coordinator
Address: Techalloy Company, Inc
6509 Olson Rd, Union, IL 60180

TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
DATE RESULTS NEEDED: STD TAT
TEMPERATURE UPON RECEIPT: on ICE +3.0°C

Report to: Jameel Ahmed
Phone #: (847) 918-4021
Fax #: (847) 918-4055
State & Program: ILLINOIS
Phone #: (815) 923-2131
Fax #: (815) 923-2034
AIR BILL NO. Client P/O

Project: TECHALLOY-RESWELL
Sampler: Jameel Ahmed
PO/Quote #: Call Scott Carr/Techalloy

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	VOCs 8260	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	SAMPLE CONTROL: GOOD CONDITION	LABORATORY ID NUMBER
1	RW-10-11-1	9/14/98	1200	W	HCl	3	Glass	✓			✓	8092793
2	RW-10-11-2	9/14/98	1200	W	HCl	3	Glass	✓			✓	8092794
3	Trip Blank					1		✓			✓	8092795
4												
5												
6												
7												
8												
9												
10												

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
Jameel 9/17/98 13:45	Jenny Troast 9/17/98 13:45		Doug 9/17

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Date: September 4, 1998

Weston
3 Hawthorne Parkway
Vernon Hills, IL 60061
Attention: Jameel Ahmed

Project: Techalloy, Cluster Well

Enclosed are the results from 3 water samples received at Great Lakes Analytical on August 31, 1998. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
8085431	Water: MW-S	8/30/98	VOC, EPA 8260
8085432	Water: MW-I	8/30/98	VOC, EPA 8260
8085433	Water: MW-D	8/30/98	VOC, EPA 8260

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

GREAT LAKES ANALYTICAL

Jim Dawson

Kevin W. Keeley
Laboratory Director

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Techalloy, Cluster Well	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: MW-S	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5431	Analyzed:	Sep 3, 1998
			Reported:	Sep 4, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	2.0	N.D.
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowsey for

Kevin W. Keeley
Laboratory Director

8085431.wst <1>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Techalloy, Cluster Well	Sampled:	Aug 30, 1998
3 Hawthorne Parkway	Sample Descript:	Water: MW-I	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5432	Analyzed:	Sep 3, 1998
			Reported:	Sep 4, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	**2.0**	**10**
cis 1,2-Dichloroethene	**2.0**	**5.9**
trans 1,2-Dichloroethene	2.0	N.D.
1,2-Dichloropropane	2.0	N.D.
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	**2.0**	**2.2**
Toluene	2.0	N.D.
1,1,1-Trichloroethane	**2.0**	**100**
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	**2.0**	**13**
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowsey for

Kevin W. Keeley
Laboratory Director

8085431.wst <2>

GREAT LAKES ANALYTICAL

1380 Busch Parkway
Buffalo Grove, Illinois 60089

Email: info@glalabs.com
(847) 808-7766 FAX (847) 808-7772

Weston	Client Project ID:	Techalloy, Cluster Well	Sampled:	Aug 30, 1998
, Hawthorne Parkway	Sample Descript:	Water: MW-D	Received:	Aug 31, 1998
Vernon Hills, IL 60061	Analysis Method:	EPA 8260		
Attention: Jameel Ahmed	Lab Number:	808-5433	Analyzed:	Sep 3, 1998
			Reported:	Sep 4, 1998

VOLATILE ORGANICS by GC/MS (EPA 8260)

Analyte	Detection Limit µg/L	Sample Results µg/L
Acetone	10	N.D.
Benzene	2.0	N.D.
Bromodichloromethane	2.0	N.D.
Bromoform	2.0	N.D.
Bromomethane	2.0	N.D.
2-Butanone	10	N.D.
Carbon disulfide	2.0	N.D.
Carbon tetrachloride	2.0	N.D.
Chlorobenzene	2.0	N.D.
Chlorodibromomethane	2.0	N.D.
Chloroethane	2.0	N.D.
2-Chloroethyl vinyl ether	10	N.D.
Chloroform	2.0	N.D.
Chloromethane	2.0	N.D.
1,1-Dichloroethane	2.0	N.D.
1,2-Dichloroethane	2.0	N.D.
1,1-Dichloroethene	**2.0**	**5.5**
cis 1,2-Dichloroethene	2.0	N.D.
trans 1,2-Dichloroethene	**2.0**	**2.2**
1,2-Dichloropropane	**2.0**	**2.4**
cis 1,3-Dichloropropene	2.0	N.D.
trans 1,3-Dichloropropene	2.0	N.D.
Ethylbenzene	2.0	N.D.
2-Hexanone	10	N.D.
Methylene chloride	2.0	N.D.
4-Methyl-2-pentanone	10	N.D.
Styrene	2.0	N.D.
1,1,2,2-Tetrachloroethane	2.0	N.D.
Tetrachloroethene	2.0	N.D.
Toluene	2.0	N.D.
1,1,1-Trichloroethane	2.0	N.D.
1,1,2-Trichloroethane	2.0	N.D.
Trichloroethene	2.0	N.D.
Trichlorofluoromethane	2.0	N.D.
Vinyl acetate	2.0	N.D.
Vinyl chloride	2.0	N.D.
Total Xylenes	2.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

GREAT LAKES ANALYTICAL

Jim Dowse for

Kevin W. Keeley
Laboratory Director

8085431.wst <3>

Accreditations/Certifications: Delaware IL 069; Illinois EPA-100261; New Jersey DEP-54001; New York DOH-11487; Tennessee DOH-02804; Tennessee DEC; USACE; Virginia 00164; Wisconsin DNR-999917160

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

2072 Watertown Road
Brookfield, WI 53501
(414) 798-1030
FAX (414) 798-1066

9/8/98

Client: WESTON (Techalloy)	Bill To: Scott Carr	TAT: (5 DAY) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address: 3 Hawthorn Pkwy Suite 400	Address: Techalloy Company, Inc	DATE RESULTS NEEDED: STD TAT
Vernon Hills, IL 60061	6509 Olson Rd, Union, IL 60180	TEMPERATURE UPON RECEIPT: ON ICE +6.1°C
Report to: Jamal Ahmed; Phone #: (847) 918-4021; Fax #: (847) 918-4055	State & Program: ILLINOIS; Phone #: (815) 923-2131; Fax #: (815) 923-2034	AIR BILL NO. Client D/O

Project: Techalloy - Cluster well
Sampler: Jamal Ahmed
PO/Quote #: Call Techalloy

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS	VOC 8260	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	LABORATORY ID NUMBER
1	MW-S	8/30/98	1440	WATER	HCl	2	Glass	✓			✓	8085431
2	MW-I	↓	1515	↓	↓	2	↓	✓			✓	8085432
3	MW-D	↓	1550	↓	↓	2	↓	✓			✓	8085433
4												
5												
6												
7												
8												
9												
10												

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
Jamal Ahmed 8/31/98 TIME	K. Kell 8/31/98 TIME	DATE TIME	DATE TIME
RELINQUISHED DATE TIME	RECEIVED DATE TIME	RELINQUISHED DATE TIME	RECEIVED DATE TIME

COMMENTS:

PAGE 1 OF 1

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive

Re: Results of Private Well semi-annual sampling of August 1998

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\HOME\KITTOS\WPDATA\SERNA\RESWL.98

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive

Re: Results of Private Well semi-annual sampling of August 1998.

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant level (MCL). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\HOME\KITTOS\WPDATA\SERNA\RESWL.98

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive

Re: Results of Private Well semi-annual sampling of August 1998

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds are present above the U.S. EPA maximum contaminant level (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\PUBLIC\Non-responsive\KITTOS\WPDATA\SERNA\RESWL.98

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive

Re: Results of Private Well semi-annual sampling of August 1998

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County, Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive [redacted]

Re: Results of Private Well semi-annual sampling of August 1998

Dear [redacted]

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at [redacted] The laboratory results indicate that no compounds have concentration that exceed the United States Environmental Protection Agency (U.S. EPA) maximum contaminant level (MCL). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
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David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

5 October 1998

Non-responsive

Re: Results of Private Well semi-annual sampling of August 1998

Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant levels (MCLs) except for trichlorethene (TCE) which was detected at a concentration of 6 µg/L. This is slightly higher than the MCL of 5 µg/L. In accordance with the Administrative Order of Consent (AOC) signed between U.S. EPA and Techalloy, two additional samples of RW-10 were collected on 16 September, 1998 and analyzed for VOCs. The results of the resampled private well water indicated that the duplicate samples (RW-10-11-1 and RW-10-11-2) from the Swanson residence did not indicate concentrations of contaminants above MCLs. The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

14 April 1998

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-031-001

Re: Results of Private Well Sampling for Techalloy Company in Union, Illinois

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON®) is providing U.S. EPA with the February 1998 semi-annual groundwater analytical results for private well sampling performed for the Techalloy Company in Union, Illinois. The sampling was conducted in accordance with the Private Well Sampling Plan (PWSP) dated May 1993.

A total of six private wells were sampled on 20 February 1998. Each of these private wells were analyzed for volatile organic compounds (VOCs) by GC/MS (Method 8260A), and total and dissolved metals. The analytical results are summarized in Table 1. Analyses were performed by RECRA Labnet of University Park, Illinois.

The results indicate that no compounds of concern are present in any of the sampled well waters at a concentration above the U.S. EPA maximum contaminant levels (MCLs).

All residential well owners have been notified in writing of the results (copies of the letters enclosed) of this sampling event and that their water did not show any constituents above the MCLs.

Groundwater samples collected from the three downgradient monitoring wells [shallow (MW-S), intermediate (MW-I), and deep (MW-D)] were analyzed for VOCs as part of the quarterly sampling program. Analytical results for the shallow, intermediate, and deep monitoring wells are summarized in Table 2. The concentration of VOCs were as follows:

- Vinyl Chloride was detected in MW-D at 1 μg/L .
- Chloroethane was detected in MW-D at 1 μg/L.
- 1,1-DCE was detected in MW-I and MW-D at 6 and 4 μg/L, respectively.
- 1,2-DCE (total) was detected in MW-I and MW-D at 1 and 2 μg/L, respectively.
- 1,1-DCA was detected in MW-I and MW-D at 0.6 and 2 μg/L, respectively.
- 1,1,1-TCA was detected in MW-I at 13 μg/L.
- TCE was detected in MW-S and MW-I at 0.6 and 4 μg/L, respectively.

Click to WESTON On The Web http://www.rfweston.com

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

CJS/slr

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

Table 1
Summary of Volatile Organic Compounds
Private Well Sampling (February 1998)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-10	RW-03-10	RW-04-10	RW-10-10	RW-11-10	RW-JEN-10	RW-JEN-10DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Chloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Acetone	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methylene chloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Butanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chloroform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Table 1
Summary of Volatile Organic Compounds
Private Well Sampling (February 1998)
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98
Matrix:	Water	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-10	RW-03-10	RW-04-10	RW-10-10	RW-11-10	RW-JEN-10	RW-JEN-10DUP
Units:	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

U - Non-detectable level.
All VOCs in Trip Blank (TB021898) and Field Blank (FB-01) were also at non-detectable levels

Table 1
Summary of Total/Soluble Metals
Private Well Sampling (February 1998)
Techalloy Company, Inc.
Union, Illinois

Sample Date:	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98	02/20/98
Matrix:	Water	Water	Water	Water	Water	Water
Location:	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well	Residential Well
Sample I.D.	RW-01-10	RW-03-10	RW-04-10	RW-10-10	RW-11-10	RW-JEN-10
Units:	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Total Metals						
Arsenic, Total	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Barium, Total	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Total	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Mercury, Total	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Total	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Total	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Soluble Metals						
Arsenic, Soluble	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U
Barium, Soluble	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Cadmium, Soluble	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Chromium, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Copper, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Mercury, Soluble	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel, Soluble	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Lead, Soluble	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U	0.0020 U

U - Non-detectable level.

Table 2
Summary of Volatile Organic Compounds
Cluster Well Sampling (Quarterly)
February 1998
Techalloy Company, Inc.
Union, Illinois

Sample Date:	02/20/98	02/20/98	02/20/98
Matrix:	Water	Water	Water
Cluster Well Type	Shallow	Intermediate	Deep
Sample I.D.	MW-S	MW-I	MW-D
Units:	(ug/L)	(ug/L)	(ug/L)
Chloromethane	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5 U	0.5 U	1.0
Bromomethane	0.5 U	0.5 U	0.5 U
Chloroethane	0.5 U	0.5 U	1.0
1,1-Dichloroethene	0.5 U	6.0	4.0
Acetone	2 U	2 U	2 U
Carbon Disulfide	2 U	2 U	2 U
Methylene chloride	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	0.5 U	1.0	2.0
1,1-Dichloroethane	0.5 U	0.6	2.0
Vinyl acetate	2 U	2 U	2 U
2-Butanone	2 U	2 U	2 U
Chloroform	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	0.5 U	13.0	0.5 U
Carbon Tetrachloride	0.5 U	0.5 U	0.5 U
Benzene	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5 U	0.5 U	0.5 U
Trichloroethene	0.6	4.0	0.5 U
1,2-Dichloropropane	0.5 U	0.5 U	0.5 U
Bromodichloromethane	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U
4-Methyl-2-pentanone	2 U	2 U	2 U
Toluene	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	0.5 U	0.5 U	0.5 U

Table 2
Summary of Volatile Organic Compounds
Cluster Well Sampling (Quarterly)
February 1998
Techalloy Company, Inc.
Union, Illinois
(Continued)

Sample Date:	**02/20/98**	**02/20/98**	**02/20/98**
Matrix:	**Water**	**Water**	**Water**
Cluster Well Type	**Shallow**	**Intermediate**	**Deep**
Sample I.D.	**MW-S**	**MW-I**	**MW-D**
Units:	**(ug/L)**	**(ug/L)**	**(ug/L)**
Tetrachloroethene	0.5 U	0.5 U	0.5 U
2-Hexanone	2 U	2 U	2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U

U - Non-detectable level.

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

15 April 1998

Non-responsive

Re: Results of Private Well Semi-Annual Sampling of February 1998.

Dear Non-responsive

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at Non-responsive The laboratory results indicate that no compounds of concern are present in the well water at concentrations above the U.S. EPA maximum contaminant level (MCL). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

15 April 1998

Non-responsive [redacted]

Re: Results of Private Well Semi-Annual Sampling of February 1998

Dear [redacted]

Roy F. Weston, Inc. (WESTON) has received the results of the analytical testing of the well water at [redacted] The laboratory results indicate that no compounds are present above the U.S. EPA maximum contaminant level (MCLs). The MCLs are the maximum allowable concentration levels that U.S EPA will allow for compounds in a public water supply. These results indicate that no corrective action is required for this water supply. WESTON will be contacting you again for the next round of semi-annual sampling event.

Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
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Click to WESTON On The Web http://www.rfweston.com

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15 April 1998

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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15 April 1998

Non-responsive

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

CH01\WO\W1500\TECHALL\25350LTRS.DOC

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15 April 1998

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Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County, Health Dept.

CH01\WO\W1500\TECHALL\25350LTRS.DOC

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15 April 1998

Non-responsive

Re: Results of Private Well Semi-Annual Sampling of February 1998

Dear Non-responsive

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Thank you very much for your cooperation in this matter. If you have any questions regarding this information, please feel free to contact WESTON at (847) 918-4002.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

cc: William Buller, U.S. EPA
Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy
Patrick McNulty, McHenry County Health Dept.

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WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT Techalloy W.O. NO. ____

TASK DESCRIPTION Data Compliance Check TASK NO. ____

PREPARED BY T. Balla DEPT 1179 DATE 4/13/98

MATH CHECK BY ____ DEPT ____ DATE ____

METHOD REV. BY ____ DEPT ____ DATE ____

APPROVED BY ____ DEPT ____ DATE ____

Lot 9802G468

Inorganics (Total & Soluble)

Client ID	Sample #	Sample Date	Analysis Dates
RW-01-10	001	2/20	2/23 → 3/5
RW-01-10	002		2/25 → 3/6
RW-03-10	003		2/23 → 3/4
RW-03-10	004		2/25 → 3/5
RW-04-10	005		2/23 → 3/4
RW-04-10	006		2/25 → 3/5
RW-10-10	007		2/23 → 3/4
RW-10-10	008		2/25 → 3/5
RW-11-10	009		2/23 → 3/4
RW-11-10	010		2/25 - 3/5
RW-JEN	011		2/23 → 3/4
RW-JEN	012		2/25 → 3/4
RW-JEN-DUP	013		2/23 → 3/4
RW-JEN-DUP	014		2/25 → 3/5
FB04	015		2/23 → 3/4
FB01	016	2/20	2/25 → 3/5

1. All holding times are acceptable

2. Method Blank (MB)
All MB results were non-detect

3. Precision
All precision results are acceptable

4 Accuracy
All results are within required ranges.

5 Lab Control Sample - All results are within required QC limit

6. Field Dups
RW-JEN & RWJENDP are field dups that show good correlati

7. Field Blank
The field blank is free of contamina

WESTON
MANAGERS DESIGNERS/CONSULTANTS

SHEET ____ of ____

CLIENT/SUBJECT _____ W.O. NO. _____

TASK DESCRIPTION _____ TASK NO. _____

PREPARED BY _____ DEPT _____ DATE _____

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____

DEPT _____ DATE _____

LOT 9802G468
Vol. Method 8260

1. Holding times are acceptable for all volatiles.

2 Method Blanks
All MB blanks (VBLKOH, ~~VBLKOHBS~~, VBLKHO, ~~VB~~) are non-detect.

3. Surrogate
Sample surrogate recoveries are within acceptable QC limits.

4. Matrix Spike / Matrix Spike Dup
Benzene was low outside QC limits for the MSD. However, benzene was not detected in the corresponding sample. No qualifications are necessary. All other results are acceptable.

5. Field & Trip Blanks
There was one field blank & one trip blank. Neither sample contained any compounds above the detection limit. All results are acceptable.

6. Field Dups
RW-JEN & RW-JEN/DUP are field duplicates that show good correlation.

GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Data Qualifiers

B	Compound was found in the blank and the sample
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" to indicate an interference
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)
M	Summary Compound
(M)	Manually integrated compound
N	Positive ID of a TIC that is not quantitated against a standard and must be accompanied by a CAS No.
T	Compound was found in the TCLP extraction blank and the sample
u	Analyte was not detected at or above the reporting limit
X	Result obtained indirectly through calculation based on results from other analyses

Abbreviations

Batch	Designation given to identify a specific extraction, digestion or preparation set (equivalent to prep batch)
BS	Blank spike analysis was conducted on reagent grade water or a matrix free from the analyte of interest
BSD	Blank spike duplicate
BRL	Below reporting limit
CAP	Capillary Column
CD	Calculation factor used by the Laboratory's Information Management System (LIMS)
Contract	Contract laboratory identification code
DF	Dilution factor
DL	Appears in the sample ID to indicate a secondary dilution was performed
LCS/LC	Denotes laboratory control standard
LAB ID	The full 12 character Recra laboratory identification number (equivalent to RFW#)
MB	Method blank or (PB) preparation blank
MS	Matrix spike
MSD	Matrix spike duplicate
NA	Not applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not required
NS	Not spiked
PACK	Packed Column
RE	Appears in the sample ID to indicate a re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character Recra laboratory identification number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative percent difference of duplicate (unrounded) analyses
RRF	Relative response factor
RT	Retention time
RTW	Retention time window
SP	Blank spike, blank spike duplicate, matrix spike or matrix spike duplicate
WO#	Work order no. Recra code used to define a specific client, job, phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.

CHI 22-05-004/D-6/97

Recra LabNet - Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-10							
ARSENIC, TOTAL	001	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
ARSENIC, TOTAL	001 REP	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
ARSENIC, TOTAL	001 MS	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, SERIAL DILUT	001 L	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
BARIUM, TOTAL	001	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
BARIUM, TOTAL	001 REP	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
BARIUM, TOTAL	001 MS	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, SERIAL DILU	001 L	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	001	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	001 REP	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	001 MS	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, SERIAL DIL	001 L	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	001	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	001 REP	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	001 MS	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, SERIAL DILUT	001 L	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	001	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	001 REP	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	001 MS	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	001	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, SERIAL DILUT	001 L	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
NICKEL, TOTAL	001	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
NICKEL, TOTAL	001 REP	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
NICKEL, TOTAL	001 MS	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	001	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
LEAD, TOTAL	001 REP	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
LEAD, TOTAL	001 MS	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
ARSENIC, SOLUBLE	002 REP	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
ARSENIC, SOLUBLE	002 MS	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	002	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	002	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	002	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98

Recra LabNet - Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
LEAD, SOLUBLE	002 REP	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
LEAD, SOLUBLE	002 MS	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
RW-03-10							
ARSENIC, TOTAL	003	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	003	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	003	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	003	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	003	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	003	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	003	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	003	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	004	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	004	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	004	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
RW-04-10							
ARSENIC, TOTAL	005	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	005	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	005	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	005	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	005	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	005	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
MERCURY, TOTAL	005 REP	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
MERCURY, TOTAL	005 MS	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	005	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	005	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	006	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98

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RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
NICKEL, SOLUBLE	006	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	006	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
RW-10-10							
ARSENIC, TOTAL	007	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	007	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	007	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	007	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	007	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	007	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	007	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	007	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	008	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	008	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	008	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
RW-11-10							
ARSENIC, TOTAL	009	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	009	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	009	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	009	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	009	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	009	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	009	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	009	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	010	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	010	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	010	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98

Recra LabNet - Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-JEN							
ARSENIC, TOTAL	011	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	011	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	011	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	011	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	011	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	011	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	011	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	011	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	012	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	012	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	012	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
RW-JEN-DUP							
ARSENIC, TOTAL	013	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	013	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	013	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	013	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	013	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	013	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	013	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	013	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	014	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	014	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	014	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98

Recra LabNet - Chicago
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RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
FB-01							
ARSENIC, TOTAL	015	W	98GF085	02/20/98	02/21/98	02/23/98	03/03/98
BARIUM, TOTAL	015	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CADMIUM, TOTAL	015	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
CHROMIUM, TOTAL	015	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
COPPER, TOTAL	015	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
MERCURY, TOTAL	015	W	98HG428	02/20/98	02/21/98	03/04/98	03/04/98
NICKEL, TOTAL	015	W	98GI246	02/20/98	02/21/98	02/25/98	02/27/98
LEAD, TOTAL	015	W	98GF085	02/20/98	02/21/98	02/23/98	02/24/98
ARSENIC, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/06/98	03/06/98
BARIUM, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CADMIUM, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
CHROMIUM, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
COPPER, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
MERCURY, SOLUBLE	016	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
MERCURY, SOLUBLE	016 REP	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
MERCURY, SOLUBLE	016 MS	W	98HG430	02/20/98	02/21/98	03/05/98	03/05/98
NICKEL, SOLUBLE	016	W	NONE	02/20/98	02/21/98	03/03/98	03/03/98
LEAD, SOLUBLE	016	W	NONE	02/20/98	02/21/98	02/25/98	02/25/98
LAB QC:							
ARSENIC LABORATORY	LC1 BS	W	98GF085	N/A	N/A	02/23/98	03/03/98
LEAD LABORATORY	LC1 BS	W	98GF085	N/A	N/A	02/23/98	02/24/98
ARSENIC LABORATORY	LC2 BS	W	98GF085	N/A	N/A	02/23/98	03/03/98
LEAD LABORATORY	LC2 BS	W	98GF085	N/A	N/A	02/23/98	02/24/98
ARSENIC, TOTAL	MB1	W	98GF085	N/A	N/A	02/23/98	03/03/98
LEAD, TOTAL	MB1	W	98GF085	N/A	N/A	02/23/98	02/24/98
BARIUM LABORATORY	LC1 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
CADMIUM LABORATORY	LC1 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
CHROMIUM LABORATORY	LC1 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
COPPER LABORATORY	LC1 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
NICKEL LABORATORY	LC1 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
BARIUM LABORATORY	LC2 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
CADMIUM LABORATORY	LC2 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98

Recra LabNet - Chicago
INORGANIC ANALYTICAL DATA PACKAGE FOR
RFW-Techalloy

LABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID /ANALYSIS	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
CHROMIUM LABORATORY	LC2 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
COPPER LABORATORY	LC2 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
NICKEL LABORATORY	LC2 BS	W	98GI246	N/A	N/A	02/25/98	02/27/98
BARIUM, TOTAL	MB1	W	98GI246	N/A	N/A	02/25/98	02/27/98
CADMIUM, TOTAL	MB1	W	98GI246	N/A	N/A	02/25/98	02/27/98
CHROMIUM, TOTAL	MB1	W	98GI246	N/A	N/A	02/25/98	02/27/98
COPPER, TOTAL	MB1	W	98GI246	N/A	N/A	02/25/98	02/27/98
NICKEL, TOTAL	MB1	W	98GI246	N/A	N/A	02/25/98	02/27/98
MERCURY LABORATORY	LC1 BS	W	98HG428	N/A	N/A	03/04/98	03/04/98
MERCURY LABORATORY	LC2 BS	W	98HG428	N/A	N/A	03/04/98	03/04/98
MERCURY, TOTAL	MB1	W	98HG428	N/A	N/A	03/04/98	03/04/98
MERCURY LABORATORY	LC1 BS	W	98HG430	N/A	N/A	03/05/98	03/05/98
MERCURY LABORATORY	LC2 BS	W	98HG430	N/A	N/A	03/05/98	03/05/98
MERCURY, TOTAL	MB1	W	98HG430	N/A	N/A	03/05/98	03/05/98

IGNATURE [signature] DATE 3/16/98

NY CERTIFICATION # 11006

Recra LabNet - Chicago
METALS METHOD REFERENCE

The following methods are used as reference for the analysis of samples contained with this RFW Lot: 9802G468

SW846	**6010A** __Ag __Al __As __B ✓Ba __Be __Ca ✓Cd __Co ✓Cr ✓Cu __Fe __K __Li __Mg __Mn __Mo __Na ✓Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag7761 ✓As7060A __Cd7131A __Cr7191 __Cu7211 ✓Hg7470A __Hg7471A ✓Pb7421 __Sb7041 __Se7740 __Tl7841
EPA	**200.7** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __Ag272.2 __As206.2 __Cd213.2 __Cr218.2 __Cu220.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 **200.9** __As __Cd __Pb __Sb __Se __Tl
CLP **ILM03.0** **ILM04.0**	**200.7 CLP-M** __Ag __Al __As __B __Ba __Be __Ca __Cd __Co __Cr __Cu __Fe __K __Li __Mg __Mn __Mo __Na __Ni __P __Pb __Sb __Se __Si __Sn __Sr __Ti __Tl __V __Zn __As206.2 __Cd213.2 __Hg245.1 __Hg245.5 __Pb239.2 __Sb204.2 __Se270.2 __Tl279.2 __Cn335.2
Digestion Method	**SW846** __3005A ✓3010A __3020A ✓3020A(+H2O2) __3050A __7060A/7740 __7470A __7471A **EPA** __200.7 __200.0(+H2O2) __200.9(-HCL;+H2O2) **USEPA/CLP** __ILM03.0 Exhibit D, Section III __ILM04.0 Exhibit D, Section III
Extraction Method	**SW846** __1311TCLP __1312SPLP __1320MEP Using TCLP **ASTM** __D3987 Neutral Leach **CAM Title 22** __W.E.T.
%Solids	__SM 2540G __ASTM D2216 __Exhibit D Part F

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-01-10
Project # 01989-031-001-9999
Lab ID: 9802G468-001
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-01-10
Project # 01989-031-001-9999
Lab ID: 9802G468-002
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-03-10
Project # 01989-031-001-9999
Lab ID: 9802G468-003
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: **RFW-Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Monday March 16th, 1998

RE: **RW-03-10**
Project # 01989-031-001-9999
Lab ID: **9802G468-004**
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-04-10
Project # 01989-031-001-9999
Lab ID: 9802G468-005
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-04-10
Project # 01989-031-001-9999
Lab ID: 9802G468-006
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-007
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-008
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-11-10
Project # 01989-031-001-9999
Lab ID: 9802G468-009
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-11-10
Project # 01989-031-001-9999
Lab ID: 9802G468-010
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **RFW-Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Monday March 16th, 1998

RE: **RW-JEN**
Project # 01989-031-001-9999
Lab ID: **9802G468-011**
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result	Units	Reporting Limit
Arsenic, Total	0.0020 u	mg/L	0.0020
Barium, Total	0.050 u	mg/L	0.050
Cadmium, Total	0.010 u	mg/L	0.010
Chromium, Total	0.020 u	mg/L	0.020
Copper, Total	0.020 u	mg/L	0.020
Mercury, Total	0.00020 u	mg/L	0.00020
Nickel, Total	0.020 u	mg/L	0.020
Lead, Total	0.0020 u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-JEN
Project # 01989-031-001-9999
Lab ID: 9802G468-012
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: **RFW-Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Monday March 16th, 1998

RE: **RW-JEN-DUP**
Project # 01989-031-001-9999
Lab ID: **9802G468-013**
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: RW-JEN-DUP
Project # 01989-031-001-9999
Lab ID: 9802G468-014
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: FB-01
Project # 01989-031-001-9999
Lab ID: 9802G468-015
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Total	0.0020	u	mg/L	0.0020
Barium, Total	0.050	u	mg/L	0.050
Cadmium, Total	0.010	u	mg/L	0.010
Chromium, Total	0.020	u	mg/L	0.020
Copper, Total	0.020	u	mg/L	0.020
Mercury, Total	0.00020	u	mg/L	0.00020
Nickel, Total	0.020	u	mg/L	0.020
Lead, Total	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

RE: FB-01
Project # 01989-031-001-9999
Lab ID: 9802G468-016
Sample Date: 02/20/98
Date Received: 02/21/98

Metals Data Report

Parameters	Result		Units	Reporting Limit
Arsenic, Soluble	0.0020	u	mg/L	0.0020
Barium, Soluble	0.050	u	mg/L	0.050
Cadmium, Soluble	0.010	u	mg/L	0.010
Chromium, Soluble	0.020	u	mg/L	0.020
Copper, Soluble	0.020	u	mg/L	0.020
Mercury, Soluble	0.00020	u	mg/L	0.00020
Nickel, Soluble	0.020	u	mg/L	0.020
Lead, Soluble	0.0020	u	mg/L	0.0020

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

Project # 01989-031-001-9999
Lab Batch: 9802G468

Inorganic Method Blank Data Report

Sample	Lab ID	Parameter	Result		Units	Reporting Limit
Blank 1	98GF085-MB1	Arsenic, Total	0.0020	u	mg/L	0.0020
		Lead, Total	0.0020	u	mg/L	0.0020
Blank 1	98GI246-MB1	Barium, Total	0.050	u	mg/L	0.050
		Cadmium, Total	0.010	u	mg/L	0.010
		Chromium, Total	0.020	u	mg/L	0.020
		Copper, Total	0.020	u	mg/L	0.020
		Nickel, Total	0.020	u	mg/L	0.020
Blank 1	98HG428-MB1	Mercury, Total	0.00020	u	mg/L	0.00020
Blank 1	98HG430-MB1	Mercury, Total	0.00020	u	mg/L	0.00020

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

Project # 01989-031-001-9999
Lab Batch: 9802G468

Inorganic Precision Data Report

Sample	Site ID	Parameter	Initial Result	Replicate	RPD
-001REP	RW-01-10	Arsenic, Total	0.0020 u	0.0020 u	NC
		Barium, Total	0.050 u	0.050 u	NC
		Cadmium, Total	0.010 u	0.010 u	NC
		Chromium, Total	0.020 u	0.020 u	NC
		Copper, Total	0.020 u	0.020 u	NC
		Nickel, Total	0.020 u	0.020 u	NC
		Lead, Total	0.0020 u	0.0020 u	NC
-002REP	RW-01-10	Arsenic, Soluble	0.0020 u	0.0020 u	NC
		Lead, Soluble	0.0020 u	0.0020 u	NC
-005REP	RW-04-10	Mercury, Total	0.00020 u	0.00020 u	NC
-016REP	FB-01	Mercury, Soluble	0.00020 u	0.00020 u	NC

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

Project # 01989-031-001-9999
Lab Batch: 9802G468

Inorganic Accuracy Data Report

Sample	Site ID	Parameter	Spiked Sample	Initial Result		Spiked Amount	% Recov
-001	RW-01-10	Arsenic, Total	0.038	0.0020	u	0.040	94.4
		Barium, Total	1.9	0.050	u	2.0	93.1
		Cadmium, Total	0.043	0.010	u	0.050	86.9
		Chromium, Total	0.18	0.020	u	0.20	90.9
		Copper, Total	0.24	0.020	u	0.25	94.0
		Nickel, Total	0.47	0.020	u	0.50	93.5
		Lead, Total	0.020	0.0020	u	0.020	99.0
-002	RW-01-10	Arsenic, Soluble	0.048	0.0020	u	0.040	121
		Lead, Soluble	0.023	0.0020	u	0.020	114
-005	RW-04-10	Mercury, Total	0.00095	0.00020	u	0.0010	95.2
-016	FB-01	Mercury, Soluble	0.00094	0.00020	u	0.0010	93.6

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Monday March 16th, 1998

Project # 01989-031-001-9999
Lab Batch: 9802G468

Inorganic Laboratory Control Standards Report

Lab ID	Parameter	Spiked Amount	Units	Spike #1 % Recov.	Spike #2 % Recov.	RPD
98GF085-LC1	Arsenic, LCS	0.040	mg/L	93.6	97.0	3.6
	Lead, LCS	0.020	mg/L	105	100	4.4
98GI246-LC1	Barium, LCS	2.0	mg/L	93.9	92.8	1.2
	Cadmium, LCS	0.050	mg/L	88.4	86.9	1.7
	Chromium, LCS	0.20	mg/L	94.0	93.9	0.080
	Copper, LCS	0.25	mg/L	93.6	92.9	0.75
	Nickel, LCS	0.50	mg/L	97.1	95.1	2.1
98HG428-LC1	Mercury, LCS	0.0020	mg/L	101	101	0.30
98HG430-LC1	Mercury, LCS	0.0020	mg/L	103	103	0.63

Recra LabNet - Chicago
8260 ANALYTICAL DATA PACKAGE FOR
RFW-Techalloy

ABORATORY CHRONICLE

LOT # :9802G468

CLIENT ID	Sample #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
RW-01-10	001	W	98GVF074	02/20/98	02/21/98	N/A	03/03/98
RW-03-10	003	W	98GVF074	02/20/98	02/21/98	N/A	03/03/98
RW-04-10	005	W	98GVF074	02/20/98	02/21/98	N/A	03/04/98
RW-10-10	007	W	98GVF074	02/20/98	02/21/98	N/A	03/04/98
RW-11-10	009	W	98GVF074	02/20/98	02/21/98	N/A	03/04/98
RW-JEN	011	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98
RW-JEN-DUP	013	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98
FB-01	015	W	98GVF074	02/20/98	02/21/98	N/A	03/04/98
TB021898	017	W	98GVF074	02/20/98	02/21/98	N/A	03/03/98
MW-S	018	W	98GVF074	02/20/98	02/21/98	N/A	03/04/98
MW-I	019	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98
MW-D	020	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98
MW-D	020 MS	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98
MW-D	020 MSD	W	98GVF067	02/20/98	02/21/98	N/A	03/04/98

LAB QC:

VBLKOH	MB1	W	98GVF074	N/A	N/A	N/A	03/03/98
VBLKOH	MB1 BS	W	98GVF074	N/A	N/A	N/A	03/03/98
VBLKHO	MB1	W	98GVF067	N/A	N/A	N/A	03/04/98
VBLKHO	MB1 BS	W	98GVF067	N/A	N/A	N/A	03/04/98

SIGNATURE _____ DATE 3/31/98

NY CERTIFICATION # 11006

Recra LabNet - Chicago

Method Reference

The following methods are used as reference for the analysis of samples contained within this RFW Lot :

GC/MS VOLATILES

____ SW-846 8240A
____ SW-846 8240B
____ SW-846 8260
__✓__ SW-846 8260A
____ EPA 524.2
____ 40 CFR Part 136, Method 624
____ CLP 2/88
____ CLP OLM01.8
____ CLP OLM03.1
____ OLC02.0

GC/MS SEMIVOLATILES

____ SW-846 8270A
____ SW-846 8270B
____ 40 CFR Part 136, Method 625
____ CLP 2/88
____ CLP OLM01.8
____ CLP OLM03.1
____ OLC02.0

GC VOLATILES

____ SW-846 8010A
____ 40 CFR Part 136, Method 601
____ SW-846 8020A
____ 40 CFR Part 136, Method 602
____ SW-846 8021
____ SW-846 8030
____ 40 CFR Part 136, Method 603
____ SW-846 8015 Mod

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-01-10
Project # 01989-031-001-9999
Lab ID: 9802G468-001
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

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Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-01-10
Project # 01989-031-001-9999
Lab ID: 9802G468-001
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

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Date: Friday March 13th, 1998

RE: RW-01-10
Project # 01989-031-001-9999
Lab ID: 9802G468-001
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-03-10
Project # 01989-031-001-9999
Lab ID: 9802G468-003
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-03-10
Project # 01989-031-001-9999
Lab ID: 9802G468-003
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	0.5	0.5	
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

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Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-03-10
Project # 01989-031-001-9999
Lab ID: 9802G468-003
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-04-10
Project # 01989-031-001-9999
Lab ID: 9802G468-005
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-04-10
Project # 01989-031-001-9999
Lab ID: 9802G468-005
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	.2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-04-10
Project # 01989-031-001-9999
Lab ID: 9802G468-005
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-007
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-007
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-007
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-10-10
Project # 01989-031-001-9999
Lab ID: 9802G468-007
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-11-10
Project # 01989-031-001-9999
Lab ID: 9802G468-009
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-11-10
Project # 01989-031-001-9999
Lab ID: 9802G468-009
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-11-10
Project # 01989-031-001-9999
Lab ID: 9802G468-009
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-JEN
Project # 01989-031-001-9999
Lab ID: 9802G468-011
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-JEN
Project # 01989-031-001-9999
Lab ID: 9802G468-011
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-JEN
Project # 01989-031-001-9999
Lab ID: 9802G468-011
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-JEN-DUP
Project # 01989-031-001-9999
Lab ID: 9802G468-013
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: **RFW-Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Friday March 13th, 1998

RE: **RW-JEN-DUP**
Project # 01989-031-001-9999
Lab ID: **9802G468-013**
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: RW-JEN-DUP
Project # 01989-031-001-9999
Lab ID: 9802G468-013
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: FB-01
Project # 01989-031-001-9999
Lab ID: 9802G468-015
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: FB-01
Project # 01989-031-001-9999
Lab ID: 9802G468-015
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: FB-01
Project # 01989-031-001-9999
Lab ID: 9802G468-015
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: TB021898
Project # 01989-031-001-9999
Lab ID: 9802G468-017
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: TB021898
Project # 01989-031-001-9999
Lab ID: 9802G468-017
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: TB021898
Project # 01989-031-001-9999
Lab ID: 9802G468-017
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-S
Project # 01989-031-001-9999
Lab ID: 9802G468-018
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	BRL	0.5	U
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	BRL	0.5	U
1,1-Dichloroethane	BRL	0.5	U
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-S
Project # 01989-031-001-9999
Lab ID: 9802G468-018
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	0.6	0.5	
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-S
Project # 01989-031-001-9999
Lab ID: 9802G468-018
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-I
Project # 01989-031-001-9999
Lab ID: 9802G468-019
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	BRL	0.5	U
Bromomethane	BRL	0.5	U
Chloroethane	BRL	0.5	U
1,1-Dichloroethene	6	0.5	
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	1	0.5	
1,1-Dichloroethane	0.6	0.5	
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	13	0.5	
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-I
Project # 01989-031-001-9999
Lab ID: 9802G468-019
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	4	0.5	
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
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Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-I
Project # 01989-031-001-9999
Lab ID: 9802G468-019
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-D
Project # 01989-031-001-9999
Lab ID: 9802G468-020
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	0.5	U
Vinyl chloride	1	0.5	
Bromomethane	BRL	0.5	U
Chloroethane	1	0.5	
1,1-Dichloroethene	4	0.5	
Acetone	BRL	2	U
Carbon Disulfide	BRL	2	U
Methylene Chloride	BRL	0.5	U
1,2-Dichloroethene (total)	2	0.5	
1,1-Dichloroethane	2	0.5	
Vinyl acetate	BRL	2	U
2-Butanone	BRL	2	U
Chloroform	BRL	0.5	U
1,1,1-Trichloroethane	BRL	0.5	U
Carbon Tetrachloride	BRL	0.5	U
Benzene	BRL	0.5	U
1,2-Dichloroethane	BRL	0.5	U

To: RFW-Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-D
Project # 01989-031-001-9999
Lab ID: 9802G468-020
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

METHOD 8260 VOLATILES

Volatile Compound	Result	Reporting Limit	Flag
Trichloroethene	BRL	0.5	U
1,2-Dichloropropane	BRL	0.5	U
Bromodichloromethane	BRL	0.5	U
cis-1,3-Dichloropropene	BRL	0.5	U
4-Methyl-2-pentanone	BRL	2	U
Toluene	BRL	0.5	U
trans-1,3-Dichloropropene	BRL	0.5	U
1,1,2-Trichloroethane	BRL	0.5	U
Tetrachloroethene	BRL	0.5	U
2-Hexanone	BRL	2	U
Dibromochloromethane	BRL	0.5	U
Chlorobenzene	BRL	0.5	U
Ethylbenzene	BRL	0.5	U
Xylene (total)	BRL	0.5	U
Styrene	BRL	0.5	U
Bromoform	BRL	0.5	U
1,1,2,2-Tetrachloroethane	BRL	0.5	U

To: RFW-Techalloy
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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Friday March 13th, 1998

RE: MW-D
Project # 01989-031-001-9999
Lab ID: 9802G468-020
Sample Date: 02/20/98
Date Received: 02/21/98
Units: ug/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Recra LabNet - Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9802G468 Client: RFW-Techalloy Work Order: 01989-031-001-9 Report Date: 03/12/98 15:57 Page: 1a

	Cust ID:	RW-01-10		RW-03-10		RW-04-10		RW-10-10		RW-11-10		RW-JEN	
Sample Information	RFW#:	001		003		005		007		009		011	
	Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1		1		1		1		1		1	
	Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	1,2-Dichloroethane-d4	92	%	97	%	97	%	97	%	102	%	89	%
	Toluene-d8	101	%	101	%	104	%	101	%	105	%	98	%
	4-Bromofluorobenzene	95	%	100	%	104	%	100	%	106	%	98	%
Chloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromomethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Acetone		2	U	2	U	2	U	2	U	2	U	2	U
Carbon Disulfide		2	U	2	U	2	U	2	U	2	U	2	U
Methylene Chloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene (total)		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl acetate		2	U	2	U	2	U	2	U	2	U	2	U
2-Butanone		2	U	2	U	2	U	2	U	2	U	2	U
Chloroform		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Carbon Tetrachloride		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloropropane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone		2	U	2	U	2	U	2	U	2	U	2	U
Toluene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene		0.5	U	0.5		0.5	U	0.5	U	0.5	U	0.5	U

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9802G468 Client: RFW-Techalloy Work Order: 01989-031-001-9 Page: 1b

Cust ID:	RW-01-10	RW-03-10	RW-04-10	RW-10-10	RW-11-10	RW-JEN
RFW#:	001	003	005	007	009	011
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

*= Outside of EPA CLP QC limits.

Recra LabNet - Chicago
METHOD 8260 VOLATILES

Report Date: 03/12/98 15:57

RFW Batch Number: 9802G468 Client: RFW-Techalloy Work Order: 01989-031-001-9 Page: 2a

Cust ID:	RW-JEN-DUP		FB-01		TB021898		MW-S		MW-I		MW-D	
Sample Information RFW#:	013		015		017		018		019		020	
Matrix:	WATER		WATER		WATER		WATER		WATER		WATER	
D.F.:	1		1		1		1		1		1	
Units:	UG/L		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery 1,2-Dichloroethane-d4	95	%	100	%	85	%	98	%	100	%	100	%
Toluene-d8	100	%	101	%	98	%	100	%	102	%	102	%
4-Bromofluorobenzene	102	%	101	%	92	%	101	%	99	%	100	%
Chloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Vinyl chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	
Bromomethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Chloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1	
1,1-Dichloroethene	0.5	U	0.5	U	0.5	U	0.5	U	6		4	
Acetone	2	U	2	U	2	U	2	U	2	U	2	U
Carbon Disulfide	2	U	2	U	2	U	2	U	2	U	2	U
Methylene Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethene (total)	0.5	U	0.5	U	0.5	U	0.5	U	1		2	
1,1-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.6		2	
Vinyl acetate	2	U	2	U	2	U	2	U	2	U	2	U
2-Butanone	2	U	2	U	2	U	2	U	2	U	2	U
Chloroform	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,1-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	13		0.5	U
Carbon Tetrachloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,2-Dichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Trichloroethene	0.5	U	0.5	U	0.5	U	0.6		4		0.5	U
1,2-Dichloropropane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Bromodichloromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
cis-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
4-Methyl-2-pentanone	2	U	2	U	2	U	2	U	2	U	2	U
Toluene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
trans-1,3-Dichloropropene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloroethane	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Tetrachloroethene	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U

*= Outside of EPA CLP QC limits.

RFW Batch Number: 9802G468 Client: RFW-Techalloy Work Order: 01989-031-001-9 Page: 2b

Cust ID:	RW-JEN-DUP	FB-01	TB021898	MW-S	MW-I	MW-D
RFW#:	013	015	017	018	019	020
2-Hexanone	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Xylene (total)	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

*= Outside of EPA CLP QC limits.

Recra LabNet - Chicago
METHOD 8260 VOLATILES

RFW Batch Number: 9802G468 Client: RFW-Techalloy Work Order: 01989-031-001-9 Report Date: 03/12/98 15:57 Page: 3a

Sample Information	Cust ID:	MW-D	MW-D	VBLKOH	VBLKOH BS	VBLKHO	VBLKHO BS
	RFW#:	020 MS	020 MSD	98GVF074-MB1	98GVF074-MB1	98GVF067-MB1	98GVF067-MB1
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1	1	1	1	1	1
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	1,2-Dichloroethane-d4	109 %	94 %	88 %	108 %	96 %	96 %
	Toluene-d8	102 %	95 %	94 %	105 %	102 %	97 %
	4-Bromofluorobenzene	105 %	97 %	91 %	110 %	98 %	101 %
		fl	fl	fl	fl	fl	fl
Chloromethane		100 %	95 %	0.5 U	69 %	0.5 U	107 %
Vinyl chloride		102 %	97 %	0.5 U	76 %	0.5 U	104 %
Bromomethane		74 %	70 %	0.5 U	65 * %	0.5 U	80 %
Chloroethane		106 %	105 %	0.5 U	87 %	0.5 U	111 %
1,1-Dichloroethene		83 %	83 %	0.5 U	71 %	0.5 U	91 %
Acetone		99 %	82 %	2 U	112 %	2 U	118 %
Carbon Disulfide		114 %	103 %	2 U	78 %	2 U	115 %
Methylene Chloride		92 %	82 %	0.5 U	75 %	0.5 U	87 %
1,2-Dichloroethene (total)		96 %	88 %	0.5 U	89 %	0.5 U	92 %
1,1-Dichloroethane		88 %	79 %	0.5 U	77 %	0.5 U	88 %
Vinyl acetate		119 %	110 %	2 U	105 %	2 U	118 %
2-Butanone		93 %	101 %	2 U	86 %	2 U	96 %
Chloroform		97 %	83 %	0.5 U	81 %	0.5 U	89 %
1,1,1-Trichloroethane		101 %	86 %	0.5 U	76 %	0.5 U	84 %
Carbon Tetrachloride		90 %	73 * %	0.5 U	71 * %	0.5 U	81 %
Benzene		96 %	85 %	0.5 U	80 %	0.5 U	88 %
1,2-Dichloroethane		96 %	82 %	0.5 U	80 %	0.5 U	83 %
Trichloroethene		96 %	85 %	0.5 U	83 %	0.5 U	88 %
1,2-Dichloropropane		100 %	87 %	0.5 U	86 %	0.5 U	93 %
Bromodichloromethane		96 %	81 %	0.5 U	81 %	0.5 U	84 %
cis-1,3-Dichloropropene		90 %	78 %	0.5 U	76 %	0.5 U	80 %
4-Methyl-2-pentanone		104 %	103 %	2 U	95 %	2 U	98 %
Toluene		94 %	84 %	0.5 U	81 %	0.5 U	88 %
trans-1,3-Dichloropropene		101 %	87 %	0.5 U	88 %	0.5 U	88 %
1,1,2-Trichloroethane		98 %	89 %	0.5 U	89 %	0.5 U	91 %
Tetrachloroethene		94 %	84 %	0.5 U	86 %	0.5 U	91 %

*= Outside of EPA CLP QC limits.

Cust ID:	MW-D		MW-D		VBLKOH		VBLKOH BS		VBLKHO		VBLKHO BS	
RFW#:	020 MS		020 MSD		98GVF074-MB1		98GVF074-MB1		98GVF067-MB1		98GVF067-MB1	
2-Hexanone	111	%	114	%	2	U	91	%	2	U	109	%
Dibromochloromethane	94	%	82	%	0.5	U	81	%	0.5	U	87	%
Chlorobenzene	97	%	86	%	0.5	U	82	%	0.5	U	90	%
Ethylbenzene	93	%	83	%	0.5	U	79 *	%	0.5	U	90	%
Xylene (total)	104	%	90	%	0.5	U	86	%	0.5	U	96	%
Styrene	94	%	88	%	0.5	U	84	%	0.5	U	94	%
Bromoform	99	%	86	%	0.5	U	88	%	0.5	U	92	%
1,1,2,2-Tetrachloroethane	94	%	92	%	0.5	U	87	%	0.5	U	94	%

*= Outside of EPA CLP QC limits.

RECRA LabNet Use Only
98026448

Custody Transfer Record/Lab Work Request

RECRA LabNet

Refrigerator #

#/Type Container	Liquid	Glass						Plastic	Plastic				
	Solid												
Volume	Liquid	2x40						1L	1L				
	Solid												
Preservatives		HCl						HNO3	HNO3				

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

Date Rec'd _____ Date Due _____
Account # _____

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOA 8260	BNA	Pest/PCB	Herb				Metal Total	CN	Metal Soluble				
001	RW-01-10			W	2/20/98	1045	✓							✓		✓				
002	RW-03-10					1115	✓							✓		✓				
003	RW-04-10					1135	✓							✓		✓				
004	RW-10-10					1335	✓							✓		✓				
005	RW-11-10					1210	✓							✓		✓				
006	RW-JEN					1015	✓							✓		✓				
007	RW-JEN DUP					1015	✓							✓		✓				
Rolled	FB-01					1400	✓							✓		✓				
2/20/98	Trip Blank			↓	↓		✓													

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1. T. B. prep date 2/13/98
2.
3.
4.
5.
6.

RECRA LabNet Use Only

Samples were:
1) Shipped ___ or Hand Delivered X
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 Lables and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
Jamied	Recra Lab	2/20/98	1730
	K. Hem	2/20/98	18:40

Relinquished by	Received by	Date	Time

Page ___ of ___

RECRA LabNet Use Only
98026468

Custody Transfer Record/Lab Work Request

RECRA LabNet

75

[illegible] 2/18/98
[illegible] 031-[illegible]
[illegible] Project Manager: James Mead/Carlin X4000
RECRA Project Manager: Jane [illegible]
Del _____ TAT _____

Date Rec'd _____ Date Due _____
Account # _____

Refrigerator #																			
#/Type Container	Liquid	Glass																	
	Solid																		
Volume	Liquid	2x40																	
	Solid																		
Preservatives		HCl																	
ANALYSES REQUESTED →		ORGANIC							INORG										
		VOA	BNA	Pest/PCB	Herb				Metal	CN									
		RECRA LabNet Use Only																	
		8240																	

Matrix Codes: Soil, Sediment, Solid, Sludge, Water, Oil, Air, Drum, Solids, Drums, Liquids, EP/TCLP, Leachate, Wipe, Other, Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected													
018	MW-S			W	2/20/98	1515	✓												
019	MW-I			W		1540	✓												
020	MW-D			W		1605	✓												

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

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

RECRA LabNet 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 Lables and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
James	Recra Lab	2/20/98	1730
	[illegible]	2/20/98	[illegible]

Relinquished by	Received by	Date	Time

Page ___ of ___