N-AC038-GWMonitor

Attach. M

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August 15, 1994

Ms. Donna L. Gaffigan
State of New Jersey
Department of Environmental Protection and Energy
Bureau of Federal Case Management
Division of Responsible Party Site Remediation
401 East State Street
CN-028
Trenton, New Jersey 08625

RE: Monthly Groundwater Monitoring Report

Dear Ms. Gaffigan:

Please find the attached Ground Water Monitoring Report for the month of July 1994. This represents a quarterly sampling event.

If you have any questions regarding this report, please do not hesitate to contact me at 609-692-4200.

Sincerely,

Lidia M. Stasuik for:
James P. Valenti
Environmental Manager

JPV:lms
Attachments
CC: C. Scott Eves
David R. Smith
Charles L. Harp, Jr., Esq.
Robert Smith, TRC-ECI

GROUND WATER MONITORING REPORT

of

AUGUST 1994

Prepared by: James P. Valenti
Reviewed and
Approved by: C. Scott Eves
(Period: July, 1994)

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JULY WELL SAMPLING RESULTS

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I

NARRATIVE

I. NARRATIVE

The July ground water samples were collected on July 11, 12, and 13, 1994. This represents a quarterly sampling event according to the revised schedule of August 19, 1991. The objective of the revised sampling schedule is to focus on the toe and perimeter of the chromium plume.

Well locations are shown on Figure 8 of the "Draft Final Report", July 1991, Remedial Investigation Figures and Data Tables prepared by TRC Environmental Consultants, Inc. (copy enclosed). This copy has been marked up to include new replacement wells and additional installations.

All samples were collected by TRC personnel in accordance with: Revised Ground Water Sampling and Analysis Plan, Shieldalloy Metallurgical Corporation, Newfield, New Jersey, prepared by Dan Raviv Associates, Inc., May 1991.

As requested by Paragraph 5(g) of the Department's September 16, 1991 letter, the following results are noted:

Well	Cr^{+6} (ppm)	CrTot (ppm)
SC1S	<0.01	<0.05
SC1D	<0.01	<0.05
SC2D(R)	<0.01	<0.05
SC3S	<0.01	<0.05
SC3D(R)	<0.01	<0.05
SC5D	0.19	0.17
IW1	<0.01	<0.05

Total chrome in Well SC25S has been sampled as directed by the Department's letter dated September 14, 1992. Total Chromium was 0.0286 ppm and SMC requests that this well be sampled quarterly rather than monthly.

Well SC24D results are consistent with past data (CrTot <0.01 ppm).

Sample SC29D is a duplicate of Well A, Sample SC30S is a duplicate of SC12S, and Sample SC31D is a duplicate of SC2D(R).

Included in this report are the additional analyses for aluminum, boron, nickel and vanadium as required by NJDEP letter dated May 26, 1994 from Donna L. Gaffigan.

	Al (ppm)	B (ppm)	Ni (ppm)	V (ppm)
SC12S	1.44	10.5	<0.02	0.282
SC12D	0.146	0.119	<0.02	<0.01
SC25S	4.04	46.6	<0.02	0.055
SC14S	0.240	0.476	<0.02	<0.01
SC11S(R)	4.57	0.996	<0.02	0.012
W2(R)	0.813	3.62	<0.02	3.48
SC13S	7.25	12.3	<0.02	17.8
SC13D	0.423	<0.10	<0.02	<0.01
SC30S	0.791	10.4	<0.02	0.219

(Sample SC30S is a duplicate of SC12S.)

The Andco system was not operating during July 12-14 due to repairs necessary on Multi-Media Filter Vessel B (MMFB). They system was turned off to investigate the cause of elevated total chromium plus a loss of filter media while MMFB was on line. The vessel was cleaned out by vac truck to observe the vessel components. A crack was discovered in the bottom ½ inch steel plate and along a weld at the center of the plate. The crack was rewelded, new media loaded and the system restarted on July 14th.

II

INORGANIC AND VOC DATA AND CHAIN OF CUSTODY FORMS

TEST RESULTS BY SAMPLE

Sample: 01A SC1D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.8	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	14	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.56	0.10	pH	07/11/94	ESG

Sample: 02A SC1S ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	51	10	ppm	07/14/94	GJ
Sulfate by Turbidity	81	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.70	0.10	pH	07/11/94	ESG

Sample: 02B SC1S INTERNAL DUPLICATE ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD

Sample: 02C SC1S SPIKE ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by GF - Spike	101	0.1	% Recovery	07/14/94	KD
Cr+6 Colormetric - Spike	99	0.01	% Recovery	07/12/94	KD
Sodium in Water - Spike	106	10	% Recovery	07/22/94	GE

Sample: 03A SC24D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.5	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	76	10	ppm	07/14/94	GJ
Sulfate by Turbidity	87	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.48	0.10	pH	07/11/94	ESG

Sample: 04A SC24S ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	3.6	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	12	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.62	0.10	pH	07/11/94	ESG

Sample: 05A SC5D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.17	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.19	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	66	10	ppm	07/22/94	GE
Sulfate by Turbidity	56	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.23	0.10	pH	07/11/94	ESG

Sample: 06A SC5S ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.5	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.70	0.10	pH	07/11/94	ESG

Sample: 07A SC3D (R) **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	15	10	ppm	07/14/94	GJ
Sulfate by Turbidity	19	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.84	0.10	pH	07/11/94	ESG

Sample: 08A SC3S ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	7.7	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD

Test Description	Result	Limit	Units	Analyzed	By
Sodium in Water by ICP	38	10	ppm	07/14/94	GJ
Sulfate by Turbidity	40	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.52	0.10	pH	07/11/94	ESG

Sample: 09A IW2 **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	22.20	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	19.62	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	201	10	ppm	07/22/94	GE
Sulfate by Turbidity	198	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.07	0.10	pH	07/11/94	ESG

Sample: 09B IW2 INTERNAL DUPLICATE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, ICP	19.56	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	201	10	ppm	07/22/94	GE

Sample: 09C IW2 SPIKE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, % Rec.	96	0.05	% Recovery	07/27/94	GJ
Sodium in Water - Spike	106	10	% Recovery	07/22/94	GE

Sample: 10A RIW2 **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	4.35	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	3.67	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	105	10	ppm	07/22/94	GE
Sulfate by Turbidity	155	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.54	0.10	pH	07/11/94	ESG

Sample: 10B RIW2 SPIKE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
SO4 by Turbidity - Spike	92	.10	% Recovery	07/28/94	KMW

Sample: 11A SC25S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	28.6	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	153	10	ppm	07/14/94	GJ
Sulfate by Turbidity	51	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.38	0.10	pH	07/11/94	ESG

Sample: 12A SC14S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.05	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.07	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	<10	10	ppm	07/22/94	GE
Sulfate by Turbidity	13	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.54	0.10	pH	07/11/94	ESG

Sample: 13A SC11S (R) **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	6.2	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	17	10	ppm	07/14/94	GJ
Sulfate by Turbidity	23	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.93	0.10	pH	07/11/94	ESG

Sample: 14A W2 (R) **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.03	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.05	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	144	10	ppm	07/22/94	GE
Sulfate by Turbidity	179	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.09	0.10	pH	07/11/94	ESG

Sample: 15A SC13S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	INTERFRNC	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.13	0.01	ppm	07/27/94	GJ

Test Description	Result	Limit	Units	Analyzed	By
Sodium in Water by ICP	746	10	ppm	07/22/94	GE
Sulfate by Turbidity	794	10	ppm	07/28/94	KMW
pH by Wet Chemistry	10.11	0.10	pH	07/11/94	ESG

Sample: 16A SC13D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.7	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.51	0.10	pH	07/11/94	ESG

Sample: 17A A **Collected:** ✓

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	11.64	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	10.25	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	1007	10	ppm	07/22/94	GE
Sulfate by Turbidity	1985	10	ppm	07/28/94	KMW
pH by Wet Chemistry	9.77	0.10	pH	07/11/94	ESG

Sample: 18A SC29D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	11.80	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	10.47	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	1006	10	ppm	07/22/94	GE
Sulfate by Turbidity	1992	10	ppm	07/28/94	KMW
pH by Wet Chemistry	9.81	0.10	pH	07/11/94	ESG

Sample: 19A B **Collected:** ✓

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.07	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.17	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	242	10	ppm	07/22/94	GE
Sulfate by Turbidity	370	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.83	0.10	pH	07/11/94	ESG

Sample: 20A SC9S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.02	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	0.05	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	22	10	ppm	07/22/94	GE
Sulfate by Turbidity	28	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.98	0.10	pH	07/11/94	ESG

Sample: 20B SC9S INTERNAL DUPLICATE Collected:

Test Description	Result	Limit	Units	Analyzed	By
Sulfate by Turbidity	28	10	ppm	07/28/94	KMW

Sample: 20C SC9S SPIKE Collected:

Test Description	Result	Limit	Units	Analyzed	By
SO4 by Turbidity - Spike	110	.10	% Recovery	07/28/94	KMW

Sample: 21A SC12S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	1.35	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	1.15	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	287	10	ppm	07/22/94	GE
Sulfate by Turbidity	105	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.05	0.10	pH	07/11/94	ESG

Sample: 22A SC30S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	1.35	0.01	ppm	07/12/94	KD
Cr, Acid Digestion, ICP	1.11	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	282	10	ppm	07/22/94	GE
Sulfate by Turbidity	105	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.03	0.10	pH	07/11/94	ESG

Sample: 23A SC12D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.3	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/12/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.13	0.10	pH	07/11/94	ESG

Sample: 24A SC2D (R) ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	7.2	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	109	10	ppm	07/14/94	GJ
Sulfate by Turbidity	188	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.31	0.10	pH	07/12/94	ESG

Sample: 24B SC2D INTERNAL DUPLICATE ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	7.5	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD

Sample: 24C SC2D SPIKE ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by GF - Spike	99	0.1	% Recovery	07/14/94	KD
Cr+6 Colormetric - Spike	100	0.01	% Recovery	07/13/94	KD

Sample: 25A IW1 ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	3.9	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	43	10	ppm	07/14/94	GJ
Sulfate by Turbidity	71	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.76	0.10	pH	07/12/94	ESG

Sample: 26A SC19S ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	36	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.17	0.10	pH	07/12/94	ESG

Sample: 27A SC19D ✓ **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	109	10	ppm	07/14/94	GJ
Sulfate by Turbidity	199	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.50	0.10	pH	07/12/94	ESG

TEST RESULTS BY SAMPLE

Sample: 01A SC21S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	1.4	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	16	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.00	0.10	pH	07/12/94	ESG

Sample: 02A SC21D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	<10	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	4.52	0.10	pH	07/12/94	ESG

Sample: 02B SC21D INTERNAL DUPLICATE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	<1.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD

Sample: 02C SC21D SPIKE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by GF - Spike	95	0.1	% Recovery	07/14/94	KD
Cr+6 Colormetric - Spike	97	0.01	% Recovery	07/13/94	KD

Sample: 03A SC10S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	11.6	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	89	10	ppm	07/14/94	GJ
Sulfate by Turbidity	137	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.44	0.10	pH	07/12/94	ESG

Sample: 03B SC10S SPIKE Collected:

Test Description	Result	Limit	Units	Analyzed	By
SO4 by Turbidity - Spike	106	.10	% Recovery	07/28/94	KMW

Sample: 04A SC10D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	1.31	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	1.22	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	67	10	ppm	07/22/94	GE
Sulfate by Turbidity	47	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.37	0.10	pH	07/12/94	ESG

Sample: 05A SC6S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.05	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.06	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	128	10	ppm	07/22/94	GE
Sulfate by Turbidity	159	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.18	0.10	pH	07/12/94	ESG

Sample: 06A W9 **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	7.87	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	7.09	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	231	10	ppm	07/22/94	GE
Sulfate by Turbidity	363	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.60	0.10	pH	07/12/94	ESG

Sample: 07A IWC5 **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.27	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.31	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	153	10	ppm	07/22/94	GE
Sulfate by Turbidity	112	10	ppm	07/28/94	KMW
pH by Wet Chemistry	11.00	0.10	pH	07/12/94	ESG

Sample: 07B IWC5 INTERNAL DUPLICATE Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, ICP	0.31	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	152	10	ppm	07/22/94	GE
Sulfate by Turbidity	117	10	ppm	07/28/94	KMW

Sample: 07C IWC5 SPIKE Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, % Rec.	91	0.05	% Recovery	07/27/94	GJ
SO4 by Turbidity - Spike	102	.10	% Recovery	07/28/94	KMW
Sodium in Water - Spike	86	10	% Recovery	07/22/94	GE

Sample: 08A IWC2 Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	1.76	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	1.52	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	1190	10	ppm	07/22/94	GE
Sulfate by Turbidity	2251	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.46	0.10	pH	07/12/94	ESG

Sample: 09A SC8S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.26	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.28	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	29	10	ppm	07/22/94	GE
Sulfate by Turbidity	76	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.19	0.10	pH	07/12/94	ESG

Sample: 10A SC7S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.61	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.57	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	496	10	ppm	07/22/94	GE
Sulfate by Turbidity	978	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.81	0.10	pH	07/12/94	ESG

Sample: 10B SC7S INTERNAL DUPLICATE Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, ICP	0.58	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	499	10	ppm	07/22/94	GE

Sample: 10C SC7S SPIKE Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr, Acid Digestion, % Rec.	93	0.05	% Recovery	07/27/94	GJ
Sodium in Water - Spike	86	10	% Recovery	07/22/94	GE

Sample: 11A F Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.95	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.88	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	1614	10	ppm	07/22/94	GE
Sulfate by Turbidity	1882	10	ppm	07/28/94	KMW
pH by Wet Chemistry	9.52	0.10	pH	07/12/94	ESG

Sample: 12A SC22S Collected:

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	2.8	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	80	10	ppm	07/14/94	GJ
Sulfate by Turbidity	129	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.45	0.10	pH	07/12/94	ESG

Sample: 13A SC22D Collected:

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	21.55	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	19.56	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	287	10	ppm	07/22/94	GE
Sulfate by Turbidity	58	10	ppm	07/28/94	KMW
pH by Wet Chemistry	11.26	0.10	pH	07/12/94	ESG

Sample: 14A K **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	1.15	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	1.10	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	89	10	ppm	07/22/94	GE
Sulfate by Turbidity	12	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.36	0.10	pH	07/12/94	ESG

Sample: 15A L **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	78.6	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	27	10	ppm	07/14/94	GJ
Sulfate by Turbidity	<10	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.87	0.10	pH	07/12/94	ESG

Sample: 16A SC23S **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	227.0	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	51	10	ppm	07/14/94	GJ
Sulfate by Turbidity	154	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.07	0.10	pH	07/12/94	ESG

Sample: 17A SC26D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	0.83	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	0.84	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	210	10	ppm	07/22/94	GE
Sulfate by Turbidity	131	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.63	0.10	pH	07/12/94	ESG

Sample: 18A SC6D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	5.21	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	4.31	0.01	ppm	07/27/94	GJ

Test Description	Result	Limit	Units	Analyzed	By
Sodium in Water by ICP	97	10	ppm	07/27/94	GE
Sulfate by Turbidity	134	10	ppm	07/28/94	KMW
pH by Wet Chemistry	6.29	0.10	pH	07/12/94	ESG

Sample: 19A LAYNE **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	5.27	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	4.62	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	358	10	ppm	07/27/94	GE
Sulfate by Turbidity	700	10	ppm	07/28/94	KMW
pH by Wet Chemistry	7.68	0.10	pH	07/12/94	ESG

Sample: 20A RW6D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Cr+6 by Colormetric	7.89	0.01	ppm	07/13/94	KD
Cr, Acid Digestion, ICP	6.90	0.01	ppm	07/27/94	GJ
Sodium in Water by ICP	177	10	ppm	07/22/94	GE
Sulfate by Turbidity	222	10	ppm	07/28/94	KMW
pH by Wet Chemistry	8.41	0.10	pH	07/12/94	ESG

Sample: 21A SC31D **Collected:**

Test Description	Result	Limit	Units	Analyzed	By
Chromium by Graphite Furn	5.9	1.0	ppb	07/14/94	KD
Cr+6 by Colormetric	<0.01	0.01	ppm	07/13/94	KD
Sodium in Water by ICP	108	10	ppm	07/14/94	GJ
Sulfate by Turbidity	197	10	ppm	07/28/94	KMW
pH by Wet Chemistry	5.20	0.10	pH	07/12/94	ESG

NATIONAL ENVIRONMENTAL TESTING, INC.

Thorofare Division
100 Grove Road
P.O. Box 248
Thorofare, NJ 08086
Tel: (609) 848-3939
Fax: (609) 848-9195

REPORT NO: 94.02473
DATE: 07/25/1994

RECEIVED
AUG 02 1994
DEPT. ENV. SERV.

Client: SHIELDALLOY METALURGICAL
12 WEST BLVD
NEWFIELD, NJ 08344

Authorization: DAVID SMITH

Subject: Analytical results data package for samples submitted to National Environmental Testing, Inc. for chemical analysis. The following page lists all samples and the date they were received by the laboratory.

Procedure: Samples were analyzed in accordance with one or more of the procedures presented in the following:

USEPA Methods for Chemical Analysis of Water and Wastes(EPA-600/4-82-055).

Standard Methods for the Examination of Water and Wastewater. 18th Edition.

Federal Register volume 40 part 136.

Test Methods for Evaluating Solid Waste. (SW-846, Third Edition)

Approved by : National Environmental Testing, Inc.Thorofare Division

Mary E. Pierce
Project Manager

John Visicaro
Quality Assurance Coordinator

NJ Laboratory Certification 08153

NATIONAL ENVIRONMENTAL TESTING, INC.

The following table identifies all samples submitted to NET for analysis.

Client: SHIELDALLOY METALURGICAL Job No: 94.02473

NET ID	Client ID	Date Sampled	Date Received
145541	SC-25S	07/11/1994	07/13/1994
145542	SC-14S	07/11/1994	07/13/1994
145543	SC-11S(R)	07/11/1994	07/13/1994
145544	W2(R)	07/11/1994	07/13/1994
145545	SC-13S	07/11/1994	07/13/1994
145546	SC-13D	07/11/1994	07/13/1994
145547	SC-12S	07/11/1994	07/13/1994
145548	SC-12D	07/11/1994	07/13/1994
145549	SC-30S	07/11/1994	07/13/1994
145550	A	07/11/1994	07/13/1994
145551	B	07/11/1994	07/13/1994
145552	SC-9S	07/11/1994	07/13/1994
145553	TB-71194	07/11/1994	07/13/1994
145554	SC-29D	07/11/1994	07/13/1994
145555	SC-1D	07/11/1994	07/13/1994
145556	SC-1S	07/11/1994	07/13/1994
145557	SC-3S	07/11/1994	07/13/1994
145558	SC-3D	07/11/1994	07/13/1994
145559	SC-5D	07/11/1994	07/13/1994
145560	SC-5S	07/11/1994	07/13/1994
145561	SC-24S	07/11/1994	07/13/1994
145562	IW-2	07/11/1994	07/13/1994
145563	SC-2D	07/12/1994	07/13/1994
145564	SC-31D	07/12/1994	07/13/1994
145565	SC-19D	07/12/1994	07/13/1994
145566	SC-19S	07/12/1994	07/13/1994
145567	SC-21D	07/12/1994	07/13/1994
145568	SC-21S	07/12/1994	07/13/1994
145569	SC-6S	07/12/1994	07/13/1994
145570	IWC5	07/12/1994	07/13/1994
145571	IWC2	07/12/1994	07/13/1994
145572	SC22S	07/12/1994	07/13/1994
145573	SC22D	07/12/1994	07/13/1994
145574	K	07/12/1994	07/13/1994
145575	SC23S	07/12/1994	07/13/1994
145576	SC26D	07/12/1994	07/13/1994
145577	SC6D	07/12/1994	07/13/1994
145578	TB-71294	07/12/1994	07/13/1994

Listed below are the current certifications that are held by NET, Inc. - Thorofare Division.

NJ Certification No: 08153
NY Certification No: 10867
PA Certification No: 68-212
SC Certification No: 94008
CT Certification No: PH-0784
MA Certification No: NJ119
DE Certification No: 08153(NJ)
VA Certification No: 00043
FL Certification No: E87427
TN Certification No: 02990

Definition of terms, abbreviations and flags that may be used in this report.

Flag/Term/Abbrev.	Definition
U	Compound was analyzed for but not detected. The laboratory has reported the method detection limit for the compound.
J	Compound was detected at a concentration below the practical reporting level, yet above the method detection limit. These values are estimates.
B	Compound was detected in the method/extraction blank as well as the sample. The data user is warned of possible laboratory introduced contamination.
NA	Not Applicable
ND	Not Detected
NC	Not Calculable
NR	Not Requested or Not Reported
MDL	Method detection limit. Can be a limit specified by the method or a number determined by performing an MDL study.
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
umhos	conductivity units; resistance is expressed in ohms.
NTU	Nephelometric Turbidity Units; used for turbidity.
col/3	Colonies per volume of sample analyzed; used for bacteriology.
deg C	degrees celcius
deg F	degrees fahrenheit
ug	microgram; there are 1000 ug in 1 mg.
mg	milligram; there are 1000 mg in 1 g.
g	gram; there are 1000 g in 1 Kg.
Kg	kilogram
ul	microliter; there are 1000 ul in 1 ml.
ml	milliliter; there are 1000 ml in 1 liter.
L	liter
dw	Dry weight; indicates that the reported value has been corrected for percent solids.
ppm	Parts per million = mg/Kg, ug/g, mg/L, ug/ml; 1 ppm = 1000ppb
ppb	Parts per billion = ug/Kg, ug/L

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
Job No: 94.02473

NET SAMPLE NUMBER: 145541
CLIENT SAMPLE ID: SC-25S

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	4.04		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	46.6		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	0.055		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145542
CLIENT SAMPLE ID: SC-14S

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	0.240		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	0.476		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	<0.010		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145543
CLIENT SAMPLE ID: SC-11S(R)

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	4.57		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	0.996		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	0.012		mg/L	0.010	07/18/1994	jvs	702	522

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
Job No: 94.02473

NET SAMPLE NUMBER: 145544
CLIENT SAMPLE ID: W2(R)

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	0.813		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	3.62		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	3.48		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145545
CLIENT SAMPLE ID: SC-13S

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	7.25		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	12.3		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	17.8		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145546
CLIENT SAMPLE ID: SC-13D

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	0.423		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	<0.100		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	<0.010		mg/L	0.010	07/18/1994	jvs	702	522

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
Job No: 94.02473

NET SAMPLE NUMBER: 145547
CLIENT SAMPLE ID: SC-12S

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	1.44		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	10.5		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	0.282		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145548
CLIENT SAMPLE ID: SC-12D

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	0.146		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	0.119		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	<0.010		mg/L	0.010	07/18/1994	jvs	702	522

NET SAMPLE NUMBER: 145549
CLIENT SAMPLE ID: SC-30S

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Aluminum (Al)	200 ICP A	0.791		mg/L	0.100	07/18/1994	jvs	702	880
Boron (B)	200 ICP A	10.4		mg/L	0.100	07/18/1994	jvs	702	521
Nickel (Ni)	200 ICP A	<0.020		mg/L	0.020	07/18/1994	jvs	702	522
Vanadium (V)	200 ICP A	0.219		mg/L	0.010	07/18/1994	jvs	702	522

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145550
Client Sample ID: A

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	58.		ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: A
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145550

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145551
Client Sample ID: B

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: B
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145551

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145552
Client Sample ID: SC-9S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	5.7		ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	9.6		ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-9S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145552

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145553
Client Sample ID: TB-71194

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: TB-71194
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145553

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145554
Client Sample ID: SC-29D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	58.		ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-29D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145554

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145555
Client Sample ID: SC-1D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	5.7		ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-1D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145555

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145556
Client Sample ID: SC-1S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	3.5		ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-1S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145556

Library Search VOA +15

Parameter	Results	Units
UNKNOWN	RT=21.52 EST CONC=3.2	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145557
Client Sample ID: SC-3S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/14/1994	res		306
Bromodichloromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Bromoform	5.0	U	ug/L	5.0	07/14/1994	res		306
Bromomethane	10.	U	ug/L	10.	07/14/1994	res		306
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/14/1994	res		306
Chlorobenzene	6.0	U	ug/L	6.0	07/14/1994	res		306
Chloroethane	10.	U	ug/L	10.	07/14/1994	res		306
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/14/1994	res		306
Chloroform	2.0	U	ug/L	2.0	07/14/1994	res		306
Chloromethane	10.	U	ug/L	10.	07/14/1994	res		306
Dibromochloromethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/14/1994	res		306
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/14/1994	res		306
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/14/1994	res		306
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/14/1994	res		306
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/14/1994	res		306
Ethylbenzene	7.0	U	ug/L	7.0	07/14/1994	res		306
Methylene Chloride	3.0	U	ug/L	3.0	07/14/1994	res		306
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/14/1994	res		306
Tetrachloroethene	4.0	U	ug/L	4.0	07/14/1994	res		306
Toluene	6.0	U	ug/L	6.0	07/14/1994	res		306
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/14/1994	res		306
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/14/1994	res		306
Trichloroethene	3.5		ug/L	2.0	07/14/1994	res		306
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/14/1994	res		306
Vinyl Chloride	10.	U	ug/L	10.	07/14/1994	res		306

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-3S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145557

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145558
Client Sample ID: SC-3D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	5.6		ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-3D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145558

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
Est CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145559
Client Sample ID: SC-5D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	20.	U	ug/L	20.	07/20/1994	res		310
Bromodichloromethane	10.	U	ug/L	10.	07/20/1994	res		310
Bromoform	7.6	J	ug/L	25.	07/20/1994	res		310
Bromomethane	50.	U	ug/L	50.	07/20/1994	res		310
Carbon Tetrachloride	15.	U	ug/L	15.	07/20/1994	res		310
Chlorobenzene	30.	U	ug/L	30.	07/20/1994	res		310
Chloroethane	50.	U	ug/L	50.	07/20/1994	res		310
2-Chloroethylvinyl ether	50.	U	ug/L	50.	07/20/1994	res		310
Chloroform	10.	U	ug/L	10.	07/20/1994	res		310
Chloromethane	50.	U	ug/L	50.	07/20/1994	res		310
Dibromochloromethane	15.	U	ug/L	15.	07/20/1994	res		310
1,3-Dichlorobenzene	25.	U	ug/L	25.	07/20/1994	res		310
1,4-Dichlorobenzene	25.	U	ug/L	25.	07/20/1994	res		310
1,2-Dichlorobenzene	9.5	U	ug/L	9.5	07/20/1994	res		310
1,1-Dichloroethane	25.	U	ug/L	25.	07/20/1994	res		310
1,2-Dichloroethane	15.	U	ug/L	15.	07/20/1994	res		310
1,1-Dichloroethene	15.	U	ug/L	15.	07/20/1994	res		310
cis-1,2-Dichloroethene	29.		ug/L	25.	07/20/1994	res		310
trans-1,2-Dichloroethene	10.	U	ug/L	10.	07/20/1994	res		310
1,2-Dichloropropane	30.	U	ug/L	30.	07/20/1994	res		310
cis-1,3-Dichloropropene	25.	U	ug/L	25.	07/20/1994	res		310
trans-1,3-Dichloropropene	25.	U	ug/L	25.	07/20/1994	res		310
Ethylbenzene	35.	U	ug/L	35.	07/20/1994	res		310
Methylene Chloride	15.	U	ug/L	15.	07/20/1994	res		310
1,1,2,2-Tetrachloroethane	35.	U	ug/L	35.	07/20/1994	res		310
Tetrachloroethene	20.	U	ug/L	20.	07/20/1994	res		310
Toluene	30.	U	ug/L	30.	07/20/1994	res		310
1,1,1-Trichloroethane	20.	U	ug/L	20.	07/20/1994	res		310
1,1,2-Trichloroethane	25.	U	ug/L	25.	07/20/1994	res		310
Trichloroethene	360		ug/L	10.	07/20/1994	res		310
Trichlorofluoromethane	10.	U	ug/L	10.	07/20/1994	res		310
Vinyl Chloride	50.	U	ug/L	50.	07/20/1994	res		310

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-5D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145559

Library Search VOA +15

Parameter	Results	Units
NAPHTHALENE	RT=27.42 EST CONC=6.4	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145560
Client Sample ID: SC-5S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-5S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145560

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145561
Client Sample ID: SC-24S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-24S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145561

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/11/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145562
Client Sample ID: IW-2

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	1.2	J	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	6.2		ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	43.		ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	150		ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: IW-2
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145562

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145563
Client Sample ID: SC-2D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	1.5	J	ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	81.		ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-2D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145563

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145564
Client Sample ID: SC-310

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	1.2	J	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	78.		ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-31D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145564

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145565
Client Sample ID: SC-19D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/15/1994	res		305
Bromodichloromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Bromoform	5.0	U	ug/L	5.0	07/15/1994	res		305
Bromomethane	10.	U	ug/L	10.	07/15/1994	res		305
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/15/1994	res		305
Chlorobenzene	6.0	U	ug/L	6.0	07/15/1994	res		305
Chloroethane	10.	U	ug/L	10.	07/15/1994	res		305
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/15/1994	res		305
Chloroform	2.0	U	ug/L	2.0	07/15/1994	res		305
Chloromethane	10.	U	ug/L	10.	07/15/1994	res		305
Dibromochloromethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/15/1994	res		305
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/15/1994	res		305
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/15/1994	res		305
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/15/1994	res		305
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/15/1994	res		305
Ethylbenzene	7.0	U	ug/L	7.0	07/15/1994	res		305
Methylene Chloride	3.0	U	ug/L	3.0	07/15/1994	res		305
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/15/1994	res		305
Tetrachloroethene	4.0	U	ug/L	4.0	07/15/1994	res		305
Toluene	6.0	U	ug/L	6.0	07/15/1994	res		305
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/15/1994	res		305
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/15/1994	res		305
Trichloroethene	8.2		ug/L	2.0	07/15/1994	res		305
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/15/1994	res		305
Vinyl Chloride	10.	U	ug/L	10.	07/15/1994	res		305

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-19L
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145565

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145566
Client Sample ID: SC-19S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-19S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145566

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145567
Client Sample ID: SC-21D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-21D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145567

Library Search VOA +15

Parameter	Results	Units
1,2-DIBROMO3CHLOROPROPANE	RT=25.40 EST CONC=3.6	ug/L
1,2,4-TRICHLOROBENZENE	RT=26.94 EST CONC=1.6	ug/L
NAPHTHALENE	RT=27.40 EST CONC=9.4	ug/L
1,2,3-TRICHLOROBENZENE	RT=27.88 EST CONC=4.8	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145568
Client Sample ID: SC-21S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	5.9		ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-21S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145568

Library Search VOA +15

Parameter	Results	Units
NAPHTHALENE	RT=27.40 EST CONC=1.1	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145569
Client Sample ID: SC-6S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	1.1	J	ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC-6S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145569

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145570
Client Sample ID: IWCS

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: IWC5
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145570

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145571
Client Sample ID: IWC2

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	1.5	J	ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: IWC2
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145571

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145572
Client Sample ID: SC22S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	1.4	J	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC22S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145572

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145573
Client Sample ID: SC22D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	1.5	J	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	13.		ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC22D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145573

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145574
Client Sample ID: K

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	20.		ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: K
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145574

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145575
Client Sample ID: SC23S

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	40.	U	ug/L	40.	07/19/1994	res		308
Bromodichloromethane	20.	U	ug/L	20.	07/19/1994	res		308
Bromoform	11.0	J	ug/L	50.	07/19/1994	res		308
Bromomethane	100	U	ug/L	100	07/19/1994	res		308
Carbon Tetrachloride	30.	U	ug/L	30.	07/19/1994	res		308
Chlorobenzene	60.	U	ug/L	60.	07/19/1994	res		308
Chloroethane	100	U	ug/L	100	07/19/1994	res		308
2-Chloroethylvinyl ether	100	U	ug/L	100	07/19/1994	res		308
Chloroform	20.	U	ug/L	20.	07/19/1994	res		308
Chloromethane	100	U	ug/L	100	07/19/1994	res		308
Dibromochloromethane	30.	U	ug/L	30.	07/19/1994	res		308
1,3-Dichlorobenzene	50.	U	ug/L	50.	07/19/1994	res		308
1,4-Dichlorobenzene	50.	U	ug/L	50.	07/19/1994	res		308
1,2-Dichlorobenzene	19.	U	ug/L	19.	07/19/1994	res		308
1,1-Dichloroethane	50.	U	ug/L	50.	07/19/1994	res		308
1,2-Dichloroethane	30.	U	ug/L	30.	07/19/1994	res		308
1,1-Dichloroethene	30.	U	ug/L	30.	07/19/1994	res		308
cis-1,2-Dichloroethene	50.	U	ug/L	50.	07/19/1994	res		308
trans-1,2-Dichloroethene	20.	U	ug/L	20.	07/19/1994	res		308
1,2-Dichloropropane	60.	U	ug/L	60.	07/19/1994	res		308
cis-1,3-Dichloropropene	50.	U	ug/L	50.	07/19/1994	res		308
trans-1,3-Dichloropropene	50.	U	ug/L	50.	07/19/1994	res		308
Ethylbenzene	262.		ug/L	70.	07/19/1994	res		308
Methylene Chloride	19.4	J	ug/L	30.	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	70.	U	ug/L	70.	07/19/1994	res		308
Tetrachloroethene	40.	U	ug/L	40.	07/19/1994	res		308
Toluene	1,850		ug/L	60.	07/19/1994	res		308
1,1,1-Trichloroethane	40.	U	ug/L	40.	07/19/1994	res		308
1,1,2-Trichloroethane	50.	U	ug/L	50.	07/19/1994	res		308
Trichloroethene	20.	U	ug/L	20.	07/19/1994	res		308
Trichlorofluoromethane	20.	U	ug/L	20.	07/19/1994	res		308
Vinyl Chloride	100	U	ug/L	100	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC23S
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145575

Library Search VOA +15

Parameter	Results	Units
XYLENE (META + PARA)	RT=19.20 EST CONC=613.	ug/L
XYLENE (ORTHO)	RT=19.98 EST CONC=309.	ug/L
N-PROPYLBENZENE	RT=21.50 EST CONC=15.8	ug/L
1,3,5-TRIMETHYLBENZENE	RT=21.68 EST CONC=95.6	ug/L
ALKYL SUBSTITUTED BENZENE	RT=22.21 EST CONC=34.0	ug/L
1,2,4-TRIMETHYLBENZENE	RT=22.55 EST CONC=68.9	ug/L
UNKNOWN	RT=23.70 EST CONC=44.0	ug/L
UNKNOWN	RT=26.25 EST CONC=91.0	ug/L
NAPHTHALENE	RT=27.40 EST CONC=24.3	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145576
Client Sample ID: SC26D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/19/1994	res		308
Bromodichloromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Bromoform	5.0	U	ug/L	5.0	07/19/1994	res		308
Bromomethane	10.	U	ug/L	10.	07/19/1994	res		308
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/19/1994	res		308
Chlorobenzene	6.0	U	ug/L	6.0	07/19/1994	res		308
Chloroethane	10.	U	ug/L	10.	07/19/1994	res		308
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/19/1994	res		308
Chloroform	2.0	U	ug/L	2.0	07/19/1994	res		308
Chloromethane	10.	U	ug/L	10.	07/19/1994	res		308
Dibromochloromethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/19/1994	res		308
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/19/1994	res		308
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/19/1994	res		308
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/19/1994	res		308
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/19/1994	res		308
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/19/1994	res		308
Ethylbenzene	7.0	U	ug/L	7.0	07/19/1994	res		308
Methylene Chloride	1.5	J	ug/L	3.0	07/19/1994	res		308
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/19/1994	res		308
Tetrachloroethene	4.0	U	ug/L	4.0	07/19/1994	res		308
Toluene	6.0	U	ug/L	6.0	07/19/1994	res		308
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/19/1994	res		308
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/19/1994	res		308
Trichloroethene	6.8		ug/L	2.0	07/19/1994	res		308
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/19/1994	res		308
Vinyl Chloride	10.	U	ug/L	10.	07/19/1994	res		308

NATIONAL ENVIRONMENTAL TESTING, INC
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC26D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145576

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145577
Client Sample ID: SC6D

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	54.		ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: SC6D
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145577

Library Search VOA +15

Parameter	Results	Units
NAPHTHALENE	RT=27.37 EST CONC=1.8	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

Date Sampled: 07/12/1994
Date Received: 07/13/1994

REPORT OF ANALYSIS

Client: SHIELDALLOY METALURGICAL
NET Job No: 94.02473
NET Sample No: 145578
Client Sample ID: TB-71294

Volatiles by GC/MS 624

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Benzene	4.0	U	ug/L	4.0	07/18/1994	res		307
Bromodichloromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Bromoform	5.0	U	ug/L	5.0	07/18/1994	res		307
Bromomethane	10.	U	ug/L	10.	07/18/1994	res		307
Carbon Tetrachloride	3.0	U	ug/L	3.0	07/18/1994	res		307
Chlorobenzene	6.0	U	ug/L	6.0	07/18/1994	res		307
Chloroethane	10.	U	ug/L	10.	07/18/1994	res		307
2-Chloroethylvinyl ether	10.	U	ug/L	10.	07/18/1994	res		307
Chloroform	2.0	U	ug/L	2.0	07/18/1994	res		307
Chloromethane	10.	U	ug/L	10.	07/18/1994	res		307
Dibromochloromethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,3-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,4-Dichlorobenzene	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichlorobenzene	1.9	U	ug/L	1.9	07/18/1994	res		307
1,1-Dichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
1,2-Dichloroethane	3.0	U	ug/L	3.0	07/18/1994	res		307
1,1-Dichloroethene	3.0	U	ug/L	3.0	07/18/1994	res		307
cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,2-Dichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
1,2-Dichloropropane	6.0	U	ug/L	6.0	07/18/1994	res		307
cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	07/18/1994	res		307
Ethylbenzene	7.0	U	ug/L	7.0	07/18/1994	res		307
Methylene Chloride	1.8	JB=2	ug/L	3.0	07/18/1994	res		307
1,1,2,2-Tetrachloroethane	7.0	U	ug/L	7.0	07/18/1994	res		307
Tetrachloroethene	4.0	U	ug/L	4.0	07/18/1994	res		307
Toluene	6.0	U	ug/L	6.0	07/18/1994	res		307
1,1,1-Trichloroethane	4.0	U	ug/L	4.0	07/18/1994	res		307
1,1,2-Trichloroethane	5.0	U	ug/L	5.0	07/18/1994	res		307
Trichloroethene	2.0	U	ug/L	2.0	07/18/1994	res		307
Trichlorofluoromethane	2.0	U	ug/L	2.0	07/18/1994	res		307
Vinyl Chloride	10.	U	ug/L	10.	07/18/1994	res		307

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division
Report Of Tentatively Identified Compounds

Client: SHIELDALLOY METALURGICAL
Sample ID: TB-71294
% Moisture: N/A

Report NO: 94.02473
NET-Mid ID: 145578

Library Search VOA +15

Parameter	Results	Units
No Unknowns or Tics	RT=0.00 EST CONC=0.00	ug/L

RT = RETENTION TIME
EST CONC = ESTIMATED CONCENTRATION

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: SMC (James Valente)
ADDRESS: 12 West BLVD New field N.J. 08344
PHONE: Quarterly July 94 Gr. Water FAX:
PROJECT NAME/LOCATION: Ground Water Sampling July 94
PROJECT NUMBER:
PROJECT MANAGER: James Valente

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY: Brian Drake (PRINT NAME) — SIGNATURE: Brian Drake
James Breen (PRINT NAME) — SIGNATURE: James A. Breen

ANALYSES: VOC+15

Date	Time	Sample ID	Matrix	# and Type of Containers	VOC+15	COMMENTS
7/11/94	12:45	SC-1D	W	X	X	2, 40ml VOA
7/11/94	13:40	SC-1S	W	X	X	2, 40ml VOA
7/11/94	16:17	SC-3S	W	X	X	2, 40ml VOA
7/11/94	17:02	SC-3D	W	X	X	2, 40ml VOA
7/11/94	15:20	SC-5D	W	X	X	2, 40ml VOA
7/11/94	15:12	SC-5S	W	X	X	2, 40ml VOA
~~7/11/94~~	~~14:45~~	~~SC-24D~~ (BG.D)			~~X~~	
7/11/94	14:05	SC-24S	W	X	X	2, 40ml VOA
7/11/94	17:51	IW-2	W	X	X	2, 40ml VOA
~~7/11/94~~	(BG.D)		~~W~~ (BG.D)	~~X~~	~~X~~	
7/12/94	09:19	SC-2D	W	X	X	2, 40ml VOA
7/12/94	10:35	SC-31D	W	X	X	2, 40ml VOA
7/12/94	13:39	SC-19D	W	X	X	2, 40ml VOA
7/12/94	13:10	SC-19S	W	X	X	2, 40ml VOA
7/12/94	10:55	SC-21D	W	X	X	2, 40ml VOA

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 7.2 6.4
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS — DATE

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
Brian Drake	7/12/94 17:20	Doug Mast	D Mast	7/13/94 12:15	[illegible]

METHOD OF SHIPMENT

REMARKS:

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: SMC (James Valente)
ADDRESS: 12 West BLVD, Newfield N.J.
PHONE: _____ FAX: _____
PROJECT NAME/LOCATION: Quarterly Gal Water Smpl - July 1994
PROJECT NUMBER: _____
PROJECT MANAGER: James Valenti

REPORT TO: _____
INVOICE TO: _____
P.O. NO. _____
NET QUOTE NO. _____

SAMPLED BY
Brian E. Parke (PRINT NAME) — Brian E. Parke (SIGNATURE)
James Breen (PRINT NAME) — James A. Breen (SIGNATURE)

ANALYSES: VOC #15

				# and Type of Containers							COMMENTS
7/12/94	11:45	SC-215	W	X					X		2, 40-1 VOA
~~7/12/94~~	~~11:45~~	~~SC-245~~ (BEP)	~~W~~	~~X~~					~~X~~		~~2, 40-1 VOA~~
7/12/94	16:02	SC-65	W	X					X		2, 40ml VOA

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 7.2 C
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA _____
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS _____ DATE _____

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
Brian E. Parke	7/12/94 17:20	Doug MAST	D MAST	7/13/94 12:15	[illegible]

METHOD OF SHIPMENT: _____
REMARKS: _____

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NET® NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY SMC
ADDRESS 12 West Blvd Newfield NJ 08344
PHONE 609-692-4200 FAX
PROJECT NAME/LOCATION SMC Newfield, NJ - 7/94 GW
PROJECT NUMBER
PROJECT MANAGER James Valente

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY Robert Bowden Jr / TRC (PRINT NAME) Robert Bowden Jr (SIGNATURE)
(PRINT NAME) (SIGNATURE)

						# and Type of Containers					ANALYSES: VOCs									COMMENTS
7/12/94	0930	IWC5	W	✓		✓					✓									2x40 ml VOA
	0945	IWC2									✓									
	1145	SC22S									✓									
	1240	SC22D									✓									
	1315	K									✓									
	1350	SC23S									✓									
	1530	SC26D									✓									
	1610	SC6D									✓									
		TB-71294									✓									

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 7.2 6.4
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DATE

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
Robert Bowden	7/12/94/1715	Doug Mast	D Mast	7/13/94 12:15	Reese

METHOD OF SHIPMENT

REMARKS:

NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY SMC
ADDRESS 12 West Blvd, Newfield, NJ 08344
PHONE 609-692-4200 FAX
PROJECT NAME/LOCATION SMC Newfield NJ - 7/94 GW
PROJECT NUMBER
PROJECT MANAGER James Valente

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY Robert Bowden, Jr. (TRC) (PRINT NAME) Robert Bowden SIGNATURE
(PRINT NAME) SIGNATURE

ANALYSES

					# and Type of Containers					VOC+15	Al, Vn, Ni, Ba	COMMENTS
7/11/94	1310	SC-25S	W	✓			✓1				✓	~~Excel Prod LBA~~
	1415	SC-14S					✓1				✓	
	1435	SC-11S(R)					✓1				✓	
	1500	W2(R)					✓1				✓	
	1525	SC-13S					✓1				✓	
	1550	SC-13D					✓1				✓	
	1645	A			✓2					✓		
	1705	B			✓2					✓		
	1715	SC-9S			✓2					✓		
	1755	SC-12S					✓1				✓	
	1840	SC-12D					✓1				✓	
	~~1655~~	~~SC-29D~~					~~✓1~~				~~✓~~	No SC29D sample (BB) for metals
	1810	SC-30S					✓1				✓	
		TB-7/1/94			✓2					✓		
	1655	SC-29D			✓2					✓		SC29D for VOC+15

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 7.2 6.4
Bottles supplied by NET? YES / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DATE

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
Robert Bowden	7/11/94/1915	Doug Mast	Doug Mast	7-13-94/ 12:15	[illegible]

METHOD OF SHIPMENT
REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NATIONAL ENVIRONMENTAL TESTING, INC.

Thorofare Division
100 Grove Road
P.O. Box 243
Thorofare, NJ 08086
Tel: (609) 848-3939
Fax: (609) 848-9195

REPORT NO: 94.02300
DATE: 07/08/1994

Client: SHIELD ALLOY
12 WEST BLVD
NEWFIELD, NJ 09344

Authorization: DAVID SMITH

Subject: Analytical results data package for samples submitted to National Environmental Testing, Inc. for chemical analysis. The following page lists all samples and the date they were received by the laboratory.

Procedure: Samples were analyzed in accordance with one or more of the procedures presented in the following:

USEPA Methods for Chemical Analysis of Water and Wastes(EPA-600/4-82-055).

Standard Methods for the Examination of Water and Wastewater. 18th Edition.

Federal Register volume 40 part 136.

Test Methods for Evaluating Solid Waste. (SW-846, Third Edition)

Approved by : National Environmental Testing, Inc.Thorofare Division

Mary E. Pierce
Project Manager

John Visicaro
Quality Assurance Coordinator

NJ Laboratory Certification 08153

NATIONAL ENVIRONMENTAL TESTING, INC.

The following table identifies all samples submitted to NET for analysis.

Client: SHIELD ALLOY Job No: 94.02300

NET ID	Client ID	Date Sampled	Date Received
144093	OUTFALL 001	06/27/1994	06/28/1994
144094	001 BLANK	06/27/1994	06/28/1994
144095	002 OUTFALL	06/27/1994	06/28/1994
144096	002 BLANK	06/27/1994	06/28/1994

Listed below are the current certifications that are held by NET, Inc. - Therefore Division.

NJ Certification No: 08153
NY Certification No: 10867
PA Certification No: 68-212
SC Certification No: 94008
CT Certification No: PH-0724
MA Certification No: NJ119
DE Certification No: 08153(NJ)
VA Certification No: 00043
FL Certification No: E87427
TN Certification No: 02990

NATIONAL ENVIRONMENTAL TESTING, INC.
Thorofare Division

REPORT OF ANALYSIS

Client: SHIELD ALLOY
Job No: 94.02300

NET SAMPLE NUMBER: 144093
CLIENT SAMPLE ID: OUTFALL 001

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Chemical Oxygen Demand	27		mg/L	10	07/05/1994	dwd		460

NET SAMPLE NUMBER: 144094
CLIENT SAMPLE ID: 001 BLANK

PARAMETER	RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Chemical Oxygen Demand	<10		mg/L	10	07/05/1994	dwd		460

NET SAMPLE NUMBER: 144095
CLIENT SAMPLE ID: 002 OUTFALL

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Chemical Oxygen Demand		29		mg/L	10	07/07/1994	dwd		461
Solids, suspended (TSS)		107	*	mg/L	<1.0	06/29/1994	mmm		647
Petroleum Hydrocarbons	A	.90		mg/L	0.1	06/29/1994	czp	443	443

NET SAMPLE NUMBER: 144096
CLIENT SAMPLE ID: 002 BLANK

PARAMETER		RESULT	FLAG	UNITS	MDL	DATE ANALYZED	ANALYST	PREP BATCH	RUN BATCH
Chemical Oxygen Demand		<10		mg/L	10	07/05/1994	dwd		461
Solids, suspended (TSS)		<1		mg/L	<1.0	06/29/1994	mmm		647
Petroleum Hydrocarbons	A	<.10		mg/L	0.1	06/29/1994	czp	443	443

*Sample exhibited quantity of what appeared to be sand, feel this influenced result.

Definition of terms, abbreviations and flags that may be used in this report.

Flag/Term/Abbrev.	Definition
U	Compound was analyzed for but not detected. The laboratory has reported the method detection limit for the compound.
J	Compound was detected at a concentration below the practical reporting level, yet above the method detection limit. These values are estimates.
B	Compound was detected in the method/extraction blank as well as the sample. The data user is warned of possible labdratory introduced contamination.
NA	Not Applicable
ND	Not Detected
NC	Not Calculable
NR	Not Requested or Not Reported
MDL	Method detection limit. Can be a limit specified by the method or a number determined by performing an MDL study.
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
RSD	Relative Standard Deviation
umhos	conductivity units; resistance is expressed in ohms.
NTU	Nephelometric Turbidity Units; used for turbidity.
col/3	Colonies per volume of sample analyzed; used for bacteriology.
deg C	degrees celcius
deg F	degrees fahrenheit
ug	microgram; there are 1000 ug in 1 mg.
mg	milligram; there are 1000 mg in 1 g.
g	gram; there are 1000 g in 1 Kg.
Kg	kilogram
ul	microliter; there are 1000 ul in 1 ml.
ml	milliliter; there are 1000 ml in 1 liter.
L	liter
dw	Dry weight; indicates that the reported value has been corrected for percent solids.
ppm	Parts per million = mg/Kg, ug/g, mg/L, ug/ml; 1 ppm = 1000ppb
ppb	Parts per billion = ug/Kg, ug/L

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY S/M C
ADDRESS
PHONE FAX
PROJECT NAME/LOCATION
PROJECT NUMBER
PROJECT MANAGER

REPORT TO:
INVOICE TO:
P.O. NO.
NET QUOTE NO.

SAMPLED BY JAMES P. VALENTI (PRINT NAME) James P. Valenti SIGNATURE
(PRINT NAME) SIGNATURE

ANALYSES

DATE	TIME	SAMPLE IDENTIFICATION			MATRIX	PRESERVED	COD	TSS	TPHC	VOC	COMMENTS
6/27	1406	001 OUTFALL	X	1	WATER	Y	X				
6/27	1430	002 OUTFALL	X	1	WATER	N		X			
"	"	"	X	1	WATER	Y	X				
"	"	"	X	2	WATER	Y			X		
6/27	—	001 BLANK		1	WATER	Y	X				
"	—	002 BLANK		1	"	Y	X				
		001 BLANK		1	"	N		X			
		002 BLANK		2	"	Y			X		
6/28	1500	ANDCO INFLUENT	X	1 clear	WATER	Y				X	
		VOC. OUTLET	X	"	"	Y				X	

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / NO
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 6.9°C

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS
DATE

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED FOR NET BY:
James P. Valenti	6/28/94 9:50	DOUG MAST	Doug Mast	6/28/94 11:50	Sharon Salvatini

METHOD OF SHIPMENT
REMARKS:

06/15/94 14:18 ☎608 848 9195 NET INC. 005

III

TABLE OF WATER LEVEL MEASUREMENTS

TABLE OF WATER LEVEL MEASUREMENTS

(Off-Site Monitoring and Recovery Wells)

July 1994 Data

WELL #	DATE	TIME	TOP OF CASING	DEPTH TO WATER (ft)	SCREENED INTERVAL (ft)	WATER ELEVATION
IW1	07/11/94	9:26 am	90.33	4.93	32-62	85.40
IW2	07/11/94	9:19 am	91.05	7.52	40-70	83.53
SC1D	07/11/94	9:04 am	90.90	8.30	85-95/100-115	82.60
SC1S	07/11/94	9:09 am	87.26	3.67	35-55	83.59
SC2D(R)	07/11/94	9:22 am	92.70	7.54	106-116	85.16
SC3D(R)	07/11/94	9:14 am	91.06	6.86	102-112	84.20
SC3S	07/11/94	9:15 am	90.32	6.11	35-55	84.21
SC4D	07/11/94	9:55 am	92.64	6.38	110-120	86.26
SC4S	07/11/94	9:54 am	93.65	6.57	35-45	87.08
SC5D	07/11/94	9:48 am	97.00	12.15	90-120	84.85
SC5S	07/11/94	9:47 am	96.55	11.60	5-20	84.95
SC6D	07/11/94	10:53 am	94.38	10.10	110-120	84.28
SC6S	07/11/94	10:36 am	94.62	6.47	45-75	88.15
SC10D	07/11/94	10:09 am	95.72	7.52	105-125	88.20
SC10S	07/11/94	10:11 am	95.38	7.16	35-55	88.22
SC17D	07/11/94	10:30 am	108.07	19.08	143-153	88.99
SC17S	07/11/94	10:28 am	109.26	20.07	13-28	89.19
SC18D	07/11/94	10:03 am	96.01	9.44	119-129	86.57
SC18S	07/11/94	10:04 am	95.72	9.13	4-19	86.59
SC19D	07/11/94	9:39 am	92.03	5.82	120-130	86.21
SC19S	07/11/94	9:37 am	92.98	5.85	2-17	87.13
SC21D	07/11/94	9:31 am	91.65	5.50	125-135	86.15
SC21S	07/11/94	9:32 am	92.64	6.21	3-18	86.43
SC24S	07/11/94	9:01 am	93.57	10.19	5-20	83.38
SC24D	07/11/94	9:00 am	93.52	9.94	-	83.58
SC26D	07/11/94	10:16 am	100.45	9.76	127-137	90.69
W9	-	-	94.43	-	110-130	-
Layne	-	-	94.11	-	42-47	-
RW6D	-	-	93.08	-	90-125	-
RW6S	-	-	92.70	-	55-75	-
RIW2	-	-	91.52	-	30-55	-

NOTE: All Wells Measured with Solinst Water Level Meter

TABLE OF WATER LEVEL MEASUREMENTS

(On–Site Monitoring Wells)

July 1994 Data

WELL #	DATE	TIME	CASING	DEPTH TO WATER (ft)	SCREENED INTERVAL (ft)	WATER ELEVATION
A	07/11/94	9:19 am	94.82	5.56	114–124	89.26
B	07/11/94	9:18 am	94.33	4.08	36–46	90.25
C	–	–	96.29	–	75–85	CLOSED
D	–	–	99.42	–	37–47	CLOSED
E	–	–	98.92	–	38–48	CLOSED
F	07/11/94	8:29 am	108.58	14.14	31–41	94.44
I	–	–	95.09	–	36–46	CLOSED
IWC1	07/11/94	9:14 am	98.13	5.32	15–20	92.81
IWC2	07/11/94	8:58 am	98.51	5.72	35–40	92.79
IWC3	07/11/94	9:00 am	97.83	4.89	55–60	92.94
IWC4	07/11/94	9:13 am	98.61	5.70	75–80	92.91
IWC5	07/11/94	8:59 am	98.03	5.07	95–100	92.96
K	07/11/94	9:15 am	99.18	7.66	36–46	91.52
L	07/11/94	8:22 am	103.51	9.38	42–52	94.13
SC7S	07/11/94	8:22 am	107.41	13.02	15–30	94.39
SC8S	07/11/94	8:21 am	107.66	12.90	15–30	94.76
SC9S	07/11/94	9:17 am	96.23	4.66	15–30	91.57
SC11S(R)	07/11/94	8:40 am	108.12	12.35	9–24	95.77
SC12D	07/11/94	8:46 am	103.19	8.62	126–136	94.57
SC12S	07/11/94	8:45 am	104.76	9.10	15–25	95.66
SC13D	07/11/94	8:50 am	101.99	7.73	127–137	94.26
SC13S	07/11/94	8:51 am	101.41	5.20	14.7–24.7	96.21
SC14S	07/11/94	8:36 am	108.38	11.73	12–27	96.65
SC15S	07/11/94	8:19 am	108.32	14.74	12.5–27.5	93.58
SC16S	07/11/94	9:20 am	108.05	15.61	12–27	92.44
SC20D	07/11/94	8:24 am	104.53	11.25	129–139	93.28
SC20S	07/11/94	8:25 am	104.45	10.83	7–22	93.62
SC22D	07/11/94	8:55 am	98.72	5.65	111–121	93.07
SC22S	07/11/94	8:56 am	99.65	6.02	3–18	93.63
SC23S	07/11/94	9:40 am	102.21	8.91	9–24	93.30
SC25S	07/11/94	9:35 am	102.27	6.21	6–21	96.06
SC27S	07/11/94	9:36 am	100.54	6.38	7–22	94.16
W2(R)	07/11/94	9:30 am	97.96	2.46	2–17	95.50
W3D	07/11/94	8:43 am	108.37	12.94	88–108	95.43
W3S	–	–	107.85	–	42–62	CLOSED
W4	07/11/94	9:18 am	104.58	12.54	55–75	92.04

NOTE: All Wells Measured with Solinst Water Level Meter

IV

TABLE OF RECOVERY WELL DOWN-TIME

AND OPERATING LOGS (07/01/94 - 07/31/94)

JULY 1994

RECOVERY WELL DOWNTIME (HRS/DAY)

DATE	LAYNE	RIW2	RW6D	RW6S	W9	Comments
07/ 01/94	0.00	0.00	0.00	0.50	0.00	
07/ 02/94	2.25	0.00	0.00	3.25	0.00	
07/ 03/94	0.75	0.75	0.75	1.75	0.00	
07/ 04/94	0.25	0.25	0.75	1.50	0.00	
07/ 05/94	0.25	0.25	1.50	1.50	0.25	
07/ 06/94	3.25	3.25	4.50	4.50	3.25	
07/ 07/94	4.50	3.75	5.25	6.00	3.75	
07/ 08/94	2.25	0.25	0.25	3.75	1.75	
07/ 09/94	0.00	0.00	0.00	6.25	0.00	
07/ 10/94	0.25	0.25	0.25	3.25	0.25	
07/ 11/94	0.25	0.25	0.75	5.75	2.00	
07/ 12/94	24.00	24.00	24.00	24.00	24.00	} Multi-Media
07/ 13/94	24.00	24.00	24.00	24.00	24.00	} Filter Repair
07/ 14/93	22.00	20.00	22.00	21.50	22.00	
07/ 15/94	0.00	11.50	0.00	0.00	1.00	
07/ 16/94	5.00	0.00	0.00	0.50	0.00	
07/ 17/94	0.00	0.00	0.00	0.00	0.00	
07/ 18/94	0.00	0.00	0.00	0.00	0.00	
07/ 19/94	7.75	6.75	6.75	6.75	7.75	
07/ 20/94	0.25	0.25	0.25	0.75	0.25	
07/ 21/94	0.00	0.00	0.00	0.00	0.00	
07/ 22/94	0.00	0.00	0.00	0.00	0.00	
07/ 23/94	0.00	0.00	0.00	0.00	0.00	
07/ 24/94	0.00	0.00	0.00	0.00	0.00	
07/ 25/94	0.00	0.00	0.00	0.00	0.00	
07/ 26/94	6.00	6.00	6.00	6.00	6.00	
07/ 27/94	0.25	0.25	0.25	0.25	0.25	
07/ 28/94	0.00	0.00	0.00	0.00	0.00	
07/ 29/94	0.00	0.00	0.00	0.00	0.00	
07/ 30/94	0.00	1.00	0.00	0.00	0.00	
07/ 31/94	0.00	0.00	0.00	0.00	0.00	
AVERAGE	3.33 Hrs/Day	3.31 Hrs/Day	3.14 Hrs/Day	3.93 Hrs/Day	3.11 Hrs/Day	

02/11/93
JPV:lms

WELL LOG (gpm)

7-1-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	96		107		104		58		39		404
01:00	96		107		104		58		39		404
02:00	96		107		105		58		39		404
03:00	96		107		104		57		39		403
04:00	96		107		105		58		39		405
05:00	96		107		105		58		39		404
06:00	96		107		105		58		39		403
07:00	95		106		104		57		39		402
08:00	97		107		104	OFF 8:10 ON 8:30	57		39		404
09:00	96		106		99		57		39		397
10:00	96		107		100		58		39		400
11:00	96		107		100		58		39		400
12:00	96		107		99		58		39		399
13:00	96		107		99		58		39		399
14:00	96		107		99		58		39		399
15:00	96		107		99	OFF 1450 ON 1500	58		39		399
16:00	96		107		99		58		39		399
17:00	96		107		98		58		45		404
18:00	97		107		99		58		45		406
19:00	97		107		99		58		45		406
20:00	97		107		99		58		45		406
21:00	96		107		99		58		45		405
22:00	96		107		99		58		45		405
23:00	96		107		99		58		45		405

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

7-2-94

WELL LOG (gpm)

DATE: 7-2-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	96		107		99		57		45	OFF 00:15 T-301 HIGH	404
01:00	96		107		99		58		—	ON 2:00	360
02:00	96		107		99		58		47		405
03:00	96		107		99		58		46		405
04:00	95		107		99		58		46		404
05:00	96		107		99		58		46		404
06:00	96		107		99		58		46		404
07:00	95		107		99		57		46	OFF 7:30 T-301 LEVEL HIGH	404
08:00	96		107		99	OPUS OFF ON 08:57	56		47	ON 8:00	405
09:00	96		107		100		57		45		405
10:00	95		107		99		58		46		405
11:00	96		107		99		58		45		405
12:00	96		106		99		58		45		405
13:00	96		107		99		58		45		405
14:00	96		107		99	OFF 14:00 ON 15:00	58		45		405
15:00	96		107		99		58		45		404
16:00	96		107		99		58		45		404
17:00	96		107		99		58		45		406
18:00	96		107		98		58		45		404
19:00	96		107		—	18:07 - OFF 19:07 - ON	58		45		306
20:00	97		107		99		57		46		406
21:00	97		107		99		58		45		406
22:00	97		107		99		58		45		406
23:00	97		107		99	22:32 - OFF 22:50 - ON	58		45		406

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

7-3-94

WELL LOG (gpm)

DATE. 7-3-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	97		107		99		58		45		406
01:00	97		107		99		58		45		406
02:00	96		107		99		58		45		405
03:00	96		107		99		58		45		405
04:00	96		107		99		58		45		405
05:00	96		107		98	05:00 OFF 05:52 ON	58		45		404
06:00	97		107		99		58		45		406
07:00	97		107		99		58		45		406
08:00	96		106		98		57		45		402
09:00	96		106		98		57		45		402
10:00	96		107		99		58		45		405
11:00	96		107		99		58		45		405
12:00	96		107		99		58		45		405
13:00	96		106		98		57		45		402
14:00	96		107		99		57		45		404
15:00	96		107		98		58		45		404
16:00	96		108		99		58		45		406
17:00	100		103		98		58		45		404
18:00	100	OFF 18:30 T-301 High from T-1201 Hi ALARMS. 18:55 ALL	103	OFF 18:30	99	OFF 18:30	57		45	OFF 18:30	404
19:00	100		103	BACK ON.	99		57		45		
20:00	101		104		98		57		45		
21:00	100		104		99		57		45		
22:00	100	22:29 OFF T-301 High	104	OFF 22:29 FROM T-1201	98	OFF 22:29 High alarm.	57		45	OFF 22:29	
23:00	100	ON 22:54	104	ON 22:54	99	ON 22:54	58		45	ON 22:54	

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-4-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	101		103		99		57		46		406
01:00	101		103		99		57		46		406
02:00	101		103		99	OFF @ 02:07 ON @ 02:44	57		46		406
03:00	100		104		99		57		46		406
04:00	100		103		98	04:40 OFF 09:58 ON	57		46		404
05:00	100		103		98		57		46		404
06:00	100		103	OFF @05:22 ON @ 05:50	98	OFF @05:22 ON @ 05:50	57		46		404
07:00	100		103		98		57		46		404
08:00	100		103		98		57		45		403
09:00	100		102		98		57		45		402
10:00	101		103		99		58		45		406
11:00	100		103		99		57		45		404
12:00	100		103		99		57		45		404
13:00	100		103		99		57		45		404
14:00	100		102		98		57		46		403
15:00	100		103		98		58		46		405
16:00	100		102		98		58		45		403
17:00	101		103		99		58		45		
18:00	101		102		99		58		45		
19:00	101		102		99		58		45		
20:00	100		103		98		57		45		
21:00	101		103		99		57		45		
22:00	100	OFF 22:35 ON 22:50	103	OFF 22:35 ON 22:50	98	OFF 22:35 ON 22:50	58		45	OFF 22:35 ON 22:50	
23:00	100		103		98		57		45		

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-5-94 DATE.

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	100		103		98		57		45		403
01:00	100		103	OFF @ 01:18 ON @ 01:40	98	OFF @ 01:18 ON @ 01:40	57		45		403
02:00	100		103	OFF @ 02:15 ON @ 02:30	98	OFF @ 02:15 ON @ 02:30	57		45		403
03:00	100		103		99		57		45		404
04:00	100		103	OFF @ 04:20 ON @ 04:50	99	OFF @ 04:20 ON @ 04:50	57		45		404
05:00	101		102		100		57		45		405
06:00	101		102		100		57		45		405
07:00	101		102		100		57		45		405
08:00	101		102		100		57		45		405
09:00	100		103		99		58		45		405
10:00	100		102		98		57		45		402
11:00	100		102		99		57		45		403
12:00	101		103		99		57		45		405
13:00	100		103		99		57		45		404
14:00	100		103		98		57		45		403
15:00	101		102		98		57		45		403
16:00	101		102		98		57		45		403
17:00	101		102		98		57		45		403
18:00	100		103		98		57		45		405
19:00	101	ALL OFF 10MIN	102	T-201 HIGH	98	LEVEL SWITCH	57	BROWN	45		404
20:00	101		102		98		57		45		405
21:00	101		104		98		58		46		407
22:00	101		103		98		58		45		405
23:00	101	ALL OFF 10MIN	104	T-301 HIGH	99		59		46		409

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-6-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	101		103		98		59		46		409
01:00	101		103		98		59		46		409
02:00	101		103		98		59		46		409
03:00	101		103	OFF @ 03:20 ON @ 03:53	98	OFF @ 03:20 ON @ 03:53	59		46		409
04:00	101		103		98		59		46		409
05:00	102		104	OFF @ 05:05 ON @ 05:30	98	OFF @ 05:05 ON @ 05:30	58		46		408
06:00	102		104		97		58		46		407
07:00	102		103	OFF @ 07:30 ON @ 07:50	97	OFF @ 07:30 ON @ 07:50	58		45		405
08:00	101		103		98		58		46		406
09:00	101		104		98		58		45		406
10:00	101		104		97		58		46		406
11:00	101		104		97		58		46		406
12:00	102		104		97		58		46		407
13:00	102		104		97		59		46		408
14:00	102		104		97		59		46		408
15:00	102		104		96		58		46		406
16:00	102		104		98		59		46		409
17:00	102		RA		98		58		46		
18:00	101		104		97		59		46		405
19:00	101		103		97		59		46		406
20:00	101		103		98		59		46		406
21:00	~~[illegible]~~	SYSTEM + WELLS	~~[illegible]~~	OFF @ 2041	~~[illegible]~~	FOR WEEKLY	~~[illegible]~~	MAINT.	~~[illegible]~~		~~[illegible]~~
22:00	–		–		–		–		–		–
23:00	–		–		–		–		–		–

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-7-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	~~101~~	Wells ON @ 01:15	~~107~~		~~105~~		~~59~~		46		~~418~~
01:00	101		107		105		59		46		418
02:00	100		107	OFF @ 02:40 ON @ 03:25	104	OFF @ 02:40 ON @ 03:25	59		45		415
03:00	100		—		—		59		45		204
04:00	101		104	OFF @ 04:10 ON @ 04:30	98	OFF @ 04:10 ON @ 04:30	59		46		408
05:00	101		103		97		58		45		404
06:00	101		103	OFF @ 06:30 ON @ 06:55	97	OFF @ 06:30 ON @ 06:55	58		45		404
07:00	100		106		98		59		46		409
08:00	100		103		98		59		45		405
09:00	101		103		97		58		45		404
10:00	100		104		98		58		45		405
11:00	101		104		97		59		45		406
12:00	101	12:40 ALL	104	WELLS OFF	97		59		45		406
13:00		CATION		DRUM REPLACED							
14:00	101	14:10 ALL	104	WELLS ON	97		59		46		407
15:00	100		104		96		59		45		404
16:00	101	OFF 16:55	104	OFF 16:55	96	OFF 16:55	59		45	OFF 16:55	405
17:00	—		—		—		59		—		65
18:00	101	ON 18:00	104	ON 18:00	96	ON 18:00	59		45	ON 18:00	405
19:00	102		105		—	OFF 19:00 ON 19:40	59		—	OFF 19:00 ON 19:40	268
20:00	105	18:40 LOST IW2 FOR FEW MINUTES BAD SIGNAL	104		98		59		46		410
21:00	103		106		97		59		45		412
22:00	103		106		97		59		45		412
23:00	104		106		98		59		45		413

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

7-8-94

WELL LOG (gpm)

DATE. _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	104		107		0	OFF 00:00 HIGH INFLUENT	58		46		317
01:00	103		106		0		58		46		317
02:00	103		106		99	BACK ON 02:00	59		46		411
03:00	103		106		99		59		46		411
04:00	103		106		99		59	04:15 OFF HIGH 301 TANK ON 05:40	46		411
05:00	103		106		98		0		46		355
06:00	103	06:21 ALL WELLS OFF 10 MIN	106		98		58		45		410
07:00	100		105		98	OFF 07:22 HIGH 301 TANK.	59		46		409
08:00	101		105		98	ON 07:50	58		45		407
09:00	102		106		—	8:40 - OFF 9:10 - ON	59		46		313
10:00	101		105		98		58		45		407
11:00	101		105		97		59		46		408
12:00	101		105		98		59		46		409
13:00	101		105		97		59		46		408
14:00	101		105		97	13:22 - OFF 13:56 - ON	59		45		407
15:00	101		105		97		59		46		408
16:00	101		106		96		59		46		408
17:00	101		106		96		59				407
18:00	102		106		97		59				408
19:00	102		106		96		59		—	OFF @ 19:00	366
20:00	102		106		98		59		—		365
21:00	102	ALL OFF 10 MIN.	106	VAVE TO HIGH	104	T-301 TANK	59		46	ON @ 21:00	417
22:00	102		106		104		59		46		416
23:00	102		106		104		58		46		418

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

7-9-94

WELL LOG (gpm)

DATE. 7-9-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	102		106		104		59		46		416
01:00	102		106		104	OFF 01:00 High 301 TANK	59		46		416
02:00	103		105		0	ON 02:40	59		46		316
03:00	102		106		99		59		45		410
04:00	102		106		98		59		46		410
05:00	102		106		98	OFF 05:40 ON 06:38	59		46		411
06:00	102		108		0		59		45		316
07:00	102		106		98		59		45		410
08:00	102		107		98		58		45		410
09:00	103		107		—	8:10 OFF 9:33 ON	59		46		315
10:00	102		106		97		58		45		408
11:00	102		106		97		59		46		410
12:00	102		107		97		59		46		411
13:00	102		106		98		59		46		411
14:00	102		106		97		59		46		410
15:00	102		106		97		59		46		410
16:00	102		106		98	15:06 - OFF 15:53 - ON	58		46		410
17:00	102		106		97	OFF 17:30 ON 18:00	59		46		409
18:00	102		105		103		59		45		415
19:00	103		105		103		59		45		415
20:00	103	LOST SIGNAL TO IW2 *	106		--	OFF 20:00	59		46		315
21:00	103*	BUT WATER STILL COMING	106		97	ON 21:00	59		46		411*
22:00	103*		105		97		59		45		411 *
23:00	103*		105		98		59		46		411 *

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL .OG (gpm)

DATE: 7-10-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	102		105		98		59		46		410
01:00	101		105		99		58		45		408
02:00	102		105		98		59		45		409
03:00	102		105		98		58		46		409
04:00	101		105		99		59		45		409
05:00	101		105		98		59		45		408
06:00	101		105		98		58		45		407
07:00	102		104		98		59		45		408
08:00	102		105		98		58		45		408
09:00	102		105		97		59		45		408
10:00	102		105		97		58		45		407
11:00	102		105		98		58		45		408
12:00	102		104		98	OFF 12:15	58		45		407
13:00	101		105		[illegible]	on 13:15	58		45		309
14:00	102		104		97		59		45		407
15:00	102		105		97		59		45		407
16:00	102	16:20 All wells OFF	105		98		50		45		407
17:00	102	ON @ 16:38 All wells	109		98		50	Adjusted to 50GPM @ 16:38	46		403
18:00	101		109		98	[illegible]	50		46		402
19:00	101		109		98	OFF @ 19:05	50		46		402
20:00	102		111		—	ON @ 20:05	50		46		309
21:00	101		109		98		50		46		404
22:00	101		109		98	OFF @ 22:00 ON @ 22:55	50		46		404
23:00	101		109		98		50		45		403

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL .OG (gpm)

7-11-94 DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	101		109		98		50		45		403
01:00	101		110		97		50		46		404
02:00	101		110		98		50		45		404
03:00	101		110		98		50		45		404
04:00	101		110		97		50		46		404
05:00	101		109		98		49		45		402
06:00	101		109		99		50		45		404
07:00	101		109		98		50		45		403
08:00	101		109		97		49		45		401
09:00	101		109		98		49		45		
10:00	101		109		98		49		45		
11:00	100		109		98		49		45		
12:00	101	OFF 12:16 On 12:26	109	OFF 12:16 On 12:26	98	OFF 12:16 On 12:26	49	OFF 12:16	45	OFF 12:16 On 12:26	
13:00	100		109		98		—		45		
14:00	101		109		98		—	14:10	45		
15:00	101		109		98		50		45		
16:00	101		109		98	16:15 OFF 17:00 ON	50		45		403
17:00	101		109		98		50		45		403
18:00	101		109		98		50		45		403
19:00	101		109		98	OFF @ 19:02 ON @ 20:00	50		45		403
20:00	101		109	OFF @ 20:15 ON @ 20:45	100	OFF @ 20:15	50		44		405
21:00	101		106		—	RW6S NOT working	49		45		301
22:00	101		106		—		49		45		301
23:00	101		106		—		49		45		301

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

Shut Down [illegible] @ [illegible]

02/11/93
JPV:lms

WELL LOG (gpm)

7-14-94 DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	~~101~~		~~105~~								
01:00											
02:00											
03:00											
04:00											
05:00											
06:00											
07:00											
08:00											
09:00											
10:00											
11:00											
12:00											
13:00											
14:00											
15:00											
16:00	101		105		—		50		45		301
17:00	101		106		—		49		45		302
18:00	100		105		99	18:15 AW6S ON	49		46		399
19:00	101		105		98		50		45		399
20:00	101	All wells OFF @ 20:00	105		98		50		46	OFF 10 MIN.	400
21:00	—	~~[illegible]~~	—	OFF 10 MIN.	—	OFF 10 MIN.	—		—		
22:00	—	20:22 All wells OFF	—		—		—		—		
23:00	—		109		103		52		46		310

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-15-94

DATE. _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	—		109		103		52		46		310
01:00	—		112		100		52		46		310
02:00	—		112		100		52		46		310
03:00	—		112		100		52		46		310
04:00	—		112		100		52		46		310
05:00	—		112		100		52		46		310
06:00	—		112		100		52		46		310
07:00	—		112		100		52		46		310
08:00	—		112		100		52		46		310
09:00	—		112		100		52		46		310
10:00	—		112		100		52		46		310
11:00	100	ON MAN. @ 11:30	112		100		52		46		310
12:00	100	NOT SHOWING... READ AT PUMP	112		100		50	12:30 OFF HIGH T-301	46		300/408
13:00	100		112		100		—	ON @ 13:30	46		358
14:00	100		112		100		50	NOT SHOWING READ AT PUMP	46		408
15:00	100		112		100		50		46		408
16:00	100		106		100		52		46		403
17:00	100		106		99		52		45		402
18:00	100		106		99		52		45		402
19:00	100		106		99		52		45		402
20:00	100		106		100		51		45		402
21:00	100		106		100		53		45		402
22:00	100		106		99		52		45		402
23:00	100		106		99		52		45		402

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

Operati. _ Log

WELL LOG

System: _____ Date: _____

Operator: _____ Shift: _____

Sample:	7-16-94								7-17-94				
	Analysis				Analysis				Analysis				
Time	RIW2	RIW6D	RW6S	W-9	LAYNE	IX	RIW2	RIW6D	RW6S	W-9	LAYNE	IX	Notes
00:00	100	106	99	51	45	401	100	106	99	51	45	457	
01:00	100	106	99	52	45	402	99	106	98	51	45	0	No flow "C"
02:00	100	106	99	51	45	401	99	105	99	51	45	451	
03:00	100	106	100	52	45	403	97	106	98	50	45	402	
04:00	100	106	99	52	45	402	97	106	99	50	45	459	
05:00	100	106	99	52	45	402	97	106	99	50	46	405	
06:00	100	107	99	52	45	403	97	106	99	51	45	389	
07:00	100	106	99	52	45	402	97	106	98	55	45	401	
08:00	100	106	98	51	45	400	97	106	98	55	45	401	
09:00	100	106	98	51	45	401	97	106	98	55	45	401	
10:00	100	106	98	51	45	401	97	106	98	55	45	401	
11:00	100	106	99	51	45	401	97	106	98	54	45	400	
12:00	100	106	99	51	OFF @ 12:00	356	97	106	99	54	45	401	
13:00	100	106	100	51	FOR CHANGEOUT	357	97	106	98	55	45	401	
14:00	100	106	99	51	OF CELL "C"	357	97	106	99	55	45	402	
15:00	100	106	99	51	ON 14:20	357	97	107	98	55	46	402	
16:00	101	106	OFF 15:30 99	51	—	358	97	107	98	55	46	402	
17:00	100	106	99	51	46	401	97	106	99	54	45	401	
18:00	100	106	100	51	45	401	97	106	99	55	46	403	
19:00	100	106	99	51	45	401	97	106	99	54	45	401	
20:00	100	106	99	51	45	401	97	106	100	54	45	402	
21:00	100	106	99	51	45	401	97	106	99	54	46	402	
22:00	100	106	99	51	46	402	97	106	99	54	45	401	
23:00	100	106	99	51	45	401	98	106	99	54	45	402	
24													

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-18-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	97		106		99		59		45		402
01:00	97		106		99		55		45		402
02:00	97		106		100		54		45		402
03:00	97		106		99		55		45		402
04:00	97		106		99		54		45		401
05:00	97		106		99		55		45		402
06:00	97		106		99		54		45		401
07:00	97		106		99		55		45		402
08:00	97		106		99		54		45		401
09:00	97		106		99		54		45		401
10:00	97		106		99		54		45		401
11:00	97		106		99		54		45		401
12:00	97		106		98		54		45		400
13:00	97		107		99		54		45		402
14:00[1]	97		107		99		54		45		402
15:00	97		107		99		54		45		402
16:00	97		103		99		55		45		399
17:00	97		99		99		60		45		400
18:00	97		101		99		60		45		402
19:00	97		101		99		60		45		402
20:00	97		101		98		60		45		401
21:00	97		101		98		60		45		401
22:00	97		103		98		60		45		403
23:00	97		103		98		60		45		403

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7/19/94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	107	WELLS OFF	103	@ 00:30	98	FOR WEEK	66	CLEANING	45		403
01:00	-		-		-		-		-		-
02:00	-		-		-		-		-		-
03:00	-		-		-		-		-		-
04:00	-		-		-		-		-		-
05:00	-		-		-		-		-		-
06:00	-	ALL WELLS	-	ON @ 6:40	-	AM	-		-		-
07:00	100		106		99		51		45		400
08:00	101		105		99		51		45		400
09:00	101	09:53 OFF	105	OFF 09:53	99	OFF @ 09:53	51	OFF @ 09:53	45	OF	400
10:00	101		105		99		—		—		306
11:00	101	ON @ 10:23	105	ON @ 10:23	99	ON @ 10:23	51	ON @ 11:35	45	ON @ 11:35	400
12:00	101		105		99		51		45		401
13:00	97		106		98		51		45		398
14:00	98		106		98		51		46		399
15:00	97		106		99		51		46		399
16:00	97		106		98		51		45		397
17:00	98		106		99		57		45		405
18:00	97		106		99		57		46		405
19:00	97		106		98		57		45		403
20:00	97		106		98		57		45		403
21:00	97		106		99		57		45		404
22:00	97		106		98		57		45		403
23:00	96		106		98		57		45		402

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-20-94 DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	97		106		99		57		45		404
01:00	97		106		99		57		45		404
02:00	97		106		98		57		45		
03:00	97		106		98		57		45		
04:00	97		106		98		57		45		
05:00	97		106		98		57		45		
06:00	97		106		98		57		45		
07:00	97		106		98		57		45		
08:00	96		106		98		67		45		403
09:00	97		106		98		56		45		402
10:00	97	POWER ALL	106	WELLS OFF	98	FOR 10 MIN	56		45		402
11:00	97		106		98		56		45		402
12:00	97		106		98		56		45		402
13:00	97		105		97		57		45		401
14:00	97		105		98		57		45		402
15:00	97		105		98		57		45		402
16:00	98		106		97		57		45		403
17:00	98		105		98		57		46		404
18:00	98		105		98		57		46		404
19:00	98		105		98		57		45		403
20:00	98		105		98		57		45		403
21:00	98		105		98	21:05 - OFF 21:47 - ON	57		45		403
22:00	98		106		99		57		45		405
23:00											

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL [ ]G (gpm) 7-21-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	98		106		99		57		45		405
01:00	98		106		99		57		45		405
02:00	97		105		98		57		45		402
03:00	97		105		98		57		45		402
04:00	97		105		98		57		45		402
05:00	97		105		99		57		45		403
06:00	97		105		98		57		45		402
07:00	98		105		98		57		45		402
08:00	97		105		98		57		45		402
09:00	97		105		98		57		45		402
10:00	97		105		98		57		45		402
11:00	97		105		97		57		45		403
12:00	97		105		98		56		45		
13:00	97		105		98		57		45		
14:00	97		105		98		57		45		
15:00	97		105		97		56		45		
16:00	98		105		98		57		45		403
17:00	97		105		98		57		45		402
18:00	97		108		98		57		45		402
19:00	97		105		98		57		45		402
20:00	97		105		98		57		45		402
21:00	97		105		98		57		45		402
22:00	98		105		99		57		45		404
23:00	97		105		97		57		45		401

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-22-94

DATE:

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	97		104		98		57		45		402
01:00	98		105		98		57		45		402
02:00	97		105		98		57		45		401
03:00	98		105		98		56		45		401
04:00	98		105		98		57		45		402
05:00	97		105		98		56		45		401
06:00	98		105		99		56		45		402
07:00	97		105		98		57		45		402
08:00	97		105		98		57		45		402
09:00	97		105		98		56		45		402
10:00	97		105		98		56		45		402
11:00	97		105		98		57		45		403
12:00	97		104		98		57		45		401
13:00	97		105		98		56		45		401
14:00	97		96		97		57		45		392
15:00	97		104		98		57		45		400
16:00	97		104		98		57		45		400
17:00	96		104		98		57		45		400
18:00	97		104		98		57		45		401
19:00	96		104		98		57		46		401
20:00	97		104		99		57		46		403
21:00	96		104		99		57		45		401
22:00	97		104		99		57		46		403
23:00	97		108		98		56		45		404

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-23-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	96		108		97		57		46		406
01:00	96		108		98		57		46		404
02:00	97		108		98		57		46		407
03:00	97		108		98		57		46		405
04:00	97		109		98		57		46		405
05:00	97		108		97		57		46		402
06:00	97		108		98		57		46		407
07:00	97		108		97		57		47		406
08:00	97		108		98		57		46		404
09:00	97		108		97		57		45		405
10:00	97		108		97		57		45		406
11:00	97		108		98		56		44		405
12:00	97		108		97		57		45		405
13:00	97		108		97		57		45		405
14:00	97		108		97		57		45		406
15:00	97		108		98		57		46		407
16:00	97		108		98		57		46		406
17:00	97		108		98		57		46		406
18:00	96		108		98		57		45		404
19:00	97		108		98		57		45		405
20:00	97		108		98		57		46		406
21:00	97		108		98		57		46		406
22:00	97		108		97		56		45		403
23:00	97		108		99		57		46		407

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-24-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	96		108		98		56		45		403
01:00	96		108		98		56		45		403
02:00	96		108		98		56		45		403
03:00	96		108		98		56		45		403
04:00	96		108		98		56		45		403
05:00	97		109		97		56		45		404
06:00	97		109		98		56		45		405
07:00	97		109		98		56		45		405
08:00	97		109		98		56		45		405
09:00	96		108		97		57		45		403
10:00	96		108		98		56		45		403
11:00	97		108		98		56		45		404
12:00	96		108		97		56		45		402
13:00	96		108		97		56		46		403
14:00	97		108		97		56		46		403
15:00	97		108		97		56		46		403
16:00	97		108		97		56		46		403
17:00	97		108		97		56		46		404
18:00	97		108		97		56		45		403
19:00	97		108		97		57		45		404
20:00	97		108		97		57		45		404
21:00	97		108		97		56		45		403
22:00	97		109		98		56		45		405
23:00	97		109		98		56		46		406

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-25-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	97		108		97		56		45		403
01:00	97		108		97		56		45		403
02:00	97		108		97		56		45		403
03:00	97		108		97		56		45		403
04:00	97		108		97		56		45		403
05:00	97		108		98		55		45		403
06:00	97		109		98		55		45		404
07:00	97		109		98		55		45		404
08:00	96		108		98		56		45		403
09:00	97		108		97		56		45		403
10:00	97		108		97		56		45		403
11:00	97		108		97		55		45		402
12:00	97		108		97		56		46		404
13:00	97		108		97		56		46		404
14:00	97		106		97		56		46		402
15:00	97		105		98		55		45		400
16:00	97		105		98		55		46		401
17:00	97		105		97		55		46		400
18:00	97		105		98		56		45		401
19:00	97		105		98		55		46		400
20:00	97		105		98		55		45		401
21:00	97		105		98		56		45		400
22:00	97		105		98		55		46		401
23:00	97		105		98		56		46		402

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-26-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	—	System	—	OFF	—	Mainterance	—	& Clean		up	—
01:00	—		—		—		—		—		—
02:00	—		—		—		—		—		—
03:00	—		—		—		—		—		—
04:00	—		—		—		—		—		—
05:00	—	05:23	—	System	—	ON	—		—		—
06:00	97		108		99		56		46		406
07:00	96		108		98		55		44		401
08:00	96		108		99		55		45		403
09:00	96		108		99		55		45		403
10:00	97		108		98		55		45		403
11:00	97		107		98		55		45		402
12:00	96		107		99		56		45		403
13:00	96	13:30 OFF 13:37 ON	107	13:30 OFF 13:37 ON	99	13:30 OFF 13:37 ON	56		45	13:30 OFF 13:17 ON	403
14:00	96		105		99		56		45		400
15:00	97	15:40 ALL FOR 10	103	WELLS OFF (MIN)	98	(LIGHTING...	59	POWER OUTAGE	45		402
16:00	100		106		98		59		45		408
17:00	100	ALL OFF 20 MIN. (ELEC. STORM	106	20 OFF 10 MIN. KNOCKED OUT WIRES	98	20 OFF 10 MIN. @17:03 + 17:50	60	20 OFF 10 MIN. ALL OFF 10 MIN. 20	45	20 OFF 10 MIN.	409
18:00	99		103		98		60		45		406
19:00	99		103		98		60		45		404
20:00	99		103		97		60		45		405
21:00	99		103		97		60		45		406
22:00	99		103		97		60		46		404
23:00	99		104		98		59		45		404

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-27-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	99		103		99		59		45		405
01:00	99		103		98		59		45		404
02:00	99		103		98		59		44		404
03:00	99		103		98		59		45		404
04:00	99		103		98		59		45		404
05:00	99		103		98		59		45		404
06:00	99		103		98		59		45		404
07:00	99		103		98		59		45		404
08:00	98		104		99		59		45		405
09:00	99		103		98		60		45		405
10:00	99		103		98		60		45		405
11:00	99		103		98		60		45		405
12:00	99		103		98		59		45		404
13:00	98		103		98		59		45		403
14:00	99		103		98		59		45		404
15:00	99		103		97		59		45		403
16:00	99		103		99		59		45		405
17:00	99		103		98		59		45		403
18:00	99		103		97		59		45		405
19:00	100		103		97		59		45		404
20:00	100		103		98		59		45		404
21:00	100	WELLS OFF	107	10 MIN. ...	98	SYSTEM SHUT	59	DOWN HOUR	45	TO CLEAR SURGE	404
22:00	100		107		98		59		45		410
23:00	100		107		98		59		46		409

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN. 2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-28-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	100		107		99		60		45		408
01:00	100		107		98		58		45		408
02:00	100		107		98		58		45		408
03:00	100		107		98		58		45		408
04:00	100		107		98		58		45		408
05:00	100		107		98		59		45		409
06:00	100		107		99		59		45		409
07:00	99		107		98		59		45		408
08:00	100		107		98		59		45		409
09:00	100		107		98		59		45		409
10:00	100		107		98		59		45		409
11:00	100		107		98		59		45		409
12:00	100		108		98		59		45		410
13:00	100		108		98		59		45		410
14:00	100		107		98		59		45		409
15:00	100		107		98		59		45		409
16:00	100		107		98		59		45		409
17:00	100		108		98		60		45		409
18:00	100		108		97		59		45		409
19:00	100		107		98		59		45		409
20:00	100		107		98		60		45		410
21:00	100		108		98		59		45		411
22:00	100		107		98		59		45		409
23:00	100		107		98		59		45		409

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

7-29-94

DATE: _____

TIME	RIW2		RW6D		RW6S		W9		LAYNE		IX =
	Rate	Comments	Rate	Comments	Rate	Comments	Rate	Comments	Rate	Comments	Well Total
00:00	100		107		98		59		45		408
01:00	100		108		98		59		45		410
02:00	100		107		97		59		45		409
03:00	100		107		98		59		45		408
04:00	100		107		97		59		45		408
05:00	100		107		98		59		45		409
06:00	100		107		98		59		45		409
07:00	100		107		98		59		45		409
08:00	100		107		97		58		45		407
09:00	100		108		98		59		45		410
10:00	99		107		98		59		45		408
11:00	100		107		97		59		45		408
12:00	100		107		97		59		45		408
13:00	100		85		98		59		45		387
14:00	100		104		97		59		45		405
15:00	100		105		97		59		45		406
16:00	100		104		97		59		45		405
17:00	100		106		98		59		45		408
18:00	100		106		98		59		45		408
19:00	100		105		97		59		45		407
20:00	100		105		98		59		45		407
21:00	100		105		98		59		45		406
22:00	100		104		97		59		45		405
23:00	100		105		97		59		45		405

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lmsl

WELL LOG (gpm) 7-30-94

DATE: _____

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	100		105		98		59		45		407
01:00	100		105		98		59		45		406
02:00	100		105		98		59		45		407
03:00	100		105		98		59		45		407
04:00	100		104		98		59		45		406
05:00	100		106		98		59		45		407
06:00	100		106		98		59		45		406
07:00	100		105		98		59		45		406
08:00	100		105		98		58		45		406
09:00	100		105		98		58		45		406
10:00	100		104		98		59		45		406
11:00	100		105		97		58		45		405
12:00	100		105		97		58		45		405
13:00	101		105		97		59		45		407
14:00	101		104		97		58		45		405
15:00	101		104		97		59		45		406
16:00	100		104		97		59		45		405
17:00	100		105		97		59		45		406
18:00	100		105		97		59		45		406
19:00	100		105		97		59		45		406
20:00	100	IW2 OFF 18 MIN.	105		97		59		45		406
21:00	100	IW2 OFF 5 MIN.	105		97		59		45		406
22:00	100		105		97		59		45		406
23:00	100	IW2 OFF 30 MIN.	105		97		59		45		406

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

02/11/93
JPV:lms

WELL LOG (gpm)

DATE: 7-31-94

TIME	RIW2 Rate	RIW2 Comments	RW6D Rate	RW6D Comments	RW6S Rate	RW6S Comments	W9 Rate	W9 Comments	LAYNE Rate	LAYNE Comments	IX = Well Total
00:00	100		105		97		59		45		406
01:00	100		105		97		58		45		405
02:00	100		105		97		58		45		405
03:00	99		105		97		59		45		405
04:00	100		105		97		58		45		405
05:00	100		105		98		57		45		405
06:00	100		105		98		57		45		405
07:00	100		105		97		58		45		405
08:00	100		105		97		58		45		405
09:00	99		105		97		58		45		404
10:00	100		105		97		58		45		405
11:00	100		105		97		57		45		404
12:00	100		104		97		58		45		404
13:00	100		105		97		58		45		405
14:00	100		105		97		58		45		405
15:00	100		105		97		57		45		404
16:00	100		105		98		57		45		405
17:00	100		105		98		58		45		406
18:00	100		105		97		58		45		405
19:00	100		105		97		58		45		406
20:00	100		105		97		58		45		405
21:00	100		105		97		57		45		404
22:00	100		105		97		57		45		405
23:00	100		106		97		57		45		404

1) RECORD PUMP ON/OFF TIMES IN COMMENTS COLUMN.

2) HOURLY RECORD PUMPING RATE OF RECOVERY WELL(S).

V

WELL CONSTRUCTION DATA

SHIELDALLOY METALLURGICAL CORPORATION
MONITORING WELL DATA SHEETS

WELL LOCATION	PERMIT NUMBER	DATE INSTALLED	TPVC (ft, msl)	HOLE DIAMETER	CASING TYPE/ DIAMETER	TOTAL DEPTH (feet)	SCREENED INTERVAL	CONDITION
ON-SITE WELLS								
A	51-142	1970	94.82	J	STEEL/2"	124.0	114-124	GOOD
B	51-143	1970	94.33	J	STEEL/2"	46.0	36-46	GOOD
C	51-144	1970	96.29	J	STEEL/2"	85.0	75-85	CLOSED
D	51-145	1970	99.42	J	STEEL/2"	47.0	37-47	CLOSED
E	51-146	1970	98.92	J	STEEL/2"	48.0	36-48	CLOSED
F	51-147	1971	108.58	J	STEEL/2"	41.0	31-41	GOOD
G1S	51-148	1971	104.74	J	STEEL/2"	49.0	39-49	CLOSED
G2D	51-149	1971	104.59	J	STEEL/2"	128.0	118-128	CLOSED
H	51-150	1971	103.02	J	STEEL/2"	54.0	44-54	CLOSED
I	51-151	1971	95.09	J	STEEL/2"	46.0	36-46	CLOSED
K	51-152	1971	99.18	J	STEEL/2"	46.0	36-46	GOOD
L	51-153	1971	103.51	J	STEEL/2"	52.0	42-52	GOOD
W1	-	01/29/74	98.60	8"	PVC/4"	122.0	18-23/38-43/58-63	GOOD
							78-83/118-123	GOOD
W2 (R)	31-38189	12/20/91	97.96	8"	PVC/4"	17.0	2-17	GOOD
W3S	31-25760	12/05/86	108.37	8"	PVC/4"	62.0	42-62	CLOSED
W3D	31-25759	12/05/86	107.85	8"	PVC/4"	108.0	88-108	GOOD
W4	51-219	05/08/74	104.58	8"	PVC/4"	75.0	55-75	GOOD
W8	-	10/18/74	97.44	10"	PVC/6"	126.0	35-45/80-100	CLOSED
							115-126	CLOSED
DW2	51-225	BEFORE 1970	110.92	-	STEEL/2"	94.0	-	CLOSED
DW4	51-226	BEFORE 1970	-	-	STEEL/2"	94.0	-	CLOSED
IWC1	51-220	01/74	98.13	J	STEEL/2"	20.0	15-20	GOOD
IWC2	51-221	01/74	98.51	J	STEEL/2"	40.0	35-40	GOOD
IWC3	51-222	01/74	97.83	J	STEEL/2"	60.0	55-60	GOOD
IWC4	51-223	01/74	98.61	J	STEEL/2"	80.0	75-80	GOOD
IWC5	51-224	01/74	98.03	J	STEEL/2"	100.0	95-100	GOOD
SC7S	31-23366-0	07/31/85	107.41	8"	PVC/4"	30.0	15-30	GOOD
SC8S	31-23367-8	07/31/85	107.66	8"	PVC/4"	30.0	15-30	GOOD
SC9S	31-23368-6	08/01/85	96.23	8"	PVC/4"	30.0	15-30	GOOD
SC11S	31-29139-2	09/01/88	108.33	5"	PVC/2"	27.0	20-27	CLOSED
SC11S (R)	31-39512	07/01/92	108.12	8"	PVC/4"	24.0	9-24	GOOD
SC12S	31-29140-6	09/02/88	104.76	5"	PVC/2"	25.0	15-25	GOOD
SC12D	31-35226-0	11/28/90	103.19	12"	PVC/4"	140.0	126-136	GOOD
SC13S	31-29570-3	09/09/88	101.41	5"	PVC/2"	24.7	14.7-24.7	GOOD
SC13D	31-35227-8	11/29/90	101.99	12"	PVC/4"	140.5	127-137	GOOD
SC14S	31-35215-4	11/15/90	108.38	8"	PVC/4"	27.0	12-27	GOOD
SC15S	31-35216-2	11/13/90	108.32	8"	PVC/4"	27.5	12.5-27.5	GOOD
SC16S	31-35217-5	11/14/90	108.05	8"	PVC/4"	27.0	12-27	GOOD
SC20S	31-35218-3	11/13/90	104.45	8"	PVC/4"	22.0	7-22	GOOD
SC20D	31-38187	01/10/92	104.53	12"	PVC/4"	139.0	129-139	GOOD
SC22S	31-35219-7	11/14/90	99.65	8"	PVC/4"	18.0	3-18	GOOD
SC22D	31-35222-7	11/21/90	98.72	12"	PVC/4"	125.0	111-121	GOOD
SC23S	31-35437-8	11/16/90	102.21	8"	PVC/4"	24.0	9-24	GOOD
SC25S	31-38188	12/23/91	102.27	8"	PVC/4"	21.0	6-21	GOOD
SC27S	31-41031	12/15/92	100.54	8"	PVC/4"	22.0	7-22	GOOD

NOTES: J = Well was Installed Using Jetting Technique
- = No Data Available
msl = Feet Above Mean Sea Level
TPVC = Top of PVC Casing
(R) = Replacement Well

SHIELDALLOY METALLURGICAL CORPORATION
MONITORING WELL DATA SHEETS

WELL LOCATION	PERMIT NUMBER	DATE INSTALLED	TPVC (ft, msl)	HOLE DIAMETER	CASING TYPE/ DIAMETER	TOTAL DEPTH (feet)	SCREENED INTERVAL	CONDITION
OFF-SITE WELLS								
IW1	-	04/05/83	90.33	-	PVC/6"	62.0	32-62	GOOD
IW2	-	11/12/85	91.05	8"	PVC/6"	70.0	40-70	GOOD
IW3	-	-	92.18	-	STEEL/4"	60.0	-	POOR
IW4	-	06/19/84	96.94	10"	PVC/5"	120.0	40-65/105-130	CLOSED
SC1S	31-28825-1	06/22/88	87.26	8"	PVC/4"	55.0	35-55	GOOD
SC1D	31-21619-6	05/30/84	90.90	5"	PVC/2"	115.0	85-95/100-115	GOOD
SC2D (R)	31-38194	01/03/92	92.70	8"	PVC/4"	-	106-116	GOOD
SC3S	31-28914-2	06/08/88	90.32	8"	PVC/4"	55.0	35-55	GOOD
SC3D (R)	31-38195	01/07/92	91.06	8"	PVC/4"	-	102-112	GOOD
SC4S	31-21689-7	06/07/84	93.65	5"	PVC/2"	45.0	35-45	GOOD
SC4D	31-21690-1	06/08/84	92.64	5"	PVC/2"	120.0	110-120	GOOD
SC5S	31-35434-1	11/28/90	96.55	8"	PVC/4"	20.0	5-20	GOOD
SC5D	31-21876-8	06/12/84	97.00	5"	PVC/2"	120.0	90-120	GOOD
SC6S	31-21691-5	06/21/84	94.62	5"	PVC/2"	75.0	45-75	GOOD
SC6D	31-21878-4	06/26/84	94.38	12"	PVC/2"	125.0	110-120	GOOD
SC10S	31-23369	11/11/85	95.38	8"	PVC/4"	55.0	35-55	GOOD
SC10D	31-23370	11/12/85	95.72	8"	PVC/4"	125.0	105-125	GOOD
SC17S	31-35229-4	11/19/90	109.26	8"	PVC/4"	28.0	13-28	GOOD
SC17D	31-35223-5	11/27/90	108.07	12"	PVC/4"	153.0	143-153	GOOD
SC18S	31-35230-8	11/15/90	95.72	8"	PVC/4"	19.0	4-19	GOOD
SC18D	31-35228-6	11/20/90	96.01	8"	PVC/4"	130.0	119-129	GOOD
SC19S	31-35224-3	11/15/90	92.98	8"	PVC/4"	17.0	2-17	GOOD
SC19D	31-35221-9	11/26/90	92.03	12"	PVC/4"	133.0	120-130	GOOD
SC21S	31-35225-1	11/15/90	92.64	8"	PVC/4"	18.0	3-18	GOOD
SC21D	31-35220-1	11/27/90	91.65	12"	PVC/4"	140.0	125-135	GOOD
SC24S	31-35435-1	11/28/90	93.57	8"	PVC/4"	20.0	5-20	GOOD
SC24D	3142083	08/24/93	93.52	8"	PVC/4"	115.0	105-115	GOOD
SC26D	31-39500	07/09/92	100.45	8"	PVC/4"	143.0	127-137	GOOD
RECOVERY WELLS								
LAYNE	51-154	1971	94.11	8"	STEEL/6"	47.0	42-47	GOOD
W9	31-19648	10/17/82	94.43	12"	PVC/6"	130.0	110-130	GOOD
RW6S	31-28710	06/16/88	92.70	14"	PVC/8"	75.0	55-75	GOOD
RW6D	31-28711	08/05/88	93.08	14"	PVC/8"	125.0	90-125	GOOD
RIW2	31-28712	08/02/88	91.52	14"	PVC/8"	75.0	30-55	GOOD

NOTES:
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TPVC = Top of PVC Casing
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VI

MONITORING WELL LOCATION MAP

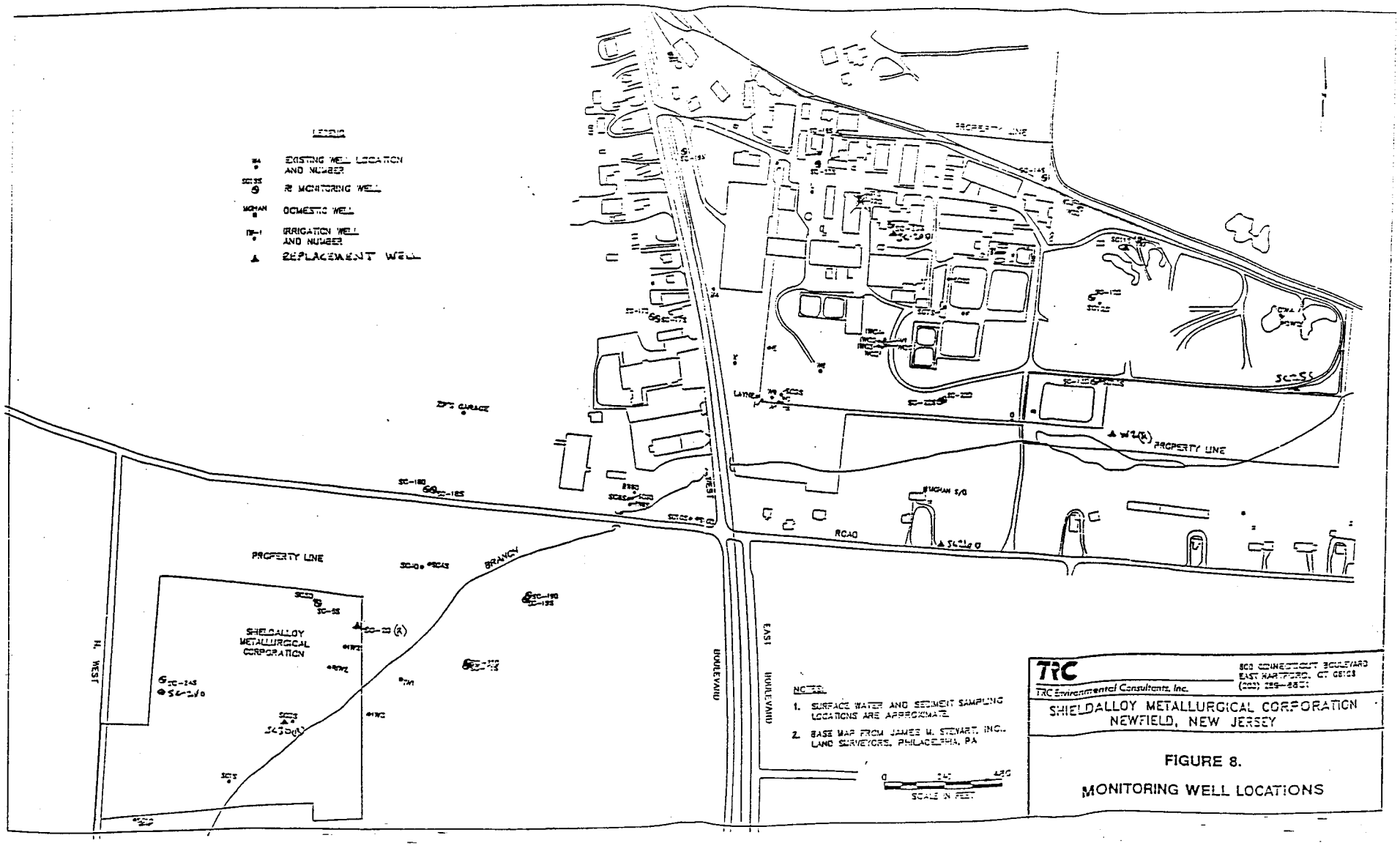

FIGURE 8.

MONITORING WELL LOCATIONS